

Regression Analysis of All Science Networks

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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 GD_d Tpaths_d TSpaths_d AvgPL_d
AvgGL_d PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.
```

Regression

Notes

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Input	Active Dataset DataSet6

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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		<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 ECin</p> <p>/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con</p> <p>/SCATTERPLOT=(*ZRESID ,*ZPRED)</p> <p>/SAVE COOK.</p>	
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	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	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).

a. Dependent Variable: ECin

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.490 ^a	.240	.232	.00246164385 1158
2	.569 ^b	.324	.308	.00233601065 2689

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, Tpaths_d

c. Dependent Variable: ECin

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	28.180	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	21.061	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			

a. Dependent Variable: ECin

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.011	.000		42.331	.000
	Reciprocity	-.037	.007	-.490	-5.308	.000
2	(Constant)	.016	.001		11.411	.000
	Reciprocity	-.035	.007	-.467	-5.311	.000
	Tpaths_d	-.412	.125	-.289	-3.291	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.994	1.007
	Tpaths_d	.994	1.007

a. Dependent Variable: ECin

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.278 ^b	-3.152	.002	-.318	.994	1.006
	Edges_d	-.286 ^b	-3.235	.002	-.326	.988	1.012
	Den_d	.250 ^b	2.797	.006	.286	.995	1.005
	GD_d	-.121 ^b	-1.306	.195	-.138	.992	1.008
	Tpaths_d	-.289 ^b	-3.291	.001	-.331	.994	1.007
	TSpaths_d	-.289 ^b	-3.282	.001	-.330	.994	1.006
	AvgPL_d	-.234 ^b	-2.578	.012	-.265	.977	1.024
	AvgGL_d	-.231 ^b	-2.555	.012	-.263	.981	1.019
	PL_TpinN	-.056 ^b	-.599	.551	-.064	1.000	1.000
	PL_TSpinN	.004 ^b	.046	.964	.005	1.000	1.000
	S_con	.039 ^b	.425	.672	.045	.999	1.001
	R_con	-.122 ^b	-1.330	.187	-.140	.999	1.001
2	Nodes	-.157 ^c	-1.375	.173	-.146	.581	1.720
	Edges_d	-.174 ^c	-1.577	.118	-.167	.624	1.604
	Den_d	.125 ^c	1.170	.245	.124	.669	1.494
	GD_d	.030 ^c	.296	.768	.032	.749	1.335

TSpaths_d	1.422 ^c	.337	.737	.036	.000	2300.240
AvgPL_d	.059 ^c	.341	.734	.037	.263	3.798
AvgGL_d	.068 ^c	.395	.694	.042	.262	3.820
PL_TpinN	-.085 ^c	-.970	.335	-.103	.990	1.010
PL_TSpinN	-.041 ^c	-.460	.647	-.049	.976	1.024
S_con	.119 ^c	1.318	.191	.140	.937	1.068
R_con	.069 ^c	.635	.527	.068	.661	1.513

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.994
	Edges_d	.988
	Den_d	.995
	GD_d	.992
	Tpaths_d	.994
	TSpaths_d	.994
	AvgPL_d	.977
	AvgGL_d	.981
	PL_TpinN	1.000
	PL_TSpinN	1.000
	S_con	.999

	R_con	.999
2	Nodes	.581
	Edges_d	.624
	Den_d	.668
	GD_d	.749
	TSpaths_d	.000
	AvgPL_d	.263
	AvgGL_d	.262
	PL_TpinN	.983
	PL_TSpinN	.970
	S_con	.932
	R_con	.658

a. Dependent Variable: ECin

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	Tpaths_d
1	1	1.285	1.000	.36	.36	

	2	.715	1.341	.64	.64	
2	1	2.133	1.000	.01	.05	.01
	2	.852	1.582	.00	.95	.00
	3	.016	11.724	.99	.00	.99

a. Dependent Variable: ECin

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00527369789 7792	.01218935940 4147	.01098901098 9011	.00159812792 0298
Std. Predicted Value	-3.576	.751	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00494365999 4751	.01217587199 0621	.01098005700 6511	.00163684706 9404
Residual	- .00934010650 9626	.00417208299 0408	.00000000000 0000	.00230990915 5775
Std. Residual	-3.998	1.786	.000	.989
Stud. Residual	-4.022	1.991	.002	1.022
Deleted Residual	- .00945326127 1119	.00518253864 7205	.00000895398 2500	.00247518140 3127
Stud. Deleted Residual	-4.427	2.025	-.009	1.058

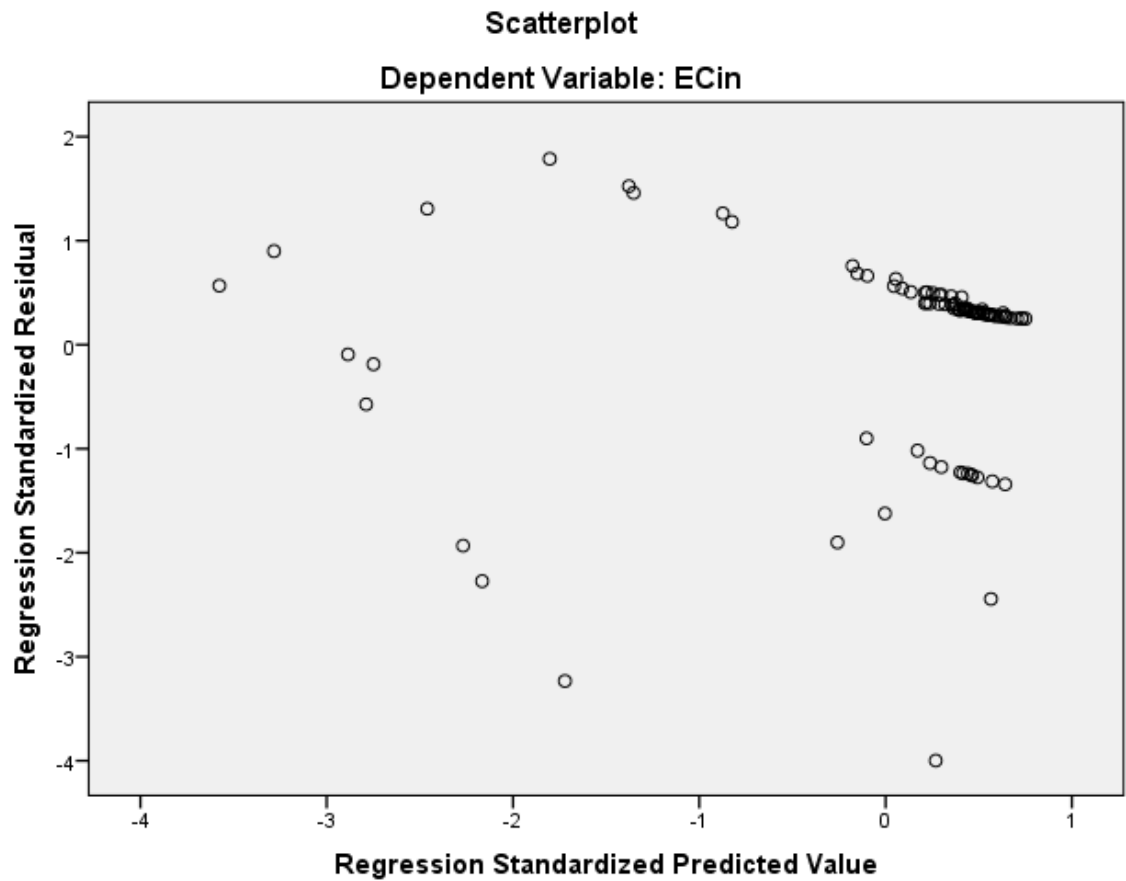
Mahal. Distance	.087	16.950	1.978	4.225
Cook's Distance	.000	.938	.026	.106
Centered Leverage Value	.001	.188	.022	.047

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: 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 GD_d Tpaths_d TSpats_d AvgPL_d
AvgGL_d PL_TpinN PL_TSpinN S_con R_con

/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.
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	Elapsed Time	00:00:00.26
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	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).

a. Dependent Variable: PL_EVCinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.669 ^a	.448	.442	.02739688437 7754

a. Predictors: (Constant), Reciprocity

b. Dependent Variable: PL_EVCinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.054	1	.054	72.289	.000 ^b
	Residual	.067	89	.001		
	Total	.121	90			

a. Dependent Variable: PL_EVCinN

b. Predictors: (Constant), Reciprocity

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.004	.003		1.244	.217
	Reciprocity	.661	.078	.669	8.502	.000

Coefficients^a

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

a. Dependent Variable: PL_EVCinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	.072 ^b	.915	.363	.097	.994	1.006
	Edges_d	.055 ^b	.692	.491	.074	.988	1.012
	Den_d	-.068 ^b	-.861	.391	-.091	.995	1.005
	GD_d	.098 ^b	1.243	.217	.131	.992	1.008
	Tpaths_d	.121 ^b	1.538	.128	.162	.994	1.007
	TSpaths_d	.117 ^b	1.492	.139	.157	.994	1.006
	AvgPL_d	.135 ^b	1.717	.090	.180	.977	1.024
	AvgGL_d	.125 ^b	1.587	.116	.167	.981	1.019
	PL_TpinN	-.013 ^b	-.169	.866	-.018	1.000	1.000
	PL_TSpinN	.000 ^b	-.004	.997	.000	1.000	1.000
	S_con	-.010 ^b	-.120	.904	-.013	.999	1.001
	R_con	.027 ^b	.344	.732	.037	.999	1.001

Excluded Variables^a

Model	Collinearity Statistics
	Minimum Tolerance

1	Nodes	.994
	Edges_d	.988
	Den_d	.995
	GD_d	.992
	Tpaths_d	.994
	TSpaths_d	.994
	AvgPL_d	.977
	AvgGL_d	.981
	PL_TpinN	1.000
	PL_TSpinN	1.000
	S_con	.999
	R_con	.999

a. Dependent Variable: PL_EVCinN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Reciprocity
1	1	1.285	1.000	.36	.36
	2	.715	1.341	.64	.64

a. Dependent Variable: PL_EVCinN

Residuals Statistics^a

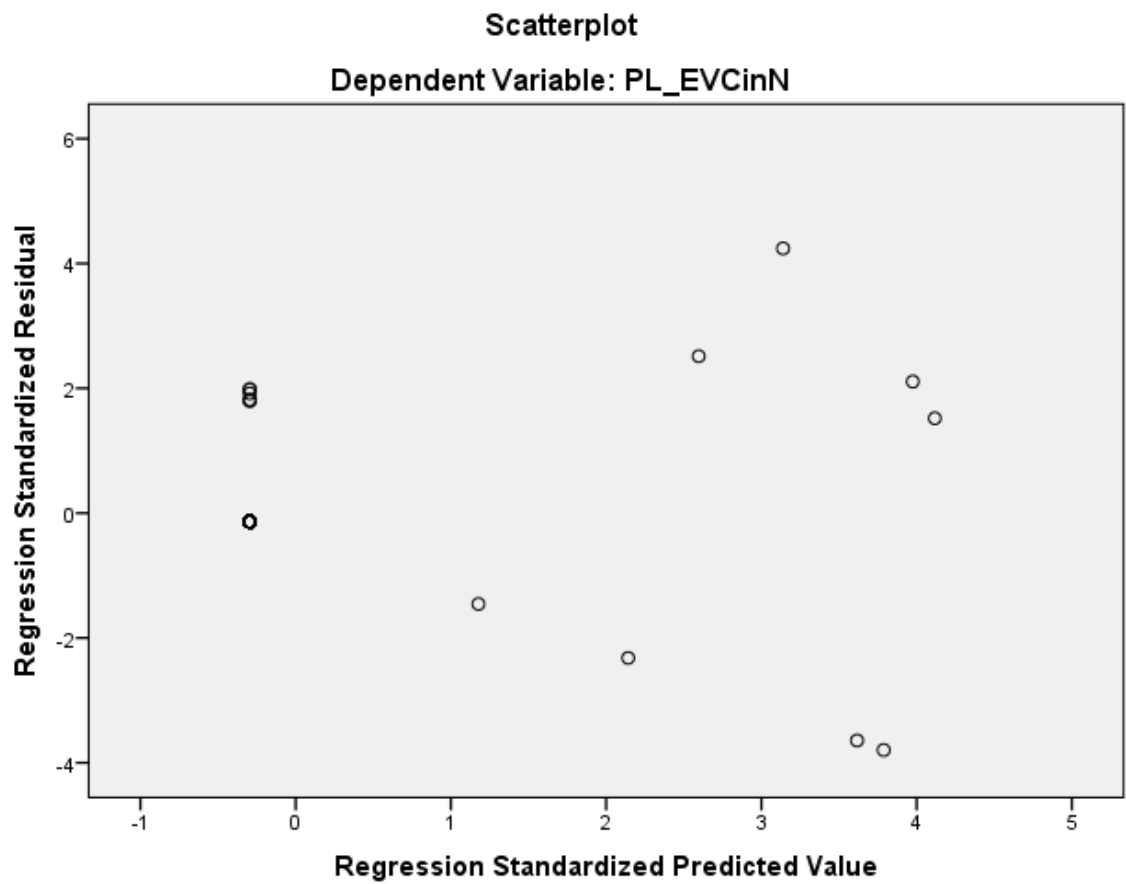
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00372651172 8019	.11206911504 2686	.01098901098 9011	.02455365932 6284
Std. Predicted Value	-.296	4.117	.000	1.000
Standard Error of Predicted Value	.003	.012	.004	.002
Adjusted Predicted Value	.00306705315 5974	.12535019218 9217	.01097633209 4034	.02482374147 6739
Residual	- .10399094223 9761	.11618811637 1632	.00000000000 0000	.02724425430 7838
Std. Residual	-3.796	4.241	.000	.994
Stud. Residual	-4.167	4.522	.000	1.053
Deleted Residual	- .12535019218 9217	.13211061060 4286	.00001267889 4977	.03061367723 0074
Stud. Deleted Residual	-4.619	5.124	.001	1.128
Mahal. Distance	.087	16.947	.989	3.318
Cook's Distance	.000	1.784	.069	.289
Centered Leverage Value	.001	.188	.011	.037

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 Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpats_d AvgPL_d
AvgGL_d PL_TpinN PL_TSpinN S_con R_con

/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_TpinN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.24
	Memory Required	14512 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	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: EVCin_TpinN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.463 ^a	.214	.205	.00403939990 6920
2	.528 ^b	.279	.262	.00389148010 4173

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, R_con

c. Dependent Variable: EVCin_TpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	24.232	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			
2	Regression	.001	2	.000	17.002	.000 ^c
	Residual	.001	88	.000		
	Total	.002	90			

a. Dependent Variable: EVCin_TpinN

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, R_con

Coefficients^a

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

		B	Std. Error	Beta		
1	(Constant)	.019	.002		11.380	.000
	AvgGL_d	-.719	.146	-.463	-4.923	.000
2	(Constant)	.026	.003		8.576	.000
	AvgGL_d	-.483	.164	-.311	-2.945	.004
	R_con	-.902	.321	-.296	-2.810	.006

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.737	1.357
	R_con	.737	1.357

a. Dependent Variable: EVCin_TpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.068 ^b	-.672	.503	-.071	.868	1.152

	Edges_d	-.043 ^b	-.427	.670	-.045	.879	1.138
	Reciprocity	-.013 ^b	-.134	.893	-.014	.981	1.019
	Den_d	.108 ^b	1.095	.277	.116	.905	1.105
	GD_d	-.140 ^b	-1.205	.232	-.127	.647	1.546
	Tpaths_d	-.187 ^b	-1.027	.307	-.109	.266	3.753
	TSpaths_d	-.198 ^b	-1.091	.278	-.115	.268	3.729
	AvgPL_d	1.941 ^b	1.388	.169	.146	.004	223.855
	PL_TpinN	.034 ^b	.355	.723	.038	.953	1.050
	PL_TSpinN	.024 ^b	.243	.808	.026	.904	1.106
	S_con	-.158 ^b	-1.648	.103	-.173	.941	1.063
	R_con	-.296 ^b	-2.810	.006	-.287	.737	1.357
	2 Nodes	-.038 ^c	-.388	.699	-.042	.857	1.166
	Edges_d	-.022 ^c	-.230	.818	-.025	.874	1.144
	Reciprocity	-.023 ^c	-.251	.802	-.027	.980	1.021
	Den_d	.065 ^c	.675	.501	.072	.880	1.136
	GD_d	-.123 ^c	-1.091	.278	-.116	.645	1.551
	Tpaths_d	-.031 ^c	-.168	.867	-.018	.239	4.189
	TSpaths_d	-.044 ^c	-.235	.815	-.025	.240	4.163
	AvgPL_d	1.866 ^c	1.384	.170	.147	.004	223.945
	PL_TpinN	.086 ^c	.906	.368	.097	.920	1.087
	PL_TSpinN	.081 ^c	.829	.410	.088	.868	1.152
	S_con	.131 ^c	.856	.394	.091	.354	2.829

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.868
	Edges_d	.879
	Reciprocity	.981
	Den_d	.905
	GD_d	.647
	Tpaths_d	.266
	TSpaths_d	.268
	AvgPL_d	.004
	PL_TpinN	.953
	PL_TSpinN	.904
	S_con	.941
	R_con	.737
2	Nodes	.684
	Edges_d	.683
	Reciprocity	.723
	Den_d	.710
	GD_d	.539
	Tpaths_d	.239
	TSpaths_d	.240

AvgPL_d	.004
PL_TpinN	.679
PL_TSpinN	.640
S_con	.277

- a. Dependent Variable: EVCin_TpinN
- b. Predictors in the Model: (Constant), AvgGL_d
- c. Predictors in the Model: (Constant), AvgGL_d, R_con

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	R_con
1	1	1.967	1.000	.02	.02	
	2	.033	7.711	.98	.98	
2	1	2.956	1.000	.00	.01	.00
	2	.036	9.039	.14	.86	.03
	3	.008	19.231	.86	.14	.97

- a. Dependent Variable: EVCin_TpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00195087818 4289	.01365404576 0632	.01098901098 9011	.00239197235 5186
Std. Predicted Value	-5.410	1.114	.000	1.000
Standard Error of Predicted Value	.000	.003	.001	.000
Adjusted Predicted Value	- .00546413892 8801	.01364382635 8020	.01095019395 7918	.00261587032 1339
Residual	- .01245670393 1093	.00840056035 6677	.00000000000 0000	.00384799851 4817
Std. Residual	-3.201	2.159	.000	.989
Stud. Residual	-3.228	2.244	.004	1.007
Deleted Residual	- .01266589388 2513	.00907414592 8025	.00003881703 1093	.00400516853 3584
Stud. Deleted Residual	-3.418	2.297	-.005	1.033
Mahal. Distance	.044	56.878	1.978	6.036
Cook's Distance	.000	.423	.015	.049
Centered Leverage Value	.000	.632	.022	.067

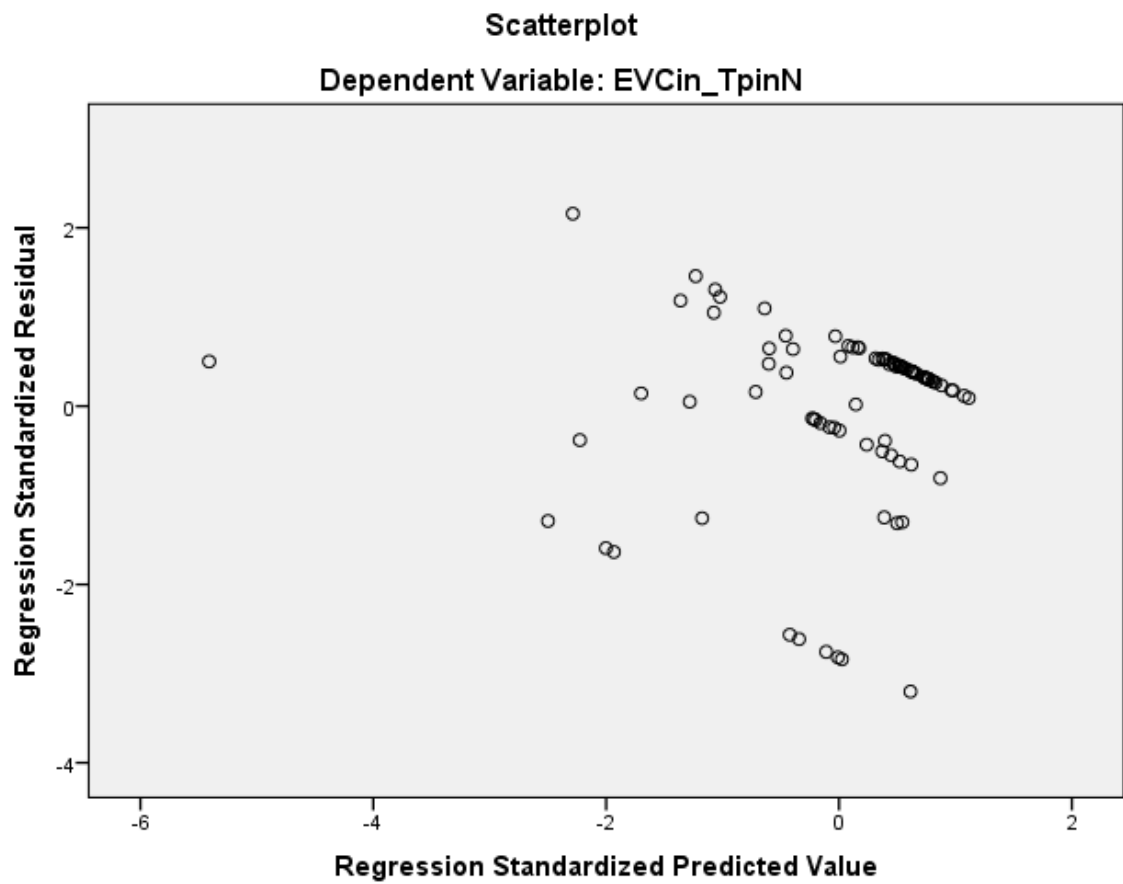
Residuals Statistics^a

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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: 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 GD_d Tpaths_d TSpaths_d AvgPL_d
AvgGL_d PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:55:01
Comments		
Input	Active Dataset	DataSet6
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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 EVCin_TSpinN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.24
	Memory Required	14544 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			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	.462 ^a	.214	.205	.00404035653 5751
2	.528 ^b	.279	.262	.00389140651 5910

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, R_con

c. Dependent Variable: EVCin_TSpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	24.166	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			
2	Regression	.001	2	.000	16.997	.000 ^c
	Residual	.001	88	.000		
	Total	.002	90			

a. Dependent Variable: EVCin_TSpinN

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, R_con

Coefficients^a

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

		B	Std. Error	Beta		
1	(Constant)	.019	.002		11.372	.000
	AvgGL_d	-.718	.146	-.462	-4.916	.000
2	(Constant)	.026	.003		8.581	.000
	AvgGL_d	-.481	.164	-.310	-2.936	.004
	R_con	-.905	.321	-.297	-2.818	.006

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.737	1.357
	R_con	.737	1.357

a. Dependent Variable: EVCin_TSpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.069 ^b	-.682	.497	-.073	.868	1.152

	Edges_d	-.044 ^b	-.440	.661	-.047	.879	1.138
	Reciprocity	-.013 ^b	-.137	.891	-.015	.981	1.019
	Den_d	.109 ^b	1.101	.274	.117	.905	1.105
	GD_d	-.142 ^b	-1.214	.228	-.128	.647	1.546
	Tpaths_d	-.189 ^b	-1.039	.301	-.110	.266	3.753
	TSpaths_d	-.200 ^b	-1.102	.274	-.117	.268	3.729
	AvgPL_d	1.923 ^b	1.374	.173	.145	.004	223.855
	PL_TpinN	.034 ^b	.348	.729	.037	.953	1.050
	PL_TSpinN	.023 ^b	.233	.816	.025	.904	1.106
	S_con	-.158 ^b	-1.649	.103	-.173	.941	1.063
	R_con	-.297 ^b	-2.818	.006	-.288	.737	1.357
	2 Nodes	-.039 ^c	-.398	.692	-.043	.857	1.166
	Edges_d	-.024 ^c	-.243	.809	-.026	.874	1.144
	Reciprocity	-.023 ^c	-.255	.799	-.027	.980	1.021
	Den_d	.066 ^c	.681	.498	.073	.880	1.136
	GD_d	-.124 ^c	-1.101	.274	-.117	.645	1.551
	Tpaths_d	-.033 ^c	-.179	.859	-.019	.239	4.189
	TSpaths_d	-.045 ^c	-.244	.808	-.026	.240	4.163
	AvgPL_d	1.847 ^c	1.370	.174	.145	.004	223.945
	PL_TpinN	.085 ^c	.899	.371	.096	.920	1.087
	PL_TSpinN	.080 ^c	.819	.415	.088	.868	1.152
	S_con	.132 ^c	.865	.389	.092	.354	2.829

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.868
	Edges_d	.879
	Reciprocity	.981
	Den_d	.905
	GD_d	.647
	Tpaths_d	.266
	TSpaths_d	.268
	AvgPL_d	.004
	PL_TpinN	.953
	PL_TSpinN	.904
	S_con	.941
	R_con	.737
2	Nodes	.684
	Edges_d	.683
	Reciprocity	.723
	Den_d	.710
	GD_d	.539
	Tpaths_d	.239
	TSpaths_d	.240

AvgPL_d	.004
PL_TpinN	.679
PL_TSpinN	.640
S_con	.277

a. Dependent Variable: EVCin_TSpinN

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	R_con
1	1	1.967	1.000	.02	.02	
	2	.033	7.711	.98	.98	
2	1	2.956	1.000	.00	.01	.00
	2	.036	9.039	.14	.86	.03
	3	.008	19.231	.86	.14	.97

a. Dependent Variable: EVCin_TSpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00197128881 7003	.01365603972 2264	.01098901098 9011	.00239161967 5953
Std. Predicted Value	-5.419	1.115	.000	1.000
Standard Error of Predicted Value	.000	.003	.001	.000
Adjusted Predicted Value	- .00552130630 2398	.01364586967 9749	.01094980274 1136	.00261832332 2300
Residual	- .01245500706 1362	.00839715357 8699	.00000000000 0000	.00384792574 8796
Std. Residual	-3.201	2.158	.000	.989
Stud. Residual	-3.227	2.243	.004	1.007
Deleted Residual	- .01266416814 1782	.00907046720 3856	.00003920824 7875	.00400587779 0230
Stud. Deleted Residual	-3.418	2.297	-.005	1.033
Mahal. Distance	.044	56.878	1.978	6.036
Cook's Distance	.000	.431	.015	.049
Centered Leverage Value	.000	.632	.022	.067

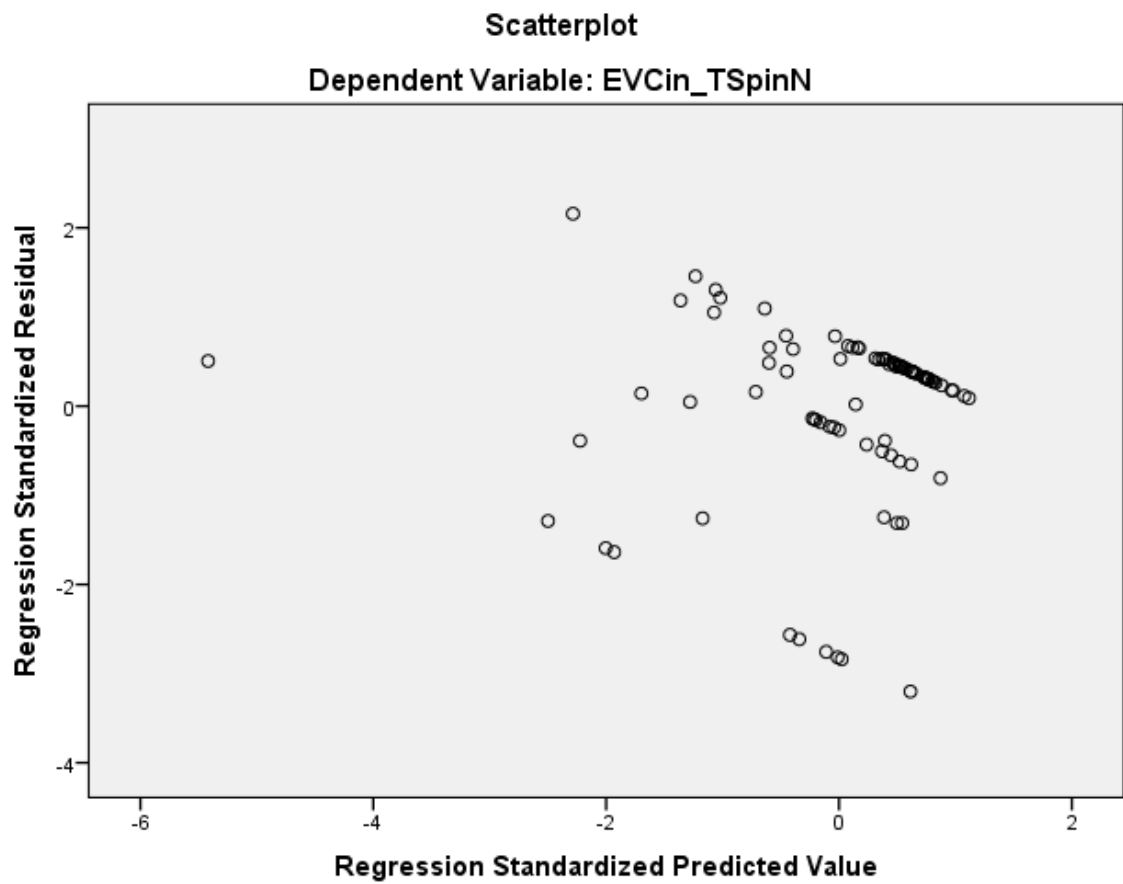
Residuals Statistics^a

	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 PL_EVCinN

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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:56:55
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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 PL_EVCinN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.28
	Elapsed Time	00:00:00.27
	Memory Required	14592 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	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	AvgPL_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: PL_EVCinN

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.700 ^a	.490	.484	.02209562559 5152
2	.717 ^b	.514	.503	.02167483067 3798
3	.739 ^c	.546	.530	.02108722072 9096

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, AvgPL_d

c. Predictors: (Constant), Reciprocity, AvgPL_d, AvgGL_d

d. Dependent Variable: PL_EVCinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.041	1	.041	83.437	.000 ^b
	Residual	.042	87	.000		
	Total	.083	88			
2	Regression	.043	2	.021	45.559	.000 ^c
	Residual	.040	86	.000		
	Total	.083	88			
3	Regression	.045	3	.015	34.043	.000 ^d

Residual	.038	85	.000		
Total	.083	88			

a. Dependent Variable: PL_EVCinN

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, AvgPL_d

d. Predictors: (Constant), Reciprocity, AvgPL_d, AvgGL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.003	.002		1.446	.152
	Reciprocity	.672	.074	.700	9.134	.000
2	(Constant)	-.015	.009		-1.641	.104
	Reciprocity	.637	.074	.662	8.581	.000
	AvgPL_d	1.693	.806	.162	2.100	.039
3	(Constant)	-.014	.009		-1.641	.105
	Reciprocity	.586	.075	.609	7.787	.000
	AvgPL_d	30.469	11.913	2.918	2.558	.012
	AvgGL_d	-28.774	11.887	-2.750	-2.421	.018

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.947	1.056
	AvgPL_d	.947	1.056
3	(Constant)		
	Reciprocity	.873	1.146
	AvgPL_d	.004	243.564
	AvgGL_d	.004	241.452

a. Dependent Variable: PL_EVCinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	.069 ^b	.903	.369	.097	.992	1.008	.992
	Edges_d	.043 ^b	.560	.577	.060	.983	1.017	.983
	Den_d	-.071 ^b	-.928	.356	-.100	.998	1.002	.998

	GD_d	.117 ^b	1.532	.129	.163	.989	1.011	.989
	Tpaths_d	.139 ^b	1.817	.073	.192	.984	1.016	.984
	TSpaths_d	.134 ^b	1.761	.082	.187	.986	1.015	.986
	AvgPL_d	.162 ^b	2.100	.039	.221	.947	1.056	.947
	AvgGL_d	.149 ^b	1.933	.056	.204	.956	1.047	.956
	PL_TpinN	-.045 ^b	-.584	.561	-.063	.999	1.001	.999
	PL_TSpinN	.049 ^b	.637	.526	.069	.997	1.003	.997
	S_con	-.011 ^b	-.139	.890	-.015	.999	1.001	.999
	R_con	.013 ^b	.169	.866	.018	.998	1.002	.998
2	Nodes	.015 ^c	.186	.853	.020	.867	1.153	.828
	Edges_d	-.011 ^c	-.139	.890	-.015	.873	1.146	.841
	Den_d	-.025 ^c	-.316	.752	-.034	.904	1.107	.858
	GD_d	.034 ^c	.356	.722	.039	.631	1.584	.605
	Tpaths_d	.010 ^c	.065	.948	.007	.266	3.762	.256
	TSpaths_d	-.005 ^c	-.033	.974	-.004	.269	3.716	.259
	AvgGL_d	-2.750 ^c	-2.421	.018	-.254	.004	241.452	.004
	PL_TpinN	-.009 ^c	-.109	.913	-.012	.944	1.059	.896
	PL_TSpinN	.105 ^c	1.337	.185	.144	.910	1.099	.865
	S_con	-.054 ^c	-.690	.492	-.075	.936	1.068	.887
	R_con	-.093 ^c	-1.063	.291	-.115	.732	1.365	.695
3	Nodes	.020 ^d	.256	.799	.028	.866	1.154	.004
	Edges_d	-.019 ^d	-.235	.814	-.026	.871	1.148	.004

Den_d	-.039 ^d	-.505	.615	-.055	.899	1.113	.004
GD_d	-.005 ^d	-.048	.962	-.005	.613	1.632	.004
Tpaths_d	.041 ^d	.285	.777	.031	.264	3.793	.004
TSpaths_d	.040 ^d	.279	.781	.030	.265	3.779	.004
PL_TpinN	-.022 ^d	-.295	.768	-.032	.939	1.065	.004
PL_TSpinN	.088 ^d	1.144	.256	.124	.902	1.109	.004
S_con	-.044 ^d	-.574	.568	-.062	.933	1.071	.004
R_con	-.085 ^d	-.999	.320	-.108	.731	1.367	.004

a. Dependent Variable: PL_EVCinN

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

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	AvgPL_d
1	1	1.247	1.000	.38	.38	
	2	.753	1.286	.62	.62	
2	1	2.100	1.000	.01	.05	.01
	2	.868	1.556	.01	.91	.00
	3	.032	8.079	.98	.04	.98

3	1	3.067	1.000	.01	.01	.00
	2	.889	1.857	.00	.87	.00
	3	.043	8.442	.99	.03	.00
	4	.000	150.310	.00	.08	1.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		AvgGL_d
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.00
	3	.00
	4	1.00

a. Dependent Variable: PL_EVCinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation

Predicted Value	- .00110186729 5802	.12510402500 6294	.00894078716 5373	.02271692552 4362
Std. Predicted Value	-.442	5.114	.000	1.000
Standard Error of Predicted Value	.002	.019	.004	.002
Adjusted Predicted Value	- .00218263058 9232	.11741677671 6709	.00778100717 8043	.01892270657 5348
Residual	- .08412528783 0830	.06671656668 1862	.00000000000 0000	.02072466268 9600
Std. Residual	-3.989	3.164	.000	.983
Stud. Residual	-4.713	3.760	.017	1.091
Deleted Residual	- .11741677671 6709	.11214432865 3812	.00115977998 7330	.02751442867 0063
Stud. Deleted Residual	-5.451	4.094	.017	1.168
Mahal. Distance	.097	72.504	2.966	8.793
Cook's Distance	.000	5.905	.127	.686
Centered Leverage Value	.001	.824	.034	.100

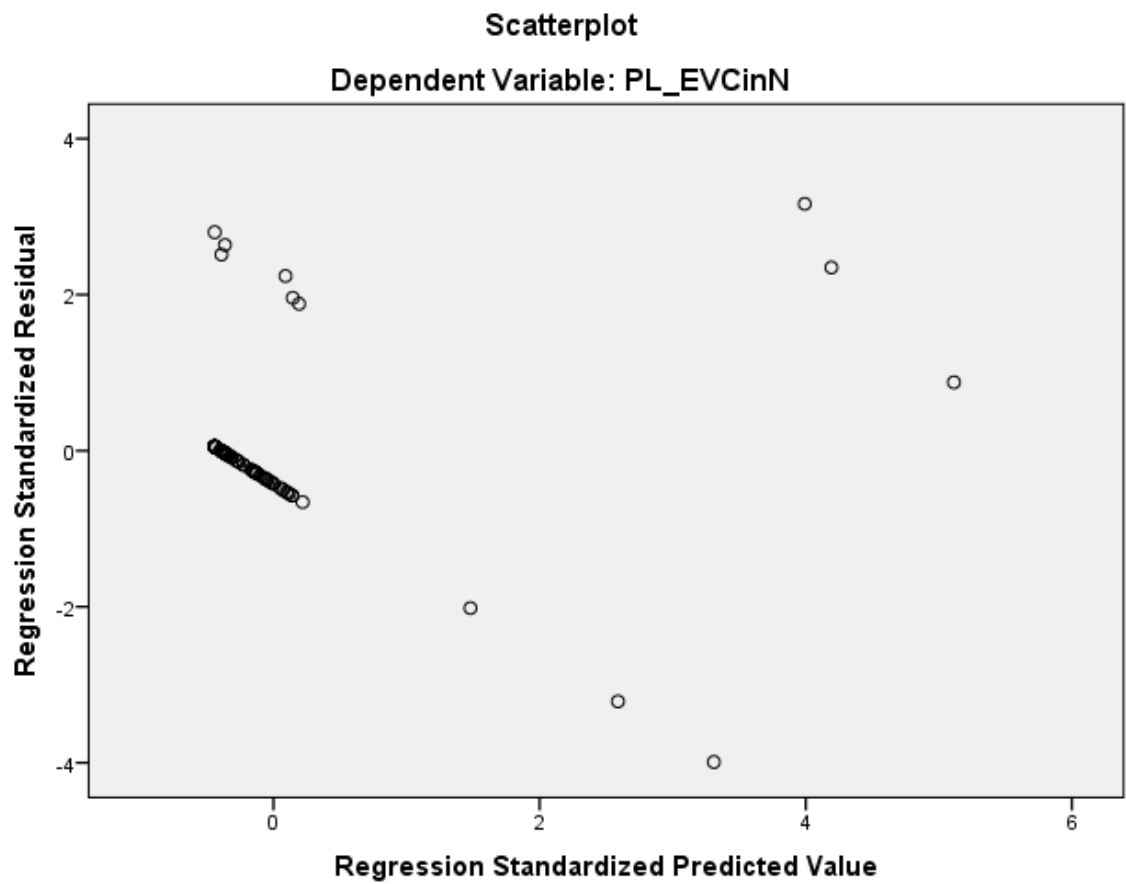
Residuals Statistics^a

	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_EVCinN

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 GD_d Tpaths_d TSpats_d AvgPL_d
AvgGL_d PL_TpinN PL_TSpinN S_con R_con

/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 PL_EVCinN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.22
	Memory Required	14624 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	Nodes		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	.315 ^a	.099	.088	.01141117866 5584

a. Predictors: (Constant), Nodes

b. Dependent Variable: PL_EVCinN

ANOVA^a

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

1	Regression	.001	1	.001	8.803	.004 ^b
	Residual	.010	80	.000		
	Total	.012	81			

a. Dependent Variable: PL_EVCinN

b. Predictors: (Constant), Nodes

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.011	.005		-2.288	.025
	Nodes	1.245	.420	.315	2.967	.004

Coefficients^a

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

a. Dependent Variable: PL_EVCinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Edges_d	-.649 ^b	-1.606	.112	-.178	.068	14.791
	Reciprocity	-.181 ^b	-1.573	.120	-.174	.839	1.192
	Den_d	.039 ^b	.148	.883	.017	.159	6.285
	GD_d	-.044 ^b	-.404	.687	-.045	.953	1.049
	Tpaths_d	-.019 ^b	-.139	.890	-.016	.631	1.584
	TSpaths_d	-.017 ^b	-.128	.899	-.014	.632	1.583
	AvgPL_d	-.045 ^b	-.406	.686	-.046	.906	1.104
	AvgGL_d	-.042 ^b	-.378	.706	-.042	.906	1.104
	PL_TpinN	.009 ^b	.084	.933	.009	1.000	1.000
	PL_TSpinN	.041 ^b	.382	.703	.043	.999	1.001
	S_con	-.009 ^b	-.084	.934	-.009	.997	1.003
	R_con	-.014 ^b	-.126	.900	-.014	.962	1.040

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Edges_d	.068	
	Reciprocity	.839	

Den_d	.159
GD_d	.953
Tpaths_d	.631
TSpaths_d	.632
AvgPL_d	.906
AvgGL_d	.906
PL_TpinN	1.000
PL_TSpinN	.999
S_con	.997
R_con	.962

a. Dependent Variable: PL_EVCinN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Nodes
1	1	1.964	1.000	.02	.02
	2	.036	7.341	.98	.98

a. Dependent Variable: PL_EVCinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00317389215 3427	.01619523763 6566	.00268708574 0680	.00376181911 9929
Std. Predicted Value	-1.558	3.591	.000	1.000
Standard Error of Predicted Value	.001	.005	.002	.001
Adjusted Predicted Value	- .00331360450 9458	.01954491063 9524	.00267770213 1387	.00386575499 6874
Residual	- .01619523763 6566	.04957115650 1770	.00000000000 0000	.01134052053 3173
Std. Residual	-1.419	4.344	.000	.994
Stud. Residual	-1.559	4.402	.000	1.018
Deleted Residual	- .01954491063 9524	.05091283842 9213	.00000938360 9293	.01191618291 6515
Stud. Deleted Residual	-1.573	5.026	.028	1.132
Mahal. Distance	.000	12.894	.988	1.851
Cook's Distance	.000	1.064	.027	.127
Centered Leverage Value	.000	.159	.012	.023

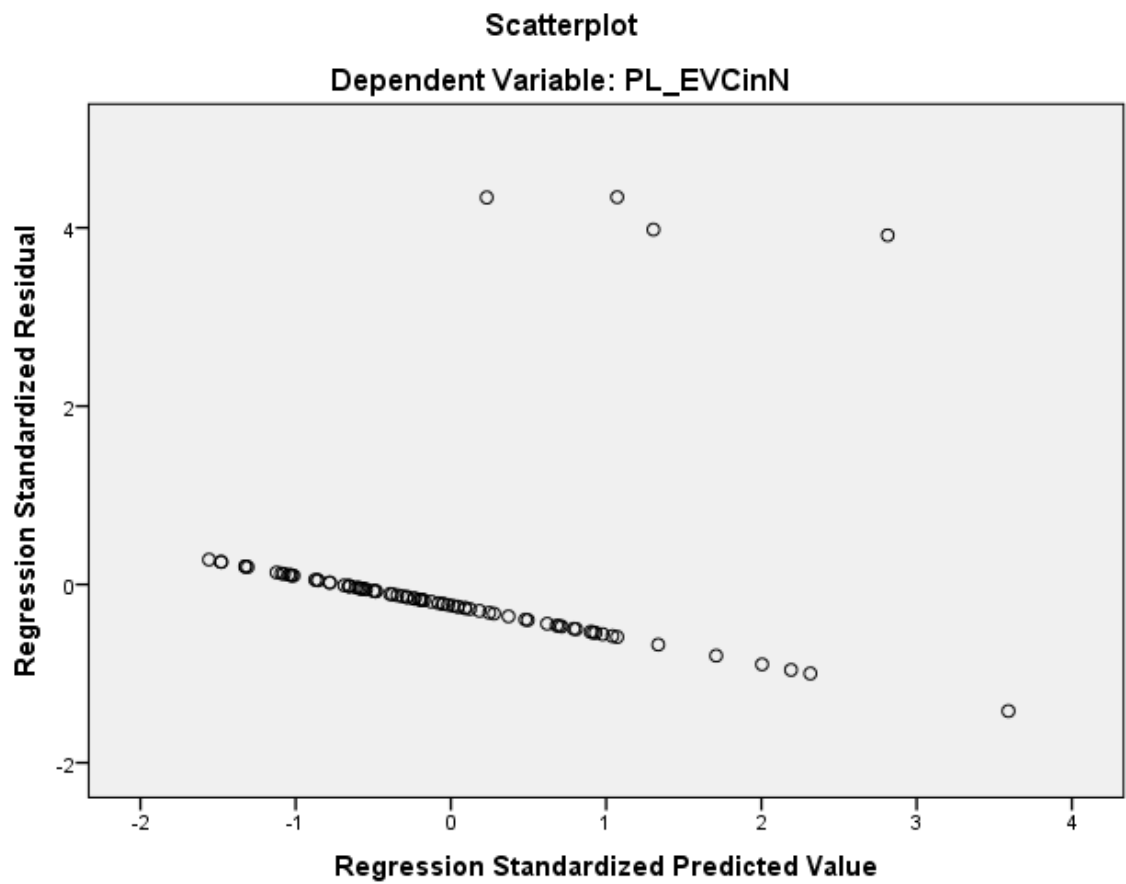
Residuals Statistics^a

	N
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Predicted Value	82
Std. Predicted Value	82
Standard Error of Predicted Value	82
Adjusted Predicted Value	82
Residual	82
Std. Residual	82
Stud. Residual	82
Deleted Residual	82
Stud. Deleted Residual	82
Mahal. Distance	82
Cook's Distance	82
Centered Leverage Value	82

a. Dependent Variable: PL_EVCinN

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 GD_d Tpaths_d TSpats_d AvgPL_d
AvgGL_d PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:58:56	
Comments		
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	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	81
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 GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.04
	Memory Required	14672 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 ECin

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:45:54	
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
Resources			/DEPENDENT ECin
			/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d
			/SCATTERPLOT=(*ZRESID ,*ZPRED)
			/SAVE COOK.
	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
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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: ECin

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.327 ^a	.107	.097	.00266924023 5289

a. Predictors: (Constant), Tpaths_d

b. Dependent Variable: ECin

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	10.661	.002 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: ECin

b. Predictors: (Constant), Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.016	.002		10.116	.000
	Tpaths_d	-.466	.143	-.327	-3.265	.002

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF

1	(Constant)		
	Tpaths_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	-.001 ^b	-.009	.993	-.001	.751	1.331
	TSpaths_d	7.133 ^b	1.555	.124	.163	.000	2131.900
	AvgPL_d	-.089 ^b	-.458	.648	-.049	.270	3.697
	AvgGL_d	-.052 ^b	-.266	.791	-.028	.266	3.753

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.751	
	TSpaths_d	.000	
	AvgPL_d	.270	
	AvgGL_d	.266	

a. Dependent Variable: ECin

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Tpaths_d
1	1	1.984	1.000	.01	.01
	2	.016	11.292	.99	.99

a. Dependent Variable: ECin

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00729450909 4208	.01190692558 8846	.01098901098 9011	.00091870269 9966
Std. Predicted Value	-4.021	.999	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00611999211 8329	.01188737712 8005	.01098215902 8841	.00096889226 1301
Residual	- .00895755551 7554	.00498519977 5547	.00000000000 0000	.00265436970 0446
Std. Residual	-3.356	1.868	.000	.994

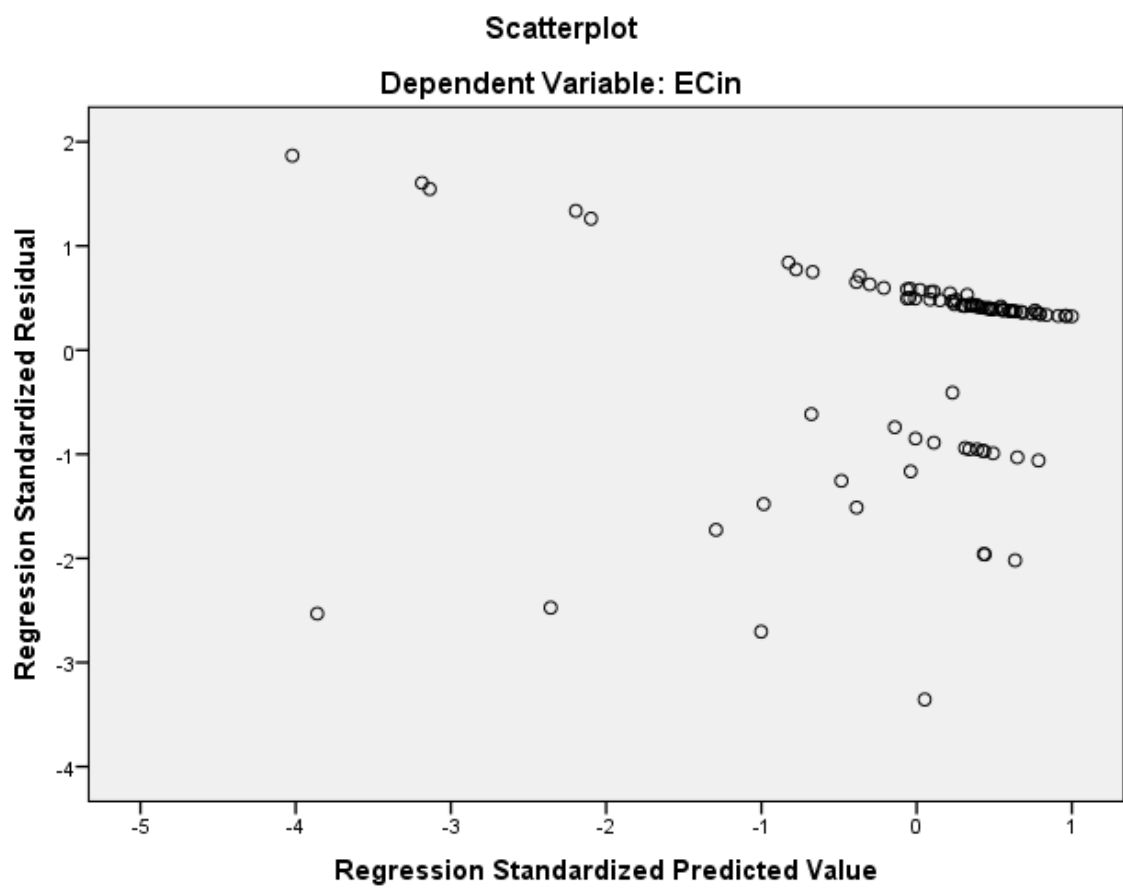
Stud. Residual	-3.374	2.076	.001	1.020
Deleted Residual	-			
	.00905735883	.00615971628	.00000685196	.00279698203
	8618	5765	0170	6515
Stud. Deleted Residual	-3.593	2.116	-.006	1.041
Mahal. Distance	.000	16.172	.989	2.754
Cook's Distance	.001	.834	.029	.108
Centered Leverage Value	.000	.180	.011	.031

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: 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

Output Created		06-JUN-2015 09:46:22
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_EVCinN /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	00:00:00.17
	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	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_EVCinN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.235 ^a	.055	.044	.03585132518 6009
2	.379 ^b	.144	.125	.03431622706 6791

a. Predictors: (Constant), AvgPL_d

b. Predictors: (Constant), AvgPL_d, AvgGL_d

c. Dependent Variable: PL_EVCinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.007	1	.007	5.188	.025 ^b
	Residual	.114	89	.001		
	Total	.121	90			
2	Regression	.017	2	.009	7.402	.001 ^c
	Residual	.104	88	.001		
	Total	.121	90			

a. Dependent Variable: PL_EVCinN

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)	-.021	.015		-1.455	.149
	AvgPL_d	2.947	1.294	.235	2.278	.025
2	(Constant)	-.019	.014		-1.329	.187
	AvgPL_d	58.835	18.527	4.686	3.176	.002
	AvgGL_d	-56.129	18.565	-4.461	-3.023	.003

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000
2	(Constant)		
	AvgPL_d	.004	223.855
	AvgGL_d	.004	223.855

a. Dependent Variable: PL_EVCinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.025 ^b	.191	.849	.020	.636	1.573

	Tpaths_d	-.099 ^b	-.497	.621	-.053	.270	3.697
	TSpaths_d	-.122 ^b	-.618	.538	-.066	.275	3.640
	AvgGL_d	-4.461 ^b	-3.023	.003	-.307	.004	223.855
2	GD_d	-.033 ^c	-.261	.794	-.028	.621	1.611
	Tpaths_d	-.029 ^c	-.149	.882	-.016	.266	3.754
	TSpaths_d	-.030 ^c	-.156	.877	-.017	.267	3.740

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.636
	Tpaths_d	.270
	TSpaths_d	.275
	AvgGL_d	.004
2	GD_d	.004
	Tpaths_d	.004
	TSpaths_d	.004

a. Dependent Variable: PL_EVCinN

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	1.967	1.000	.02	.02	
	2	.033	7.695	.98	.98	
2	1	2.956	1.000	.01	.00	.00
	2	.044	8.190	.99	.00	.00
	3	.000	142.390	.00	1.00	1.00

a. Dependent Variable: PL_EVCinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00201124954 0374	.12047643214 4642	.01098901098 9011	.01391751070 9079
Std. Predicted Value	-.645	7.867	.000	1.000
Standard Error of Predicted Value	.004	.031	.005	.003
Adjusted Predicted Value	.00101422029 5474	.03289512172 3413	.00978587616 8068	.00790793992 8124
Residual	- .03078376315 5341	.19578155875 2060	.00000000000 0000	.03393279350 0742
Std. Residual	-.897	5.705	.000	.989

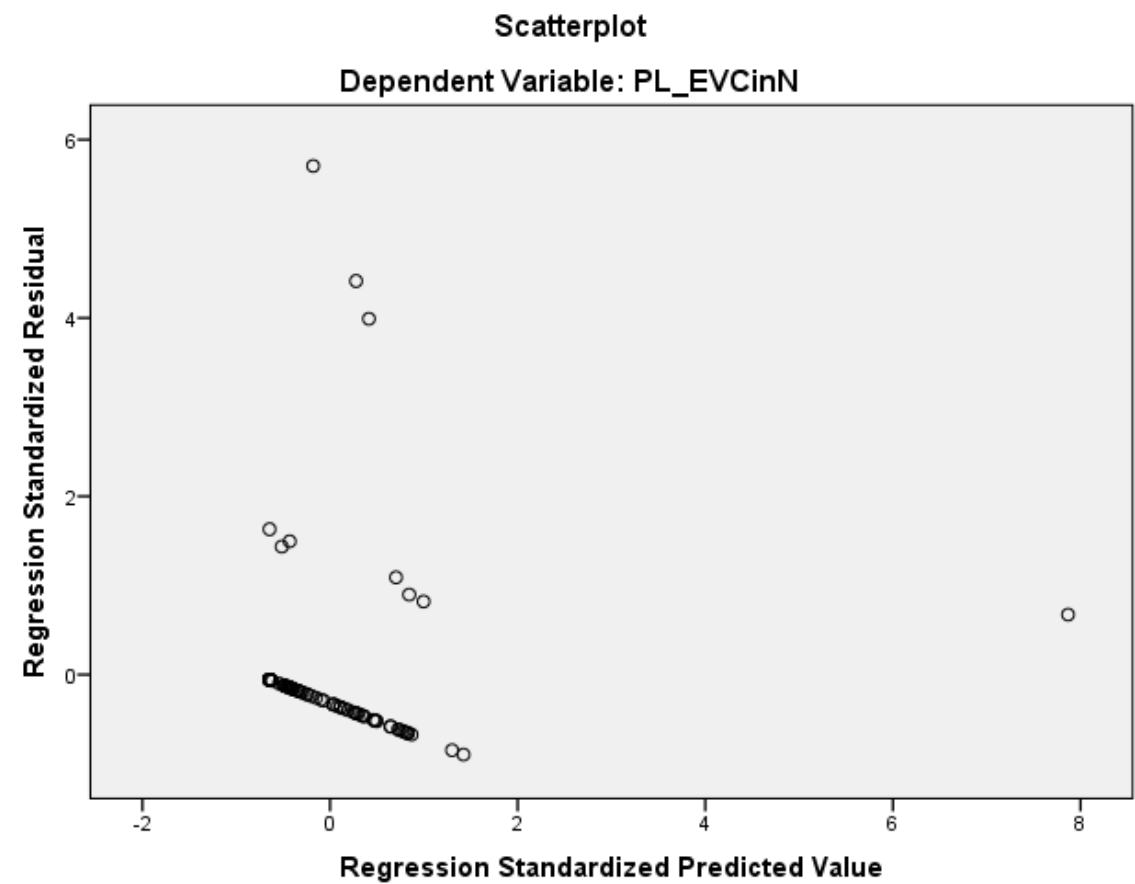
Stud. Residual	-.927	5.744	.010	1.012
Deleted Residual	-	.19844400882	.00120313482	.03753258721
	.03289512172	7209	0943	9284
	3413			
Stud. Deleted Residual	-.927	7.224	.039	1.156
Mahal. Distance	.061	73.995	1.978	7.776
Cook's Distance	.000	4.527	.057	.474
Centered Leverage Value	.001	.822	.022	.086

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 TSpaths_d AvgPL_d AvgGL_d
/SCATTERPLOT=(*ZRESID ,*ZPRED)
/SAVE COOK.

```

Regression

Notes

Output Created		06-JUN-2015 09:46:42
Comments		
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 EVCin_TpinN /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.20
	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	AvgGL_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	.463 ^a	.214	.205	.00403939990 6920

a. Predictors: (Constant), AvgGL_d

b. Dependent Variable: EVCin_TpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	24.232	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			

a. Dependent Variable: EVCin_TpinN

b. Predictors: (Constant), AvgGL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.019	.002		11.380	.000
	AvgGL_d	-.719	.146	-.463	-4.923	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_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	-.140 ^b	-1.205	.232	-.127	.647	1.546
	Tpaths_d	-.187 ^b	-1.027	.307	-.109	.266	3.753
	TSpaths_d	-.198 ^b	-1.091	.278	-.115	.268	3.729
	AvgPL_d	1.941 ^b	1.388	.169	.146	.004	223.855

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.647
	Tpaths_d	.266
	TSpaths_d	.268
	AvgPL_d	.004

a. Dependent Variable: EVCin_TpinN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	AvgGL_d
1	1	1.967	1.000	.02	.02
	2	.033	7.711	.98	.98

a. Dependent Variable: EVCin_TpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00608480209 4847	.01246715616 4348	.01098901098 9011	.00209598901 4779
Std. Predicted Value	-2.340	.705	.000	1.000
Standard Error of Predicted Value	.000	.001	.001	.000
Adjusted Predicted Value	.00550049310 5501	.01267650909 7219	.01098923618 0700	.00209252140 8395
Residual	- .01246715616 4348	.00781883299 3507	.00000000000 0000	.00401689611 1170
Std. Residual	-3.086	1.936	.000	.994
Stud. Residual	-3.112	2.009	.000	1.008
Deleted Residual	- .01267650909 7219	.00842002872 3776	- .00000022519 1689	.00412593254 5771

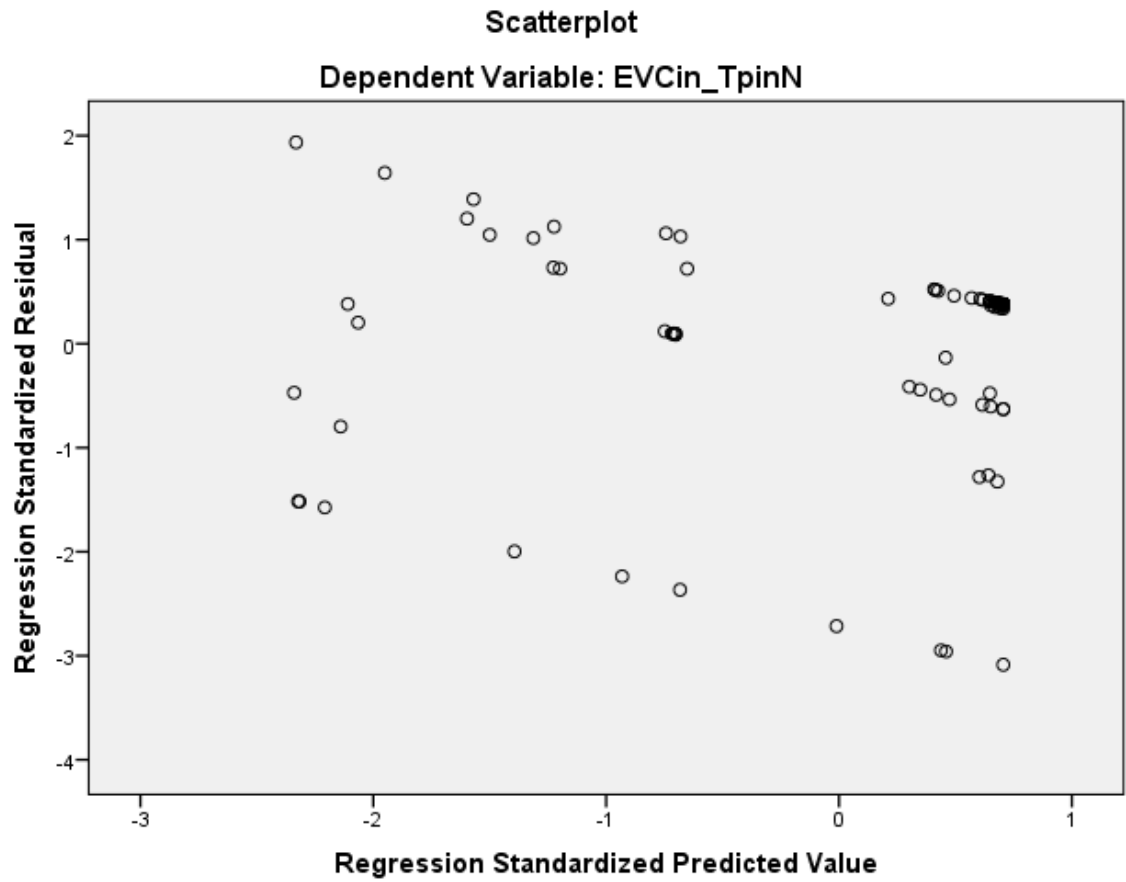
Stud. Deleted Residual	-3.278	2.044	-.009	1.032
Mahal. Distance	.000	5.475	.989	1.378
Cook's Distance	.000	.155	.014	.028
Centered Leverage Value	.000	.061	.011	.015

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	06-JUN-2015 09:47:03	
Comments		
Input	Active Dataset	DataSet4
	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 EVCin_TSpinN /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time		00:00:00.19
	Elapsed Time		00:00:00.21
	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).

a. Dependent Variable: EVCin_TSpinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.462 ^a	.214	.205	.00404035653 5751

a. Predictors: (Constant), AvgGL_d

b. Dependent Variable: EVCin_TSpinN

ANOVA^a

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

1	Regression	.000	1	.000	24.166	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			

a. Dependent Variable: EVCin_TSpinN

b. Predictors: (Constant), AvgGL_d

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.019	.002		11.372	.000
AvgGL_d	-.718	.146	-.462	-4.916	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1 (Constant)			
AvgGL_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	-.142 ^b	-1.214	.228	-.128	.647	1.546
	Tpaths_d	-.189 ^b	-1.039	.301	-.110	.266	3.753
	TSpaths_d	-.200 ^b	-1.102	.274	-.117	.268	3.729
	AvgPL_d	1.923 ^b	1.374	.173	.145	.004	223.855

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.647	
	Tpaths_d	.266	
	TSpaths_d	.268	
	AvgPL_d	.004	

a. Dependent Variable: EVCin_TSpinN

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

Collinearity Diagnostics^a

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

		Index	(Constant)	AvgGL_d
1	1	1.967	1.000	.02
	2	.033	7.711	.98

a. Dependent Variable: EVCin_TSpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00609032576 9037	.01246549095 9585	.01098901098 9011	.00209362829 2744
Std. Predicted Value	-2.340	.705	.000	1.000
Standard Error of Predicted Value	.000	.001	.001	.000
Adjusted Predicted Value	.00550639769 0624	.01267481688 4100	.01098926063 2084	.00209008498 7138
Residual	- .01246549095 9585	.00781363341 9573	.00000000000 0000	.00401784741 0551
Std. Residual	-3.085	1.934	.000	.994
Stud. Residual	-3.111	2.007	.000	1.008
Deleted Residual	- .01267481688 4100	.00841442961 2458	- .00000024964 3073	.00412694487 6530
Stud. Deleted Residual	-3.277	2.042	-.009	1.032
Mahal. Distance	.000	5.475	.989	1.378

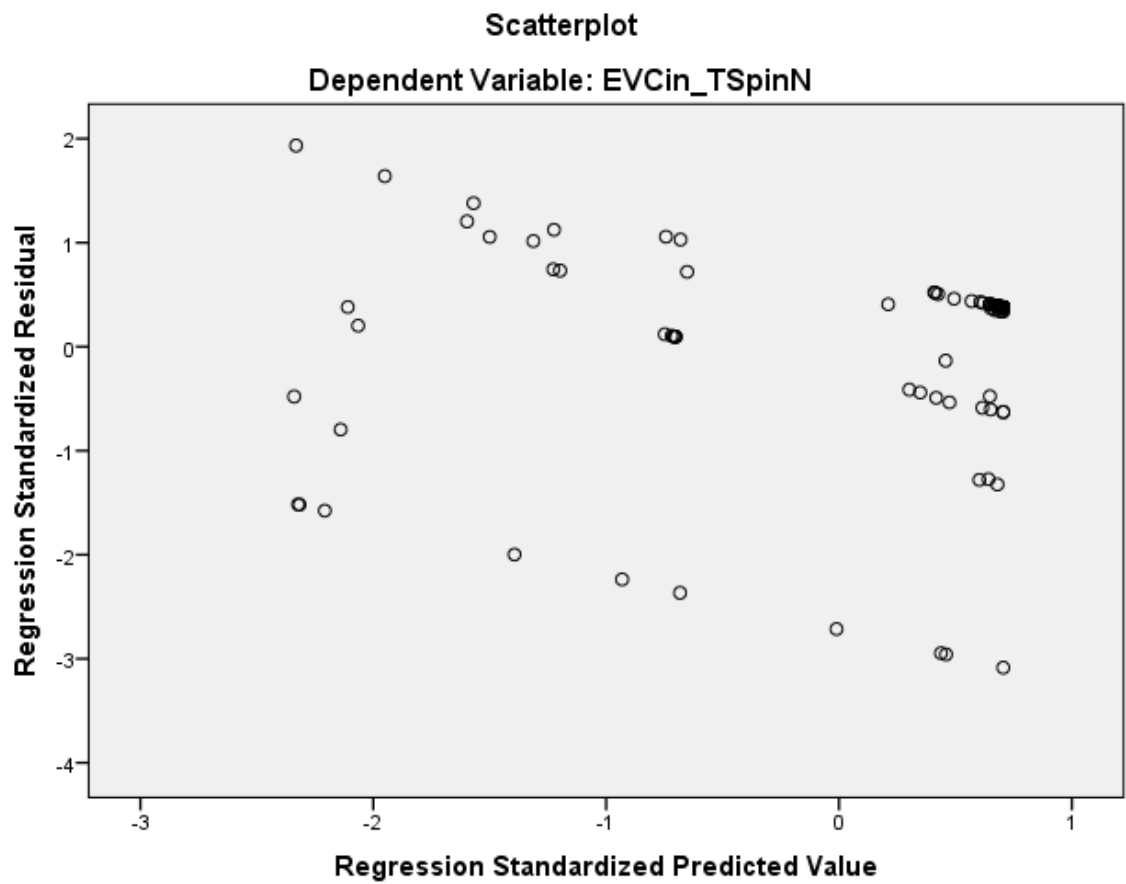
Cook's Distance	.000	.155	.014	.028
Centered Leverage Value	.000	.061	.011	.015

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 PL_EVCinN

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

```
/SCATTERPLOT=(*ZRESID ,*ZPRED)
```

```
/SAVE COOK.
```

Regression

Notes

Output Created		06-JUN-2015 09:47:51
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 PL_EVCinN
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpats_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.08
	Elapsed Time	00:00:00.07
	Memory Required	6080 bytes
	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	Plots	
	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 PL_TpinN

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:37:39
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 PL_TpinN	
		/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d	
		/SCATTERPLOT=(*ZRESID ,*ZPRED)	
		/SAVE COOK.	
Resources	Processor Time		00:00:00.22
	Elapsed Time		00:00:00.24
	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	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_TpinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.218 ^a	.047	.037	.00427859329 9190

a. Predictors: (Constant), AvgGL_d

b. Dependent Variable: PL_TpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	4.430	.038 ^b
	Residual	.002	89	.000		
	Total	.002	90			

a. Dependent Variable: PL_TpinN

b. Predictors: (Constant), AvgGL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.015	.002		8.285	.000
	AvgGL_d	-.326	.155	-.218	-2.105	.038

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF

1	(Constant)		
	AvgGL_d	1.000	1.000

a. Dependent Variable: PL_TpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.064 ^b	.497	.621	.053	.647	1.546
	Tpaths_d	.323 ^b	1.625	.108	.171	.266	3.753
	TSpaths_d	.314 ^b	1.587	.116	.167	.268	3.729
	AvgPL_d	1.198 ^b	.772	.442	.082	.004	223.855

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.647	
	Tpaths_d	.266	
	TSpaths_d	.268	
	AvgPL_d	.004	

a. Dependent Variable: PL_TpinN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	AvgGL_d
1	1	1.967	1.000	.02	.02
	2	.033	7.711	.98	.98

a. Dependent Variable: PL_TpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00876786652 9524	.01165847107 7681	.01098901098 9011	.00094928543 2496
Std. Predicted Value	-2.340	.705	.000	1.000
Standard Error of Predicted Value	.000	.001	.001	.000
Adjusted Predicted Value	.00867206323 8919	.01185424439 6091	.01098745555 4060	.00096427689 3643
Residual	- .01165847107 7681	.01663597114 3842	.00000000000 0000	.00425475693 9355
Std. Residual	-2.725	3.888	.000	.994

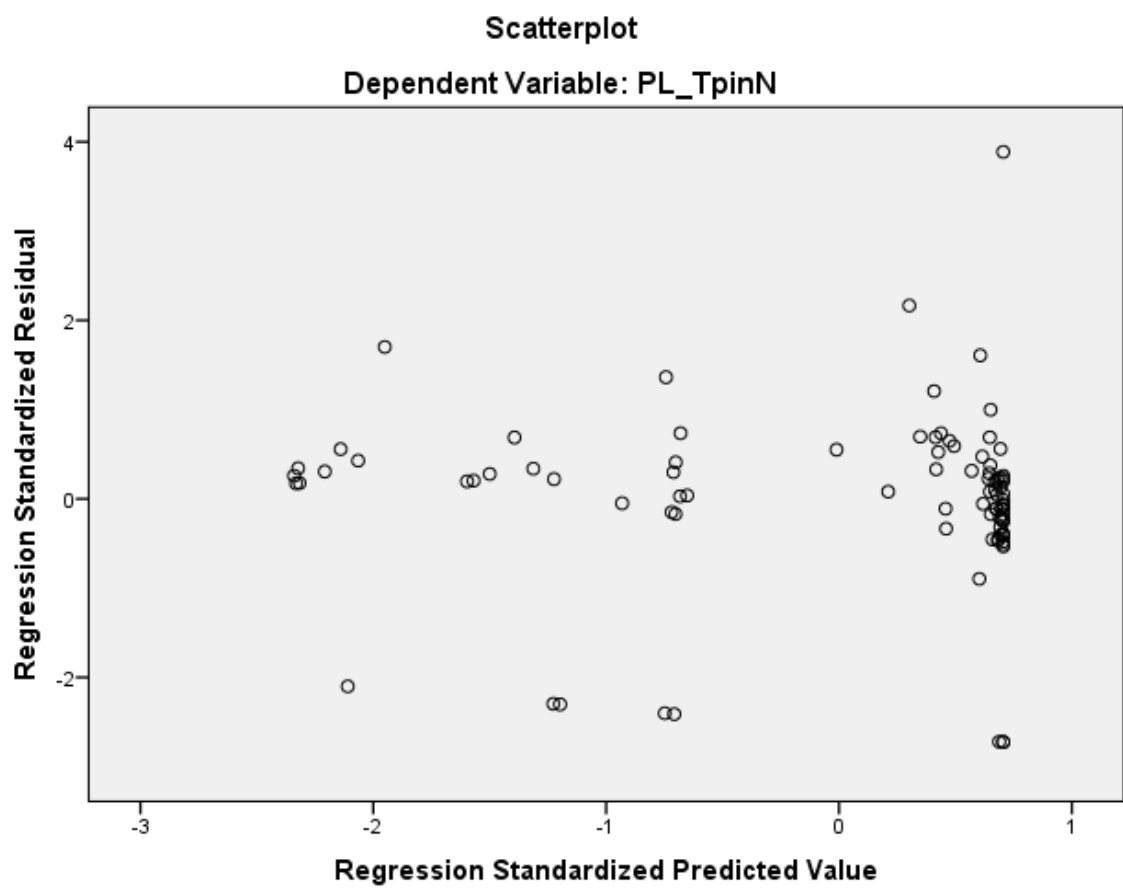
Stud. Residual	-2.748	3.921	.000	1.005
Deleted Residual	-	.01691532880	.00000155543	.00434843662
	.01185424439	0678	4951	7481
	6091			
Stud. Deleted Residual	-2.856	4.286	-.002	1.041
Mahal. Distance	.000	5.475	.989	1.378
Cook's Distance	.000	.151	.011	.027
Centered Leverage Value	.000	.061	.011	.015

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_TpinN

Charts



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	06-JUN-2015 09:37:59	
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 PL_TSpinN /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.22
	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	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: PL_TSpinN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.310 ^a	.096	.086	.00470743131 9665
2	.380 ^b	.145	.125	.00460520005 1528

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, Tpaths_d

c. Dependent Variable: PL_TSpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	9.473	.003 ^b
	Residual	.002	89	.000		
	Total	.002	90			
2	Regression	.000	2	.000	7.447	.001 ^c
	Residual	.002	88	.000		
	Total	.002	90			

a. Dependent Variable: PL_TSpinN

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)	.017	.002		8.657	.000
	AvgGL_d	-.524	.170	-.310	-3.078	.003
2	(Constant)	.012	.003		4.071	.000
	AvgGL_d	-1.141	.323	-.676	-3.538	.001
	Tpaths_d	1.066	.477	.427	2.235	.028

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.266	3.753
	Tpaths_d	.266	3.753

a. Dependent Variable: PL_TSpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.100 ^b	.794	.429	.084	.647	1.546

	Tpaths_d	.427 ^b	2.235	.028	.232	.266	3.753
	TSpaths_d	.418 ^b	2.196	.031	.228	.268	3.729
	AvgPL_d	1.066 ^b	.705	.483	.075	.004	223.855
2	GD_d	.107 ^c	.868	.388	.093	.647	1.547
	TSpaths_d	-3.880 ^c	-.849	.398	-.091	.000	2143.760
	AvgPL_d	1.110 ^c	.751	.455	.080	.004	223.894

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.647
	Tpaths_d	.266
	TSpaths_d	.268
	AvgPL_d	.004
2	GD_d	.229
	TSpaths_d	.000
	AvgPL_d	.004

a. Dependent Variable: PL_TSpinN

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	1.967	1.000	.02	.02	
	2	.033	7.711	.98	.98	
2	1	2.961	1.000	.00	.00	.00
	2	.033	9.403	.47	.22	.00
	3	.005	23.418	.53	.78	1.00

a. Dependent Variable: PL_TSpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00537892943 2482	.01346602290 8688	.01098901098 9011	.00187336778 2658
Std. Predicted Value	-2.995	1.322	.000	1.000
Standard Error of Predicted Value	.001	.002	.001	.000
Adjusted Predicted Value	.00529550295 3231	.01355734001 8451	.01100563864 4379	.00187957403 2552
Residual	- .01189984381 1989	.01762194000 1845	.00000000000 0000	.00455374368 7322
Std. Residual	-2.584	3.827	.000	.989

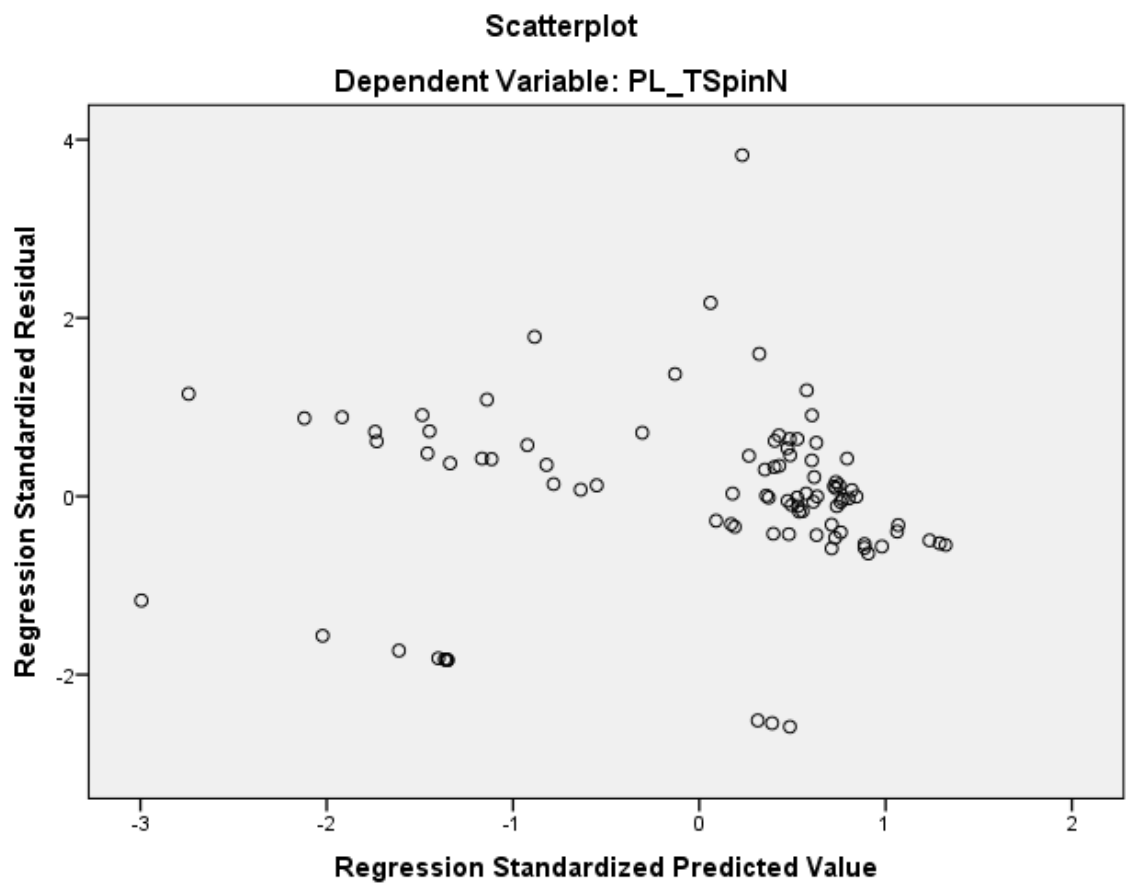
Stud. Residual	-2.606	3.866	-.002	1.004
Deleted Residual	-	-	-	-
	.01210287958	.01798983477	.00001662765	.00469465446
	3836	0560	5368	4398
Stud. Deleted Residual	-2.697	4.219	-.002	1.032
Mahal. Distance	.194	20.945	1.978	3.410
Cook's Distance	.000	.104	.010	.019
Centered Leverage Value	.002	.233	.022	.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_TSpinN

Charts



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 TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:38:21	
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 S_con /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	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	TSpaths_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	.247 ^a	.061	.051	.09645305111 2018

a. Predictors: (Constant), TSpaths_d

b. Dependent Variable: S_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.054	1	.054	5.802	.018 ^b
	Residual	.828	89	.009		
	Total	.882	90			

a. Dependent Variable: S_con

b. Predictors: (Constant), TSpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.125	.058		-2.180	.032
	TSpaths_d	12.415	5.154	.247	2.409	.018

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpaths_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	GD_d	-.151 ^b	-1.284	.202	-.136	.755	1.324
	Tpaths_d	-2.364 ^b	-.496	.621	-.053	.000	2131.900
	AvgPL_d	.102 ^b	.520	.604	.055	.275	3.640
	AvgGL_d	.118 ^b	.593	.554	.063	.268	3.729

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.755	
	Tpaths_d	.000	
	AvgPL_d	.275	
	AvgGL_d	.268	

a. Dependent Variable: S_con

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	TSpaths_d
1	1	1.984	1.000	.01	.01
	2	.016	11.291	.99	.99

a. Dependent Variable: S_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .01348804309 9642	.10981317609 5486	.01098901098 9011	.02449015470 4606
Std. Predicted Value	-.999	4.035	.000	1.000
Standard Error of Predicted Value	.010	.042	.013	.006
Adjusted Predicted Value	- .01379749365 1509	.13276673853 3974	.01121973581 9981	.02706626711 0756
Residual	- .09664923697 7100	.87975412607 1930	.00000000000 0000	.09591570402 7881
Std. Residual	-1.002	9.121	.000	.994
Stud. Residual	-1.115	9.433	-.001	1.030

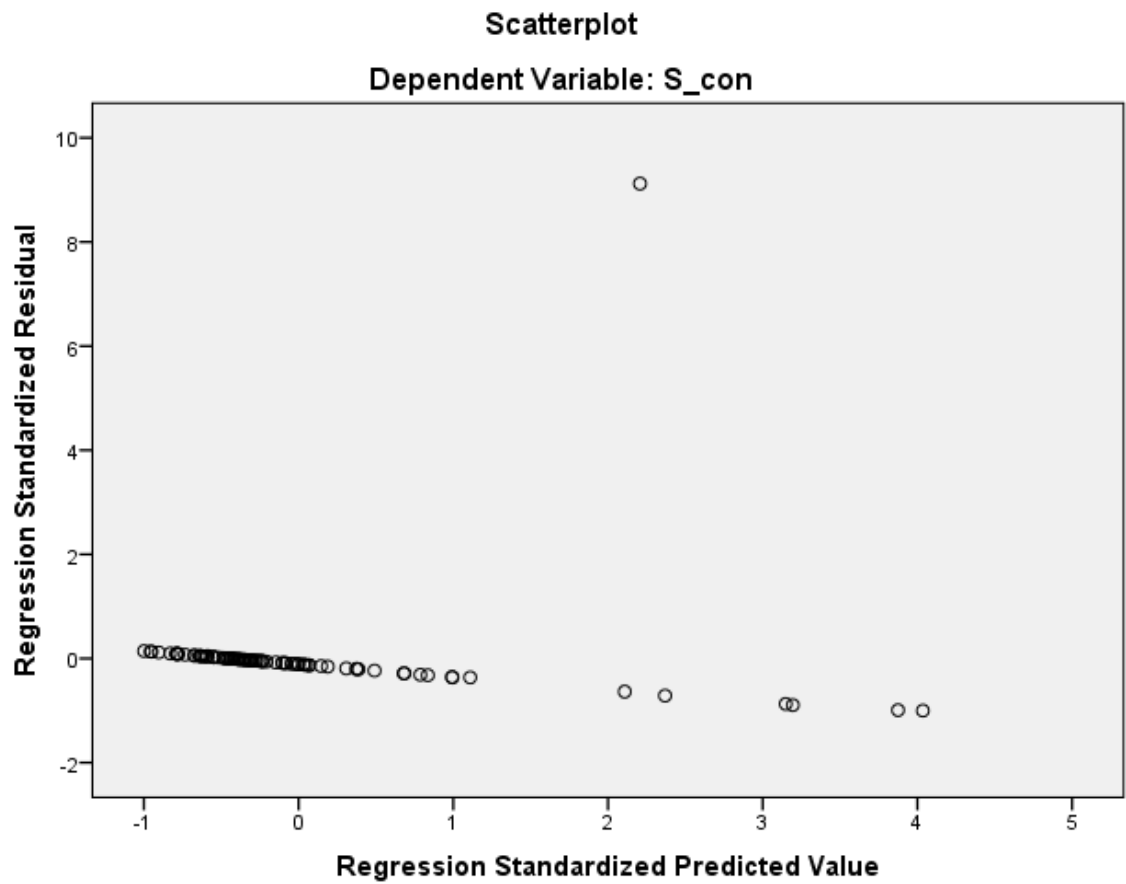
Deleted Residual	- .11960279941 5588	.94101625680 9235	- .00023072483 0970	.10300713547 0545
Stud. Deleted Residual	-1.116	775.776	8.421	81.335
Mahal. Distance	.000	16.283	.989	2.774
Cook's Distance	.000	3.098	.039	.325
Centered Leverage Value	.000	.181	.011	.031

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: 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		06-JUN-2015 09:38:46
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 R_con /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.21
	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	TSpaths_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	.582 ^a	.339	.332	.00121685175 8243

a. Predictors: (Constant), TSpaths_d

b. Dependent Variable: R_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	45.674	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			

a. Dependent Variable: R_con

b. Predictors: (Constant), TSpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.006	.001		8.487	.000
	TSpaths_d	.439	.065	.582	6.758	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpaths_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	.074 ^b	.742	.460	.079	.755	1.324
	Tpaths_d	-.140 ^b	-.035	.972	-.004	.000	2131.900
	AvgPL_d	.053 ^b	.323	.747	.034	.275	3.640
	AvgGL_d	.055 ^b	.329	.743	.035	.268	3.729

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.755
	Tpaths_d	.000
	AvgPL_d	.275
	AvgGL_d	.268

a. Dependent Variable: R_con

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	TSpaths_d
1	1	1.984	1.000	.01	.01
	2	.016	11.291	.99	.99

a. Dependent Variable: R_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01012260746 2108	.01448704767 9722	.01098901098 9011	.00086686738 7184
Std. Predicted Value	-.999	4.035	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.01012383028 8649	.01460183504 9689	.01099206987 4608	.00088486915 5635
Residual	- .00227663107 2164	.00898754596 7102	.00000000000 0000	.00121007258 7065
Std. Residual	-1.871	7.386	.000	.994
Stud. Residual	-1.944	7.639	-.001	1.022
Deleted Residual	- .00245681055 8215	.00961339846 2534	- .00000305888 5597	.00127833894 1680

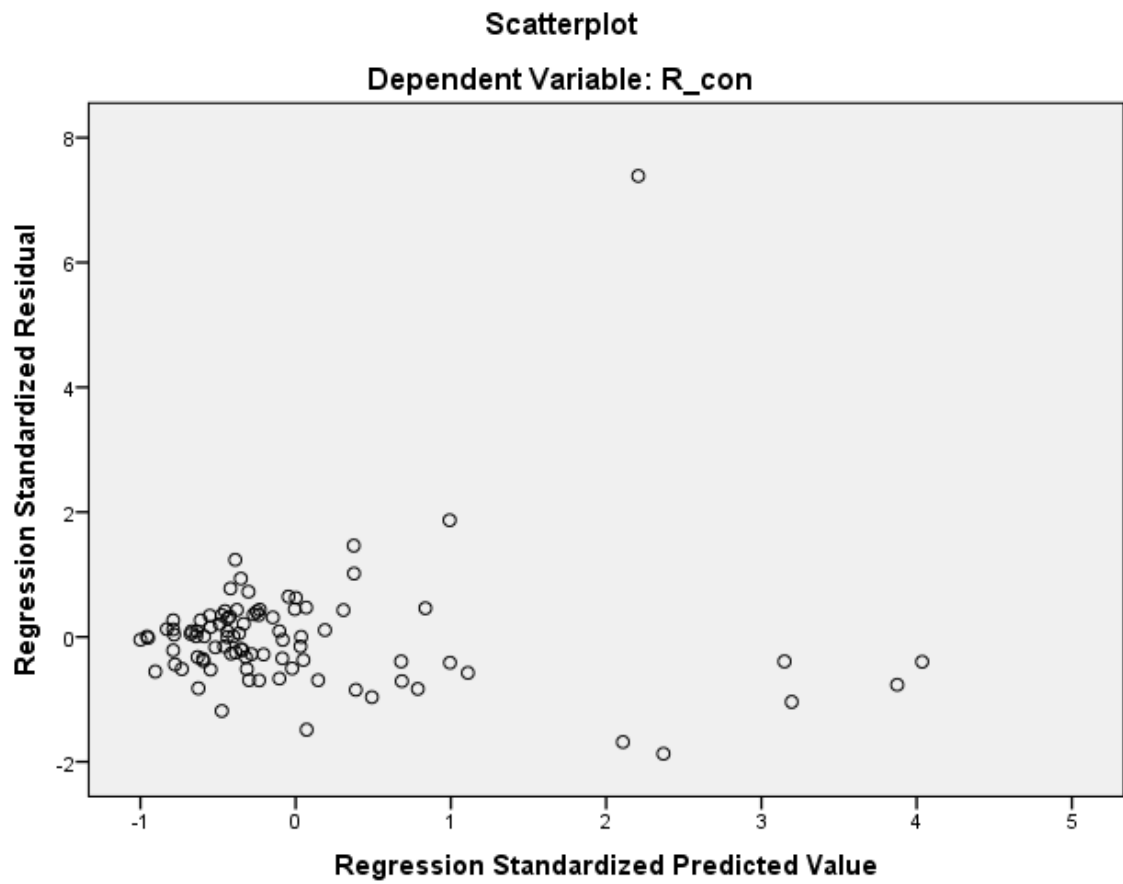
Stud. Deleted Residual	-1.975	12.943	.057	1.502
Mahal. Distance	.000	16.283	.989	2.774
Cook's Distance	.000	2.032	.029	.213
Centered Leverage Value	.000	.181	.011	.031

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: 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	06-JUN-2015 09:40:06	
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 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	6080 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Warnings

There are no valid cases for models with dependent variable SMSP_d. Statistics cannot be computed.

No valid cases found. Equation-building skipped.

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

06-JUN-2015 09:40:40

Comments		
Input	Active Dataset	DataSet3
	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 S_con /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	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	Tpaths_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_con

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.766 ^a	.587	.583	.00116936260 7406
2	.802 ^b	.643	.635	.00109401620 6277

a. Predictors: (Constant), Tpaths_d

b. Predictors: (Constant), Tpaths_d, AvgGL_d

c. Dependent Variable: S_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	125.261	.000 ^b
	Residual	.000	88	.000		
	Total	.000	89			
2	Regression	.000	2	.000	78.324	.000 ^c
	Residual	.000	87	.000		
	Total	.000	89			

a. Dependent Variable: S_con

b. Predictors: (Constant), Tpaths_d

c. Predictors: (Constant), Tpaths_d, AvgGL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.007	.001		-10.164	.000
	Tpaths_d	.719	.064	.766	11.192	.000
2	(Constant)	-.008	.001		-11.469	.000
	Tpaths_d	1.073	.113	1.144	9.457	.000
	AvgGL_d	-.283	.077	-.445	-3.680	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_d	1.000	1.000
2	(Constant)		
	Tpaths_d	.281	3.565
	AvgGL_d	.281	3.565

a. Dependent Variable: S_con

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.160 ^b	-2.040	.044	-.214	.738	1.355
	TSpaths_d	-2.873 ^b	-.932	.354	-.099	.000	2022.424
	AvgPL_d	-.419 ^b	-3.459	.001	-.348	.284	3.515
	AvgGL_d	-.445 ^b	-3.680	.000	-.367	.281	3.565
2	GD_d	-.063 ^c	-.776	.440	-.083	.627	1.594
	TSpaths_d	-3.732 ^c	-1.296	.198	-.138	.000	2035.071
	AvgPL_d	1.185 ^c	1.272	.207	.136	.005	212.919

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.738	
	TSpaths_d	.000	
	AvgPL_d	.284	
	AvgGL_d	.281	
2	GD_d	.238	

TSpaths_d	.000
AvgPL_d	.005

a. Dependent Variable: S_con

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Tpaths_d	AvgGL_d
1	1	1.985	1.000	.01	.01	
	2	.015	11.493	.99	.99	
2	1	2.962	1.000	.00	.00	.00
	2	.032	9.558	.47	.00	.24
	3	.006	23.204	.53	1.00	.76

a. Dependent Variable: S_con

Residuals Statistics^a

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

Predicted Value	- .00090866815 2988	.00725012691 6915	.00061345339 3061	.00145141439 2471
Std. Predicted Value	-1.049	4.573	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	- .00093561189 7148	.00591756356 8801	.00059241095 6728	.00135749017 1118
Residual	- .00384459365 1593	.00591381546 1099	.00000000000 0000	.00108165404 4388
Std. Residual	-3.514	5.406	.000	.989
Stud. Residual	-3.660	6.255	.009	1.074
Deleted Residual	- .00416912278 1605	.00791814737 0219	.00002104243 6333	.00128563336 1553
Stud. Deleted Residual	-3.956	8.383	.031	1.247
Mahal. Distance	.181	21.540	1.978	3.530
Cook's Distance	.000	4.420	.075	.482
Centered Leverage Value	.002	.242	.022	.040

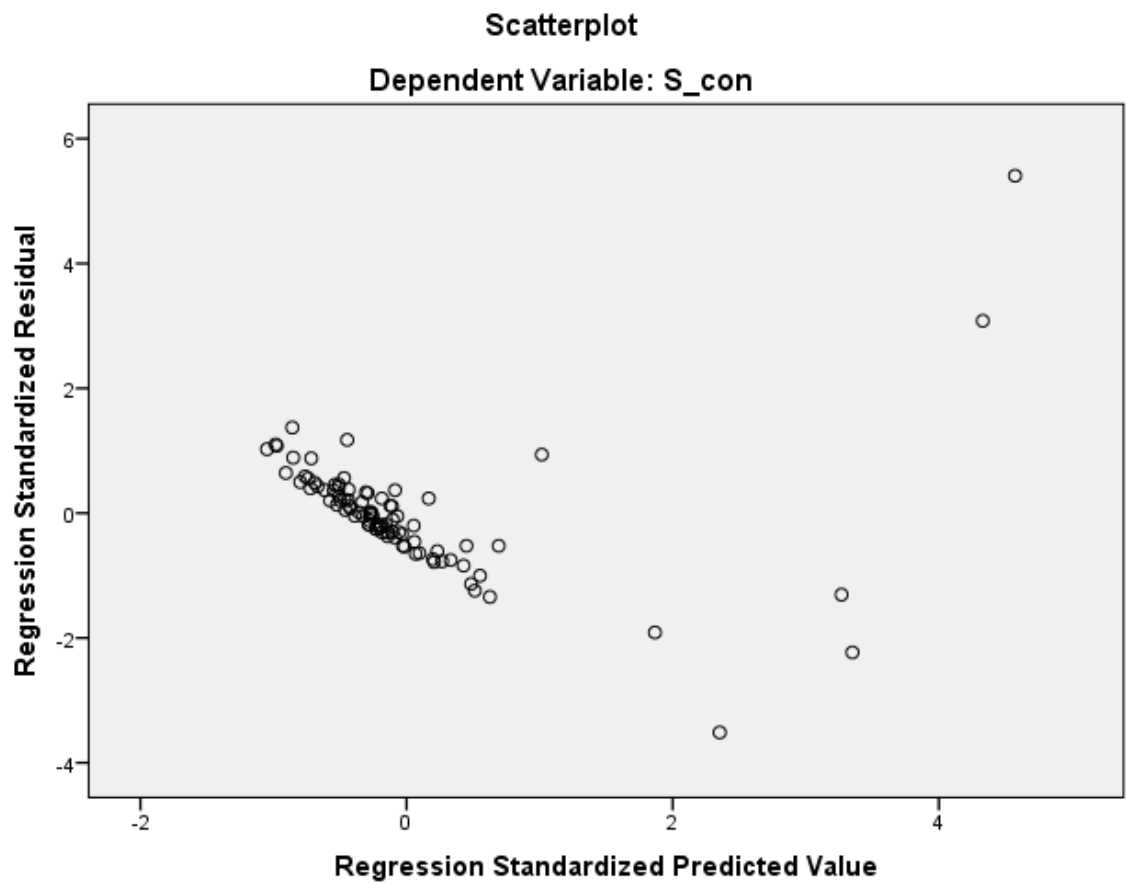
Residuals Statistics^a

	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: 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		06-JUN-2015 09:41:01
Comments		
Input	Active Dataset	DataSet3
	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 R_con /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.23
	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	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	GD_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	.655 ^a	.429	.422	.00071732366 7531
2	.697 ^b	.486	.475	.00068411200 2174

a. Predictors: (Constant), Tpaths_d

b. Predictors: (Constant), Tpaths_d, GD_d

c. Dependent Variable: R_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	66.062	.000 ^b
	Residual	.000	88	.000		
	Total	.000	89			
2	Regression	.000	2	.000	41.192	.000 ^c
	Residual	.000	87	.000		
	Total	.000	89			

a. Dependent Variable: R_con

b. Predictors: (Constant), Tpaths_d

c. Predictors: (Constant), Tpaths_d, GD_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.007	.000		16.818	.000

	Tpaths_d	.320	.039	.655	8.128	.000
2	(Constant)	.007	.000		17.751	.000
	Tpaths_d	.250	.044	.512	5.722	.000
	GD_d	.065	.021	.279	3.123	.002

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_d	1.000	1.000
2	(Constant)		
	Tpaths_d	.738	1.355
	GD_d	.738	1.355

a. Dependent Variable: R_con

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.279 ^b	3.123	.002	.317	.738	1.355
	TSpaths_d	-1.686 ^b	-.463	.644	-.050	.000	2022.424
	AvgPL_d	-.042 ^b	-.279	.781	-.030	.284	3.515

	AvgGL_d	-.054 ^b	-.351	.726	-.038	.281	3.565
2	TSpaths_d	.480 ^c	.135	.893	.015	.000	2105.770
	AvgPL_d	-.270 ^c	-1.733	.087	-.184	.237	4.213
	AvgGL_d	-.269 ^c	-1.732	.087	-.184	.238	4.193

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.738
	TSpaths_d	.000
	AvgPL_d	.284
	AvgGL_d	.281
2	TSpaths_d	.000
	AvgPL_d	.237
	AvgGL_d	.238

a. Dependent Variable: R_con

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
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			Index	(Constant)	Tpaths_d	GD_d
1	1	1.985	1.000	.01	.01	
	2	.015	11.493	.99	.99	
2	1	2.919	1.000	.00	.00	.01
	2	.068	6.548	.12	.02	.85
	3	.013	14.824	.88	.97	.14

a. Dependent Variable: R_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01005250029 2659	.01351439021 5278	.01086789330 9536	.00065819109 4791
Std. Predicted Value	-1.239	4.021	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01004865393 0426	.01359184831 3808	.01086733932 1075	.00065406826 7037
Residual	- .00131761422 3808	.00238344655 3722	.00000000000 0000	.00067638167 4897
Std. Residual	-1.926	3.484	.000	.989
Stud. Residual	-1.982	3.546	.000	1.010

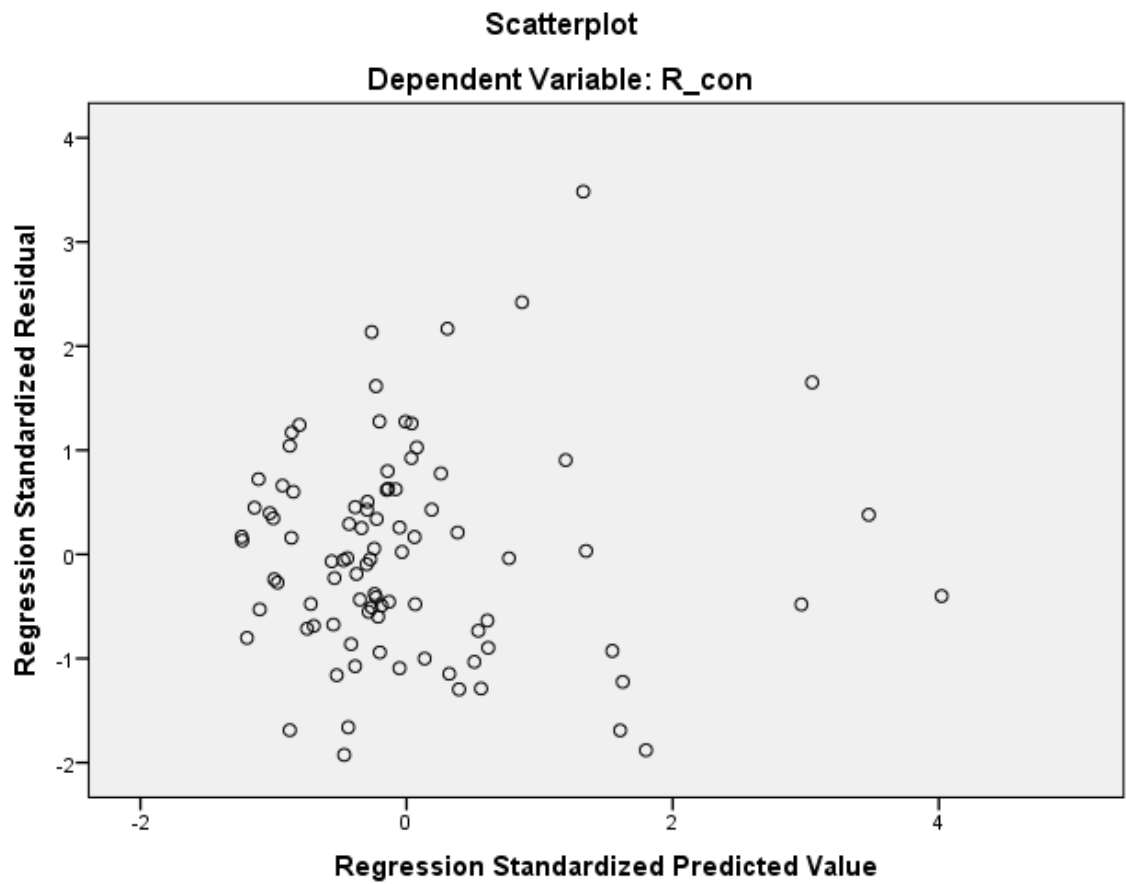
Deleted Residual	- .00142984441 4815	.00246893591 2475	.00000055398 8461	.00070783089 3323
Stud. Deleted Residual	-2.017	3.812	.004	1.029
Mahal. Distance	.001	23.022	1.978	3.839
Cook's Distance	.000	.460	.016	.054
Centered Leverage Value	.000	.259	.022	.043

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 S_con

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created	06-JUN-2015 09:41:37	
Comments		
Input	Active Dataset	DataSet3
	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_con /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	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	Tpaths_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_con

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.705 ^a	.497	.492	.00106767766 0098
2	.739 ^b	.547	.536	.00101993270 2108

a. Predictors: (Constant), Tpaths_d

b. Predictors: (Constant), Tpaths_d, AvgGL_d

c. Dependent Variable: S_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	86.121	.000 ^b
	Residual	.000	87	.000		
	Total	.000	88			
2	Regression	.000	2	.000	51.854	.000 ^c
	Residual	.000	86	.000		
	Total	.000	88			

a. Dependent Variable: S_con

b. Predictors: (Constant), Tpaths_d

c. Predictors: (Constant), Tpaths_d, AvgGL_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	-.006	.001		-8.453	.000
	Tpaths_d	.601	.065	.705	9.280	.000
2	(Constant)	-.007	.001		-9.354	.000
	Tpaths_d	.899	.116	1.055	7.782	.000
	AvgGL_d	-.224	.073	-.414	-3.055	.003

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_d	1.000	1.000
2	(Constant)		
	Tpaths_d	.287	3.488
	AvgGL_d	.287	3.488

a. Dependent Variable: S_con

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.160 ^b	-1.848	.068	-.195	.749	1.336

	TSpaths_d	-4.341 ^b	-1.406	.163	-.150	.001	1669.307
	AvgPL_d	-.380 ^b	-2.792	.006	-.288	.289	3.461
	AvgGL_d	-.414 ^b	-3.055	.003	-.313	.287	3.488
2	GD_d	-.074 ^c	-.811	.420	-.088	.641	1.559
	TSpaths_d	-4.923 ^c	-1.674	.098	-.179	.001	1675.777
	AvgPL_d	1.677 ^c	1.648	.103	.176	.005	200.444

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.749
	TSpaths_d	.001
	AvgPL_d	.289
	AvgGL_d	.287
2	GD_d	.246
	TSpaths_d	.001
	AvgPL_d	.005

a. Dependent Variable: S_con

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Tpaths_d	AvgGL_d
1	1	1.987	1.000	.01	.01	
	2	.013	12.502	.99	.99	
2	1	2.964	1.000	.00	.00	.00
	2	.031	9.797	.38	.00	.26
	3	.005	24.856	.62	1.00	.74

a. Dependent Variable: S_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00073448376 4973	.00621193973 3475	.00050496890 1095	.00110722927 7666
Std. Predicted Value	-1.119	5.154	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	- .00075929902 9596	.00508883735 1650	.00047857178 1606	.00100534625 0264
Residual	- .00331563549 1163	.00695200264 4539	.00000000000 0000	.00100827594 5541

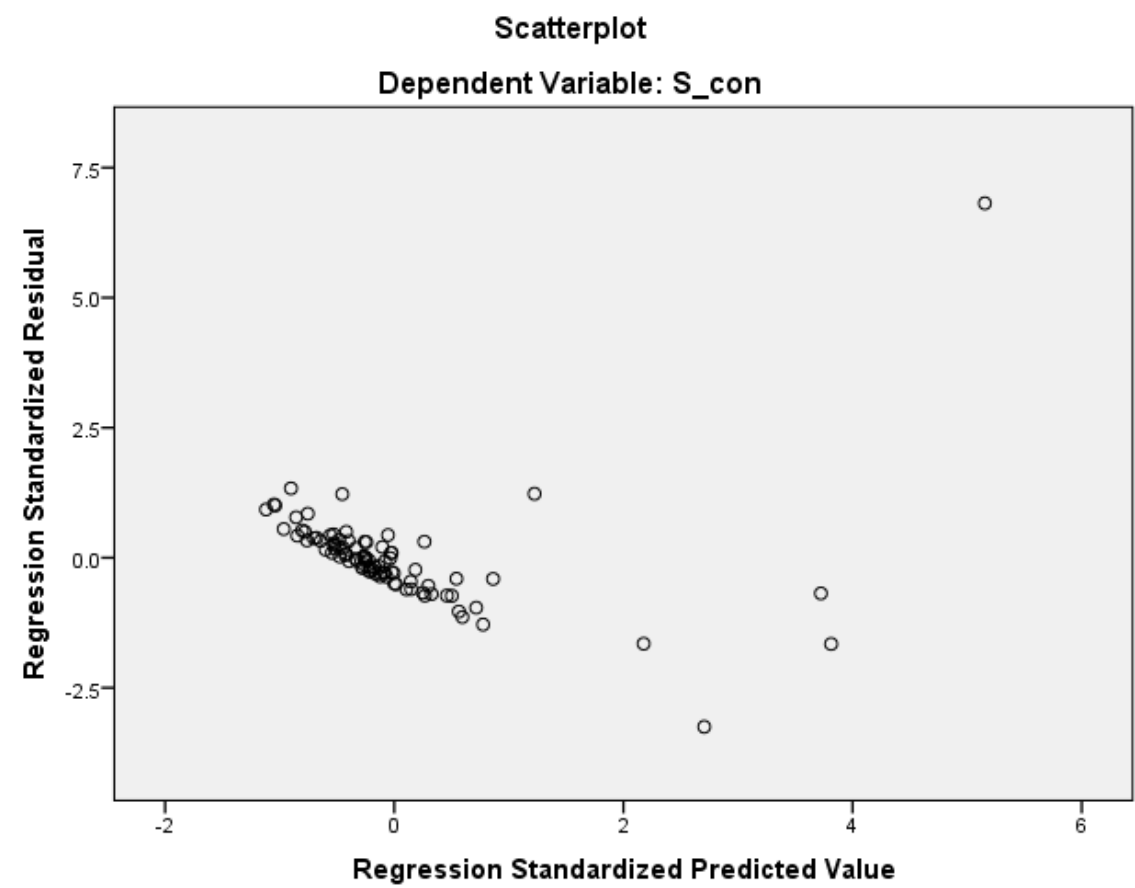
Std. Residual	-3.251	6.816	.000	.989
Stud. Residual	-3.421	8.306	.011	1.124
Deleted Residual	-	.01032415311	.00002639711	.00132142995
	.00367147498	7836	9489	9511
	7641			
Stud. Deleted Residual	-3.659	18.571	.124	2.099
Mahal. Distance	.178	27.754	1.978	3.771
Cook's Distance	.000	11.156	.137	1.182
Centered Leverage Value	.002	.315	.022	.043

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_con

Charts



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 TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		06-JUN-2015 09:42:19
Comments		
Input	Active Dataset	DataSet3
	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 S_con /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.27
	Elapsed Time	00:00:00.22
	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	Tpaths_d		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).

a. Dependent Variable: S_con

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.705 ^a	.497	.491	.00045436715 2108

2	.823 ^b	.678	.670	.00036562231 2078
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a. Predictors: (Constant), Tpaths_d

b. Predictors: (Constant), Tpaths_d, TSpaths_d

c. Dependent Variable: S_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	84.871	.000 ^b
	Residual	.000	86	.000		
	Total	.000	87			
2	Regression	.000	2	.000	89.443	.000 ^c
	Residual	.000	85	.000		
	Total	.000	87			

a. Dependent Variable: S_con

b. Predictors: (Constant), Tpaths_d

c. Predictors: (Constant), Tpaths_d, TSpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.003	.000		-8.072	.000
	Tpaths_d	.292	.032	.705	9.213	.000
2	(Constant)	-.003	.000		-9.283	.000
	Tpaths_d	6.586	.911	15.915	7.232	.000
	TSpaths_d	-6.312	.913	-15.216	-6.915	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_d	1.000	1.000
2	(Constant)		
	Tpaths_d	.001	1277.741
	TSpaths_d	.001	1277.741

a. Dependent Variable: S_con

Excluded Variables^a

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

					Correlation	Tolerance	VIF
1	GD_d	.206 ^b	2.258	.027	.238	.672	1.489
	TSpaths_d	-15.216 ^b	-6.915	.000	-.600	.001	1277.741
	AvgPL_d	.030 ^b	.208	.836	.023	.277	3.613
	AvgGL_d	-.082 ^b	-.561	.576	-.061	.277	3.605
2	GD_d	.123 ^c	1.629	.107	.175	.653	1.531
	AvgPL_d	-.107 ^c	-.897	.373	-.097	.269	3.715
	AvgGL_d	-.104 ^c	-.892	.375	-.097	.277	3.608

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.672
	TSpaths_d	.001
	AvgPL_d	.277
	AvgGL_d	.277
2	GD_d	.001
	AvgPL_d	.001
	AvgGL_d	.001

a. Dependent Variable: S_con

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Tpaths_d	TSpaths_d
1	1	1.990	1.000	.00	.00	
	2	.010	14.140	1.00	1.00	
2	1	2.987	1.000	.00	.00	.00
	2	.013	15.025	.99	.00	.00
	3	7.734E-6	621.436	.01	1.00	1.00

a. Dependent Variable: S_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00018688941 7819	.00339181907 4750	.00036111693 1441	.00052427711 0532
Std. Predicted Value	-1.045	5.781	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	- .00020190826 0351	.00466259801 7603	.00036816483 5739	.00060227119 0210

Residual	- .00135996460 4490	.00197719107 3820	.00000000000 0000	.00036139532 2480
Std. Residual	-3.720	5.408	.000	.988
Stud. Residual	-4.001	6.136	-.002	1.080
Deleted Residual	- .00157353549 7300	.00254543195 4786	- .00000704790 4298	.00045255828 8962
Stud. Deleted Residual	-4.415	8.172	.018	1.248
Mahal. Distance	.016	70.410	1.977	7.996
Cook's Distance	.000	4.907	.121	.656
Centered Leverage Value	.000	.809	.023	.092

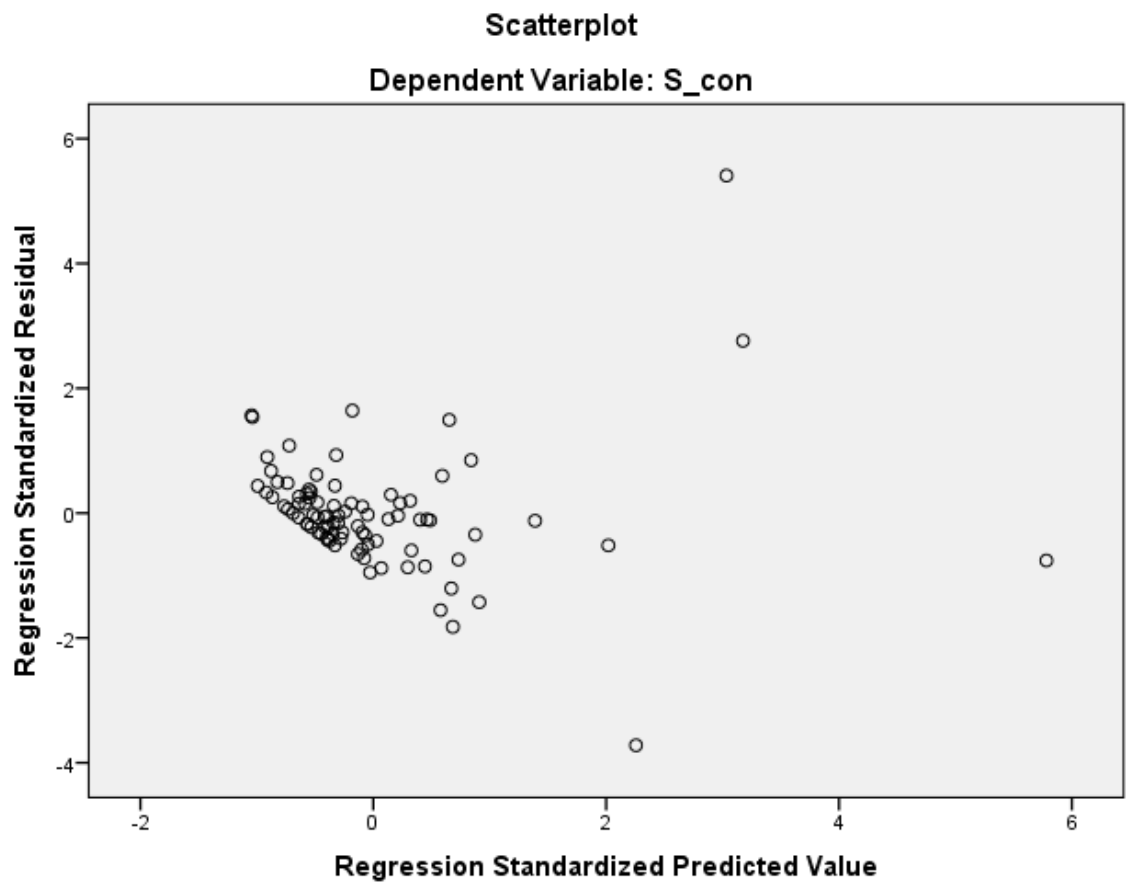
Residuals Statistics^a

	N
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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_con

Charts



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

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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.
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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_d		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).

a. Dependent Variable: S_con

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.607 ^a	.368	.361	.000330308137861
2	.770 ^b	.593	.583	.000266692110150

a. Predictors: (Constant), Tpaths_d

b. Predictors: (Constant), Tpaths_d, TSpaths_d

c. Dependent Variable: S_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	48.969	.000 ^b
	Residual	.000	84	.000		
	Total	.000	85			
2	Regression	.000	2	.000	60.486	.000 ^c
	Residual	.000	83	.000		
	Total	.000	85			

a. Dependent Variable: S_con

b. Predictors: (Constant), Tpaths_d

c. Predictors: (Constant), Tpaths_d, TSpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.002	.000		-5.929	.000
	Tpaths_d	.185	.026	.607	6.998	.000
2	(Constant)	-.002	.000		-7.991	.000
	Tpaths_d	10.602	1.539	34.790	6.891	.000
	TSpaths_d	-10.400	1.536	-34.187	-6.772	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_d	1.000	1.000
2	(Constant)		
	Tpaths_d	.000	5198.835
	TSpaths_d	.000	5198.835

a. Dependent Variable: S_con

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.102 ^b	1.051	.296	.115	.802	1.247
	TSpaths_d	-34.187 ^b	-6.772	.000	-.597	.000	5198.835
	AvgPL_d	.091 ^b	.570	.570	.062	.300	3.339
	AvgGL_d	.039 ^b	.243	.808	.027	.301	3.327
2	GD_d	-.066 ^c	-.798	.427	-.088	.727	1.375
	AvgPL_d	.090 ^c	.703	.484	.077	.300	3.339
	AvgGL_d	.090 ^c	.703	.484	.077	.300	3.339

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d		
	TSpaths_d		
	AvgPL_d		
	AvgGL_d		
2	GD_d		

AvgPL_d	.000
AvgGL_d	.000

a. Dependent Variable: S_con

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Tpaths_d	TSpaths_d
1	1	1.992	1.000	.00	.00	
	2	.008	15.877	1.00	1.00	
2	1	2.989	1.000	.00	.00	.00
	2	.011	16.835	.99	.00	.00
	3	1.516E-6	1404.039	.01	1.00	1.00

a. Dependent Variable: S_con

Residuals Statistics^a

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

Predicted Value	- .00013863366 6211	.00148206797 8941	.00028762564 2672	.00031815760 6511
Std. Predicted Value	-1.340	3.754	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	- .00015657227 7774	.00128538720 3097	.00028151320 4049	.00030293212 9736
Residual	- .00090885360 2596	.00155307969 5441	.00000000000 0000	.00026353587 9333
Std. Residual	-3.408	5.823	.000	.988
Stud. Residual	-3.751	6.922	.010	1.090
Deleted Residual	- .00110128347 2963	.00219436688 3487	.00000611243 8624	.00032380238 1027
Stud. Deleted Residual	-4.092	10.583	.050	1.405
Mahal. Distance	.006	24.856	1.977	4.229
Cook's Distance	.000	6.595	.095	.717
Centered Leverage Value	.000	.292	.023	.050

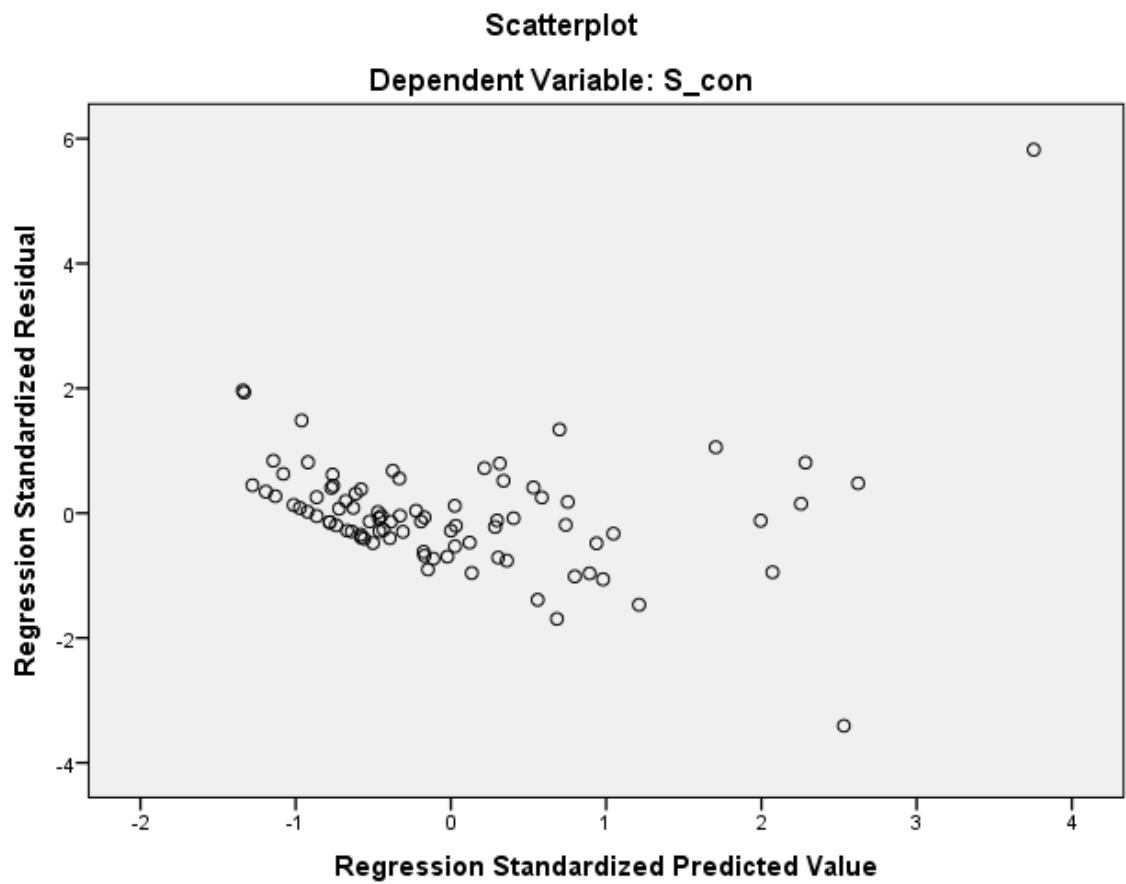
Residuals Statistics^a

	N
Predicted Value	86
Std. Predicted Value	86
Standard Error of Predicted Value	86

Adjusted Predicted Value	86
Residual	86
Std. Residual	86
Stud. Residual	86
Deleted Residual	86
Stud. Deleted Residual	86
Mahal. Distance	86
Cook's Distance	86
Centered Leverage Value	86

a. Dependent Variable: S_con

Charts



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

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	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
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		/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.
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Variables Created or	COO_11	Cook's Distance
Modified		

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

a. Dependent Variable: S_con

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
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1	.478 ^a	.229	.220	.00025262705 0026
2	.841 ^b	.708	.701	.00015639490 2940
3	.863 ^c	.745	.735	.00014708614 5635

a. Predictors: (Constant), AvgPL_d

b. Predictors: (Constant), AvgPL_d, AvgGL_d

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

d. Dependent Variable: S_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	24.641	.000 ^b
	Residual	.000	83	.000		
	Total	.000	84			
2	Regression	.000	2	.000	99.431	.000 ^c
	Residual	.000	82	.000		
	Total	.000	84			
3	Regression	.000	3	.000	78.846	.000 ^d
	Residual	.000	81	.000		

Total	.000	84			
-------	------	----	--	--	--

a. Dependent Variable: S_con

b. Predictors: (Constant), AvgPL_d

c. Predictors: (Constant), AvgPL_d, AvgGL_d

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

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.000	.000		-2.762	.007
	AvgPL_d	.057	.011	.478	4.964	.000
2	(Constant)	-.001	.000		-6.550	.000
	AvgPL_d	2.414	.203	20.440	11.871	.000
	AvgGL_d	-2.339	.202	-19.974	-11.600	.000
3	(Constant)	.000	.000		-6.658	.000
	AvgPL_d	2.688	.207	22.765	12.964	.000
	AvgGL_d	-2.595	.204	-22.164	-12.729	.000
	GD_d	-.020	.006	-.247	-3.422	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000
2	(Constant)		
	AvgPL_d	.001	832.694
	AvgGL_d	.001	832.694
3	(Constant)		
	AvgPL_d	.001	979.192
	AvgGL_d	.001	962.719
	GD_d	.604	1.657

a. Dependent Variable: S_con

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.091 ^b	.785	.435	.086	.698	1.433
	Tpaths_d	-.073 ^b	-.412	.681	-.045	.300	3.334
	TSpaths_d	-.111 ^b	-.630	.530	-.069	.300	3.333
	AvgGL_d	-19.974 ^b	-11.600	.000	-.788	.001	832.694

2	GD_d	-.247 ^c	-3.422	.001	-.355	.604	1.657
	Tpaths_d	-.092 ^c	-.842	.402	-.093	.300	3.335
	TSpaths_d	-.093 ^c	-.850	.398	-.094	.300	3.334
3	Tpaths_d	-.129 ^d	-1.255	.213	-.139	.297	3.369
	TSpaths_d	-.129 ^d	-1.260	.211	-.140	.297	3.368

Excluded Variables^a

Model	Collinearity Statistics	
	Minimum Tolerance	
1	GD_d	.698
	Tpaths_d	.300
	TSpaths_d	.300
	AvgGL_d	.001
2	GD_d	.001
	Tpaths_d	.001
	TSpaths_d	.001
3	Tpaths_d	.001
	TSpaths_d	.001

a. Dependent Variable: S_con

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

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgPL_d	AvgGL_d
1	1	1.975	1.000	.01	.01	
	2	.025	8.859	.99	.99	
2	1	2.966	1.000	.01	.00	.00
	2	.034	9.377	.95	.00	.00
	3	3.006E-5	314.149	.04	1.00	1.00
3	1	3.911	1.000	.00	.00	.00
	2	.056	8.330	.17	.00	.00
	3	.033	10.930	.80	.00	.00
	4	2.578E-5	389.526	.02	1.00	1.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		GD_d
1	1	
	2	
2	1	
	2	

	3	
3	1	.00
	2	.79
	3	.06
	4	.14

a. Dependent Variable: S_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00002199974 1875	.00127689691 7261	.00025530185 3895	.00024682127 0028
Std. Predicted Value	-1.123	4.139	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	- .00002653810 7704	.00129072740 6740	.00025525708 2786	.00024710038 4709
Residual	- .00037921525 6544	.00062384194 4616	.00000000000 0000	.00014443572 7726
Std. Residual	-2.578	4.241	.000	.982
Stud. Residual	-2.735	4.550	.000	1.023

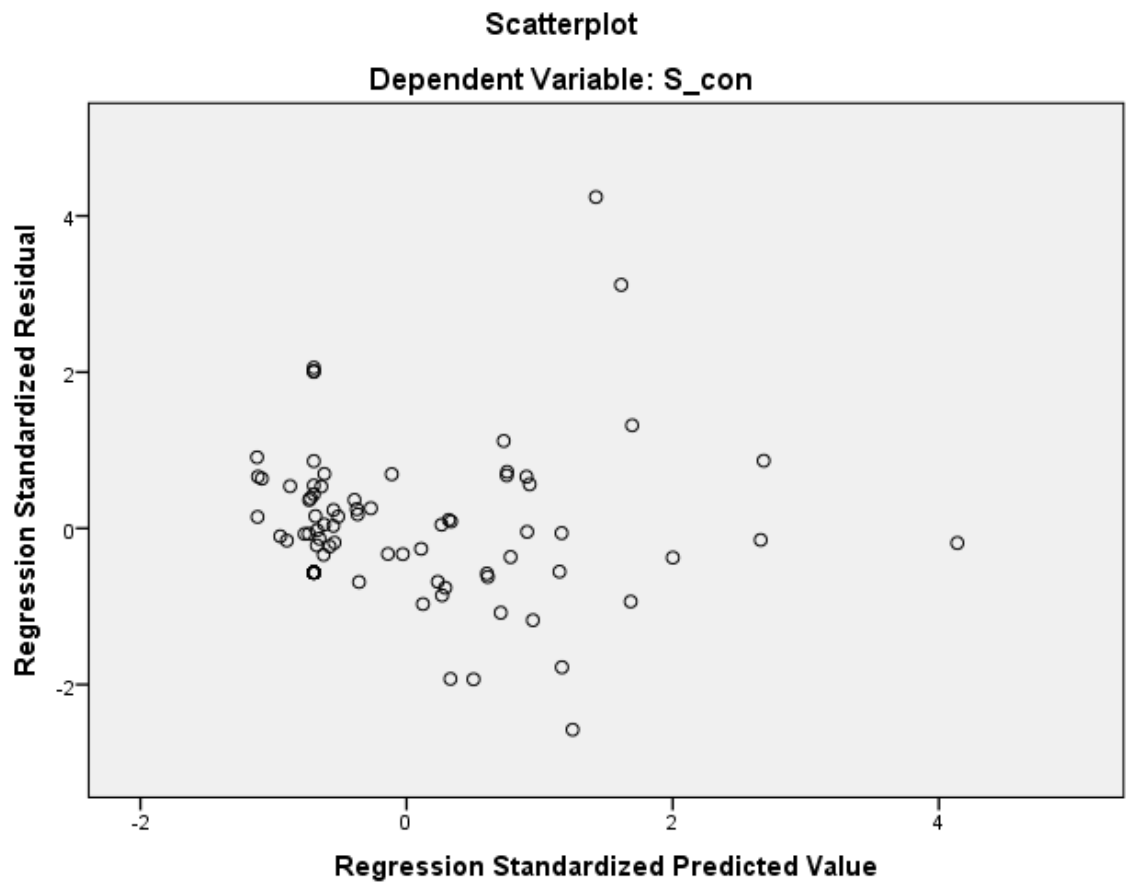
Deleted Residual	- .00042680531 6238	.00071800558 3622	.00000004477 1109	.00015685534 5565
Stud. Deleted Residual	-2.853	5.241	.010	1.078
Mahal. Distance	.314	27.057	2.965	3.788
Cook's Distance	.000	.781	.023	.092
Centered Leverage Value	.004	.322	.035	.045

Residuals Statistics^a

	N
Predicted Value	85
Std. Predicted Value	85
Standard Error of Predicted Value	85
Adjusted Predicted Value	85
Residual	85
Std. Residual	85
Stud. Residual	85
Deleted Residual	85
Stud. Deleted Residual	85
Mahal. Distance	85
Cook's Distance	85
Centered Leverage Value	85

a. Dependent Variable: S_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

/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 GD_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
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	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	S_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	.344 ^a	.118	.108	.00382945366 7180
2	.542 ^b	.294	.278	.00344620512 2370

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, S_con

c. Dependent Variable: GD_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	11.931	.001 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	18.314	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			

a. Dependent Variable: GD_d

b. Predictors: (Constant), R_con

c. Predictors: (Constant), R_con, S_con

Coefficients^a

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

		B	Std. Error	Beta		
1	(Constant)	.001	.003		.231	.818
	R_con	.937	.271	.344	3.454	.001
2	(Constant)	-.015	.004		-3.459	.001
	R_con	2.373	.392	.871	6.051	.000
	S_con	-.028	.006	-.673	-4.679	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	.387	2.581
	S_con	.387	2.581

a. Dependent Variable: GD_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.103 ^b	-1.035	.304	-.110	.998	1.002

	PL_TSpinN	-.121 ^b	-1.219	.226	-.129	1.000	1.000
	S_con	-.673 ^b	-4.679	.000	-.446	.387	2.581
2	PL_TpinN	-.141 ^c	-1.575	.119	-.166	.991	1.010
	PL_TSpinN	-.131 ^c	-1.471	.145	-.156	.999	1.001

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.998	
	PL_TSpinN	1.000	
	S_con	.387	
2	PL_TpinN	.384	
	PL_TSpinN	.387	

a. Dependent Variable: GD_d

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_con	S_con
1	1	1.991	1.000	.00	.00	

	2	.009	14.914	1.00	1.00	
2	1	2.042	1.000	.00	.00	.01
	2	.955	1.462	.00	.00	.38
	3	.003	24.156	1.00	1.00	.61

a. Dependent Variable: GD_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00689273932 9487	.01870455592 8707	.01098901098 9011	.00219850402 6374
Std. Predicted Value	-1.863	3.509	.000	1.000
Standard Error of Predicted Value	.000	.003	.001	.000
Adjusted Predicted Value	- .07790168374 7768	.01909209042 7876	.01001671059 1424	.00958084489 9331
Residual	- .00697032548 4872	.01125099603 0867	.00000000000 0000	.00340769882 8632
Std. Residual	-2.023	3.265	.000	.989
Stud. Residual	-2.164	3.407	.003	1.005
Deleted Residual	- .00798097997 9038	.08901279419 6606	.00097230039 7587	.00997337185 3332

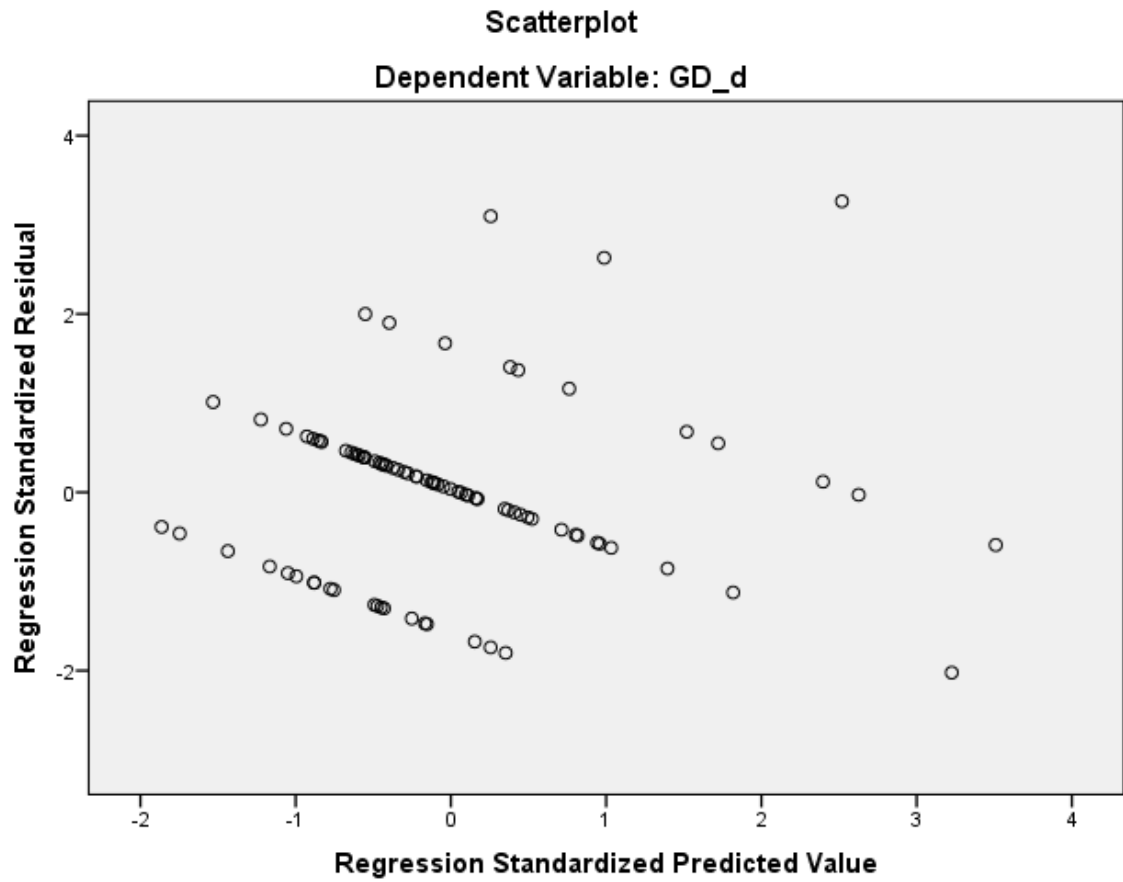
Stud. Deleted Residual	-2.212	3.636	.008	1.028
Mahal. Distance	.012	88.991	1.978	9.443
Cook's Distance	.000	222.333	2.454	23.306
Centered Leverage Value	.000	.989	.022	.105

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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		06-JUN-2015 09:25:25
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 Tpaths_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.21
	Memory Required	5232 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	S_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	PL_TSpinN		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	.582 ^a	.339	.331	.00161282138 6228
2	.672 ^b	.452	.440	.00147661289 8020
3	.692 ^c	.478	.460	.00144912993 1998

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, S_con

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

d. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	45.626	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	36.304	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	26.586	.000 ^d

Residual	.000	87	.000		
Total	.000	90			

a. Dependent Variable: Tpaths_d

b. Predictors: (Constant), R_con

c. Predictors: (Constant), R_con, S_con

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

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.003	.001		1.983	.050
	R_con	.771	.114	.582	6.755	.000
2	(Constant)	-.004	.002		-1.928	.057
	R_con	1.332	.168	1.005	7.929	.000
	S_con	-.011	.003	-.540	-4.263	.000
3	(Constant)	-.003	.002		-1.588	.116
	R_con	1.339	.165	1.010	8.121	.000
	S_con	-.011	.002	-.547	-4.392	.000
	PL_TSpinN	-.065	.031	-.162	-2.090	.040

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	.387	2.581
	S_con	.387	2.581
3	(Constant)		
	R_con	.387	2.582
	S_con	.387	2.582
	PL_TSpinN	.999	1.001

a. Dependent Variable: Tpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.126 ^b	-1.471	.145	-.155	.998	1.002
	PL_TSpinN	-.154 ^b	-1.808	.074	-.189	1.000	1.000
	S_con	-.540 ^b	-4.263	.000	-.414	.387	2.581

2	PL_TpinN	-.157 ^c	-2.008	.048	-.210	.991	1.010
	PL_TSpinN	-.162 ^c	-2.090	.040	-.219	.999	1.001
3	PL_TpinN	-.058 ^d	-.349	.728	-.038	.217	4.612

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpinN	.998
	PL_TSpinN	1.000
	S_con	.387
2	PL_TpinN	.384
	PL_TSpinN	.387
3	PL_TpinN	.217

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_con	S_con

1	1	1.991	1.000	.00	.00	
	2	.009	14.914	1.00	1.00	
2	1	2.042	1.000	.00	.00	.01
	2	.955	1.462	.00	.00	.38
	3	.003	24.156	1.00	1.00	.61
3	1	2.905	1.000	.00	.00	.00
	2	.977	1.724	.00	.00	.38
	3	.114	5.041	.01	.01	.01
	4	.003	28.891	.99	.99	.60

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TSpinN
1	1	
	2	
2	1	
	2	
	3	
3	1	.02
	2	.00
	3	.97
	4	.01

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

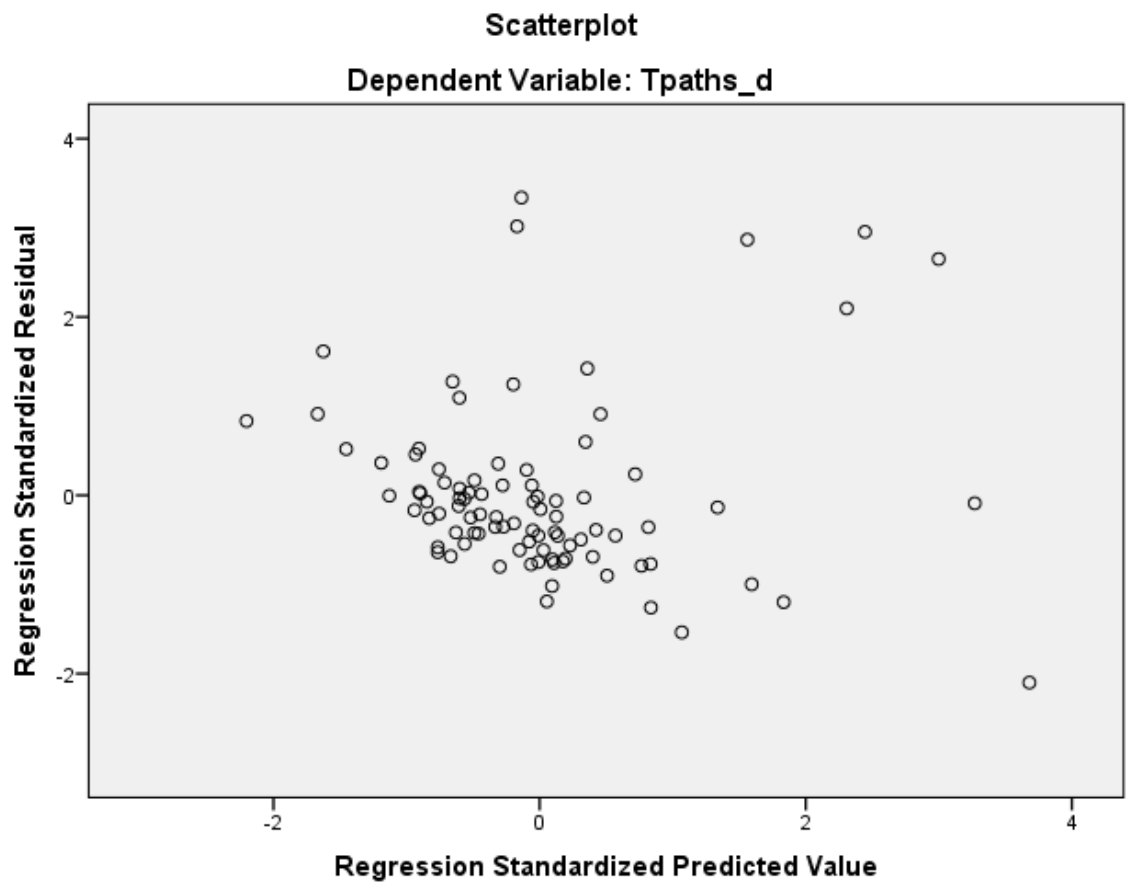
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00798379722 9826	.01601005345 5830	.01098901098 9011	.00136418975 4688
Std. Predicted Value	-2.203	3.681	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00770824123 1740	.59263879060 7452	.01732873304 4168	.06099275306 1023
Residual	- .00304432446 1371	.00483716232 7021	.00000000000 0000	.00142477307 2394
Std. Residual	-2.101	3.338	.000	.983
Stud. Residual	-5.956	3.357	-.063	1.190
Deleted Residual	- .57731896638 8702	.00489217229 1875	- .00633972205 5157	.06053888179 2138
Stud. Deleted Residual	-7.696	3.577	-.073	1.320
Mahal. Distance	.013	88.991	2.967	9.628
Cook's Distance	.000	39669.789	435.948	4158.522
Centered Leverage Value	.000	.989	.033	.107

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_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:25:44
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 TSpats_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.24
	Memory Required	5264 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_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	S_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	PL_TSpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: TSpats_d

Model Summary^d

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

1	.582 ^a	.339	.332	.00161263693 9492
2	.672 ^b	.451	.439	.00147785502 1046
3	.691 ^c	.478	.460	.00144987547 9205

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, S_con

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

d. Dependent Variable: TSpats_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	45.674	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	36.180	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	26.536	.000 ^d
	Residual	.000	87	.000		

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

a. Dependent Variable: TSpats_d

b. Predictors: (Constant), R_con

c. Predictors: (Constant), R_con, S_con

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

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.003	.001		1.981	.051
	R_con	.772	.114	.582	6.758	.000
2	(Constant)	-.004	.002		-1.913	.059
	R_con	1.330	.168	1.003	7.909	.000
	S_con	-.011	.003	-.538	-4.240	.000
3	(Constant)	-.003	.002		-1.571	.120
	R_con	1.337	.165	1.009	8.103	.000
	S_con	-.011	.002	-.544	-4.370	.000
	PL_TSpinN	-.065	.031	-.163	-2.105	.038

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	.387	2.581
	S_con	.387	2.581
3	(Constant)		
	R_con	.387	2.582
	S_con	.387	2.582
	PL_TSpinN	.999	1.001

a. Dependent Variable: TSpats_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.128 ^b	-1.488	.140	-.157	.998	1.002
	PL_TSpinN	-.155 ^b	-1.824	.072	-.191	1.000	1.000
	S_con	-.538 ^b	-4.240	.000	-.412	.387	2.581
2	PL_TpinN	-.158 ^c	-2.024	.046	-.212	.991	1.010

	PL_TSpinN	-.163 ^c	-2.105	.038	-.220	.999	1.001
3	PL_TpinN	-.060 ^d	-.356	.722	-.038	.217	4.612

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.998	
	PL_TSpinN	1.000	
	S_con	.387	
2	PL_TpinN	.384	
	PL_TSpinN	.387	
3	PL_TpinN	.217	

a. Dependent Variable: TSpats_d

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

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_con	S_con
1	1	1.991	1.000	.00	.00	

	2	.009	14.914	1.00	1.00	
2	1	2.042	1.000	.00	.00	.01
	2	.955	1.462	.00	.00	.38
	3	.003	24.156	1.00	1.00	.61
3	1	2.905	1.000	.00	.00	.00
	2	.977	1.724	.00	.00	.38
	3	.114	5.041	.01	.01	.01
	4	.003	28.891	.99	.99	.60

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TSpinN
1	1	
	2	
2	1	
	2	
	3	
3	1	.02
	2	.00
	3	.97
	4	.01

a. Dependent Variable: TSpats_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00797801744 1928	.01600757241 2491	.01098901098 9011	.00136360542 6325
Std. Predicted Value	-2.208	3.680	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00769804930 3144	.59082239866 2567	.01730838279 7356	.06080240238 7310
Residual	- .00306281936 3549	.00485991826 2810	.00000000000 0000	.00142550608 8503
Std. Residual	-2.112	3.352	.000	.983
Stud. Residual	-5.934	3.371	-.063	1.189
Deleted Residual	- .57547998428 3447	.00491518713 5339	- .00631937180 8345	.06034622312 7031
Stud. Deleted Residual	-7.648	3.594	-.072	1.317
Mahal. Distance	.013	88.991	2.967	9.628
Cook's Distance	.000	39376.938	432.730	4127.823
Centered Leverage Value	.000	.989	.033	.107

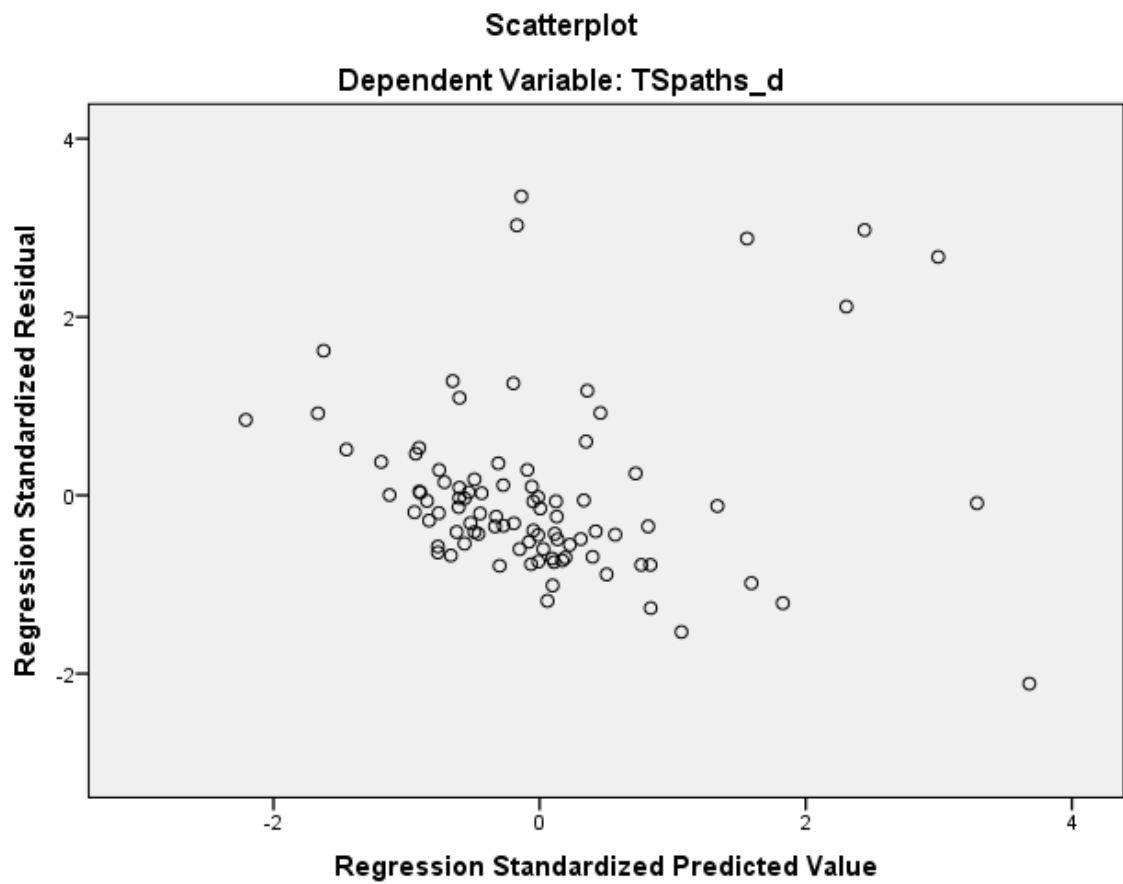
Residuals Statistics^a

	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: TSpats_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

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:26:28	
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 AvgPL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.20
	Memory Required	5312 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).
2	PL_TSpinN		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).

a. Dependent Variable: AvgPL_d

Model Summary^d

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

1	.511 ^a	.261	.252	.00252569583 2229
2	.596 ^b	.355	.340	.00237319325 7558
3	.652 ^c	.425	.405	.00225248030 4077

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, PL_TSpinN

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

d. Dependent Variable: AvgPL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	31.392	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	24.181	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			
3	Regression	.000	3	.000	21.456	.000 ^d
	Residual	.000	87	.000		

Total	.001	90			
-------	------	----	--	--	--

- a. Dependent Variable: AvgPL_d
- b. Predictors: (Constant), R_con
- c. Predictors: (Constant), R_con, PL_TSpinN
- d. Predictors: (Constant), R_con, PL_TSpinN, S_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-2.299E-5	.002		-.012	.991
	R_con	1.002	.179	.511	5.603	.000
2	(Constant)	.002	.002		1.005	.318
	R_con	1.004	.168	.512	5.975	.000
	PL_TSpinN	-.182	.051	-.306	-3.579	.001
3	(Constant)	-.005	.003		-1.792	.077
	R_con	1.660	.256	.846	6.476	.000
	PL_TSpinN	-.186	.048	-.313	-3.846	.000
	S_con	-.013	.004	-.427	-3.269	.002

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	1.000	1.000
	PL_TSpinN	1.000	1.000
3	(Constant)		
	R_con	.387	2.582
	PL_TSpinN	.999	1.001
	S_con	.387	2.582

a. Dependent Variable: AvgPL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.235 ^b	-2.657	.009	-.273	.998	1.002
	PL_TSpinN	-.306 ^b	-3.579	.001	-.356	1.000	1.000
	S_con	-.415 ^b	-2.956	.004	-.301	.387	2.581
2	PL_TpinN	.163 ^c	.892	.375	.095	.221	4.521

	S_con	-.427 ^c	-3.269	.002	-.331	.387	2.582
3	PL_TpinN	.085 ^d	.485	.629	.052	.217	4.612

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.998	
	PL_TSpinN	1.000	
	S_con	.387	
2	PL_TpinN	.221	
	S_con	.387	
3	PL_TpinN	.217	

a. Dependent Variable: AvgPL_d

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

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_con	PL_TSpinN
1	1	1.991	1.000	.00	.00	

	2	.009	14.914	1.00	1.00	
2	1	2.874	1.000	.00	.00	.02
	2	.117	4.946	.02	.03	.96
	3	.009	18.125	.98	.97	.02
3	1	2.905	1.000	.00	.00	.02
	2	.977	1.724	.00	.00	.00
	3	.114	5.041	.01	.01	.97
	4	.003	28.891	.99	.99	.01

Collinearity Diagnostics^a

		Variance Proportions
Model	Dimension	S_con
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.38
	3	.01
	4	.60

a. Dependent Variable: AvgPL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00535625871 2709	.01835922338 0685	.01098901098 9011	.00190492218 9990
Std. Predicted Value	-2.957	3.869	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00455346191 3019	.46831756830 2155	.01593502306 7244	.04798422467 3658
Residual	- .00344479596 2423	.00649368576 7055	.00000000000 0000	.00221462079 5888
Std. Residual	-1.529	2.883	.000	.983
Stud. Residual	-2.994	2.900	-.030	1.050
Deleted Residual	- .45100408792 4957	.00656883837 6552	- .00494601207 8233	.04733529036 6200
Stud. Deleted Residual	-3.143	3.033	-.027	1.069
Mahal. Distance	.013	88.991	2.967	9.628
Cook's Distance	.000	10020.326	110.124	1050.415
Centered Leverage Value	.000	.989	.033	.107

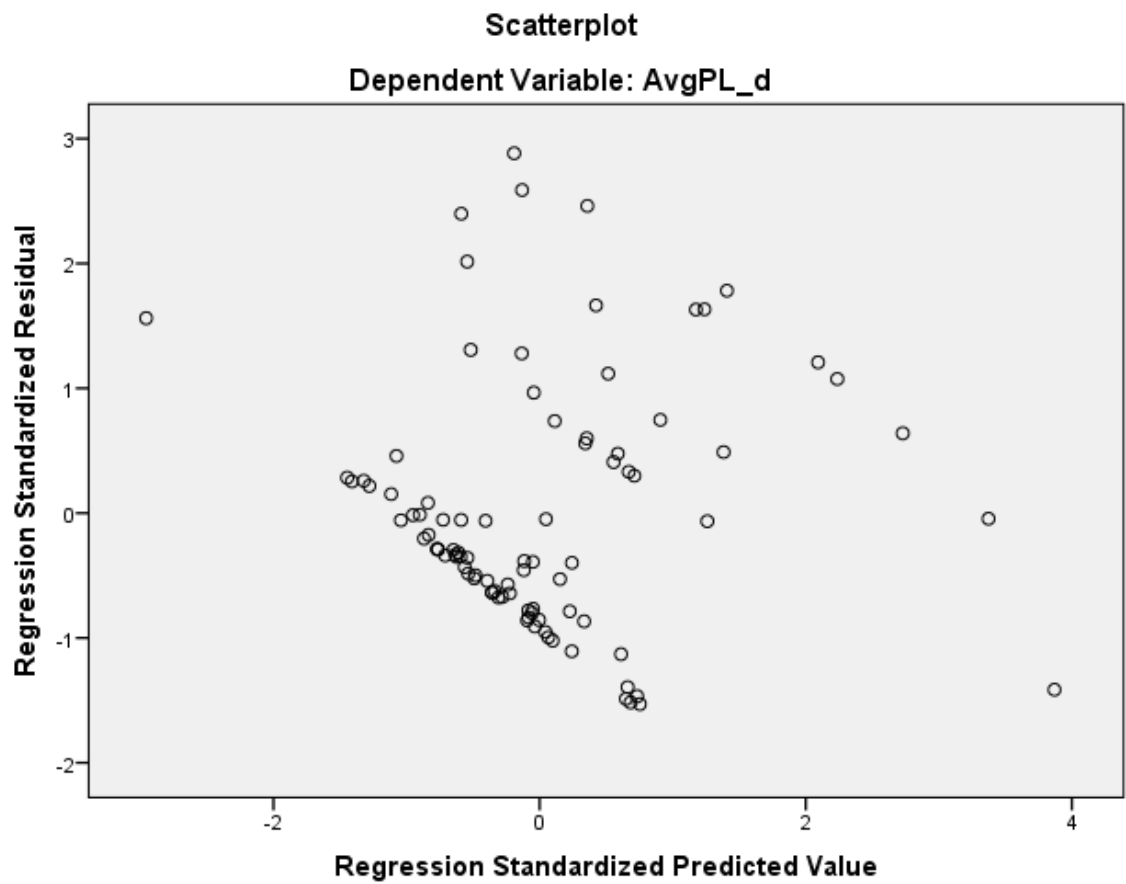
Residuals Statistics^a

	N
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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: 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

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:26:52
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 AvgGL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.21
	Memory Required	5344 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
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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).
3	S_con		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
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1	.513 ^a	.263	.255	.00251649091 5960
2	.600 ^b	.360	.346	.00235777692 0587
3	.655 ^c	.429	.409	.00224099719 1192

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, PL_TSpinN

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

d. Dependent Variable: AvgGL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	31.775	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	24.791	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			
3	Regression	.000	3	.000	21.765	.000 ^d
	Residual	.000	87	.000		

Total	.001	90			
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- a. Dependent Variable: AvgGL_d
- b. Predictors: (Constant), R_con
- c. Predictors: (Constant), R_con, PL_TSpinN
- d. Predictors: (Constant), R_con, PL_TSpinN, S_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-4.969E-5	.002		-.025	.980
	R_con	1.005	.178	.513	5.637	.000
2	(Constant)	.002	.002		1.013	.314
	R_con	1.007	.167	.514	6.029	.000
	PL_TSpinN	-.185	.050	-.312	-3.659	.000
3	(Constant)	-.005	.003		-1.754	.083
	R_con	1.651	.255	.843	6.473	.000
	PL_TSpinN	-.188	.048	-.318	-3.924	.000
	S_con	-.012	.004	-.420	-3.227	.002

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	1.000	1.000
	PL_TSpinN	1.000	1.000
3	(Constant)		
	R_con	.387	2.582
	PL_TSpinN	.999	1.001
	S_con	.387	2.582

a. Dependent Variable: AvgGL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.241 ^b	-2.735	.008	-.280	.998	1.002
	PL_TSpinN	-.312 ^b	-3.659	.000	-.363	1.000	1.000
	S_con	-.408 ^b	-2.906	.005	-.296	.387	2.581
2	PL_TpinN	.158 ^c	.868	.388	.093	.221	4.521

	S_con	-.420 ^c	-3.227	.002	-.327	.387	2.582
3	PL_TpinN	.081 ^d	.464	.644	.050	.217	4.612

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.998	
	PL_TSpinN	1.000	
	S_con	.387	
2	PL_TpinN	.221	
	S_con	.387	
3	PL_TpinN	.217	

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_con	PL_TSpinN
1	1	1.991	1.000	.00	.00	

	2	.009	14.914	1.00	1.00	
2	1	2.874	1.000	.00	.00	.02
	2	.117	4.946	.02	.03	.96
	3	.009	18.125	.98	.97	.02
3	1	2.905	1.000	.00	.00	.02
	2	.977	1.724	.00	.00	.00
	3	.114	5.041	.01	.01	.97
	4	.003	28.891	.99	.99	.01

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		S_con
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.38
	3	.01
	4	.60

a. Dependent Variable: AvgGL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00531692057 8480	.01835847087 2045	.01098901098 9011	.00190879959 6149
Std. Predicted Value	-2.972	3.861	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00449190801 0095	.45920512080 1926	.01583301420 5256	.04702992068 2567
Residual	- .00343349552 7133	.00660688383 5047	.00000000000 0000	.00220333069 0243
Std. Residual	-1.532	2.948	.000	.983
Stud. Residual	-2.947	2.965	-.030	1.050
Deleted Residual	- .44177842140 1978	.00668334634 9746	- .00484400321 6245	.04636902594 7308
Stud. Deleted Residual	-3.089	3.109	-.026	1.068
Mahal. Distance	.013	88.991	2.967	9.628
Cook's Distance	.000	9713.355	106.751	1018.235
Centered Leverage Value	.000	.989	.033	.107

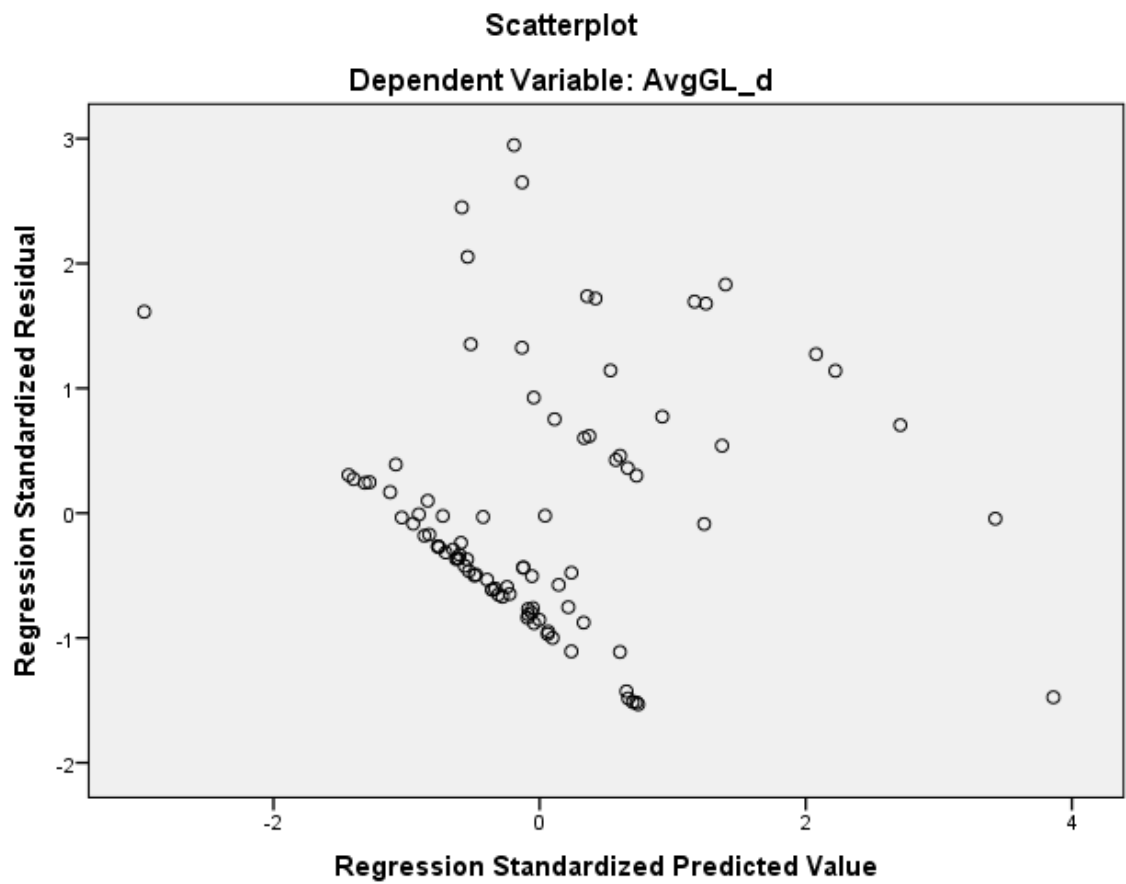
Residuals Statistics^a

	N
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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: AvgGL_d

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

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:27:35
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 GD_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.21
	Memory Required	5392 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	R_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: GD_d

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.541 ^a	.293	.285	.00344814373 0470

a. Predictors: (Constant), R_con

b. Dependent Variable: GD_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	36.487	.000 ^b
	Residual	.001	88	.000		

Total	.001	89			
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a. Dependent Variable: GD_d

b. Predictors: (Constant), R_con

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	-.014	.004		-3.417	.001
R_con	2.339	.387	.541	6.040	.000

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
R_con	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_TpinN	-.139 ^b	-1.558	.123	-.165	.991	1.009
	PL_TSpinN	-.130 ^b	-1.461	.148	-.155	1.000	1.000
	S_con	-.055 ^b	-.497	.621	-.053	.670	1.493

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.991	
	PL_TSpinN	1.000	
	S_con	.670	

a. Dependent Variable: GD_d

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	23.203	1.00	1.00

a. Dependent Variable: GD_d

Residuals Statistics^a

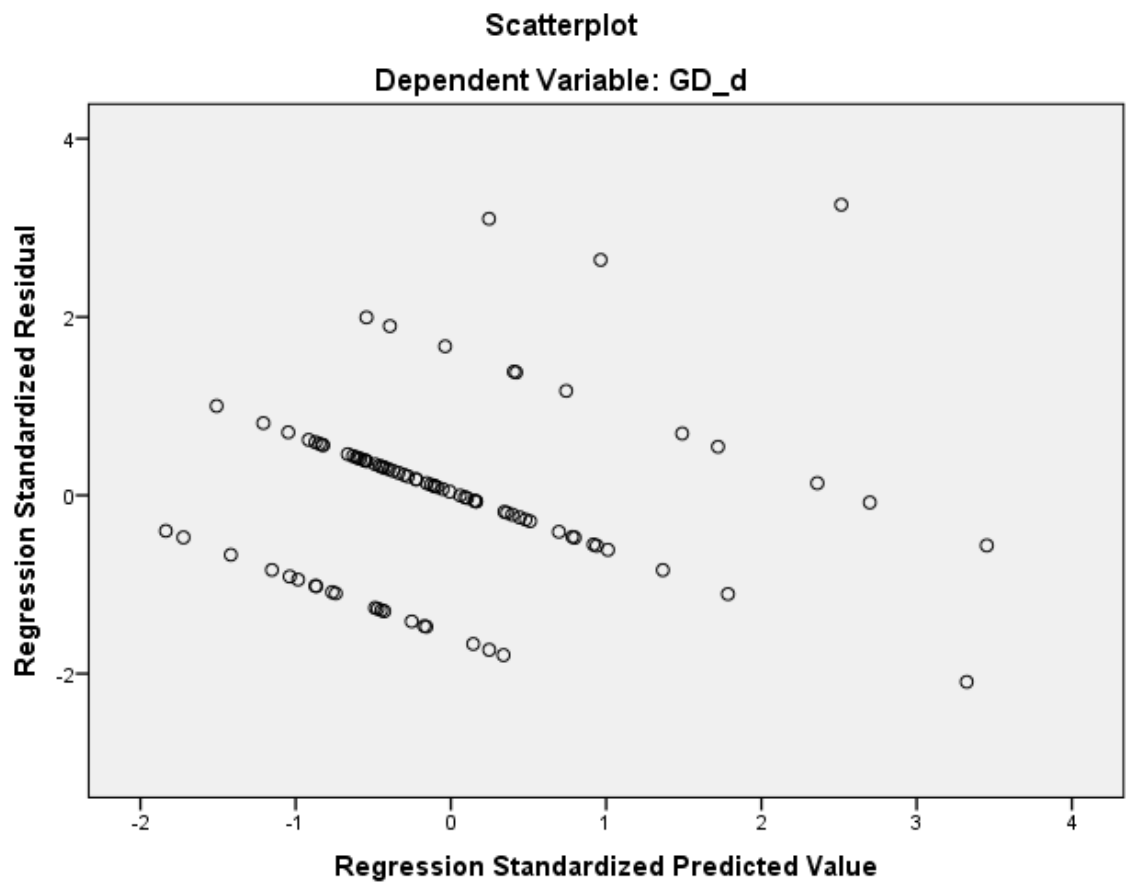
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00693311216 3097	.01860813610 2557	.01098765432 0988	.00220779152 1979
Std. Predicted Value	-1.836	3.452	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00700409943 2379	.01945048011 8394	.01099437292 0603	.00223983788 5222
Residual	- .00721225468 4418	.01123852841 5561	.00000000000 0000	.00342871741 4025
Std. Residual	-2.092	3.259	.000	.994
Stud. Residual	-2.249	3.402	-.001	1.011
Deleted Residual	- .00833936873 8234	.01224447973 0725	- .00000671859 9615	.00354446937 0469
Stud. Deleted Residual	-2.304	3.630	.004	1.033
Mahal. Distance	.000	11.914	.989	2.052
Cook's Distance	.000	.518	.017	.068
Centered Leverage Value	.000	.134	.011	.023

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: 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

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:27:52
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 Tpaths_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.21
	Memory Required	5424 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
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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_TSpinN		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
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1	.766 ^a	.587	.583	.00124625052 4742
2	.810 ^b	.656	.648	.00114440834 1811
3	.821 ^c	.673	.662	.00112163300 2093

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, R_con

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

d. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	125.261	.000 ^b
	Residual	.000	88	.000		
	Total	.000	89			
2	Regression	.000	2	.000	82.954	.000 ^c
	Residual	.000	87	.000		
	Total	.000	89			
3	Regression	.000	3	.000	59.094	.000 ^d
	Residual	.000	86	.000		

Total	.000	89			
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- a. Dependent Variable: Tpaths_d
- b. Predictors: (Constant), S_con
- c. Predictors: (Constant), S_con, R_con
- d. Predictors: (Constant), S_con, R_con, PL_TSpinN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		75.223	.000
	S_con	.817	.073	.766	11.192	.000
2	(Constant)	.003	.002		2.049	.043
	S_con	.621	.082	.582	7.580	.000
	R_con	.654	.157	.320	4.166	.000
3	(Constant)	.004	.002		2.301	.024
	S_con	.608	.080	.571	7.558	.000
	R_con	.673	.154	.329	4.367	.000
	PL_TSpinN	-.051	.024	-.132	-2.138	.035

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.670	1.493
	R_con	.670	1.493
3	(Constant)		
	S_con	.666	1.501
	R_con	.668	1.498
	PL_TSpinN	.994	1.006

a. Dependent Variable: Tpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.060 ^b	-.867	.388	-.093	.997	1.003
	PL_TSpinN	-.117 ^b	-1.719	.089	-.181	.998	1.002
	R_con	.320 ^b	4.166	.000	.408	.670	1.493
2	PL_TpinN	-.101 ^c	-1.600	.113	-.170	.975	1.026

	PL_TSpinN	-.132 ^c	-2.138	.035	-.225	.994	1.006
3	PL_TpinN	.078 ^d	.579	.564	.063	.213	4.694

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.997	
	PL_TSpinN	.998	
	R_con	.670	
2	PL_TpinN	.655	
	PL_TSpinN	.666	
3	PL_TpinN	.213	

- a. Dependent Variable: Tpaths_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_TSpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	R_con
1	1	1.323	1.000	.34	.34	

	2	.677	1.397	.66	.66	
2	1	2.196	1.000	.00	.04	.00
	2	.802	1.655	.00	.64	.00
	3	.003	29.499	1.00	.32	1.00
3	1	3.033	1.000	.00	.01	.00
	2	.851	1.888	.00	.65	.00
	3	.113	5.173	.01	.02	.01
	4	.003	34.679	.99	.32	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TSpinN
1	1	
	2	
2	1	
	2	
	3	
3	1	.02
	2	.01
	3	.98
	4	.00

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00873790588 2299	.02074721269 3095	.01094089079 9118	.00158302686 9693
Std. Predicted Value	-1.392	6.195	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00862911995 5003	.02305979840 4574	.01096834866 9489	.00175431206 9344
Residual	- .00182568351 7382	.00503250723 7047	.00000000000 0000	.00110256702 9525
Std. Residual	-1.628	4.487	.000	.983
Stud. Residual	-2.451	4.513	-.010	1.018
Deleted Residual	- .00413826853 0369	.00509237684 3095	- .00002745787 0371	.00120684900 8610
Stud. Deleted Residual	-2.526	5.136	.004	1.074
Mahal. Distance	.005	48.747	2.967	6.511
Cook's Distance	.000	1.902	.030	.201
Centered Leverage Value	.000	.548	.033	.073

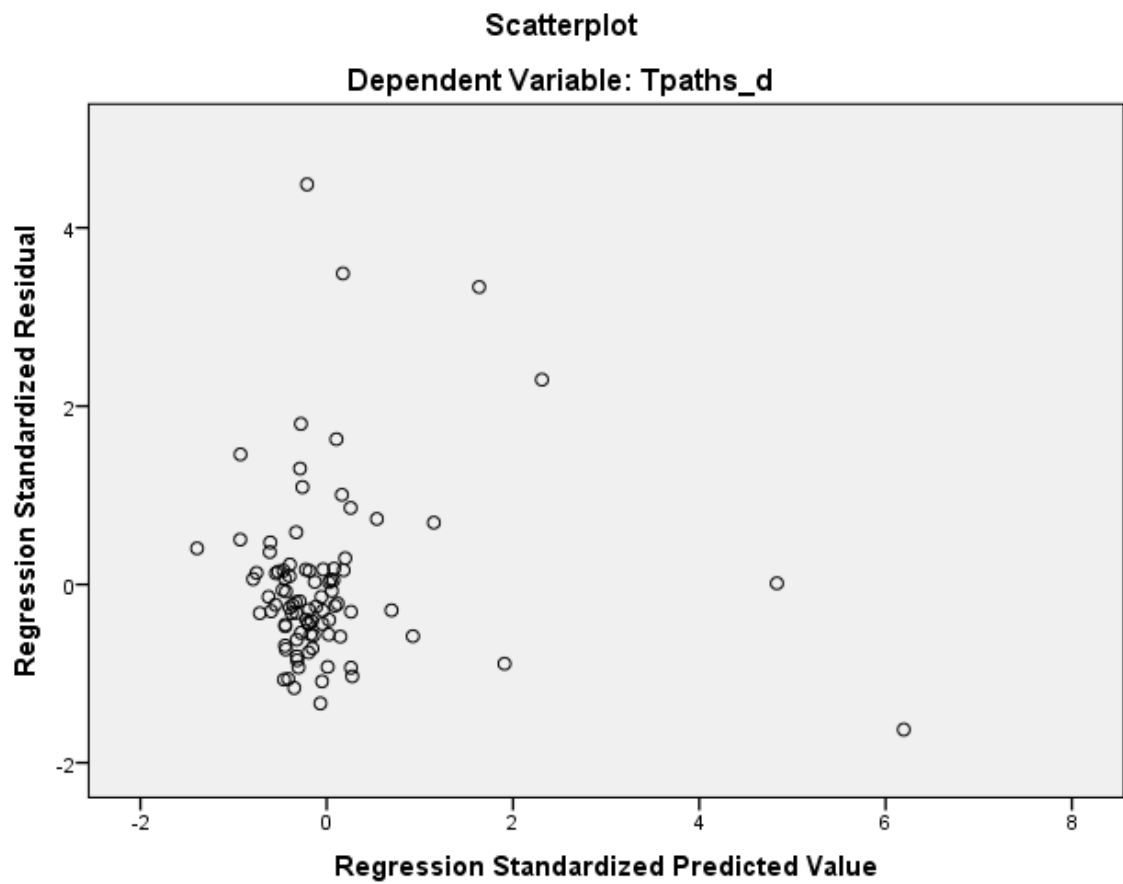
Residuals Statistics^a

	N
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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 TSpaths_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:28:51
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 TSpats_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.21
	Memory Required	5472 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	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_TSpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: TSpats_d

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
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1	.765 ^a	.585	.580	.00124967765 3558
2	.808 ^b	.653	.646	.00114830947 6299
3	.819 ^c	.671	.660	.00112505886 2493

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, R_con

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

d. Dependent Variable: TSpats_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	123.995	.000 ^b
	Residual	.000	88	.000		
	Total	.000	89			
2	Regression	.000	2	.000	82.037	.000 ^c
	Residual	.000	87	.000		
	Total	.000	89			
3	Regression	.000	3	.000	58.520	.000 ^d
	Residual	.000	86	.000		

Total	.000	89			
-------	------	----	--	--	--

a. Dependent Variable: TSpaths_d

b. Predictors: (Constant), S_con

c. Predictors: (Constant), S_con, R_con

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

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		75.023	.000
	S_con	.815	.073	.765	11.135	.000
2	(Constant)	.003	.002		2.045	.044
	S_con	.619	.082	.581	7.533	.000
	R_con	.654	.158	.320	4.150	.000
3	(Constant)	.004	.002		2.299	.024
	S_con	.606	.081	.569	7.511	.000
	R_con	.673	.155	.329	4.353	.000
	PL_TSpinN	-.052	.024	-.133	-2.152	.034

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.670	1.493
	R_con	.670	1.493
3	(Constant)		
	S_con	.666	1.501
	R_con	.668	1.498
	PL_TSpinN	.994	1.006

a. Dependent Variable: TSpats_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.061 ^b	-.888	.377	-.095	.997	1.003
	PL_TSpinN	-.118 ^b	-1.735	.086	-.183	.998	1.002
	R_con	.320 ^b	4.150	.000	.407	.670	1.493
2	PL_TpinN	-.103 ^c	-1.620	.109	-.172	.975	1.026

	PL_TSpinN	-.133 ^c	-2.152	.034	-.226	.994	1.006
3	PL_TpinN	.076 ^d	.564	.574	.061	.213	4.694

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.997	
	PL_TSpinN	.998	
	R_con	.670	
2	PL_TpinN	.655	
	PL_TSpinN	.666	
3	PL_TpinN	.213	

a. Dependent Variable: TSpats_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_TSpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	R_con
1	1	1.323	1.000	.34	.34	

	2	.677	1.397	.66	.66	
2	1	2.196	1.000	.00	.04	.00
	2	.802	1.655	.00	.64	.00
	3	.003	29.499	1.00	.32	1.00
3	1	3.033	1.000	.00	.01	.00
	2	.851	1.888	.00	.65	.00
	3	.113	5.173	.01	.02	.01
	4	.003	34.679	.99	.32	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TSpinN
1	1	
	2	
2	1	
	2	
	3	
3	1	.02
	2	.01
	3	.98
	4	.00

a. Dependent Variable: TSpats_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00872972328 2158	.02072291448 7123	.01094063968 4532	.00158012906 3426
Std. Predicted Value	-1.399	6.191	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00861572474 2413	.02296952903 2707	.01096718392 3996	.00174554993 7026
Residual	- .00177360267 8441	.00505464104 9355	.00000000000 0000	.00110593465 5761
Std. Residual	-1.576	4.493	.000	.983
Stud. Residual	-2.373	4.519	-.009	1.017
Deleted Residual	- .00402021734 0440	.00511477375 4030	- .00002654423 9464	.00120688385 3392
Stud. Deleted Residual	-2.441	5.145	.004	1.074
Mahal. Distance	.005	48.747	2.967	6.511
Cook's Distance	.000	1.784	.029	.189
Centered Leverage Value	.000	.548	.033	.073

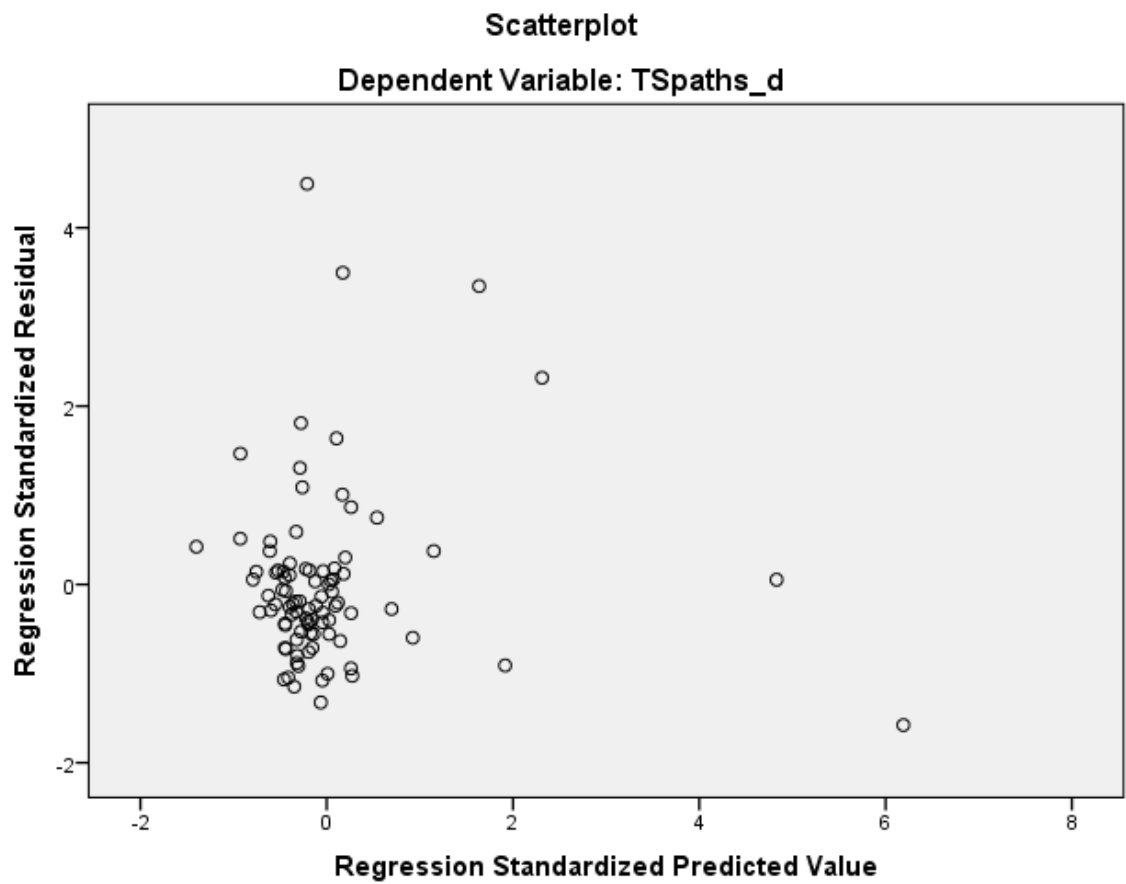
Residuals Statistics^a

	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: TSpats_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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:29:15	
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 AvgPL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.24
	Memory Required	5504 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
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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).
3	S_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgPL_d

Model Summary^d

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

1	.542 ^a	.294	.286	.00241667437 4852
2	.630 ^b	.397	.383	.00224644411 8326
3	.675 ^c	.456	.437	.00214568317 9605

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, PL_TSpinN

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

d. Dependent Variable: AvgPL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	36.574	.000 ^b
	Residual	.001	88	.000		
	Total	.001	89			
2	Regression	.000	2	.000	28.585	.000 ^c
	Residual	.000	87	.000		
	Total	.001	89			
3	Regression	.000	3	.000	24.009	.000 ^d
	Residual	.000	86	.000		

Total	.001	89			
-------	------	----	--	--	--

- a. Dependent Variable: AvgPL_d
- b. Predictors: (Constant), R_con
- c. Predictors: (Constant), R_con, PL_TSpinN
- d. Predictors: (Constant), R_con, PL_TSpinN, S_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.007	.003		-2.337	.022
	R_con	1.642	.271	.542	6.048	.000
2	(Constant)	-.005	.003		-1.821	.072
	R_con	1.660	.252	.548	6.578	.000
	PL_TSpinN	-.185	.048	-.321	-3.853	.000
3	(Constant)	.000	.003		.053	.958
	R_con	1.140	.295	.376	3.864	.000
	PL_TSpinN	-.175	.046	-.303	-3.800	.000
	S_con	.471	.154	.298	3.060	.003

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	1.000	1.000
	PL_TSpinN	1.000	1.000
3	(Constant)		
	R_con	.668	1.498
	PL_TSpinN	.994	1.006
	S_con	.666	1.501

a. Dependent Variable: AvgPL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.266 ^b	-3.093	.003	-.315	.991	1.009
	PL_TSpinN	-.321 ^b	-3.853	.000	-.382	1.000	1.000
	S_con	.325 ^b	3.114	.003	.317	.670	1.493
2	PL_TpinN	.087 ^c	.487	.628	.052	.217	4.606

	S_con	.298 ^c	3.060	.003	.313	.666	1.501
3	PL_TpinN	.162 ^d	.939	.350	.101	.213	4.694

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.991	
	PL_TSpinN	1.000	
	S_con	.670	
2	PL_TpinN	.217	
	S_con	.666	
3	PL_TpinN	.213	

a. Dependent Variable: AvgPL_d

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

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

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

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	23.203	1.00	1.00	
2	1	2.880	1.000	.00	.00	.02
	2	.116	4.973	.01	.01	.98
	3	.004	27.954	.99	.99	.01
3	1	3.033	1.000	.00	.00	.02
	2	.851	1.888	.00	.00	.01
	3	.113	5.173	.01	.01	.98
	4	.003	34.679	.99	.99	.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		S_con
1	1	
	2	
2	1	
	2	
	3	
3	1	.01
	2	.65
	3	.02
	4	.32

a. Dependent Variable: AvgPL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00594537192 9556	.02061457559 4664	.01091873918 5103	.00193027664 6398
Std. Predicted Value	-2.577	5.023	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00524292699 9927	.02439862117 1713	.01095589089 3303	.00221030656 0510
Residual	- .00321682263 1657	.00613532494 7536	.00000000000 0000	.00210920998 6889
Std. Residual	-1.499	2.859	.000	.983
Stud. Residual	-2.096	2.880	-.007	1.016
Deleted Residual	- .00677138334 1402	.00622411305 0848	- .00003715170 8201	.00228753996 9055
Stud. Deleted Residual	-2.139	3.012	.000	1.032
Mahal. Distance	.005	48.747	2.967	6.511
Cook's Distance	.000	1.391	.026	.147
Centered Leverage Value	.000	.548	.033	.073

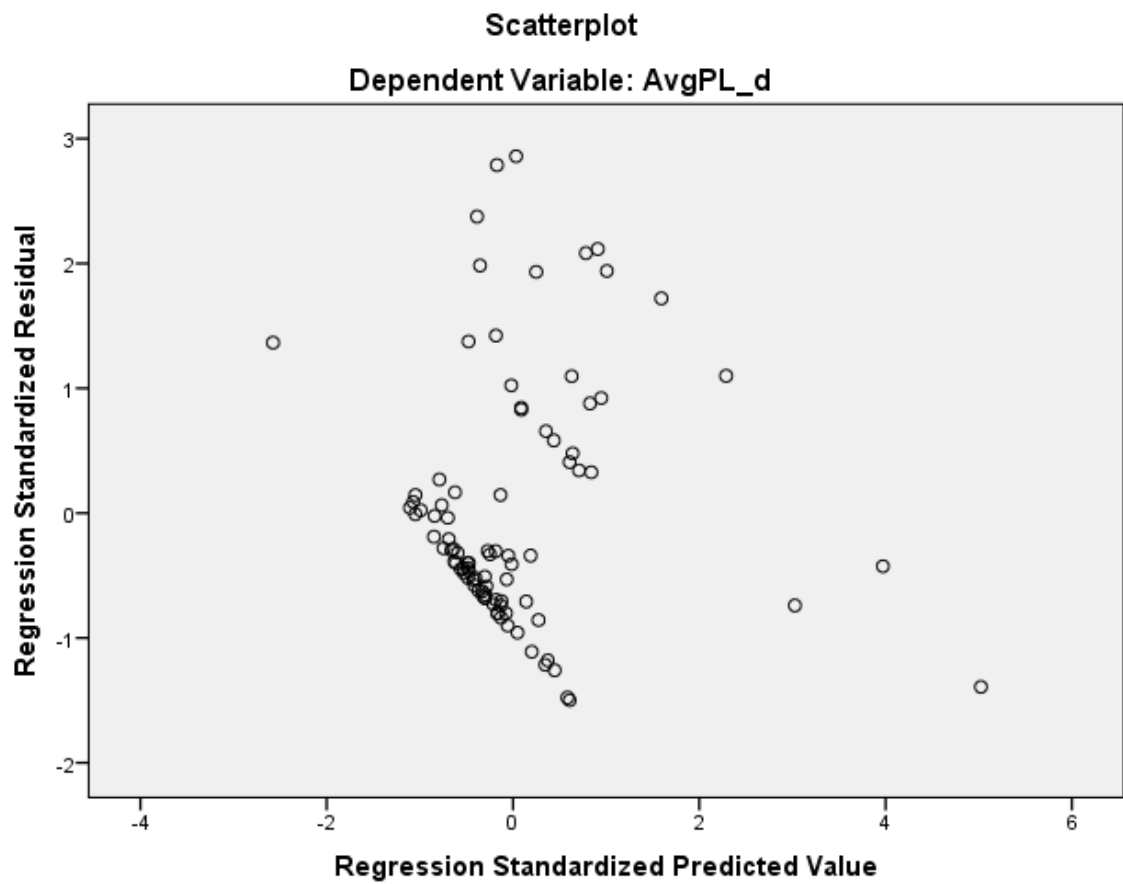
Residuals Statistics^a

	N
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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: 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

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:29:37	
Comments		
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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_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.22
	Memory Required	5552 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
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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).
3	S_con		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
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1	.540 ^a	.292	.284	.00241168300 7904
2	.631 ^b	.399	.385	.00223516146 0192
3	.675 ^c	.456	.437	.00213849626 3678

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, PL_TSpinN

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

d. Dependent Variable: AvgGL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	36.296	.000 ^b
	Residual	.001	88	.000		
	Total	.001	89			
2	Regression	.000	2	.000	28.852	.000 ^c
	Residual	.000	87	.000		
	Total	.001	89			
3	Regression	.000	3	.000	24.027	.000 ^d
	Residual	.000	86	.000		

Total	.001	89			
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- a. Dependent Variable: AvgGL_d
- b. Predictors: (Constant), R_con
- c. Predictors: (Constant), R_con, PL_TSpinN
- d. Predictors: (Constant), R_con, PL_TSpinN, S_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.007	.003		-2.307	.023
	R_con	1.632	.271	.540	6.025	.000
2	(Constant)	-.005	.003		-1.783	.078
	R_con	1.651	.251	.547	6.574	.000
	PL_TSpinN	-.188	.048	-.327	-3.930	.000
3	(Constant)	.000	.003		.060	.952
	R_con	1.141	.294	.378	3.882	.000
	PL_TSpinN	-.178	.046	-.309	-3.878	.000
	S_con	.461	.153	.293	3.007	.003

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	1.000	1.000
	PL_TSpinN	1.000	1.000
3	(Constant)		
	R_con	.668	1.498
	PL_TSpinN	.994	1.006
	S_con	.666	1.501

a. Dependent Variable: AvgGL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.272 ^b	-3.167	.002	-.322	.991	1.009
	PL_TSpinN	-.327 ^b	-3.930	.000	-.388	1.000	1.000
	S_con	.321 ^b	3.061	.003	.312	.670	1.493
2	PL_TpinN	.083 ^c	.466	.643	.050	.217	4.606

	S_con	.293 ^c	3.007	.003	.308	.666	1.501
3	PL_TpinN	.157 ^d	.909	.366	.098	.213	4.694

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.991	
	PL_TSpinN	1.000	
	S_con	.670	
2	PL_TpinN	.217	
	S_con	.666	
3	PL_TpinN	.213	

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

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	23.203	1.00	1.00	
2	1	2.880	1.000	.00	.00	.02
	2	.116	4.973	.01	.01	.98
	3	.004	27.954	.99	.99	.01
3	1	3.033	1.000	.00	.00	.02
	2	.851	1.888	.00	.00	.01
	3	.113	5.173	.01	.01	.98
	4	.003	34.679	.99	.99	.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		S_con
1	1	
	2	
2	1	
	2	
	3	
3	1	.01
	2	.65
	3	.02
	4	.32

a. Dependent Variable: AvgGL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00589398294 6873	.02049975655 9730	.01091748114 9228	.00192453058 9618
Std. Predicted Value	-2.610	4.979	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00516530126 3332	.02399235591 2924	.01095062668 0867	.00218209892 2165
Residual	- .00319598708 3018	.00625585345 5514	.00000000000 0000	.00210214523 7073
Std. Residual	-1.495	2.925	.000	.983
Stud. Residual	-1.941	2.946	-.006	1.014
Deleted Residual	- .00624985201 2843	.00634638592 6008	- .00003314553 1639	.00226803543 9166
Stud. Deleted Residual	-1.974	3.089	.001	1.031
Mahal. Distance	.005	48.747	2.967	6.511
Cook's Distance	.000	1.193	.024	.127
Centered Leverage Value	.000	.548	.033	.073

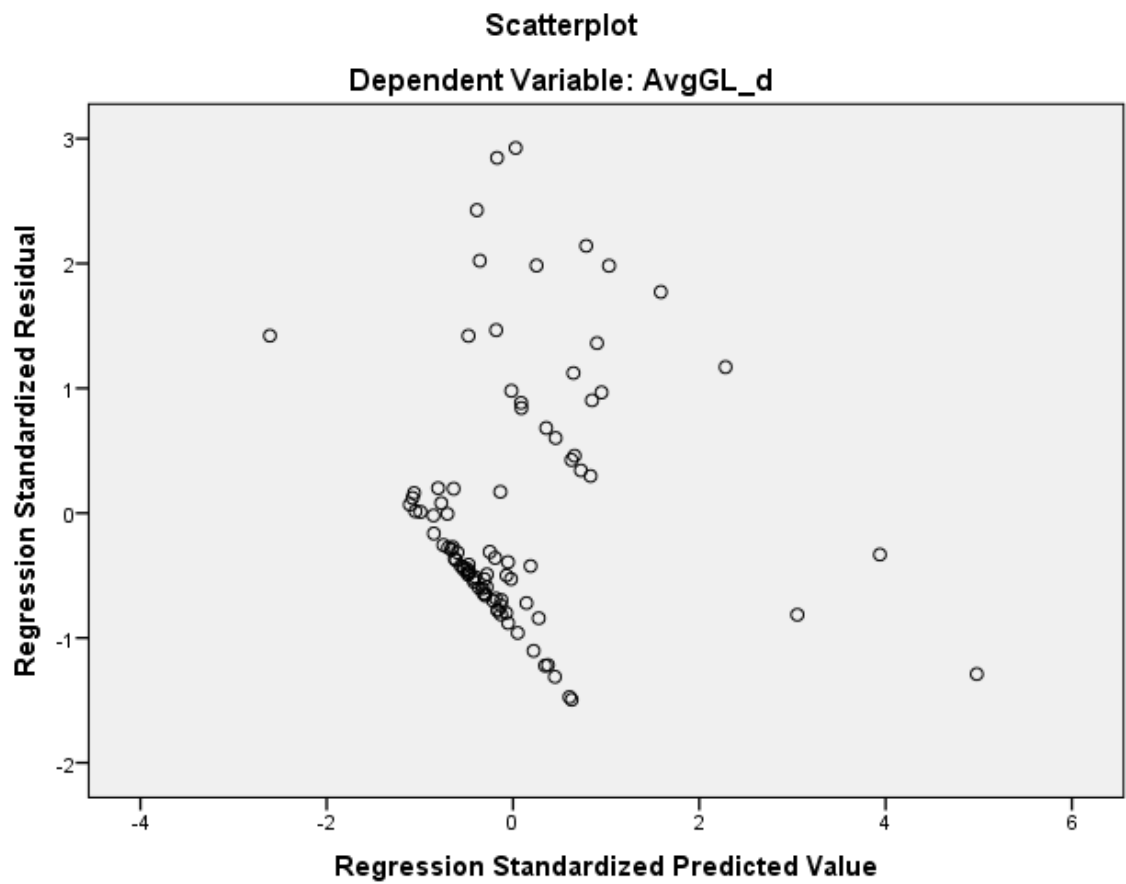
Residuals Statistics^a

	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 Tpaths_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:30:33
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 Tpaths_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.21
	Memory Required	5584 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
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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_TSpinN		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	.729 ^a	.531	.525	.00119956414 5634
2	.776 ^b	.602	.593	.00111067082 6839
3	.789 ^c	.623	.610	.00108810705 5457

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, R_con

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

d. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	98.425	.000 ^b
	Residual	.000	87	.000		
	Total	.000	88			
2	Regression	.000	2	.000	65.147	.000 ^c
	Residual	.000	86	.000		
	Total	.000	88			
3	Regression	.000	3	.000	46.786	.000 ^d
	Residual	.000	85	.000		

Total	.000	88			
-------	------	----	--	--	--

- a. Dependent Variable: Tpaths_d
- b. Predictors: (Constant), S_con
- c. Predictors: (Constant), S_con, R_con
- d. Predictors: (Constant), S_con, R_con, PL_TSpinN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		75.991	.000
	S_con	1.035	.104	.729	9.921	.000
2	(Constant)	.004	.002		2.381	.019
	S_con	.817	.111	.575	7.345	.000
	R_con	.605	.154	.308	3.935	.000
3	(Constant)	.004	.002		2.634	.010
	S_con	.801	.109	.564	7.335	.000
	R_con	.624	.151	.318	4.138	.000
	PL_TSpinN	-.050	.023	-.143	-2.146	.035

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.753	1.328
	R_con	.753	1.328
3	(Constant)		
	S_con	.750	1.334
	R_con	.751	1.332
	PL_TSpinN	.994	1.006

a. Dependent Variable: Tpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.066 ^b	-.890	.376	-.096	.999	1.001
	PL_TSpinN	-.127 ^b	-1.745	.085	-.185	.998	1.002
	R_con	.308 ^b	3.935	.000	.391	.753	1.328
2	PL_TpinN	-.108 ^c	-1.589	.116	-.170	.976	1.025

	PL_TSpinN	-.143 ^c	-2.146	.035	-.227	.994	1.006
3	PL_TpinN	.089 ^d	.616	.540	.067	.213	4.688

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.999	
	PL_TSpinN	.998	
	R_con	.753	
2	PL_TpinN	.736	
	PL_TSpinN	.750	
3	PL_TpinN	.213	

- a. Dependent Variable: Tpaths_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_TSpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	R_con
1	1	1.361	1.000	.32	.32	

	2	.639	1.460	.68	.68	
2	1	2.231	1.000	.00	.05	.00
	2	.767	1.706	.00	.72	.00
	3	.003	29.721	1.00	.24	1.00
3	1	3.066	1.000	.00	.02	.00
	2	.818	1.936	.00	.73	.00
	3	.114	5.182	.01	.02	.01
	4	.003	34.848	.99	.23	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TSpinN
1	1	
	2	
2	1	
	2	
	3	
3	1	.02
	2	.01
	3	.97
	4	.00

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00875539518 8928	.02037356607 6159	.01085122070 5966	.00137419666 2227
Std. Predicted Value	-1.525	6.929	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00865077599 8831	.02578519470 9897	.01091190584 5035	.00183745198 7854
Residual	- .00176849507 2611	.00506426952 7793	.00000000000 0000	.00106939894 9450
Std. Residual	-1.625	4.654	.000	.983
Stud. Residual	-3.275	4.682	-.018	1.046
Deleted Residual	- .00718012358 9933	.00512520922 3479	- .00006068513 9069	.00133475095 7392
Stud. Deleted Residual	-3.483	5.403	-.006	1.110
Mahal. Distance	.005	65.336	2.966	7.487
Cook's Distance	.000	8.205	.102	.869
Centered Leverage Value	.000	.742	.034	.085

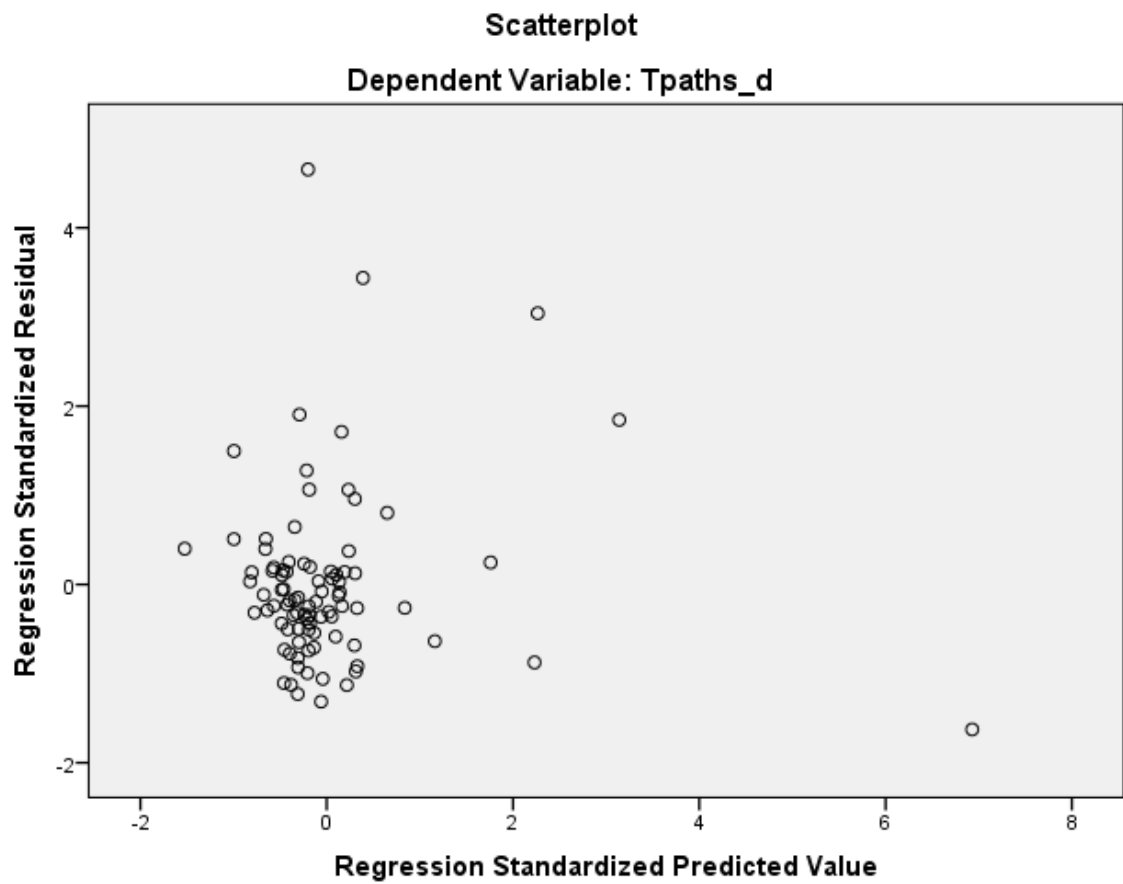
Residuals Statistics^a

	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: Tpaths_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

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

/NOORIGIN

/DEPENDENT TSpahs_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:30:58	
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 TSpats_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.23
	Memory Required	5632 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
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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_TSpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: TSpats_d

Model Summary^d

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

1	.725 ^a	.525	.519	.00120564470 5106
2	.773 ^b	.597	.588	.00111697826 0999
3	.786 ^c	.618	.604	.00109396672 5633

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, R_con

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

d. Dependent Variable: TSpats_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	96.142	.000 ^b
	Residual	.000	87	.000		
	Total	.000	88			
2	Regression	.000	2	.000	63.686	.000 ^c
	Residual	.000	86	.000		
	Total	.000	88			
3	Regression	.000	3	.000	45.814	.000 ^d
	Residual	.000	85	.000		

Total	.000	88			
-------	------	----	--	--	--

a. Dependent Variable: TSpaths_d

b. Predictors: (Constant), S_con

c. Predictors: (Constant), S_con, R_con

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

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		75.628	.000
	S_con	1.028	.105	.725	9.805	.000
2	(Constant)	.004	.002		2.363	.020
	S_con	.810	.112	.571	7.239	.000
	R_con	.606	.155	.309	3.919	.000
3	(Constant)	.004	.002		2.618	.010
	S_con	.794	.110	.560	7.228	.000
	R_con	.625	.152	.319	4.124	.000
	PL_TSpinN	-.051	.023	-.145	-2.158	.034

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.753	1.328
	R_con	.753	1.328
3	(Constant)		
	S_con	.750	1.334
	R_con	.751	1.332
	PL_TSpinN	.994	1.006

a. Dependent Variable: TSpats_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.067 ^b	-.910	.366	-.098	.999	1.001
	PL_TSpinN	-.128 ^b	-1.757	.082	-.186	.998	1.002
	R_con	.309 ^b	3.919	.000	.389	.753	1.328
2	PL_TpinN	-.110 ^c	-1.608	.112	-.172	.976	1.025

	PL_TSpinN	-.145 ^c	-2.158	.034	-.228	.994	1.006
3	PL_TpinN	.087 ^d	.598	.551	.065	.213	4.688

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.999	
	PL_TSpinN	.998	
	R_con	.753	
2	PL_TpinN	.736	
	PL_TSpinN	.750	
3	PL_TpinN	.213	

a. Dependent Variable: TSpats_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_TSpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	R_con
1	1	1.361	1.000	.32	.32	

	2	.639	1.460	.68	.68	
2	1	2.231	1.000	.00	.05	.00
	2	.767	1.706	.00	.72	.00
	3	.003	29.721	1.00	.24	1.00
3	1	3.066	1.000	.00	.02	.00
	2	.818	1.936	.00	.73	.00
	3	.114	5.182	.01	.02	.01
	4	.003	34.848	.99	.23	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TSpinN
1	1	
	2	
2	1	
	2	
	3	
3	1	.02
	2	.01
	3	.97
	4	.00

a. Dependent Variable: TSpats_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00874671433 1210	.02030409500 0029	.01085065461 0421	.00136717478 3111
Std. Predicted Value	-1.539	6.915	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00863676145 6728	.02541915513 5751	.01090818260 5072	.00180328284 2225
Residual	- .00167157803 6621	.00508549716 3236	.00000000000 0000	.00107515787 2802
Std. Residual	-1.528	4.649	.000	.983
Stud. Residual	-3.079	4.677	-.017	1.041
Deleted Residual	- .00678663840 5174	.00514669250 6969	- .00005752799 4651	.00131826846 3985
Stud. Deleted Residual	-3.247	5.394	-.005	1.103
Mahal. Distance	.005	65.336	2.966	7.487
Cook's Distance	.000	7.252	.092	.768
Centered Leverage Value	.000	.742	.034	.085

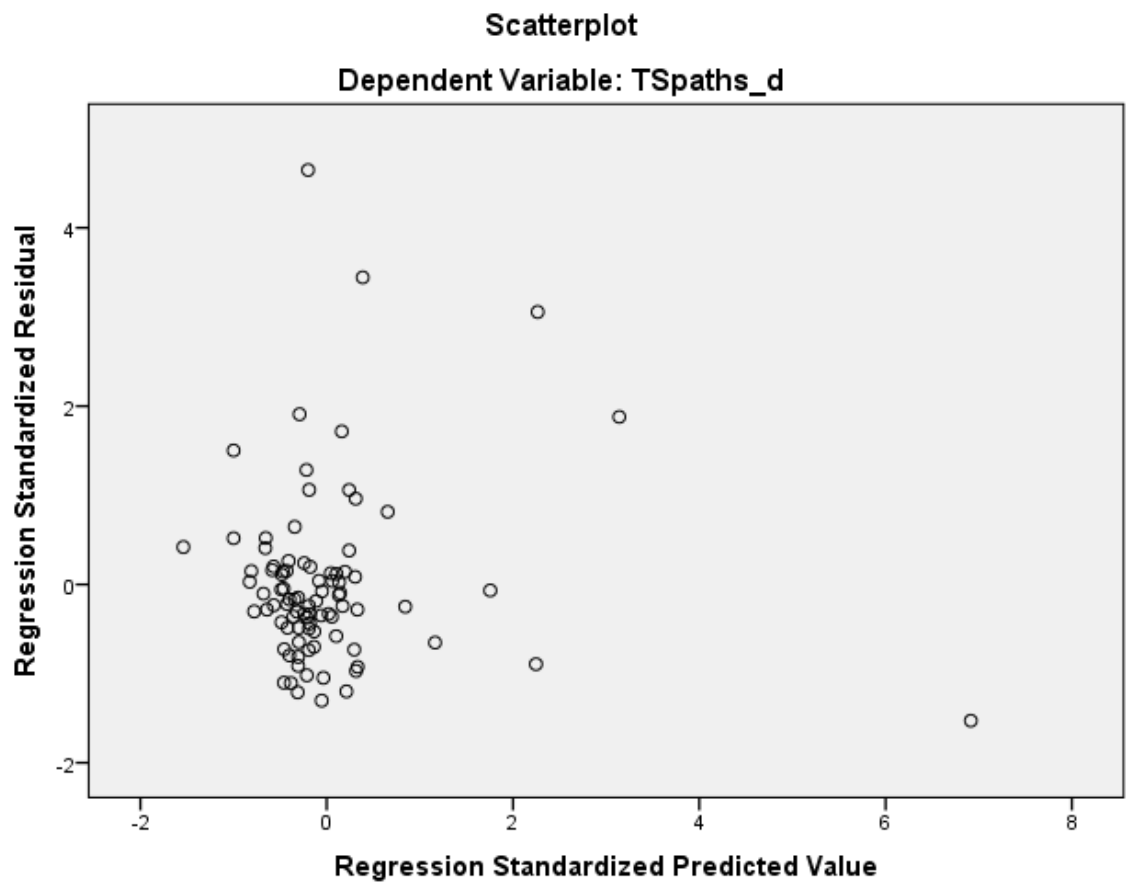
Residuals Statistics^a

	N
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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: TSpats_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

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:31:16
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 AvgPL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.30
	Memory Required	5664 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	S_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).
3	R_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgPL_d

Model Summary^d

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

1	.528 ^a	.279	.270	.00237795175 8847
2	.603 ^b	.364	.349	.00224674150 2603
3	.670 ^c	.449	.430	.00210241272 4351

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, PL_TSpinN

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

d. Dependent Variable: AvgPL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	33.616	.000 ^b
	Residual	.000	87	.000		
	Total	.001	88			
2	Regression	.000	2	.000	24.558	.000 ^c
	Residual	.000	86	.000		
	Total	.001	88			
3	Regression	.000	3	.000	23.101	.000 ^d
	Residual	.000	85	.000		

Total	.001	88			
-------	------	----	--	--	--

- a. Dependent Variable: AvgPL_d
- b. Predictors: (Constant), S_con
- c. Predictors: (Constant), S_con, PL_TSpinN
- d. Predictors: (Constant), S_con, PL_TSpinN, R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		38.018	.000
	S_con	1.199	.207	.528	5.798	.000
2	(Constant)	.012	.001		20.410	.000
	S_con	1.169	.195	.515	5.982	.000
	PL_TSpinN	-.163	.048	-.291	-3.385	.001
3	(Constant)	.001	.003		.287	.775
	S_con	.787	.211	.347	3.728	.000
	PL_TSpinN	-.173	.045	-.309	-3.829	.000
	R_con	1.059	.291	.338	3.635	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.998	1.002
	PL_TSpinN	.998	1.002
3	(Constant)		
	S_con	.750	1.334
	PL_TSpinN	.994	1.006
	R_con	.751	1.332

a. Dependent Variable: AvgPL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.192 ^b	-2.147	.035	-.226	.999	1.001
	PL_TSpinN	-.291 ^b	-3.385	.001	-.343	.998	1.002
	R_con	.316 ^b	3.169	.002	.323	.753	1.328
2	PL_TpinN	.292 ^c	1.616	.110	.173	.223	4.485

	R_con	.338 ^c	3.635	.000	.367	.751	1.332
3	PL_TpinN	.170 ^d	.975	.332	.106	.213	4.688

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.999	
	PL_TSpinN	.998	
	R_con	.753	
2	PL_TpinN	.223	
	R_con	.750	
3	PL_TpinN	.213	

a. Dependent Variable: AvgPL_d

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

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	PL_TSpinN
1	1	1.361	1.000	.32	.32	

	2	.639	1.460	.68	.68	
2	1	2.116	1.000	.03	.06	.03
	2	.798	1.628	.01	.92	.02
	3	.086	4.947	.95	.02	.95
3	1	3.066	1.000	.00	.02	.02
	2	.818	1.936	.00	.73	.01
	3	.114	5.182	.01	.02	.97
	4	.003	34.848	.99	.23	.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: AvgPL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00597399007 5290	.02150102704 7634	.01084336278 9210	.00186574968 6230
Std. Predicted Value	-2.610	5.712	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00527822598 8150	.03322133794 4269	.01096213859 8700	.00281630061 8587
Residual	- .00383014301 7694	.00603406224 3998	.00000000000 0000	.00206626539 8663
Std. Residual	-1.822	2.870	.000	.983
Stud. Residual	-3.671	2.887	-.018	1.058
Deleted Residual	- .01555045414 7160	.00610667187 7205	- .00011877580 9489	.00268335752 6071
Stud. Deleted Residual	-3.978	3.022	-.014	1.086
Mahal. Distance	.005	65.336	2.966	7.487
Cook's Distance	.000	10.308	.126	1.092
Centered Leverage Value	.000	.742	.034	.085

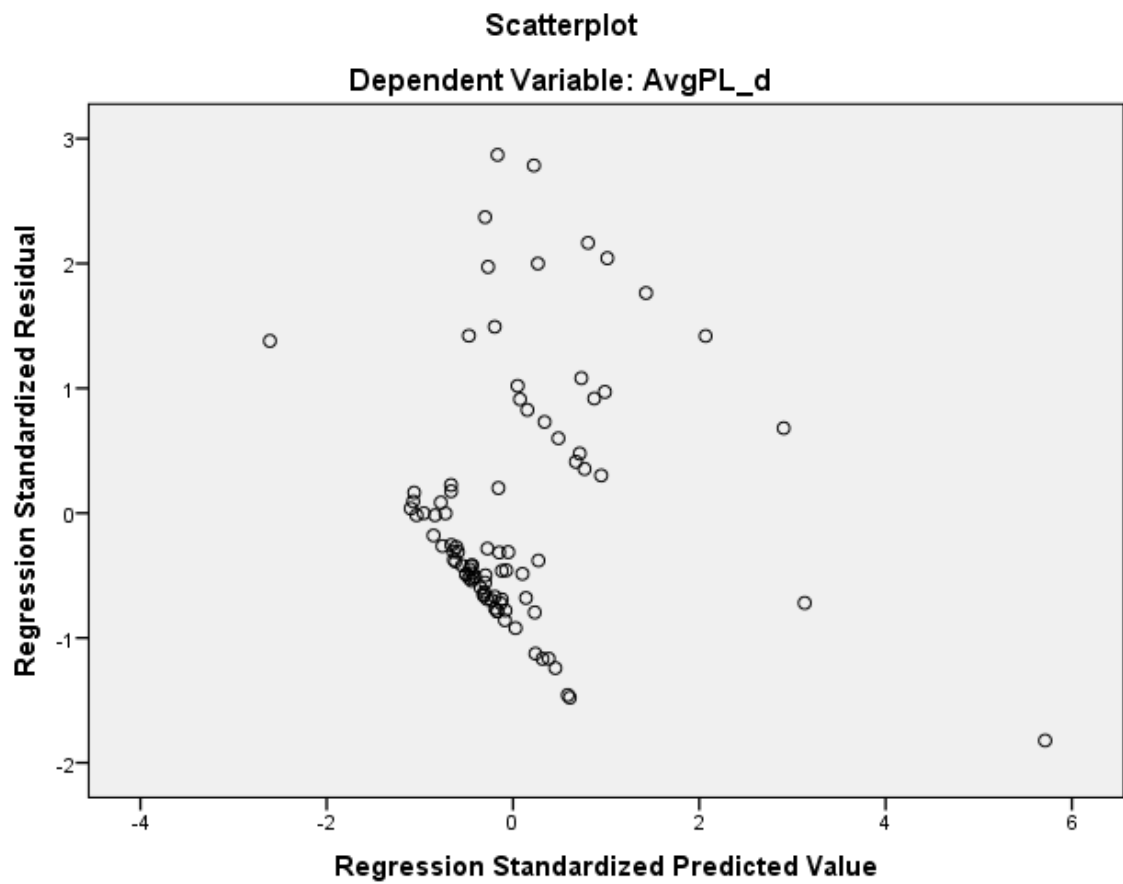
Residuals Statistics^a

	N
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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 AvgGL_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:31:34
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 AvgGL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.18
	Memory Required	5712 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_15	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	PL_TSpinN		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).

a. Dependent Variable: AvgGL_d

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
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1	.517 ^a	.267	.259	.00238616896 1388
2	.597 ^b	.356	.341	.00224979450 5612
3	.666 ^c	.444	.424	.00210338628 8529

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, PL_TSpinN

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

d. Dependent Variable: AvgGL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	31.695	.000 ^b
	Residual	.000	87	.000		
	Total	.001	88			
2	Regression	.000	2	.000	23.761	.000 ^c
	Residual	.000	86	.000		
	Total	.001	88			
3	Regression	.000	3	.000	22.585	.000 ^d
	Residual	.000	85	.000		

Total	.001	88			
-------	------	----	--	--	--

- a. Dependent Variable: AvgGL_d
- b. Predictors: (Constant), S_con
- c. Predictors: (Constant), S_con, PL_TSpinN
- d. Predictors: (Constant), S_con, PL_TSpinN, R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		37.932	.000
	S_con	1.168	.207	.517	5.630	.000
2	(Constant)	.012	.001		20.461	.000
	S_con	1.138	.196	.504	5.814	.000
	PL_TSpinN	-.166	.048	-.298	-3.445	.001
3	(Constant)	.001	.003		.277	.783
	S_con	.753	.211	.333	3.565	.001
	PL_TSpinN	-.176	.045	-.316	-3.897	.000
	R_con	1.067	.292	.342	3.659	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.998	1.002
	PL_TSpinN	.998	1.002
3	(Constant)		
	S_con	.750	1.334
	PL_TSpinN	.994	1.006
	R_con	.751	1.332

a. Dependent Variable: AvgGL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.199 ^b	-2.210	.030	-.232	.999	1.001
	PL_TSpinN	-.298 ^b	-3.445	.001	-.348	.998	1.002
	R_con	.320 ^b	3.179	.002	.324	.753	1.328
2	PL_TpinN	.288 ^c	1.585	.117	.169	.223	4.485

	R_con	.342 ^c	3.659	.000	.369	.751	1.332
3	PL_TpinN	.165 ^d	.939	.350	.102	.213	4.688

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.999	
	PL_TSpinN	.998	
	R_con	.753	
2	PL_TpinN	.223	
	R_con	.750	
3	PL_TpinN	.213	

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	PL_TSpinN
1	1	1.361	1.000	.32	.32	

	2	.639	1.460	.68	.68	
2	1	2.116	1.000	.03	.06	.03
	2	.798	1.628	.01	.92	.02
	3	.086	4.947	.95	.02	.95
3	1	3.066	1.000	.00	.02	.02
	2	.818	1.936	.00	.73	.01
	3	.114	5.182	.01	.02	.97
	4	.003	34.848	.99	.23	.00

Collinearity Diagnostics^a

		Variance Proportions
Model	Dimension	R_con
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.00
	3	.01
	4	.99

a. Dependent Variable: AvgGL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00592039711 7734	.02118883840 7397	.01084079549 0833	.00184565796 3848
Std. Predicted Value	-2.666	5.607	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00519786076 6202	.03160022944 2120	.01094568618 4207	.00267524498 7030
Residual	- .00340239447 5415	.00613564718 5147	.00000000000 0000	.00206722222 4100
Std. Residual	-1.618	2.917	.000	.983
Stud. Residual	-3.259	2.935	-.016	1.047
Deleted Residual	- .01381378620 8630	.00620947917 9233	- .00010489069 3374	.00258201198 1145
Stud. Deleted Residual	-3.464	3.077	-.011	1.070
Mahal. Distance	.005	65.336	2.966	7.487
Cook's Distance	.000	8.127	.102	.861
Centered Leverage Value	.000	.742	.034	.085

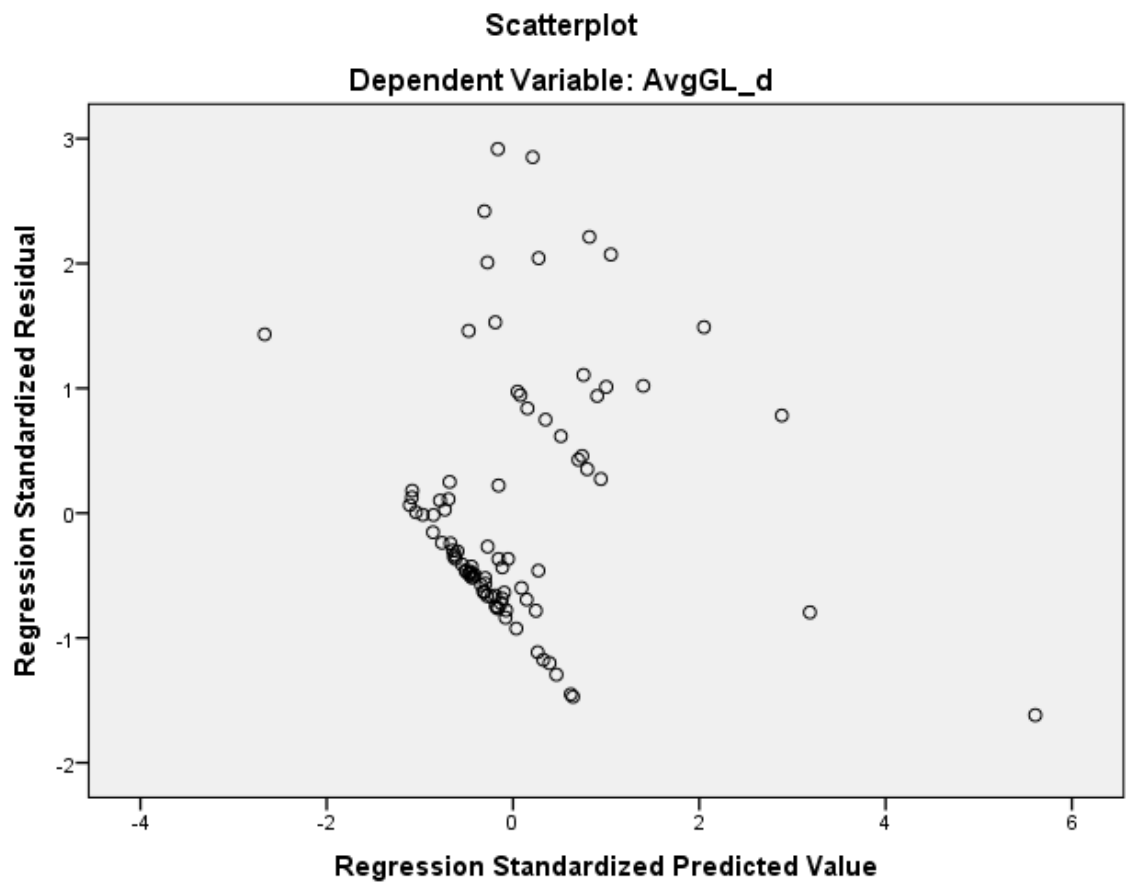
Residuals Statistics^a

	N
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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: 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

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:33:08
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 Tpaths_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.19
	Memory Required	5744 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_16	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_TSpinN		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
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1	.705 ^a	.497	.491	.00109802927 8809
2	.741 ^b	.550	.539	.00104474669 3000
3	.757 ^c	.573	.558	.00102318381 0280

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, R_con

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

d. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	84.871	.000 ^b
	Residual	.000	86	.000		
	Total	.000	87			
2	Regression	.000	2	.000	51.872	.000 ^c
	Residual	.000	85	.000		
	Total	.000	87			
3	Regression	.000	3	.000	37.594	.000 ^d
	Residual	.000	84	.000		

Total	.000	87			
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- a. Dependent Variable: Tpaths_d
- b. Predictors: (Constant), S_con
- c. Predictors: (Constant), S_con, R_con
- d. Predictors: (Constant), S_con, R_con, PL_TSpinN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		75.310	.000
	S_con	1.703	.185	.705	9.213	.000
2	(Constant)	.005	.002		3.247	.002
	S_con	1.409	.199	.583	7.076	.000
	R_con	.472	.149	.260	3.162	.002
3	(Constant)	.005	.002		3.495	.001
	S_con	1.380	.195	.571	7.063	.000
	R_con	.494	.147	.272	3.366	.001
	PL_TSpinN	-.047	.022	-.154	-2.150	.034

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.781	1.281
	R_con	.781	1.281
3	(Constant)		
	S_con	.777	1.287
	R_con	.777	1.287
	PL_TSpinN	.994	1.006

a. Dependent Variable: Tpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.077 ^b	-1.009	.316	-.109	1.000	1.000
	PL_TSpinN	-.137 ^b	-1.819	.072	-.194	.998	1.002
	R_con	.260 ^b	3.162	.002	.324	.781	1.281
2	PL_TpinN	-.115 ^c	-1.580	.118	-.170	.976	1.024

	PL_TSpinN	-.154 ^c	-2.150	.034	-.228	.994	1.006
3	PL_TpinN	.099 ^d	.641	.523	.070	.214	4.682

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	1.000	
	PL_TSpinN	.998	
	R_con	.781	
2	PL_TpinN	.762	
	PL_TSpinN	.777	
3	PL_TpinN	.214	

- a. Dependent Variable: Tpaths_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_TSpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	R_con
1	1	1.495	1.000	.25	.25	

	2	.505	1.722	.75	.75	
2	1	2.376	1.000	.00	.05	.00
	2	.622	1.955	.00	.74	.00
	3	.002	31.360	1.00	.20	1.00
3	1	3.202	1.000	.00	.02	.00
	2	.682	2.167	.00	.74	.00
	3	.114	5.303	.01	.03	.01
	4	.002	36.408	.99	.20	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TSpinN
1	1	
	2	
2	1	
	2	
	3	
3	1	.01
	2	.02
	3	.97
	4	.00

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00878424011 1709	.01693193614 4829	.01076310877 6029	.00116497381 8780
Std. Predicted Value	-1.699	5.295	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00868649687 6180	.01678691431 8800	.01076590614 6978	.00116760418 0772
Residual	- .00181006046 4777	.00514160702 0050	.00000000000 0000	.00100538795 1701
Std. Residual	-1.769	5.025	.000	.983
Stud. Residual	-1.818	5.056	-.001	1.007
Deleted Residual	- .00191132200 4162	.00520595908 1650	- .00000279737 0949	.00105958420 1392
Stud. Deleted Residual	-1.844	6.026	.013	1.078
Mahal. Distance	.085	31.465	2.966	5.151
Cook's Distance	.000	.319	.014	.042
Centered Leverage Value	.001	.362	.034	.059

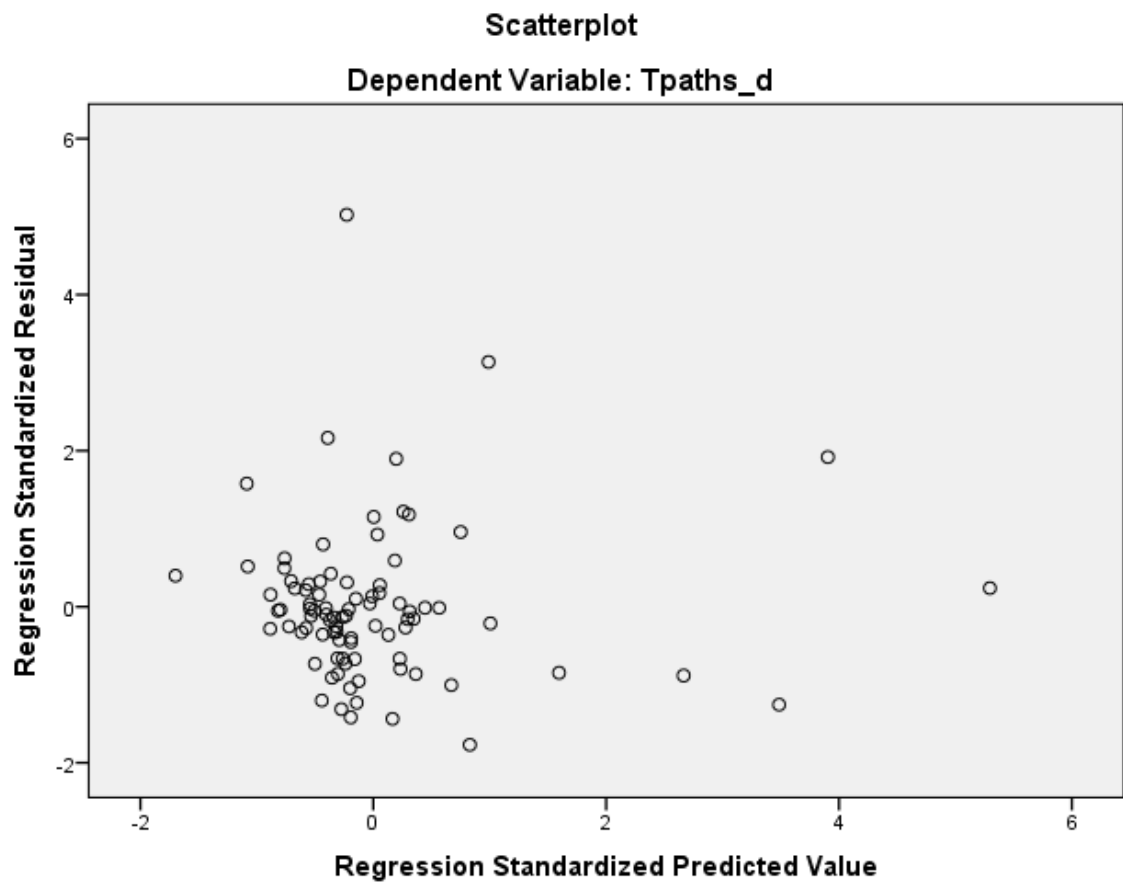
Residuals Statistics^a

	N
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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: Tpaths_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

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

/NOORIGIN

/DEPENDENT TSpahs_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:34:16	
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 TSpats_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.24
	Memory Required	5792 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_17	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_TSpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: TSpats_d

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
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1	.693 ^a	.480	.474	.00111360528 7901
2	.731 ^b	.535	.524	.00105921548 7540
3	.748 ^c	.559	.543	.00103728397 8142

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, R_con

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

d. Dependent Variable: TSpats_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	79.280	.000 ^b
	Residual	.000	86	.000		
	Total	.000	87			
2	Regression	.000	2	.000	48.845	.000 ^c
	Residual	.000	85	.000		
	Total	.000	87			
3	Regression	.000	3	.000	35.499	.000 ^d
	Residual	.000	84	.000		

Total	.000	87			
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a. Dependent Variable: TSpaths_d

b. Predictors: (Constant), S_con

c. Predictors: (Constant), S_con, R_con

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

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		74.339	.000
	S_con	1.669	.187	.693	8.904	.000
2	(Constant)	.005	.002		3.157	.002
	S_con	1.370	.202	.568	6.787	.000
	R_con	.481	.152	.266	3.172	.002
3	(Constant)	.005	.002		3.404	.001
	S_con	1.341	.198	.556	6.769	.000
	R_con	.502	.149	.277	3.376	.001
	PL_TSpinN	-.048	.022	-.156	-2.152	.034

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.781	1.281
	R_con	.781	1.281
3	(Constant)		
	S_con	.777	1.287
	R_con	.777	1.287
	PL_TSpinN	.994	1.006

a. Dependent Variable: TSpats_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.079 ^b	-1.019	.311	-.110	1.000	1.000
	PL_TSpinN	-.140 ^b	-1.821	.072	-.194	.998	1.002
	R_con	.266 ^b	3.172	.002	.325	.781	1.281
2	PL_TpinN	-.118 ^c	-1.593	.115	-.171	.976	1.024

	PL_TSpinN	-.156 ^c	-2.152	.034	-.229	.994	1.006
3	PL_TpinN	.097 ^d	.618	.538	.068	.214	4.682

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	1.000	
	PL_TSpinN	.998	
	R_con	.781	
2	PL_TpinN	.762	
	PL_TSpinN	.777	
3	PL_TpinN	.214	

a. Dependent Variable: TSpats_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_TSpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	R_con
1	1	1.495	1.000	.25	.25	

	2	.505	1.722	.75	.75	
2	1	2.376	1.000	.00	.05	.00
	2	.622	1.955	.00	.74	.00
	3	.002	31.360	1.00	.20	1.00
3	1	3.202	1.000	.00	.02	.00
	2	.682	2.167	.00	.74	.00
	3	.114	5.303	.01	.03	.01
	4	.002	36.408	.99	.20	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TSpinN
1	1	
	2	
2	1	
	2	
	3	
3	1	.01
	2	.02
	3	.97
	4	.00

a. Dependent Variable: TSpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00877397786 8259	.01681242510 6764	.01076222435 2010	.00114763896 4030
Std. Predicted Value	-1.732	5.272	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00867052003 7413	.01658162288 3677	.01076479298 9893	.00114889025 0656
Residual	- .00186178903 0954	.00515859620 6456	.00000000000 0000	.00101924288 0545
Std. Residual	-1.795	4.973	.000	.983
Stud. Residual	-1.844	5.004	-.001	1.009
Deleted Residual	- .00208064145 4086	.00522316107 5264	- .00000256863 7884	.00107890368 0515
Stud. Deleted Residual	-1.872	5.937	.013	1.077
Mahal. Distance	.085	31.465	2.966	5.151
Cook's Distance	.000	.346	.016	.049
Centered Leverage Value	.001	.362	.034	.059

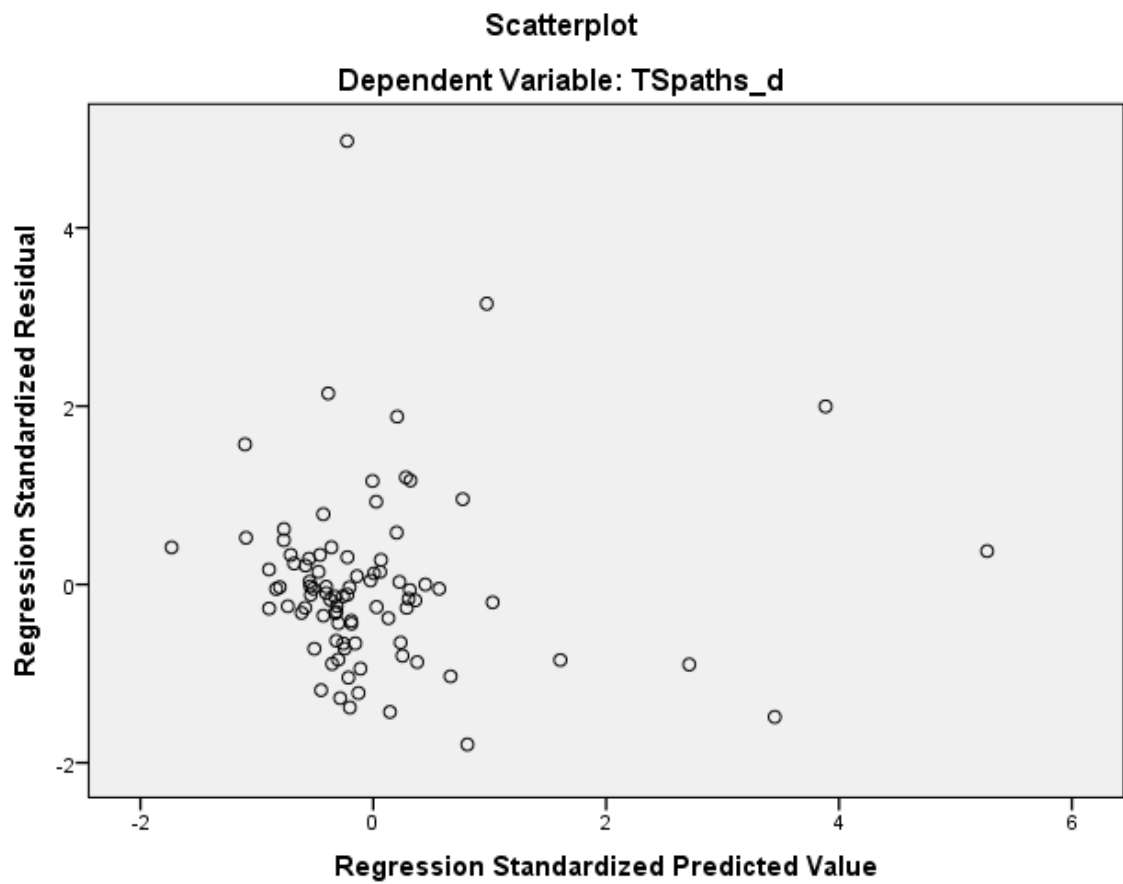
Residuals Statistics^a

	N
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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: TSpats_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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:34:42
Comments		
Input	Active Dataset	DataSet2
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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 AvgPL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.22
	Memory Required	5824 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_18	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	PL_TSpinN		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).

a. Dependent Variable: AvgPL_d

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
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1	.608 ^a	.369	.362	.00215764248 5662
2	.675 ^b	.456	.443	.00201617948 8778
3	.709 ^c	.502	.484	.00194002753 1358

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, PL_TSpinN

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

d. Dependent Variable: AvgPL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	50.378	.000 ^b
	Residual	.000	86	.000		
	Total	.001	87			
2	Regression	.000	2	.000	35.594	.000 ^c
	Residual	.000	85	.000		
	Total	.001	87			
3	Regression	.000	3	.000	28.230	.000 ^d
	Residual	.000	84	.000		

Total	.001	87			
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- a. Dependent Variable: AvgPL_d
- b. Predictors: (Constant), S_con
- c. Predictors: (Constant), S_con, PL_TSpinN
- d. Predictors: (Constant), S_con, PL_TSpinN, R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		37.142	.000
	S_con	2.578	.363	.608	7.098	.000
2	(Constant)	.012	.001		21.435	.000
	S_con	2.528	.340	.596	7.440	.000
	PL_TSpinN	-.159	.043	-.294	-3.673	.000
3	(Constant)	.003	.003		1.174	.244
	S_con	2.041	.370	.481	5.508	.000
	PL_TSpinN	-.167	.042	-.309	-3.997	.000
	R_con	.777	.278	.244	2.794	.006

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.998	1.002
	PL_TSpinN	.998	1.002
3	(Constant)		
	S_con	.777	1.287
	PL_TSpinN	.994	1.006
	R_con	.777	1.287

a. Dependent Variable: AvgPL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.202 ^b	-2.421	.018	-.254	1.000	1.000
	PL_TSpinN	-.294 ^b	-3.673	.000	-.370	.998	1.002
	R_con	.220 ^b	2.332	.022	.245	.781	1.281
2	PL_TpinN	.258 ^c	1.533	.129	.165	.223	4.494

	R_con	.244 ^c	2.794	.006	.292	.777	1.287
3	PL_TpinN	.173 ^d	1.042	.301	.114	.214	4.682

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	1.000	
	PL_TSpinN	.998	
	R_con	.781	
2	PL_TpinN	.222	
	R_con	.777	
3	PL_TpinN	.214	

a. Dependent Variable: AvgPL_d

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

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	PL_TSpinN
1	1	1.495	1.000	.25	.25	

	2	.505	1.722	.75	.75	
2	1	2.257	1.000	.03	.07	.03
	2	.657	1.854	.02	.90	.04
	3	.086	5.122	.95	.03	.94
3	1	3.202	1.000	.00	.02	.01
	2	.682	2.167	.00	.74	.02
	3	.114	5.303	.01	.03	.97
	4	.002	36.408	.99	.20	.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: AvgPL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00603646039 9628	.02008716017 0078	.01076577733 1547	.00191409064 6911
Std. Predicted Value	-2.471	4.870	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00535539211 7053	.02150995098 0544	.01077294774 9235	.00202054642 8994
Residual	- .00272543542 0871	.00620155734 9414	.00000000000 0000	.00190628534 8144
Std. Residual	-1.405	3.197	.000	.983
Stud. Residual	-1.557	3.217	-.001	1.009
Deleted Residual	- .00381409027 6137	.00627917563 5427	- .00000717041 7688	.00201664186 7398
Stud. Deleted Residual	-1.570	3.415	.007	1.029
Mahal. Distance	.085	31.465	2.966	5.151
Cook's Distance	.000	.360	.015	.045
Centered Leverage Value	.001	.362	.034	.059

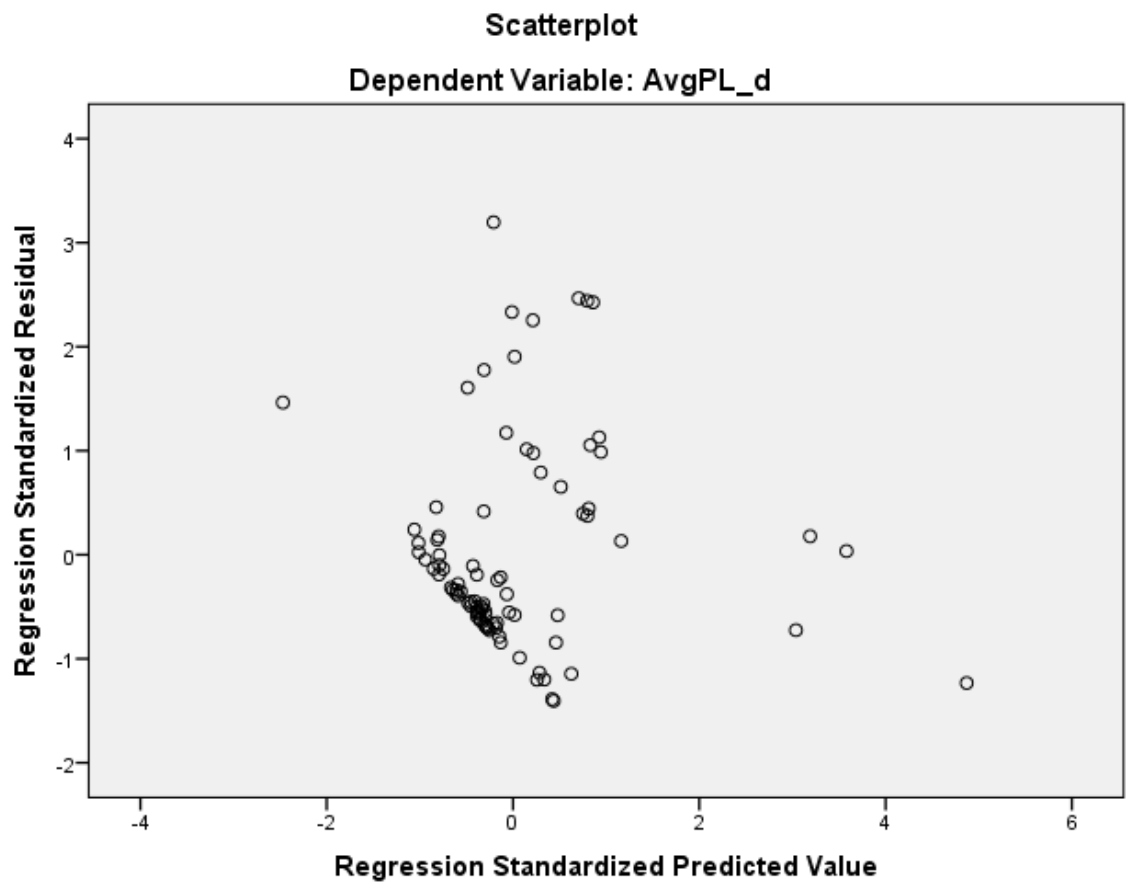
Residuals Statistics^a

	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: 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

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:35:03	
Comments		
Input	Active Dataset	DataSet2
	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 AvgGL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.26
	Memory Required	5872 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_19	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	PL_TSpinN		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).

a. Dependent Variable: AvgGL_d

Model Summary^d

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

1	.576 ^a	.332	.324	.00220656924 2375
2	.651 ^b	.424	.410	.00206214929 4170
3	.689 ^c	.475	.456	.00197923725 5032

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, PL_TSpinN

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

d. Dependent Variable: AvgGL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	42.783	.000 ^b
	Residual	.000	86	.000		
	Total	.001	87			
2	Regression	.000	2	.000	31.226	.000 ^c
	Residual	.000	85	.000		
	Total	.001	87			
3	Regression	.000	3	.000	25.355	.000 ^d
	Residual	.000	84	.000		

Total	.001	87			
-------	------	----	--	--	--

a. Dependent Variable: AvgGL_d

b. Predictors: (Constant), S_con

c. Predictors: (Constant), S_con, PL_TSpinN

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

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		36.502	.000
	S_con	2.430	.372	.576	6.541	.000
2	(Constant)	.012	.001		21.117	.000
	S_con	2.378	.347	.564	6.844	.000
	PL_TSpinN	-.162	.044	-.302	-3.670	.000
3	(Constant)	.003	.003		1.044	.299
	S_con	1.867	.378	.443	4.938	.000
	PL_TSpinN	-.171	.043	-.318	-4.009	.000
	R_con	.816	.284	.258	2.876	.005

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.998	1.002
	PL_TSpinN	.998	1.002
3	(Constant)		
	S_con	.777	1.287
	PL_TSpinN	.994	1.006
	R_con	.777	1.287

a. Dependent Variable: AvgGL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.209 ^b	-2.439	.017	-.256	1.000	1.000
	PL_TSpinN	-.302 ^b	-3.670	.000	-.370	.998	1.002
	R_con	.234 ^b	2.407	.018	.253	.781	1.281
2	PL_TpinN	.258 ^c	1.491	.140	.161	.223	4.494

	R_con	.258 ^c	2.876	.005	.299	.777	1.287
3	PL_TpinN	.168 ^d	.985	.328	.107	.214	4.682

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	1.000	
	PL_TSpinN	.998	
	R_con	.781	
2	PL_TpinN	.222	
	R_con	.777	
3	PL_TpinN	.214	

a. Dependent Variable: AvgGL_d

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

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	PL_TSpinN
1	1	1.495	1.000	.25	.25	

	2	.505	1.722	.75	.75	
2	1	2.257	1.000	.03	.07	.03
	2	.657	1.854	.02	.90	.04
	3	.086	5.122	.95	.03	.94
3	1	3.202	1.000	.00	.02	.01
	2	.682	2.167	.00	.74	.02
	3	.114	5.303	.01	.03	.97
	4	.002	36.408	.99	.20	.00

Collinearity Diagnostics^a

		Variance Proportions
Model	Dimension	R_con
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.00
	3	.01
	4	.99

a. Dependent Variable: AvgGL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00597589043 9004	.01956115104 2581	.01076186767 1300	.00185068365 6771
Std. Predicted Value	-2.586	4.755	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00526636512 9501	.02060310356 3190	.01076822521 0154	.00194700262 4867
Residual	- .00275566847 9949	.00628443621 0990	.00000000000 0000	.00194481311 1558
Std. Residual	-1.392	3.175	.000	.983
Stud. Residual	-1.445	3.195	-.001	1.007
Deleted Residual	- .00296974950 4700	.00636309199 0352	- .00000635753 8854	.00204857331 2196
Stud. Deleted Residual	-1.455	3.388	.007	1.027
Mahal. Distance	.085	31.465	2.966	5.151
Cook's Distance	.000	.186	.014	.032
Centered Leverage Value	.001	.362	.034	.059

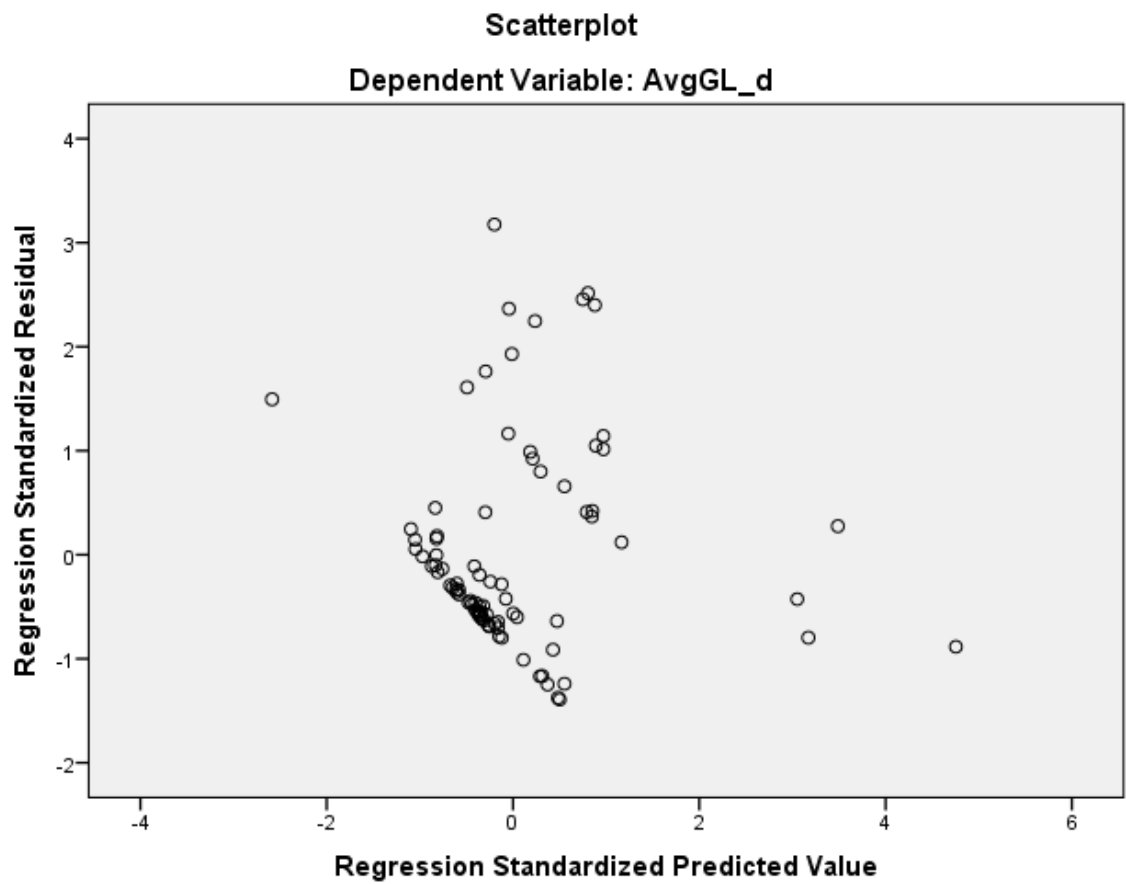
Residuals Statistics^a

	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: AvgGL_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

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 09:49:52
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 ECin
		/METHOD=STEPWISE PL_TpinN
		PL_TSpinN S_con R_con
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.03
	Memory Required	5152 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_EVCinN

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		06-JUN-2015 09:50:05
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		<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_EVCinN</p> <p>/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con</p> <p>/SCATTERPLOT=(*ZRESID ,*ZPRED)</p> <p>/SAVE COOK.</p>
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02
	Memory Required	5184 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	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 EVCin_TpinN

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:50:16
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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 EVCin_TpinN /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.20
	Memory Required	5232 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).

a. Dependent Variable: EVCin_TpinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.456 ^a	.208	.199	.00405578016 0455

a. Predictors: (Constant), R_con

b. Dependent Variable: EVCin_TpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	23.319	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			

a. Dependent Variable: EVCin_TpinN

b. Predictors: (Constant), R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.026	.003		8.236	.000
	R_con	-1.387	.287	-.456	-4.829	.000

Coefficients^a

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

a. Dependent Variable: EVCin_TpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	.154 ^b	1.642	.104	.172	.998	1.002
	PL_TSpinN	.167 ^b	1.791	.077	.187	1.000	1.000
	S_con	.246 ^b	1.637	.105	.172	.387	2.581

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.998	
	PL_TSpinN	1.000	
	S_con	.387	

a. Dependent Variable: EVCin_TpinN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_con
1	1	1.991	1.000	.00	.00
	2	.009	14.914	1.00	1.00

a. Dependent Variable: EVCin_TpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00412918720 3944	.01356080733 2397	.01098901098 9011	.00206447140 7827
Std. Predicted Value	-7.323	1.246	.000	1.000
Standard Error of Predicted Value	.000	.003	.001	.000
Adjusted Predicted Value	- .01050264202 0583	.01354790385 8125	.01092396906 8927	.00260536346 7091

Residual	-	.00629514502	.000000000000	.00403318510
	.01171971857	3614	0000	9101
	5478			
Std. Residual	-2.890	1.552	.000	.994
Stud. Residual	-2.908	1.624	.006	1.012
Deleted Residual	-	.01050264202	.00006504192	.00422821251
	.01186663936	0583	0084	1951
	8236			
Stud. Deleted Residual	-3.039	1.639	-.002	1.033
Mahal. Distance	.000	53.627	.989	5.631
Cook's Distance	.000	2.035	.031	.213
Centered Leverage Value	.000	.596	.011	.063

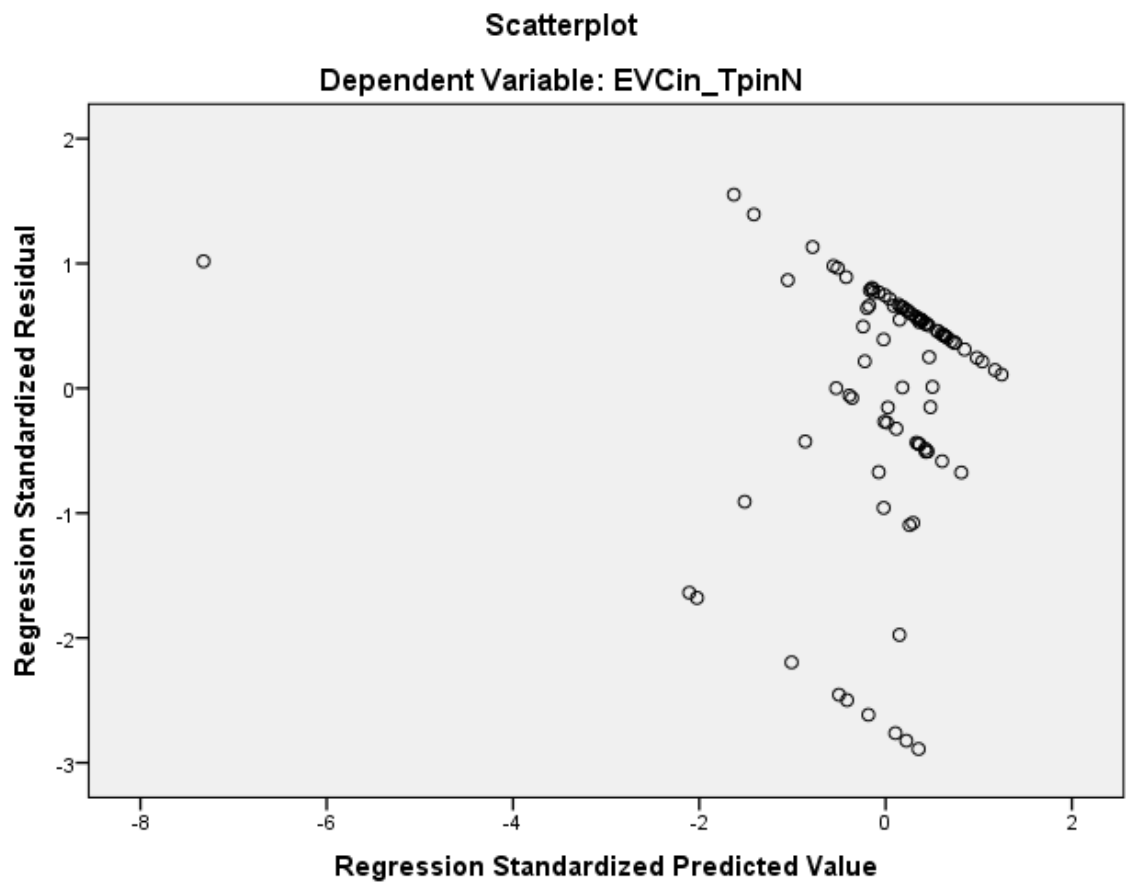
Residuals Statistics^a

	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 PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:50:37
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 EVCin_TSpinN /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.22
	Memory Required	5264 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).

a. Dependent Variable: EVCin_TSpinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.456 ^a	.208	.199	.00405455258 6304

a. Predictors: (Constant), R_con

b. Dependent Variable: EVCin_TSpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	23.375	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			

a. Dependent Variable: EVCin_TSpinN

b. Predictors: (Constant), R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.026	.003		8.243	.000
	R_con	-1.388	.287	-.456	-4.835	.000

Coefficients^a

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

a. Dependent Variable: EVCin_TSpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	.153 ^b	1.633	.106	.172	.998	1.002
	PL_TSpinN	.166 ^b	1.779	.079	.186	1.000	1.000
	S_con	.247 ^b	1.643	.104	.173	.387	2.581

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.998	
	PL_TSpinN	1.000	
	S_con	.387	

a. Dependent Variable: EVCin_TSpinN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_con
1	1	1.991	1.000	.00	.00
	2	.009	14.914	1.00	1.00

a. Dependent Variable: EVCin_TSpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00414265785 3663	.01356309931 7253	.01098901098 9011	.00206631085 0429
Std. Predicted Value	-7.323	1.246	.000	1.000
Standard Error of Predicted Value	.000	.003	.001	.000
Adjusted Predicted Value	- .01053690351 5458	.01355025265 3658	.01092374297 5778	.00260906260 7433

Residual	-	.00629844702	.00000000000	.00403196437
	.01172036956	7802	0000	3857
	9957			
Std. Residual	-2.891	1.553	.000	.994
Stud. Residual	-2.909	1.629	.006	1.012
Deleted Residual	-	.01053690351	.00006526801	.00422780820
	.01186729874	5458	3233	8282
	4619			
Stud. Deleted Residual	-3.040	1.645	-.002	1.033
Mahal. Distance	.000	53.627	.989	5.631
Cook's Distance	.000	2.049	.031	.215
Centered Leverage Value	.000	.596	.011	.063

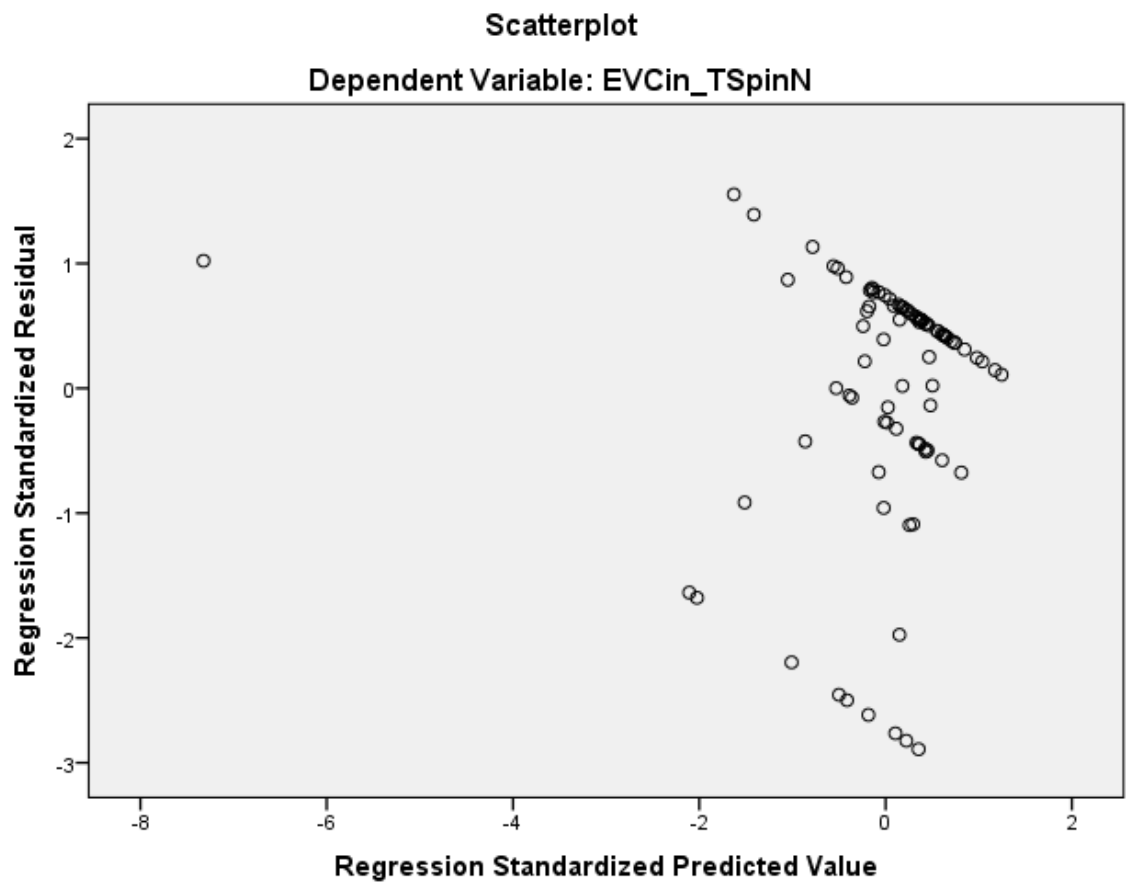
Residuals Statistics^a

	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 EVCin_TpinN

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 09:51:09
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 EVCin_TpinN /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
	Resources	Processor Time	00:00:00.20
		Elapsed Time	00:00:00.22
		Memory Required	5312 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: EVCin_TpinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.420 ^a	.177	.167	.00401789323 9816

a. Predictors: (Constant), R_con

b. Dependent Variable: EVCin_TpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	18.884	.000 ^b
	Residual	.001	88	.000		
	Total	.002	89			

a. Dependent Variable: EVCin_TpinN

b. Predictors: (Constant), R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.032	.005		6.587	.000
	R_con	-1.961	.451	-.420	-4.346	.000

Coefficients^a

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

a. Dependent Variable: EVCin_TpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	.173 ^b	1.808	.074	.190	.991	1.009
	PL_TSpinN	.176 ^b	1.846	.068	.194	1.000	1.000
	S_con	-.006 ^b	-.046	.963	-.005	.670	1.493

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.991	
	PL_TSpinN	1.000	
	S_con	.670	

a. Dependent Variable: EVCin_TpinN

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	23.203	1.00	1.00

a. Dependent Variable: EVCin_TpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00472298916 4293	.01450996566 5638	.01111111111 1111	.00185075463 1707
Std. Predicted Value	-3.452	1.836	.000	1.000
Standard Error of Predicted Value	.000	.002	.001	.000
Adjusted Predicted Value	.00531844142 8244	.01453598961 2341	.01111608615 2180	.00183165452 2906
Residual	- .01190677471 4589	.00780290411 7852	.00000000000 0000	.00399525704 1438
Std. Residual	-2.963	1.942	.000	.994

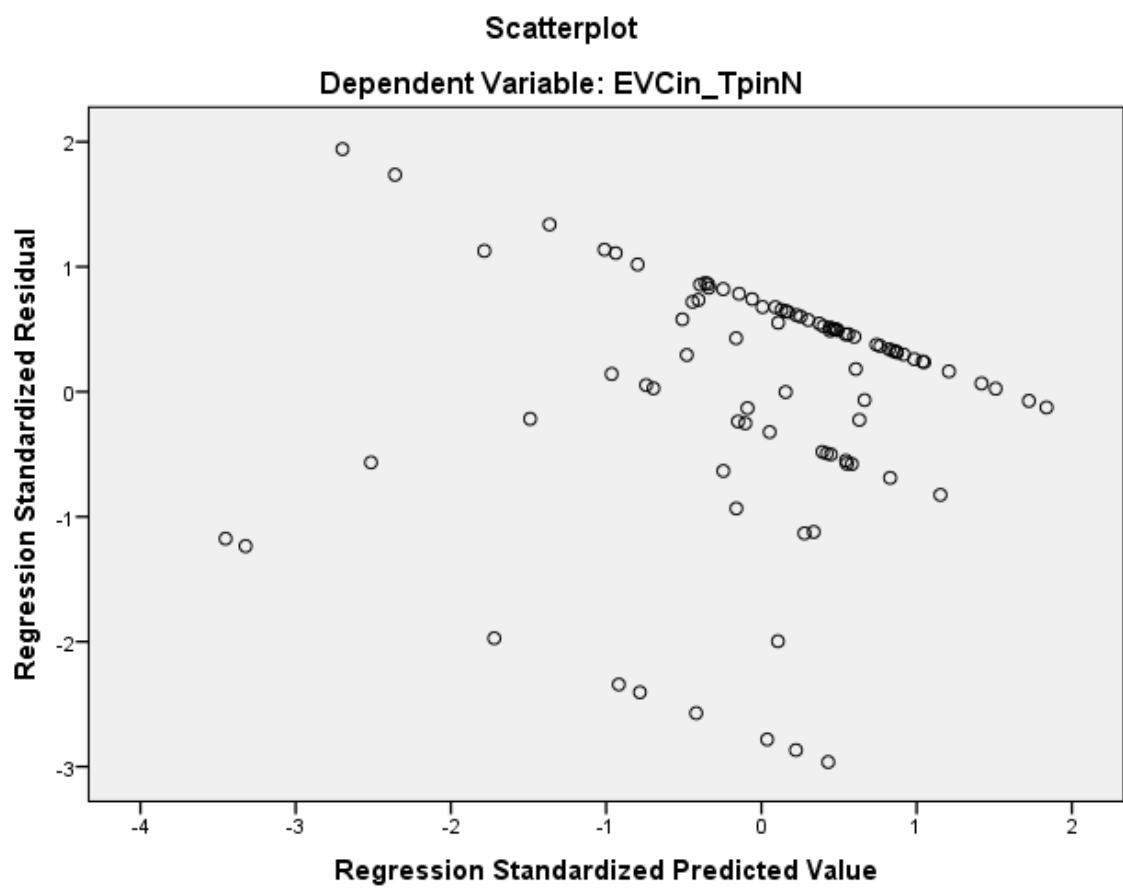
Stud. Residual	-2.983	2.039	-.001	1.008
Deleted Residual	-	-	-	-
	.01206589769	.00860208086	.00000497504	.00410857603
	5720	6694	1069	7582
Stud. Deleted Residual	-3.129	2.077	-.008	1.030
Mahal. Distance	.000	11.914	.989	2.052
Cook's Distance	.000	.213	.015	.035
Centered Leverage Value	.000	.134	.011	.023

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: EVCin_TpinN

Charts



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

```

Regression

Notes

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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 EVCin_TSpinN /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.17
	Memory Required	5344 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_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCin_TSpinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.421 ^a	.177	.168	.00401623908 1190

a. Predictors: (Constant), R_con

b. Dependent Variable: EVCin_TSpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	18.959	.000 ^b
	Residual	.001	88	.000		
	Total	.002	89			

a. Dependent Variable: EVCin_TSpinN

b. Predictors: (Constant), R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.032	.005		6.596	.000
	R_con	-1.964	.451	-.421	-4.354	.000

Coefficients^a

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

a. Dependent Variable: EVCin_TSpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	.173 ^b	1.801	.075	.190	.991	1.009
	PL_TSpinN	.175 ^b	1.835	.070	.193	1.000	1.000
	S_con	-.005 ^b	-.046	.964	-.005	.670	1.493

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.991	
	PL_TSpinN	1.000	
	S_con	.670	

a. Dependent Variable: EVCin_TSpinN

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

Collinearity Diagnostics^a

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

		Index	(Constant)	R_con
1	1	1.996	1.000	.00
	2	.004	23.203	1.00

a. Dependent Variable: EVCin_TSpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00471286289 3939	.01451535336 6733	.01111111111 1111	.00185368842 8476
Std. Predicted Value	-3.452	1.836	.000	1.000
Standard Error of Predicted Value	.000	.002	.001	.000
Adjusted Predicted Value	.00530968373 6414	.01454163901 5079	.01111606150 2448	.00183467375 1372
Residual	- .01190803665 6678	.00781112443 6557	.00000000000 0000	.00399361220 2090
Std. Residual	-2.965	1.945	.000	.994
Stud. Residual	-2.985	2.042	-.001	1.008
Deleted Residual	- .01206717547 0293	.00861114356 6668	- .00000495039 1337	.00410688522 1240
Stud. Deleted Residual	-3.130	2.080	-.008	1.030
Mahal. Distance	.000	11.914	.989	2.052

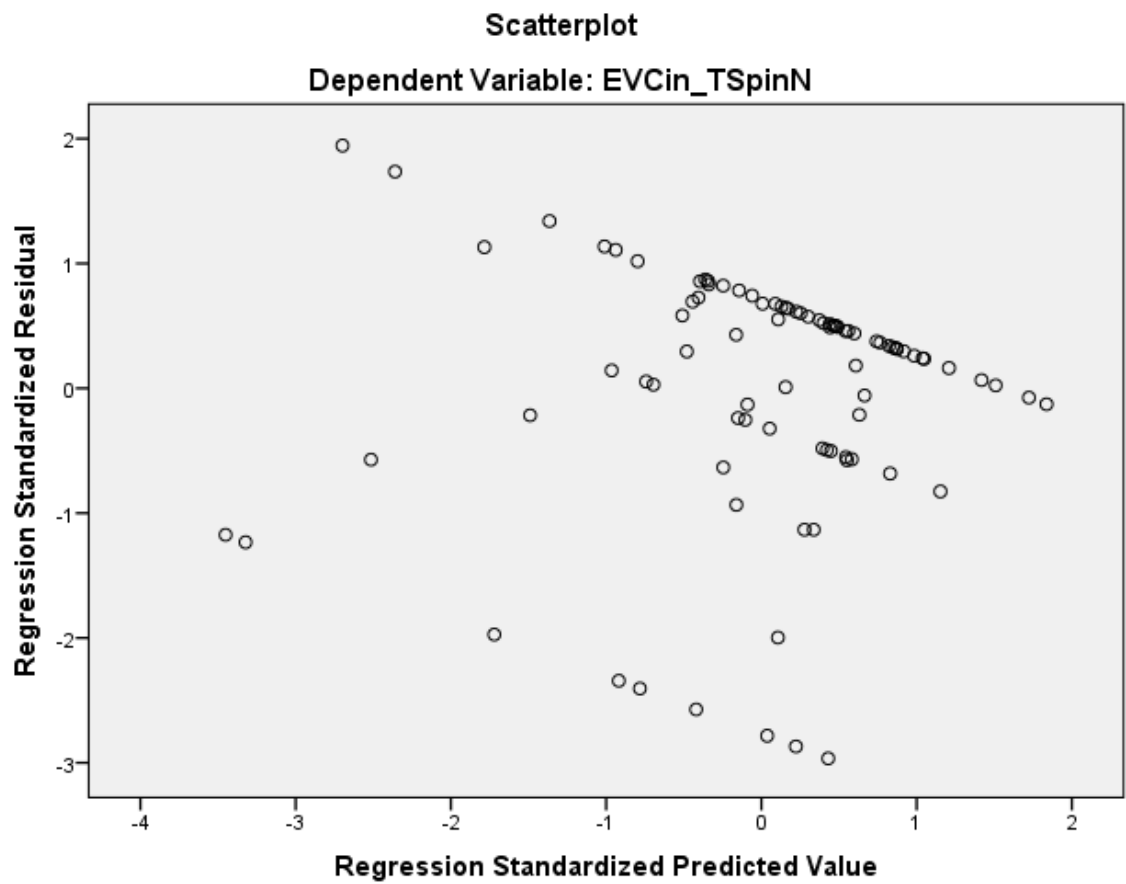
Cook's Distance	.000	.214	.015	.035
Centered Leverage Value	.000	.134	.011	.023

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: EVCin_TSpinN

Charts



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 GD_d Tpaths_d TSpdN_d AvgPL_d
AvgGL_d PL_TpdN PL_TSpdN S_d R_d

```
/SCATTERPLOT=(*ZRESID ,*ZPRED)
```

```
/SAVE COOK.
```

Regression

Notes

Output Created		05-JUN-2015 21:10:48
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 ECd /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.23
	Memory Required	15472 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_27	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	S_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4	R_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECd

Model Summary^e

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.456 ^a	.208	.199	.00134502947 1591
2	.596 ^b	.356	.341	.00121973521 3539
3	.656 ^c	.431	.411	.00115293063 6810
4	.683 ^d	.466	.442	.00112284625 9831

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, Edges_d

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

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

e. Dependent Variable: ECd

ANOVA^a

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

1	Regression	.000	1	.000	23.314	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	24.287	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	21.953	.000 ^d
	Residual	.000	87	.000		
	Total	.000	90			
4	Regression	.000	4	.000	18.790	.000 ^e
	Residual	.000	86	.000		
	Total	.000	90			

a. Dependent Variable: ECd

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, Edges_d

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

e. Predictors: (Constant), Reciprocity, Edges_d, S_d, R_d

Coefficients^a

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

		B	Std. Error	Beta		
1	(Constant)	.011	.000		76.080	.000
	Reciprocity	-.018	.004	-.456	-4.828	.000
2	(Constant)	.013	.000		31.504	.000
	Reciprocity	-.017	.003	-.413	-4.792	.000
	Edges_d	-.161	.036	-.387	-4.497	.000
3	(Constant)	.016	.001		15.576	.000
	Reciprocity	-.015	.003	-.377	-4.594	.000
	Edges_d	-.256	.044	-.617	-5.826	.000
	S_d	-.204	.060	-.357	-3.390	.001
4	(Constant)	-.009	.010		-.836	.405
	Reciprocity	-.016	.003	-.385	-4.817	.000
	Edges_d	-.314	.049	-.756	-6.386	.000
	S_d	-.324	.077	-.566	-4.201	.000
	R_d	2.452	1.025	.250	2.393	.019

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.988	1.012

	Edges_d	.988	1.012
3	(Constant)		
	Reciprocity	.972	1.029
	Edges_d	.584	1.712
	S_d	.591	1.693
4	(Constant)		
	Reciprocity	.970	1.031
	Edges_d	.443	2.257
	S_d	.342	2.927
	R_d	.570	1.755

a. Dependent Variable: ECd

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	-.331 ^b	-3.737	.000	-.370	.994	1.006	.994
	Edges_d	-.387 ^b	-4.497	.000	-.432	.988	1.012	.988
	Den_d	.221 ^b	2.395	.019	.247	.995	1.005	.995
	GD_d	-.101 ^b	-1.063	.291	-.113	.992	1.008	.992
	Tpaths_d	-.231 ^b	-2.516	.014	-.259	.994	1.007	.994

	TSpaths_d	-.228 ^b	-2.484	.015	-.256	.994	1.006	.994
	AvgPL_d	-.221 ^b	-2.377	.020	-.246	.977	1.024	.977
	AvgGL_d	-.212 ^b	-2.276	.025	-.236	.981	1.019	.981
	PL_TpdN	-.115 ^b	-1.201	.233	-.127	.959	1.043	.959
	PL_TSpdN	-.062 ^b	-.651	.517	-.069	.994	1.006	.994
	S_d	.035 ^b	.371	.712	.040	.999	1.001	.999
	R_d	-.042 ^b	-.438	.662	-.047	.986	1.014	.986
2	Nodes	.607 ^c	1.885	.063	.198	.069	14.561	.068
	Den_d	-.331 ^c	-2.173	.032	-.227	.304	3.294	.301
	GD_d	.020 ^c	.224	.824	.024	.898	1.114	.894
	Tpaths_d	.005 ^c	.044	.965	.005	.627	1.594	.624
	TSpaths_d	.009 ^c	.079	.937	.009	.629	1.590	.625
	AvgPL_d	-.100 ^c	-1.089	.279	-.116	.863	1.159	.863
	AvgGL_d	-.091 ^c	-.991	.324	-.106	.869	1.150	.869
	PL_TpdN	-.062 ^c	-.704	.483	-.075	.941	1.063	.941
	PL_TSpdN	-.029 ^c	-.339	.735	-.036	.987	1.014	.981
	S_d	-.357 ^c	-3.390	.001	-.342	.591	1.693	.584
	R_d	-.035 ^c	-.404	.687	-.043	.986	1.015	.974
3	Nodes	.213 ^d	.627	.532	.067	.057	17.515	.057
	Den_d	-.068 ^d	-.377	.707	-.041	.204	4.900	.204
	GD_d	.073 ^d	.845	.401	.091	.870	1.149	.515
	Tpaths_d	-.031 ^d	-.296	.768	-.032	.621	1.611	.458
	TSpaths_d	-.029 ^d	-.277	.782	-.030	.622	1.608	.459

	AvgPL_d	-.065 ^d	-.740	.462	-.080	.850	1.176	.517
	AvgGL_d	-.060 ^d	-.683	.496	-.073	.859	1.164	.521
	PL_TpdN	-.011 ^d	-.130	.896	-.014	.909	1.100	.555
	PL_TSpdN	.004 ^d	.054	.957	.006	.972	1.029	.572
	R_d	.250 ^d	2.393	.019	.250	.570	1.755	.342
4	Nodes	.152 ^e	.456	.649	.049	.057	17.624	.057
	Den_d	.184 ^e	.916	.362	.099	.154	6.496	.154
	GD_d	.046 ^e	.538	.592	.058	.853	1.172	.341
	Tpaths_d	.033 ^e	.322	.748	.035	.579	1.726	.324
	TSpaths_d	.036 ^e	.346	.730	.038	.580	1.725	.325
	AvgPL_d	-.024 ^e	-.275	.784	-.030	.814	1.228	.324
	AvgGL_d	-.018 ^e	-.205	.838	-.022	.821	1.218	.325
	PL_TpdN	-.064 ^e	-.753	.454	-.081	.853	1.172	.341
	PL_TSpdN	-.028 ^e	-.345	.731	-.037	.945	1.058	.342

a. Dependent Variable: ECd

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, S_d

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	Edges_d
1	1	1.285	1.000	.36	.36	
	2	.715	1.341	.64	.64	
2	1	2.107	1.000	.02	.05	.02
	2	.843	1.581	.01	.94	.01
	3	.050	6.524	.97	.00	.97
3	1	2.996	1.000	.00	.02	.01
	2	.873	1.852	.00	.96	.00
	3	.122	4.956	.00	.00	.26
	4	.009	18.558	1.00	.02	.73
4	1	3.977	1.000	.00	.01	.00
	2	.888	2.116	.00	.97	.00
	3	.123	5.691	.00	.00	.21
	4	.012	18.243	.00	.02	.58
	5	5.852E-5	260.707	1.00	.00	.21

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		S_d	R_d
1	1		
	2		
2	1		

	2		
	3		
3	1	.00	
	2	.00	
	3	.11	
	4	.89	
4	1	.00	.00
	2	.00	.00
	3	.06	.00
	4	.56	.00
	5	.38	1.00

a. Dependent Variable: ECd

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00589192239 5676	.01168916746 9740	.01098901098 9011	.00102610367 7364
Std. Predicted Value	-4.967	.682	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00783482659 6081	.01169509533 7927	.01100474546 9451	.00093036773 6735

Residual	- .00547149451 4495	.00254189618 8632	.00000000000 0000	.00109761053 7064
Std. Residual	-4.873	2.264	.000	.978
Stud. Residual	-4.916	2.494	-.006	1.058
Deleted Residual	- .00556936766 9523	.00308418576 6056	- .00001573448 0440	.00130503341 0391
Stud. Deleted Residual	-5.764	2.574	-.021	1.140
Mahal. Distance	.257	35.601	3.956	5.557
Cook's Distance	.000	1.994	.046	.221
Centered Leverage Value	.003	.396	.044	.062

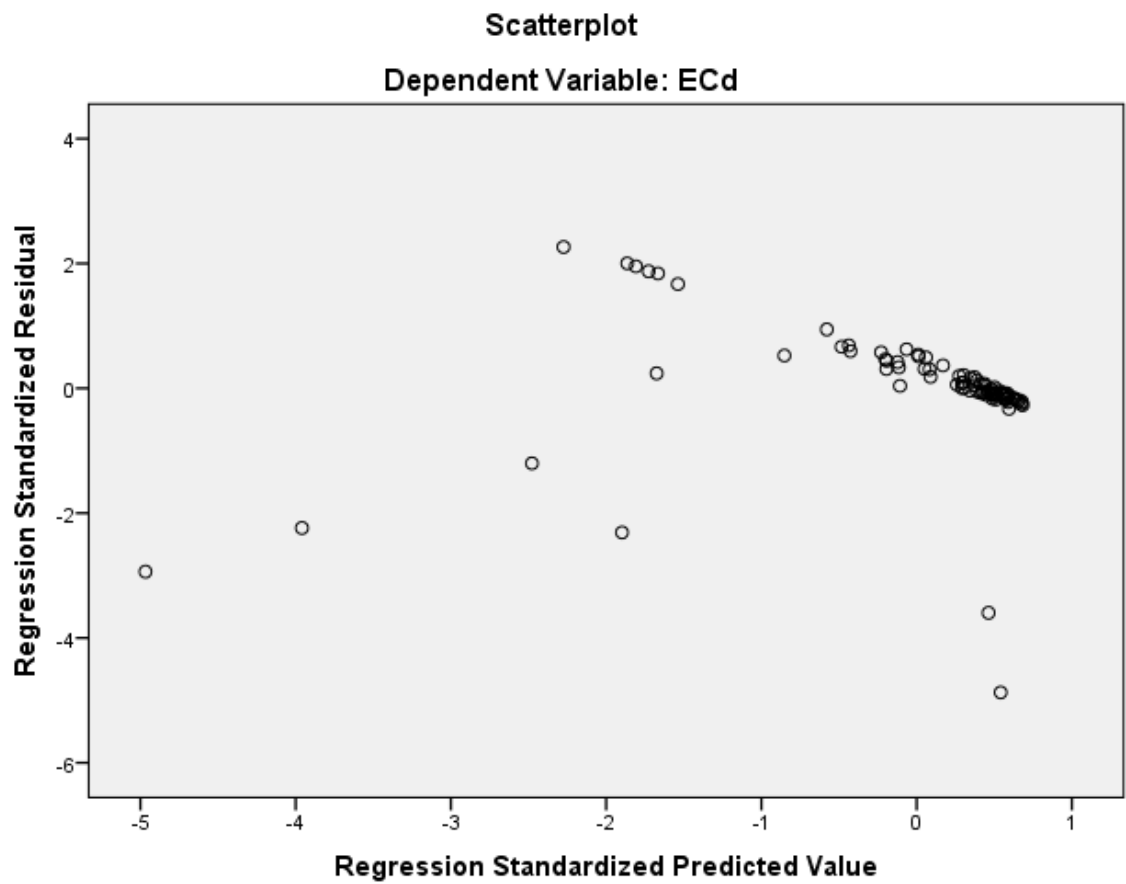
Residuals Statistics^a

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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 GD_d Tpaths_d TSpaths_d AvgPL_d
AvgGL_d PL_TpdN PL_TSpdN S_d R_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_28	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	Nodes		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).
4	Edges_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
5	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCdN

Model Summary^f

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

1	.633 ^a	.401	.394	.02037288227 7157
2	.723 ^b	.523	.512	.01827993765 2740
3	.789 ^c	.622	.609	.01636850709 3228
4	.813 ^d	.661	.645	.01559365230 3724
5	.825 ^e	.680	.662	.01522053521 8388

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, Nodes

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

d. Predictors: (Constant), Reciprocity, Nodes, S_d, Edges_d

e. Predictors: (Constant), Reciprocity, Nodes, S_d, Edges_d,
Tpaths_d

f. Dependent Variable: PL_EVCdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.025	1	.025	59.483	.000 ^b
	Residual	.037	89	.000		
	Total	.062	90			

2	Regression	.032	2	.016	48.215	.000 ^c
	Residual	.029	88	.000		
	Total	.062	90			
3	Regression	.038	3	.013	47.673	.000 ^d
	Residual	.023	87	.000		
	Total	.062	90			
4	Regression	.041	4	.010	41.862	.000 ^e
	Residual	.021	86	.000		
	Total	.062	90			
5	Regression	.042	5	.008	36.205	.000 ^f
	Residual	.020	85	.000		
	Total	.062	90			

a. Dependent Variable: PL_EVCdN

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, Nodes

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

e. Predictors: (Constant), Reciprocity, Nodes, S_d, Edges_d

f. Predictors: (Constant), Reciprocity, Nodes, S_d, Edges_d, Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.006	.002		2.733	.008
	Reciprocity	.446	.058	.633	7.713	.000
2	(Constant)	-.026	.007		-3.689	.000
	Reciprocity	.426	.052	.605	8.189	.000
	Nodes	2.940	.619	.351	4.748	.000
3	(Constant)	-.102	.017		-5.948	.000
	Reciprocity	.400	.047	.568	8.524	.000
	Nodes	5.531	.776	.660	7.126	.000
	S_d	4.391	.921	.440	4.770	.000
4	(Constant)	-.119	.017		-6.905	.000
	Reciprocity	.415	.045	.590	9.236	.000
	Nodes	12.048	2.203	1.438	5.468	.000
	S_d	4.927	.893	.494	5.515	.000
	Edges_d	-5.559	1.770	-.769	-3.140	.002
5	(Constant)	-.134	.018		-7.425	.000
	Reciprocity	.411	.044	.583	9.348	.000
	Nodes	10.710	2.228	1.278	4.807	.000
	S_d	4.897	.872	.491	5.615	.000
	Edges_d	-5.271	1.732	-.729	-3.042	.003
	Tpaths_d	2.455	1.070	.185	2.295	.024

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.994	1.006
	Nodes	.994	1.006
3	(Constant)		
	Reciprocity	.980	1.020
	Nodes	.507	1.973
	S_d	.510	1.962
4	(Constant)		
	Reciprocity	.968	1.033
	Nodes	.057	17.515
	S_d	.491	2.036
	Edges_d	.066	15.205
5	(Constant)		
	Reciprocity	.966	1.035
	Nodes	.053	18.802
	S_d	.491	2.036
	Edges_d	.065	15.285
	Tpaths_d	.578	1.729

a. Dependent Variable: PL_EVCdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	.351 ^b	4.748	.000	.452	.994	1.006	.994
	Edges_d	.304 ^b	3.978	.000	.390	.988	1.012	.988
	Den_d	-.300 ^b	-3.936	.000	-.387	.995	1.005	.995
	GD_d	.207 ^b	2.589	.011	.266	.992	1.008	.992
	Tpaths_d	.345 ^b	4.650	.000	.444	.994	1.007	.994
	TSpaths_d	.343 ^b	4.623	.000	.442	.994	1.006	.994
	AvgPL_d	.293 ^b	3.777	.000	.374	.977	1.024	.977
	AvgGL_d	.287 ^b	3.697	.000	.367	.981	1.019	.981
	PL_TpdN	.140 ^b	1.683	.096	.177	.959	1.043	.959
	PL_TSpdN	.097 ^b	1.181	.241	.125	.994	1.006	.994
	S_d	-.020 ^b	-.243	.809	-.026	.999	1.001	.999
	R_d	.097 ^b	1.181	.241	.125	.986	1.014	.986
2	Edges_d	-.511 ^c	-1.837	.070	-.193	.068	14.649	.068
	Den_d	.144 ^c	.764	.447	.082	.153	6.542	.153
	GD_d	.097 ^c	1.234	.221	.131	.873	1.145	.873

	Tpaths_d	.203 ^c	2.149	.034	.224	.581	1.720	.581
	TSpaths_d	.201 ^c	2.117	.037	.221	.581	1.720	.581
	AvgPL_d	.191 ^c	2.463	.016	.255	.853	1.172	.853
	AvgGL_d	.184 ^c	2.373	.020	.247	.856	1.168	.856
	PL_TpdN	.088 ^c	1.165	.247	.124	.938	1.066	.938
	PL_TSpdN	.063 ^c	.849	.398	.091	.984	1.016	.984
	S_d	.440 ^c	4.770	.000	.455	.510	1.962	.507
	R_d	.111 ^c	1.509	.135	.160	.984	1.016	.979
3	Edges_d	-.769 ^d	-3.140	.002	-.321	.066	15.205	.057
	Den_d	-.304 ^d	-1.600	.113	-.170	.119	8.422	.119
	GD_d	.010 ^d	.142	.887	.015	.815	1.228	.418
	Tpaths_d	.203 ^d	2.409	.018	.251	.581	1.720	.372
	TSpaths_d	.202 ^d	2.396	.019	.250	.581	1.720	.373
	AvgPL_d	.134 ^d	1.878	.064	.198	.826	1.211	.436
	AvgGL_d	.131 ^d	1.831	.071	.194	.832	1.202	.438
	PL_TpdN	.018 ^d	.258	.797	.028	.893	1.120	.473
	PL_TSpdN	.015 ^d	.223	.824	.024	.961	1.040	.491
	R_d	-.160 ^d	-1.869	.065	-.198	.574	1.743	.297
4	Den_d	-.022 ^e	-.103	.918	-.011	.089	11.256	.025
	GD_d	-.026 ^e	-.364	.717	-.039	.793	1.261	.052
	Tpaths_d	.185 ^e	2.295	.024	.242	.578	1.729	.053
	TSpaths_d	.183 ^e	2.261	.026	.238	.578	1.731	.053
	AvgPL_d	.125 ^e	1.829	.071	.195	.824	1.214	.055

	AvgGL_d	.118 ^e	1.730	.087	.184	.829	1.206	.055
	PL_TpdN	.004 ^e	.066	.947	.007	.889	1.125	.056
	PL_TSpdN	.001 ^e	.012	.990	.001	.956	1.046	.056
	R_d	-.132 ^e	-1.599	.114	-.171	.566	1.766	.057
5	Den_d	-.085 ^f	-.407	.685	-.044	.087	11.450	.023
	GD_d	-.102 ^f	-1.376	.173	-.148	.674	1.483	.051
	TSpaths_d	-3.628 ^f	-1.185	.239	-.128	.000	2505.239	.000
	AvgPL_d	-.062 ^f	-.417	.678	-.045	.173	5.787	.052
	AvgGL_d	-.092 ^f	-.624	.534	-.068	.174	5.735	.053
	PL_TpdN	.006 ^f	.096	.924	.010	.889	1.125	.052
	PL_TSpdN	-.006 ^f	-.097	.923	-.011	.954	1.048	.053
	R_d	-.085 ^f	-1.001	.320	-.109	.519	1.928	.052

a. Dependent Variable: PL_EVCdN

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

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

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

e. Predictors in the Model: (Constant), Reciprocity, Nodes, S_d, Edges_d

f. Predictors in the Model: (Constant), Reciprocity, Nodes, S_d, Edges_d, Tpaths_d

Collinearity Diagnostics^a

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

			Index	(Constant)	Reciprocity	Nodes
1	1	1.285	1.000	.36	.36	
	2	.715	1.341	.64	.64	
2	1	2.114	1.000	.02	.05	.02
	2	.849	1.578	.01	.95	.00
	3	.038	7.495	.98	.00	.98
3	1	3.009	1.000	.00	.02	.00
	2	.876	1.853	.00	.97	.00
	3	.108	5.287	.00	.00	.19
	4	.006	21.561	1.00	.01	.81
4	1	3.943	1.000	.00	.01	.00
	2	.884	2.111	.00	.97	.00
	3	.161	4.948	.00	.00	.00
	4	.009	21.129	.59	.02	.01
	5	.002	40.856	.40	.00	.99
5	1	4.920	1.000	.00	.00	.00
	2	.891	2.350	.00	.97	.00
	3	.161	5.522	.00	.00	.00
	4	.018	16.465	.00	.00	.01
	5	.007	26.490	.72	.02	.01
	6	.002	45.996	.27	.00	.98

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions		
		S_d	Edges_d	Tpaths_d
1	1			
	2			
2	1			
	2			
	3			
3	1	.00		
	2	.00		
	3	.12		
	4	.88		
4	1	.00	.00	
	2	.00	.00	
	3	.08	.01	
	4	.67	.13	
	5	.24	.86	
5	1	.00	.00	.00
	2	.00	.00	.00
	3	.09	.01	.00
	4	.19	.06	.65
	5	.50	.06	.33
	6	.23	.87	.02

a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

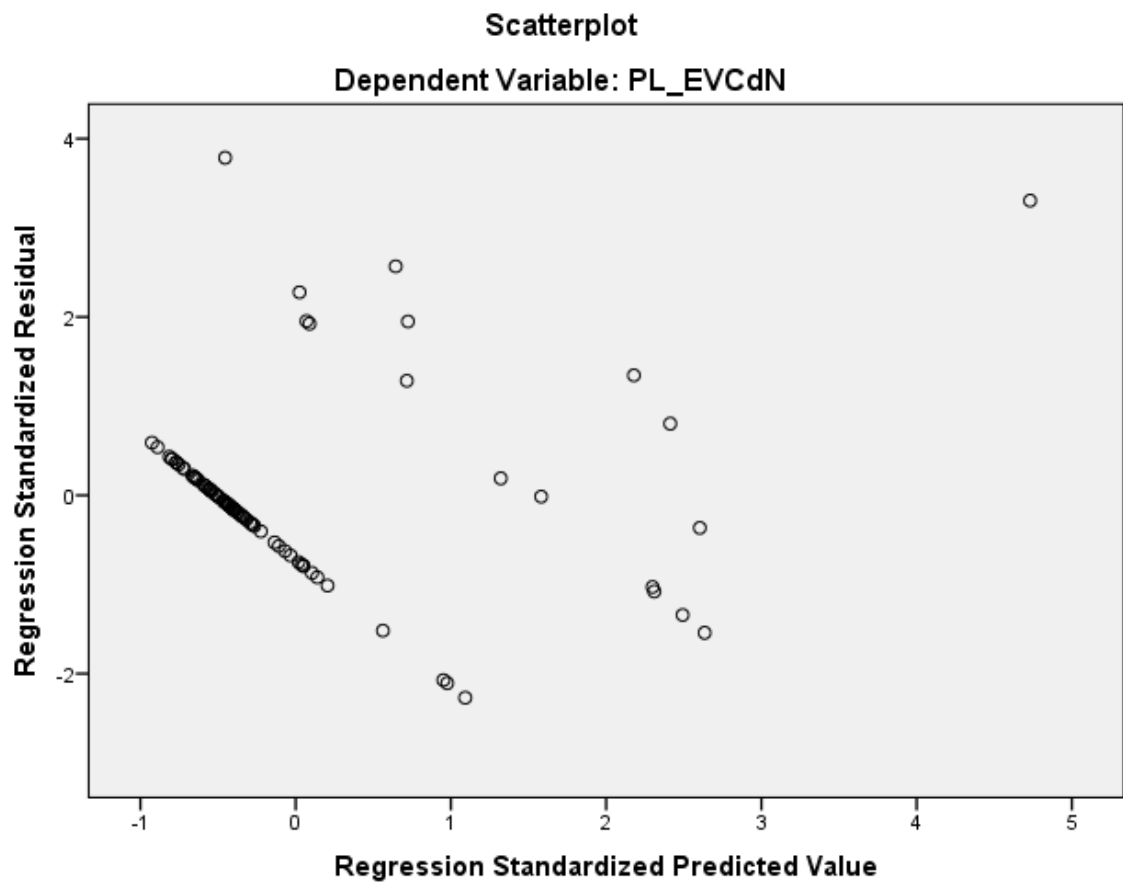
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00899412948 6382	.11311598122 1199	.01098901098 9011	.02158629504 0559
Std. Predicted Value	-.926	4.731	.000	1.000
Standard Error of Predicted Value	.002	.010	.003	.002
Adjusted Predicted Value	- .00926511827 8563	.07578946650 0282	.01076559219 7610	.02055492703 3576
Residual	- .03456868976 3546	.05762818083 1671	.00000000000 0000	.01479170144 5370
Std. Residual	-2.271	3.786	.000	.972
Stud. Residual	-2.366	4.371	.006	1.063
Deleted Residual	- .04076755419 3735	.08797772973 7759	.00022341879 1401	.01801217773 5416
Stud. Deleted Residual	-2.433	4.934	.017	1.117
Mahal. Distance	.271	40.862	4.945	7.540
Cook's Distance	.000	2.385	.045	.253
Centered Leverage Value	.003	.454	.055	.084

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 GD_d Tpaths_d TSpdN_d AvgPL_d
AvgGL_d PL_TpdN PL_TSpdN S_d R_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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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 EVCd_TpdN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpdN_d AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.22
	Memory Required	15552 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_29	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	GD_d		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: EVCd_TpdN

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.456 ^a	.208	.199	.004036707283551
2	.498 ^b	.248	.231	.003954996350869
3	.531 ^c	.282	.257	.003888632117386

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, GD_d

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

d. Dependent Variable: EVCd_TpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	23.369	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			
2	Regression	.000	2	.000	14.530	.000 ^c
	Residual	.001	88	.000		
	Total	.002	90			
3	Regression	.001	3	.000	11.363	.000 ^d

Residual	.001	87	.000		
Total	.002	90			

a. Dependent Variable: EVCd_TpdN

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, GD_d

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

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.019	.002		11.299	.000
	AvgGL_d	-.706	.146	-.456	-4.834	.000
2	(Constant)	.019	.002		11.726	.000
	AvgGL_d	-.476	.178	-.308	-2.678	.009
	GD_d	-.278	.128	-.250	-2.172	.033
3	(Constant)	.019	.002		11.978	.000
	AvgGL_d	-4.735	2.129	-3.060	-2.224	.029
	GD_d	-.329	.128	-.296	-2.567	.012
	AvgPL_d	4.302	2.143	2.786	2.007	.048

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.647	1.546
	GD_d	.647	1.546
3	(Constant)		
	AvgGL_d	.004	229.175
	GD_d	.621	1.611
	AvgPL_d	.004	233.266

a. Dependent Variable: EVCd_TpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	-.042 ^b	-.415	.679	-.044	.868	1.152	.868
	Edges_d	-.003 ^b	-.029	.977	-.003	.879	1.138	.879
	Reciprocity	.046 ^b	.478	.634	.051	.981	1.019	.981

	Den_d	.100 ^b	1.011	.315	.107	.905	1.105	.905
	GD_d	-.250 ^b	-2.172	.033	-.226	.647	1.546	.647
	Tpaths_d	-.199 ^b	-1.091	.278	-.115	.266	3.753	.266
	TSpaths_d	-.210 ^b	-1.155	.251	-.122	.268	3.729	.268
	AvgPL_d	2.070 ^b	1.477	.143	.155	.004	223.855	.004
	PL_TpdN	-.158 ^b	-1.673	.098	-.176	.981	1.019	.981
	PL_TSpdN	-.185 ^b	-1.967	.052	-.205	.971	1.030	.971
	S_d	-.027 ^b	-.286	.775	-.031	.982	1.018	.982
	R_d	-.184 ^b	-1.974	.052	-.206	.996	1.004	.996
2	Nodes	-.004 ^c	-.035	.972	-.004	.840	1.191	.620
	Edges_d	.028 ^c	.283	.778	.030	.861	1.162	.618
	Reciprocity	.048 ^c	.512	.610	.055	.981	1.019	.640
	Den_d	.059 ^c	.589	.557	.063	.866	1.155	.619
	Tpaths_d	-.209 ^c	-1.168	.246	-.124	.266	3.756	.229
	TSpaths_d	-.223 ^c	-1.253	.214	-.133	.268	3.733	.229
	AvgPL_d	2.786 ^c	2.007	.048	.210	.004	233.266	.004
	PL_TpdN	-.094 ^c	-.934	.353	-.100	.839	1.192	.553
	PL_TSpdN	-.135 ^c	-1.377	.172	-.146	.877	1.140	.585
	S_d	-.024 ^c	-.257	.798	-.028	.982	1.018	.638
	R_d	-.133 ^c	-1.365	.176	-.145	.894	1.118	.580
3	Nodes	.003 ^d	.034	.973	.004	.839	1.192	.004
	Edges_d	.019 ^d	.188	.851	.020	.859	1.164	.004

Reciprocity	.001 ^d	.009	.993	.001	.917	1.091	.004
Den_d	.039 ^d	.399	.691	.043	.857	1.167	.004
Tpaths_d	-.206 ^d	-1.171	.245	-.125	.266	3.756	.004
TSpaths_d	-.206 ^d	-1.175	.243	-.126	.267	3.742	.004
PL_TpdN	-.123 ^d	-1.232	.221	-.132	.824	1.214	.004
PL_TSpdN	-.120 ^d	-1.239	.219	-.132	.872	1.147	.004
S_d	-.048 ^d	-.518	.606	-.056	.967	1.035	.004
R_d	-.168 ^d	-1.742	.085	-.185	.872	1.147	.004

a. Dependent Variable: EVCd_TpdN

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

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	GD_d
1	1	1.967	1.000	.02	.02	
	2	.033	7.711	.98	.98	
2	1	2.910	1.000	.01	.00	.01
	2	.062	6.868	.44	.01	.70
	3	.028	10.228	.55	.99	.29

3	1	3.897	1.000	.00	.00	.00
	2	.062	7.912	.34	.00	.76
	3	.041	9.767	.65	.00	.20
	4	.000	166.116	.00	1.00	.03

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		AvgPL_d
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.00
	3	.00
	4	1.00

a. Dependent Variable: EVCd_TpdN

Residuals Statistics^a

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

Predicted Value	.00201915320 9403	.01423996128 1419	.01098901098 9011	.00239324174 1336
Std. Predicted Value	-3.748	1.358	.000	1.000
Standard Error of Predicted Value	.000	.004	.001	.000
Adjusted Predicted Value	.00258927699 1785	.01816049590 7068	.01103321877 1726	.00248680695 9824
Residual	- .01341788098 2161	.00917507056 1469	.00000000000 0000	.00382327230 0820
Std. Residual	-3.451	2.359	.000	.983
Stud. Residual	-3.506	2.455	-.003	1.006
Deleted Residual	- .01384903397 4111	.00992967467 7551	- .00004420778 2715	.00402365527 4491
Stud. Deleted Residual	-3.761	2.530	-.012	1.034
Mahal. Distance	.351	75.297	2.967	8.108
Cook's Distance	.000	.300	.015	.040
Centered Leverage Value	.004	.837	.033	.090

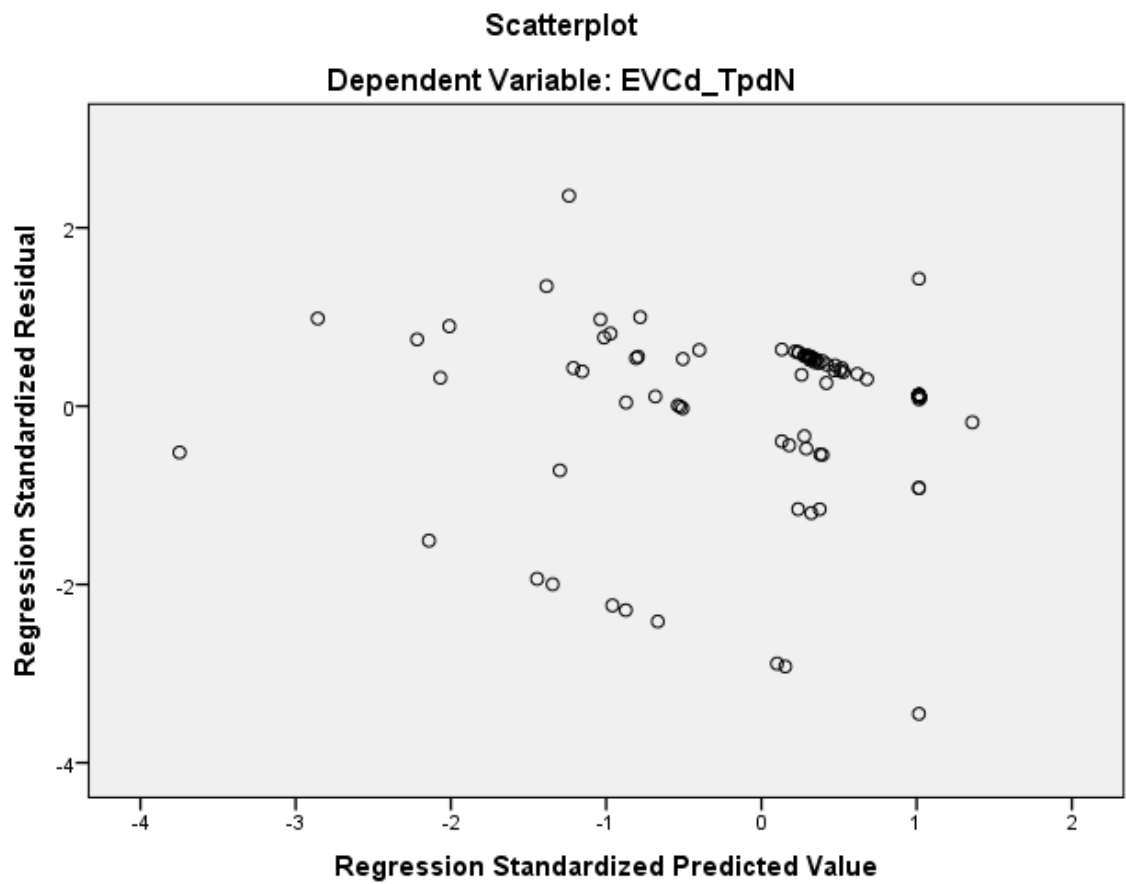
Residuals Statistics^a

	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 GD_d Tpaths_d TSpdN_d AvgPL_d
AvgGL_d PL_TpdN PL_TSpdN S_d R_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 EVCd_TSpdN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpdN_d AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.25
	Elapsed Time	00:00:00.22
	Memory Required	15584 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_30	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	GD_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	.457 ^a	.209	.200	.004040925417343
2	.500 ^b	.250	.233	.003957333149272

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, GD_d

c. Dependent Variable: EVCd_TSpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	23.525	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			
2	Regression	.000	2	.000	14.665	.000 ^c
	Residual	.001	88	.000		
	Total	.002	90			

a. Dependent Variable: EVCd_TSpdN

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, GD_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	.019	.002		11.307	.000
	AvgGL_d	-.709	.146	-.457	-4.850	.000
2	(Constant)	.019	.002		11.743	.000
	AvgGL_d	-.477	.178	-.308	-2.682	.009
	GD_d	-.280	.128	-.251	-2.191	.031

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.647	1.546
	GD_d	.647	1.546

a. Dependent Variable: EVCd_TSpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.045 ^b	-.438	.662	-.047	.868	1.152

	Edges_d	-.005 ^b	-.054	.957	-.006	.879	1.138
	Reciprocity	.040 ^b	.423	.673	.045	.981	1.019
	Den_d	.102 ^b	1.030	.306	.109	.905	1.105
	GD_d	-.251 ^b	-2.191	.031	-.227	.647	1.546
	Tpaths_d	-.199 ^b	-1.092	.278	-.116	.266	3.753
	TSpaths_d	-.210 ^b	-1.155	.251	-.122	.268	3.729
	AvgPL_d	1.991 ^b	1.420	.159	.150	.004	223.855
	PL_TpdN	-.159 ^b	-1.687	.095	-.177	.981	1.019
	PL_TSpdN	-.185 ^b	-1.961	.053	-.205	.971	1.030
	S_d	-.030 ^b	-.313	.755	-.033	.982	1.018
	R_d	-.187 ^b	-2.018	.047	-.210	.996	1.004
2	Nodes	-.006 ^c	-.056	.956	-.006	.840	1.191
	Edges_d	.026 ^c	.260	.795	.028	.861	1.162
	Reciprocity	.043 ^c	.456	.649	.049	.981	1.019
	Den_d	.060 ^c	.605	.546	.065	.866	1.155
	Tpaths_d	-.209 ^c	-1.171	.245	-.125	.266	3.756
	TSpaths_d	-.223 ^c	-1.253	.214	-.133	.268	3.733
	AvgPL_d	2.708 ^c	1.951	.054	.205	.004	233.266
	PL_TpdN	-.095 ^c	-.941	.349	-.100	.839	1.192
	PL_TSpdN	-.134 ^c	-1.365	.176	-.145	.877	1.140
	S_d	-.027 ^c	-.284	.777	-.030	.982	1.018
	R_d	-.136 ^c	-1.406	.163	-.149	.894	1.118

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.868
	Edges_d	.879
	Reciprocity	.981
	Den_d	.905
	GD_d	.647
	Tpaths_d	.266
	TSpaths_d	.268
	AvgPL_d	.004
	PL_TpdN	.981
	PL_TSpdN	.971
	S_d	.982
	R_d	.996
2	Nodes	.620
	Edges_d	.618
	Reciprocity	.640
	Den_d	.619
	Tpaths_d	.229
	TSpaths_d	.229
	AvgPL_d	.004

PL_TpdN	.553
PL_TSpdN	.585
S_d	.638
R_d	.580

a. Dependent Variable: EVCd_TSpdN

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	GD_d
1	1	1.967	1.000	.02	.02	
	2	.033	7.711	.98	.98	
2	1	2.910	1.000	.01	.00	.01
	2	.062	6.868	.44	.01	.70
	3	.028	10.228	.55	.99	.29

a. Dependent Variable: EVCd_TSpdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00303086265 9216	.01349220611 1550	.01098901098 9011	.00225908865 7773
Std. Predicted Value	-3.523	1.108	.000	1.000
Standard Error of Predicted Value	.000	.002	.001	.000
Adjusted Predicted Value	.00379649852 4025	.01392495073 3781	.01099568778 7657	.00224864771 8861
Residual	- .01349220611 1550	.00897090788 9307	.00000000000 0000	.00391311574 8608
Std. Residual	-3.409	2.267	.000	.989
Stud. Residual	-3.464	2.357	-.001	1.010
Deleted Residual	- .01392495073 3781	.00970008876 1747	- .00000667679 8646	.00408259528 1829
Stud. Deleted Residual	-3.706	2.422	-.010	1.037
Mahal. Distance	.082	17.161	1.978	2.479
Cook's Distance	.000	.161	.015	.033
Centered Leverage Value	.001	.191	.022	.028

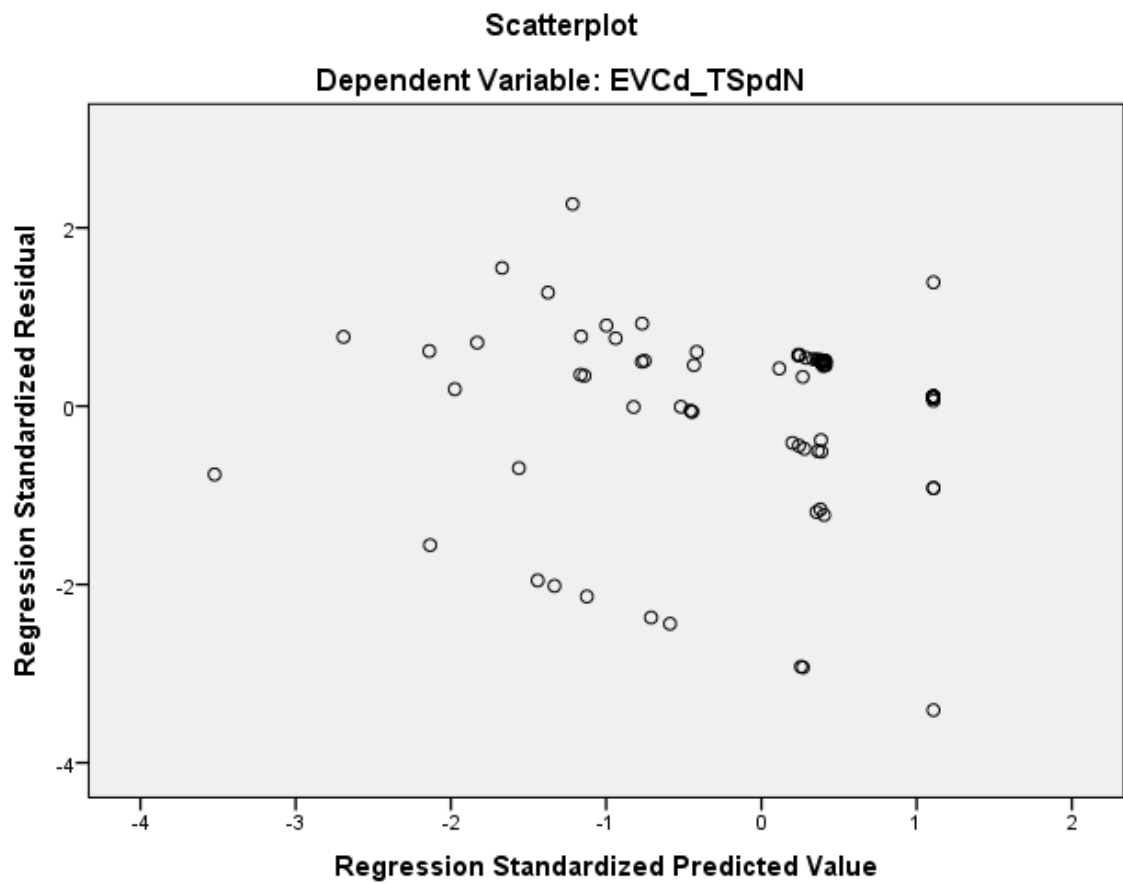
Residuals Statistics^a

	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 Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpdN_d AvgPL_d
AvgGL_d PL_TpdN PL_TSpdN S_d R_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 ECd /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpdN_d AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.22
	Memory Required	15632 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_31	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	PL_TpdN		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	.434 ^a	.189	.179	.00090036073 3665
2	.515 ^b	.265	.248	.00086188912 3951

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, PL_TpdN

c. Dependent Variable: ECd

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	20.218	.000 ^b
	Residual	.000	87	.000		
	Total	.000	88			
2	Regression	.000	2	.000	15.502	.000 ^c
	Residual	.000	86	.000		
	Total	.000	88			

a. Dependent Variable: ECd

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, PL_TpdN

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	.011	.000		114.128	.000
	Reciprocity	-.012	.003	-.434	-4.496	.000
2	(Constant)	.012	.000		36.313	.000
	Reciprocity	-.010	.003	-.374	-3.953	.000
	PL_TpdN	-.089	.030	-.283	-2.990	.004

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.955	1.047
	PL_TpdN	.955	1.047

a. Dependent Variable: ECd

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.088 ^b	-.907	.367	-.097	1.000	1.000

	Edges_d	-.090 ^b	-.927	.357	-.099	1.000	1.000
	Den_d	.097 ^b	1.006	.317	.108	1.000	1.000
	GD_d	-.082 ^b	-.844	.401	-.091	.997	1.003
	Tpaths_d	-.096 ^b	-.989	.325	-.106	.999	1.001
	TSpaths_d	-.089 ^b	-.925	.357	-.099	1.000	1.000
	AvgPL_d	-.106 ^b	-1.091	.278	-.117	.990	1.010
	AvgGL_d	-.087 ^b	-.896	.373	-.096	.993	1.007
	PL_TpdN	-.283 ^b	-2.990	.004	-.307	.955	1.047
	PL_TSpdN	-.185 ^b	-1.938	.056	-.205	.991	1.009
	S_d	.056 ^b	.582	.562	.063	1.000	1.000
	R_d	-.014 ^b	-.142	.888	-.015	.994	1.006
2	Nodes	-.030 ^c	-.317	.752	-.034	.954	1.048
	Edges_d	-.027 ^c	-.281	.779	-.030	.946	1.057
	Den_d	.047 ^c	.502	.617	.054	.965	1.036
	GD_d	.028 ^c	.282	.779	.031	.850	1.176
	Tpaths_d	-.062 ^c	-.663	.509	-.072	.984	1.017
	TSpaths_d	-.057 ^c	-.607	.546	-.066	.985	1.015
	AvgPL_d	-.065 ^c	-.691	.492	-.075	.967	1.034
	AvgGL_d	-.048 ^c	-.514	.608	-.056	.973	1.028
	PL_TSpdN	.135 ^c	.822	.414	.089	.320	3.128
	S_d	.067 ^c	.717	.475	.078	.999	1.001
	R_d	.079 ^c	.809	.421	.087	.900	1.111

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	1.000
	Edges_d	1.000
	Den_d	1.000
	GD_d	.997
	Tpaths_d	.999
	TSpaths_d	1.000
	AvgPL_d	.990
	AvgGL_d	.993
	PL_TpdN	.955
	PL_TSpdN	.991
	S_d	1.000
	R_d	.994
2	Nodes	.911
	Edges_d	.903
	Den_d	.922
	GD_d	.815
	Tpaths_d	.940
	TSpaths_d	.941
	AvgPL_d	.933

AvgGL_d	.935
PL_TSpdN	.308
S_d	.953
R_d	.864

a. Dependent Variable: ECd

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	PL_TpdN
1	1	1.257	1.000	.37	.37	
	2	.743	1.301	.63	.63	
2	1	2.104	1.000	.02	.05	.02
	2	.859	1.565	.01	.92	.00
	3	.037	7.551	.98	.03	.98

a. Dependent Variable: ECd

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00899407174 4382	.01223877631 1278	.01115724725 2558	.00051158331 2773
Std. Predicted Value	-4.228	2.114	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00907814688 9806	.01238412037 4918	.01116090831 4028	.00051805689 2333
Residual	- .00513766752 5560	.00161334115 5462	.00000000000 0000	.00085203863 9027
Std. Residual	-5.961	1.872	.000	.989
Stud. Residual	-5.999	2.118	-.002	1.035
Deleted Residual	- .00520318374 0377	.00206620269 4550	- .00000366106 1470	.00093835763 3422
Stud. Deleted Residual	-7.820	2.163	-.031	1.193
Mahal. Distance	.070	19.517	1.978	4.238
Cook's Distance	.000	1.152	.037	.149
Centered Leverage Value	.001	.222	.022	.048

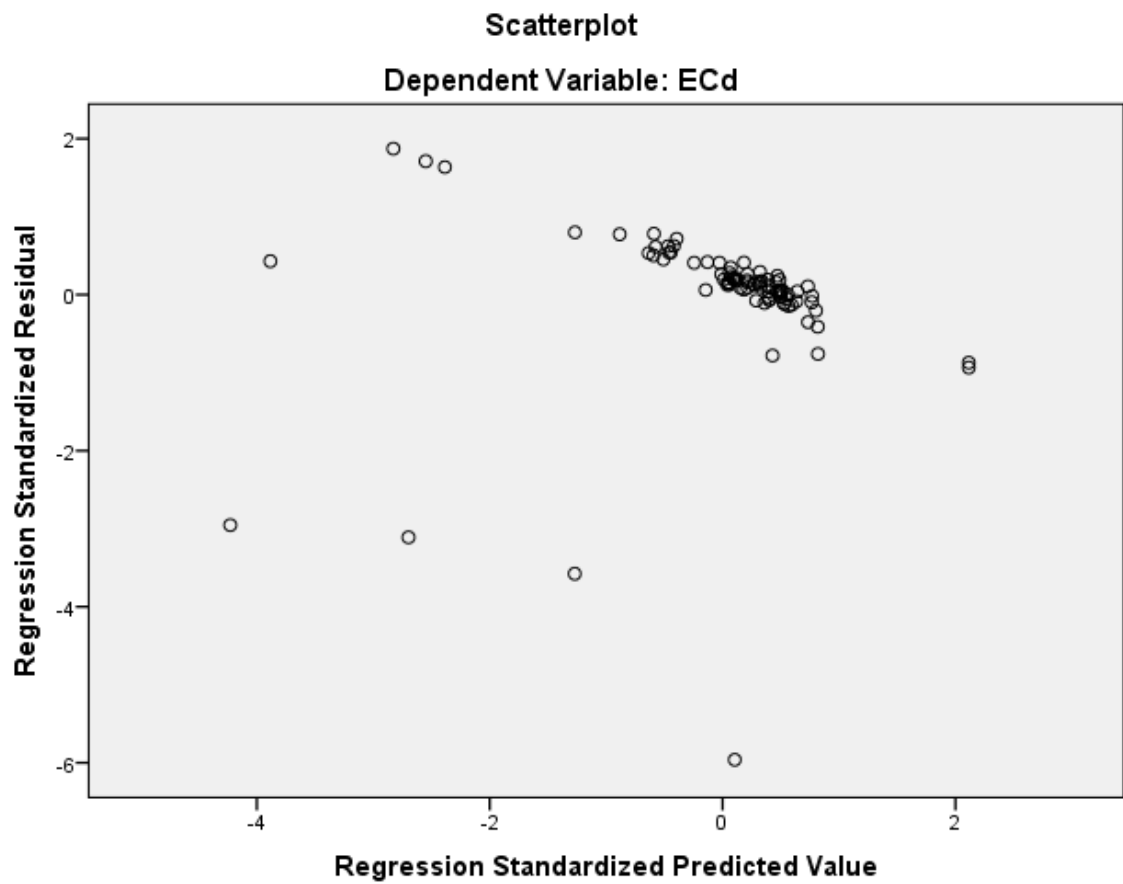
Residuals Statistics^a

	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: 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 GD_d Tpaths_d TSpdN_d AvgPL_d
AvgGL_d PL_TpdN PL_TSpdN S_d R_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 PL_EVCdN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpdN_d AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.22
	Memory Required	15664 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_32	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	.635 ^a	.404	.397	.01589305374 0858
2	.738 ^b	.545	.534	.01396543616 5329
3	.753 ^c	.567	.552	.01369849338 4422

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	.015	1	.015	58.907	.000 ^b
	Residual	.022	87	.000		
	Total	.037	88			
2	Regression	.020	2	.010	51.483	.000 ^c
	Residual	.017	86	.000		
	Total	.037	88			
3	Regression	.021	3	.007	37.134	.000 ^d

Residual	.016	85	.000		
Total	.037	88			

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)	.005	.002		3.128	.002
	Reciprocity	.358	.047	.635	7.675	.000
2	(Constant)	-.038	.009		-4.448	.000
	Reciprocity	.353	.041	.625	8.595	.000
	Tpaths_d	4.007	.776	.376	5.165	.000
3	(Constant)	-.047	.009		-4.993	.000
	Reciprocity	.335	.041	.593	8.122	.000
	Tpaths_d	3.807	.767	.357	4.963	.000
	PL_TpdN	1.002	.479	.154	2.094	.039

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	.955	1.047
	Tpaths_d	.984	1.017
	PL_TpdN	.940	1.064

a. Dependent Variable: PL_EVCdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	.317 ^b	4.173	.000	.410	1.000	1.000	1.000
	Edges_d	.284 ^b	3.670	.000	.368	1.000	1.000	1.000
	Den_d	-.269 ^b	-3.452	.001	-.349	1.000	1.000	1.000

	GD_d	.186 ^b	2.292	.024	.240	.997	1.003	.997
	Tpaths_d	.376 ^b	5.165	.000	.487	.999	1.001	.999
	TSpaths_d	.374 ^b	5.125	.000	.484	1.000	1.000	1.000
	AvgPL_d	.287 ^b	3.688	.000	.370	.990	1.010	.990
	AvgGL_d	.279 ^b	3.585	.001	.361	.993	1.007	.993
	PL_TpdN	.200 ^b	2.422	.018	.253	.955	1.047	.955
	PL_TSpdN	.149 ^b	1.819	.072	.192	.991	1.009	.991
	S_d	-.165 ^b	-2.035	.045	-.214	1.000	1.000	1.000
	R_d	-.024 ^b	-.282	.779	-.030	.994	1.006	.994
2	Nodes	.139 ^c	1.527	.130	.163	.626	1.596	.626
	Edges_d	.103 ^c	1.164	.247	.125	.673	1.485	.673
	Den_d	-.090 ^c	-1.034	.304	-.111	.698	1.433	.697
	GD_d	-.006 ^c	-.075	.940	-.008	.742	1.348	.742
	TSpaths_d	-4.594 ^c	-1.370	.174	-.147	.000	2147.704	.000
	AvgPL_d	-.118 ^c	-.854	.396	-.092	.279	3.582	.279
	AvgGL_d	-.145 ^c	-1.051	.296	-.113	.278	3.598	.278
	PL_TpdN	.154 ^c	2.094	.039	.221	.940	1.064	.940
	PL_TSpdN	.101 ^c	1.375	.173	.148	.974	1.027	.974
	S_d	.013 ^c	.158	.875	.017	.781	1.280	.781
	R_d	.057 ^c	.766	.446	.083	.951	1.051	.951
3	Nodes	.110 ^d	1.202	.233	.130	.607	1.646	.607
	Edges_d	.070 ^d	.785	.435	.085	.647	1.546	.647

Den_d	-.066 ^d	-.764	.447	-.083	.684	1.462	.684
GD_d	-.083 ^d	-.926	.357	-.101	.638	1.567	.638
TSpaths_d	-3.594 ^d	-1.074	.286	-.116	.000	2202.091	.000
AvgPL_d	-.143 ^d	-1.059	.293	-.115	.277	3.610	.277
AvgGL_d	-.165 ^d	-1.223	.225	-.132	.277	3.615	.277
PL_TSpdN	-.071 ^d	-.561	.576	-.061	.319	3.137	.308
S_d	-.005 ^d	-.064	.949	-.007	.772	1.295	.761
R_d	.005 ^d	.066	.947	.007	.839	1.192	.829

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	1.257	1.000	.37	.37	
	2	.743	1.301	.63	.63	
2	1	2.105	1.000	.01	.04	.01
	2	.880	1.547	.00	.96	.00
	3	.015	11.868	.99	.00	.99

3	1	3.043	1.000	.00	.01	.00
	2	.892	1.847	.00	.95	.00
	3	.050	7.782	.04	.04	.14
	4	.014	14.605	.95	.00	.85

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TpdN
1	1	
	2	
2	1	
	2	
	3	
3	1	.01
	2	.00
	3	.93
	4	.06

a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation

Predicted Value	- .01095522381 3653	.07025270164 0129	.00889527655 8856	.01541269654 5593
Std. Predicted Value	-1.288	3.981	.000	1.000
Standard Error of Predicted Value	.002	.007	.003	.001
Adjusted Predicted Value	- .01295112632 2150	.07813007384 5387	.00885241350 3455	.01563152181 7014
Residual	- .03136141225 6956	.05708774551 7492	.00000000000 0000	.01346297164 5009
Std. Residual	-2.289	4.167	.000	.983
Stud. Residual	-2.601	4.204	.002	1.021
Deleted Residual	- .04047720879 3163	.05808826908 4692	.00004286305 5401	.01458232230 0161
Stud. Deleted Residual	-2.695	4.696	.014	1.072
Mahal. Distance	.079	20.235	2.966	5.253
Cook's Distance	.000	.492	.023	.072
Centered Leverage Value	.001	.230	.034	.060

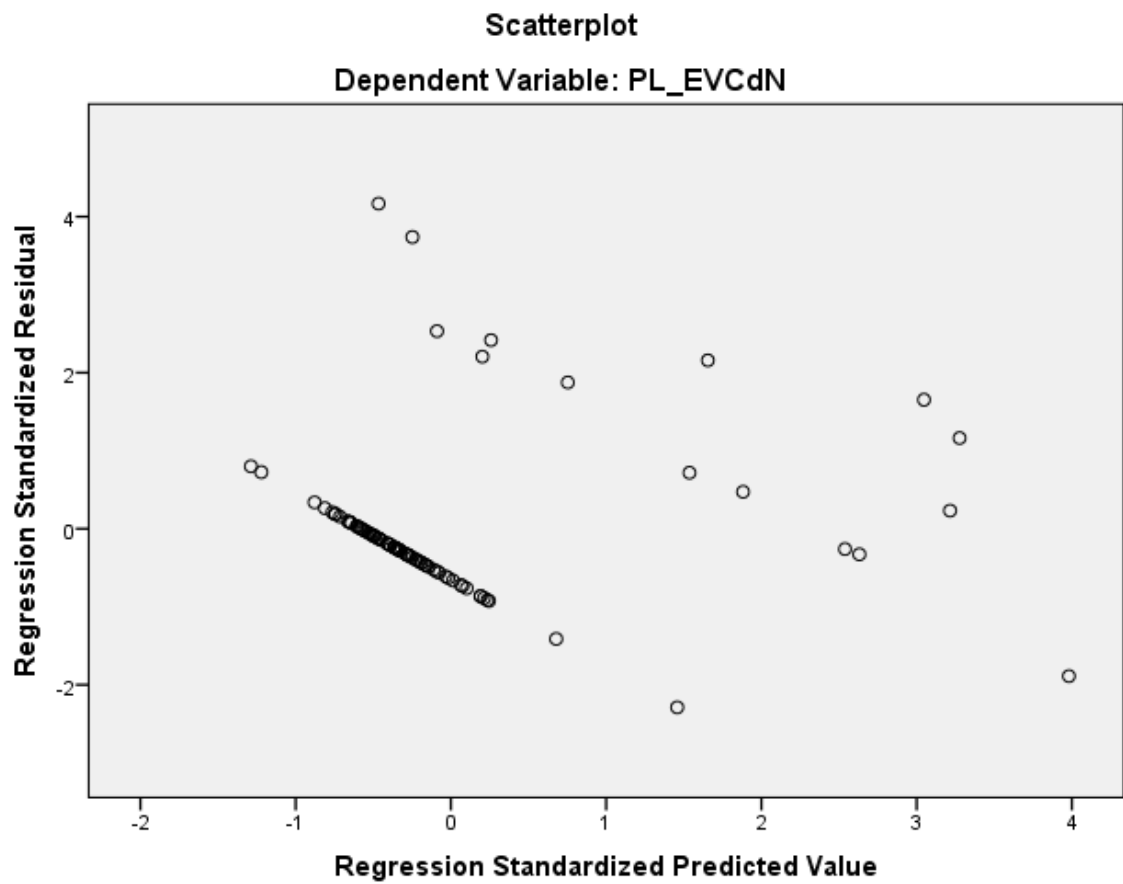
Residuals Statistics^a

	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

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

/NOORIGIN

/DEPENDENT ECd

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpdN_d AvgPL_d
AvgGL_d PL_TpdN PL_TSpdN S_d R_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 ECd /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpdN_d AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
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	Elapsed Time	00:00:00.18
	Memory Required	15712 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_33	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	PL_TpdN		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: ECd

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.297 ^a	.088	.078	.00082676262 2640
2	.375 ^b	.140	.120	.00080757722 7980

a. Predictors: (Constant), PL_TpdN

b. Predictors: (Constant), PL_TpdN, Reciprocity

c. Dependent Variable: ECd

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	8.348	.005 ^b
	Residual	.000	86	.000		
	Total	.000	87			
2	Regression	.000	2	.000	6.942	.002 ^c
	Residual	.000	85	.000		
	Total	.000	87			

a. Dependent Variable: ECd

b. Predictors: (Constant), PL_TpdN

c. Predictors: (Constant), PL_TpdN, Reciprocity

Coefficients^a

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

		B	Std. Error	Beta		
1	(Constant)	.012	.000		37.164	.000
	PL_TpdN	-.083	.029	-.297	-2.889	.005
2	(Constant)	.012	.000		37.849	.000
	PL_TpdN	-.075	.028	-.268	-2.642	.010
	Reciprocity	-.006	.003	-.230	-2.266	.026

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	PL_TpdN	1.000	1.000
2	(Constant)		
	PL_TpdN	.983	1.017
	Reciprocity	.983	1.017

a. Dependent Variable: ECd

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.060 ^b	-.567	.572	-.061	.951	1.052

	Edges_d	-.066 ^b	-.622	.535	-.067	.940	1.064
	Reciprocity	-.230 ^b	-2.266	.026	-.239	.983	1.017
	Den_d	.086 ^b	.814	.418	.088	.961	1.040
	GD_d	-.004 ^b	-.040	.968	-.004	.844	1.185
	Tpaths_d	-.062 ^b	-.594	.554	-.064	.986	1.015
	TSpaths_d	-.053 ^b	-.507	.613	-.055	.987	1.014
	AvgPL_d	-.051 ^b	-.488	.627	-.053	.979	1.021
	AvgGL_d	-.022 ^b	-.214	.831	-.023	.983	1.017
	PL_TSpdN	.314 ^b	1.807	.074	.192	.342	2.927
	S_d	.068 ^b	.654	.515	.071	.998	1.002
	R_d	.010 ^b	.087	.931	.009	.885	1.130
2	Nodes	-.065 ^c	-.633	.529	-.069	.950	1.052
	Edges_d	-.066 ^c	-.633	.528	-.069	.940	1.064
	Den_d	.085 ^c	.825	.412	.090	.961	1.040
	GD_d	-.001 ^c	-.010	.992	-.001	.844	1.185
	Tpaths_d	-.064 ^c	-.630	.530	-.069	.985	1.015
	TSpaths_d	-.057 ^c	-.557	.579	-.061	.986	1.014
	AvgPL_d	-.045 ^c	-.444	.658	-.048	.979	1.022
	AvgGL_d	-.021 ^c	-.208	.836	-.023	.983	1.017
	PL_TSpdN	.248 ^c	1.423	.158	.153	.329	3.041
	S_d	.068 ^c	.669	.505	.073	.998	1.002
	R_d	.029 ^c	.271	.787	.030	.879	1.138

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.951
	Edges_d	.940
	Reciprocity	.983
	Den_d	.961
	GD_d	.844
	Tpaths_d	.986
	TSpaths_d	.987
	AvgPL_d	.979
	AvgGL_d	.983
	PL_TSpdN	.342
	S_d	.998
	R_d	.885
2	Nodes	.935
	Edges_d	.925
	Den_d	.946
	GD_d	.833
	Tpaths_d	.969
	TSpaths_d	.970
	AvgPL_d	.964

AvgGL_d	.967
PL_TSpdN	.323
S_d	.982
R_d	.877

a. Dependent Variable: ECd

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	PL_TpdN	Reciprocity
1	1	1.963	1.000	.02	.02	
	2	.037	7.262	.98	.98	
2	1	2.078	1.000	.02	.02	.04
	2	.885	1.532	.00	.00	.95
	3	.037	7.506	.98	.98	.01

a. Dependent Variable: ECd

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00988440029 3231	.01207540370 5239	.01121075806 6655	.00032261318 5580
Std. Predicted Value	-4.111	2.680	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00999837741 2558	.01219409052 2826	.01121244973 0697	.00033789986 5946
Residual	- .00514245126 3964	.00097013055 3469	.00000000000 0000	.00079824076 1277
Std. Residual	-6.368	1.201	.000	.988
Stud. Residual	-6.408	1.404	-.001	1.024
Deleted Residual	- .00520804291 5910	.00132556282 9152	- .00000169166 4042	.00085975948 0753
Stud. Deleted Residual	-8.861	1.412	-.041	1.257
Mahal. Distance	.059	22.339	1.977	4.546
Cook's Distance	.000	.901	.028	.122
Centered Leverage Value	.001	.257	.023	.052

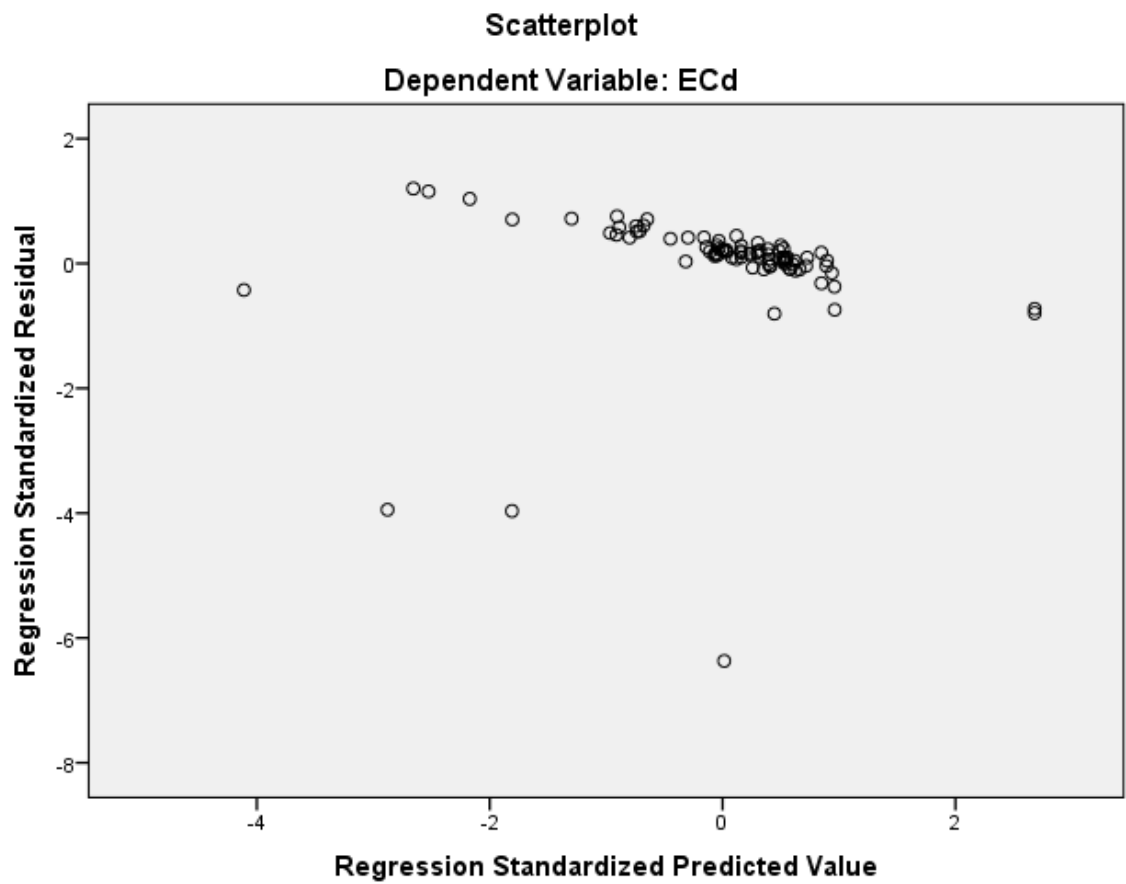
Residuals Statistics^a

	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: ECd

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.
	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 GD_d
		Tpaths_d TSpats_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
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	Elapsed Time	00:00:00.21
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	Additional Memory	
	Required for Residual	0 bytes
Plots		
Variables Created or	COO_16	
Modified		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).
2	AvgGL_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	.286 ^a	.082	.071	.00144788992 4564
2	.364 ^b	.133	.113	.00141511720 5222

a. Predictors: (Constant), AvgPL_d

b. Predictors: (Constant), AvgPL_d, AvgGL_d

c. Dependent Variable: ECd

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	7.923	.006 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	6.732	.002 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: ECd

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)	.013	.001		21.226	.000

	AvgPL_d	-.147	.052	-.286	-2.815	.006
2	(Constant)	.013	.001		21.534	.000
	AvgPL_d	-1.880	.764	-3.656	-2.461	.016
	AvgGL_d	1.741	.766	3.377	2.274	.025

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000
2	(Constant)		
	AvgPL_d	.004	223.855
	AvgGL_d	.004	223.855

a. Dependent Variable: ECd

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.050 ^b	.390	.698	.042	.636	1.573
	Tpaths_d	-.083 ^b	-.422	.674	-.045	.270	3.697
	TSpaths_d	-.065 ^b	-.332	.741	-.035	.275	3.640

	AvgGL_d	3.377 ^b	2.274	.025	.236	.004	223.855
2	GD_d	.095 ^c	.754	.453	.081	.621	1.611
	Tpaths_d	-.138 ^c	-.717	.475	-.077	.266	3.754
	TSpaths_d	-.139 ^c	-.720	.473	-.077	.267	3.740

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.636
	Tpaths_d	.270
	TSpaths_d	.275
	AvgGL_d	.004
2	GD_d	.004
	Tpaths_d	.004
	TSpaths_d	.004

a. Dependent Variable: ECd

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
-------	-----------	------------	-----------	----------------------

			Index	(Constant)	AvgPL_d	AvgGL_d
1	1	1.967	1.000	.02	.02	
	2	.033	7.695	.98	.98	
2	1	2.956	1.000	.01	.00	.00
	2	.044	8.190	.99	.00	.00
	3	.000	142.390	.00	1.00	1.00

a. Dependent Variable: ECd

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00724680954 5904	.01138512697 0708	.01098901098 9011	.00054734103 0216
Std. Predicted Value	-6.837	.724	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00799652375 2809	.01139725837 8565	.01099610211 8075	.00049881058 8039
Residual	- .00780589459 4640	.00110140489 4143	.00000000000 0000	.00139930534 3524
Std. Residual	-5.516	.778	.000	.989
Stud. Residual	-5.679	.808	-.001	1.009

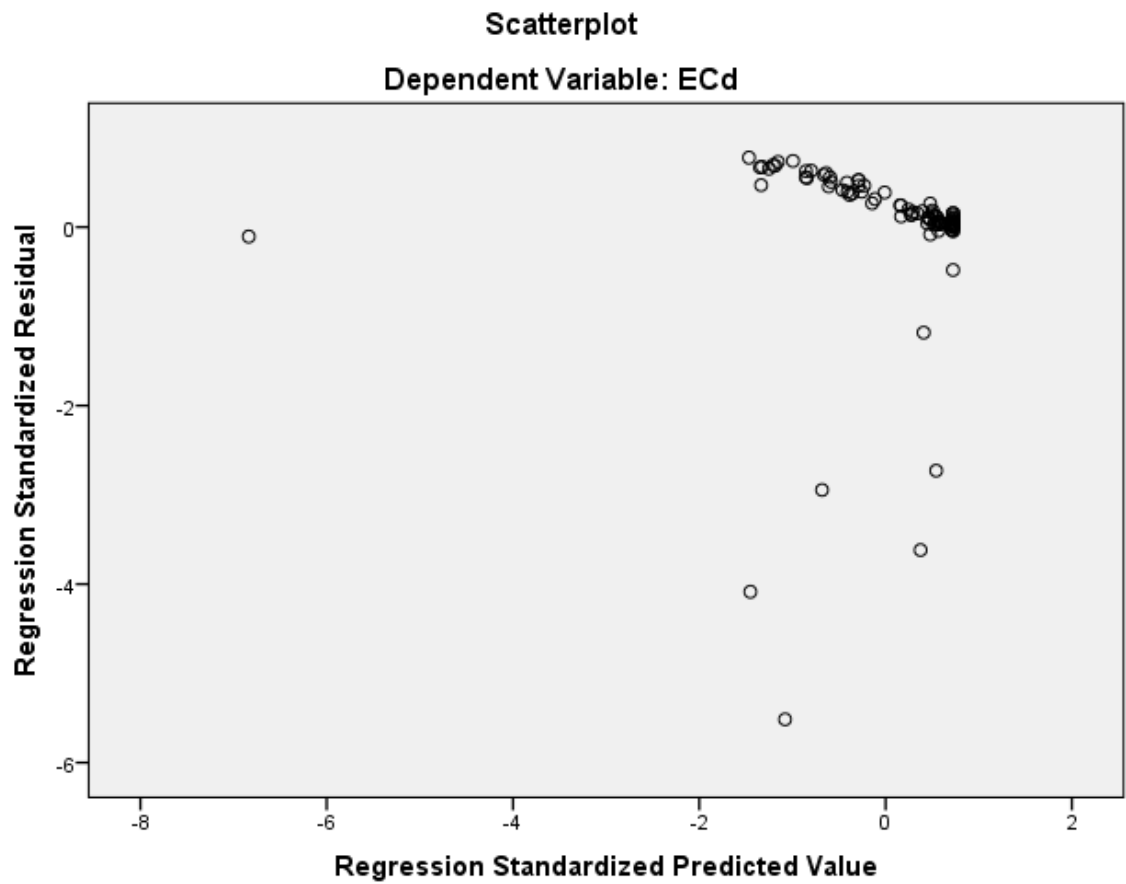
Deleted Residual	- .00827436614 7816	.00118757050 9501	- .00000709112 9065	.00145847061 8075
Stud. Deleted Residual	-7.095	.807	-.029	1.141
Mahal. Distance	.061	73.995	1.978	7.776
Cook's Distance	.000	.645	.015	.073
Centered Leverage Value	.001	.822	.022	.086

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 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.
	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.
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	Elapsed Time	00:00:00.25
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	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_17	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).
2	TSpaths_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	.394 ^a	.155	.146	.024189378219835
2	.457 ^b	.209	.191	.023535997450127

a. Predictors: (Constant), Tpaths_d

b. Predictors: (Constant), Tpaths_d, TSpaths_d

c. Dependent Variable: PL_EVCdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.010	1	.010	16.325	.000 ^b
	Residual	.052	89	.001		
	Total	.062	90			
2	Regression	.013	2	.006	11.627	.000 ^c
	Residual	.049	88	.001		
	Total	.062	90			

a. Dependent Variable: PL_EVCdN

b. Predictors: (Constant), Tpaths_d

c. Predictors: (Constant), Tpaths_d, TSpaths_d

Coefficients^a

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

		B	Std. Error	Beta		
1	(Constant)	-.046	.014		-3.216	.002
	Tpaths_d	5.223	1.293	.394	4.040	.000
2	(Constant)	-.046	.014		-3.286	.001
	Tpaths_d	147.554	58.072	11.123	2.541	.013
	TSpaths_d	-142.356	58.068	-10.732	-2.452	.016

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_d	1.000	1.000
2	(Constant)		
	Tpaths_d	.000	2131.900
	TSpaths_d	.000	2131.900

a. Dependent Variable: PL_EVCdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.088 ^b	.778	.439	.083	.751	1.331

	TSpaths_d	-10.732 ^b	-2.452	.016	-.253	.000	2131.900
	AvgPL_d	.172 ^b	.916	.362	.097	.270	3.697
	AvgGL_d	.115 ^b	.605	.547	.064	.266	3.753
2	GD_d	.034 ^c	.304	.762	.033	.720	1.389
	AvgPL_d	.085 ^c	.455	.650	.049	.259	3.854
	AvgGL_d	.082 ^c	.441	.661	.047	.265	3.774

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.751
	TSpaths_d	.000
	AvgPL_d	.270
	AvgGL_d	.266
2	GD_d	.000
	AvgPL_d	.000
	AvgGL_d	.000

a. Dependent Variable: PL_EVCdN

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Tpaths_d	TSpaths_d
1	1	1.984	1.000	.01	.01	
	2	.016	11.292	.99	.99	
2	1	2.979	1.000	.00	.00	.00
	2	.021	11.988	1.00	.00	.00
	3	7.244E-6	641.289	.00	1.00	1.00

a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00080786686 1578	.07562230527 4010	.01098901098 9011	.01196366321 8664
Std. Predicted Value	-.986	5.402	.000	1.000
Standard Error of Predicted Value	.002	.021	.004	.002
Adjusted Predicted Value	- .00082634651 3350	.06246524676 6806	.01093489780 8838	.01158068877 1509
Residual	- .04667380452 1561	.13916343450 5463	.00000000000 0000	.02327301715 7589

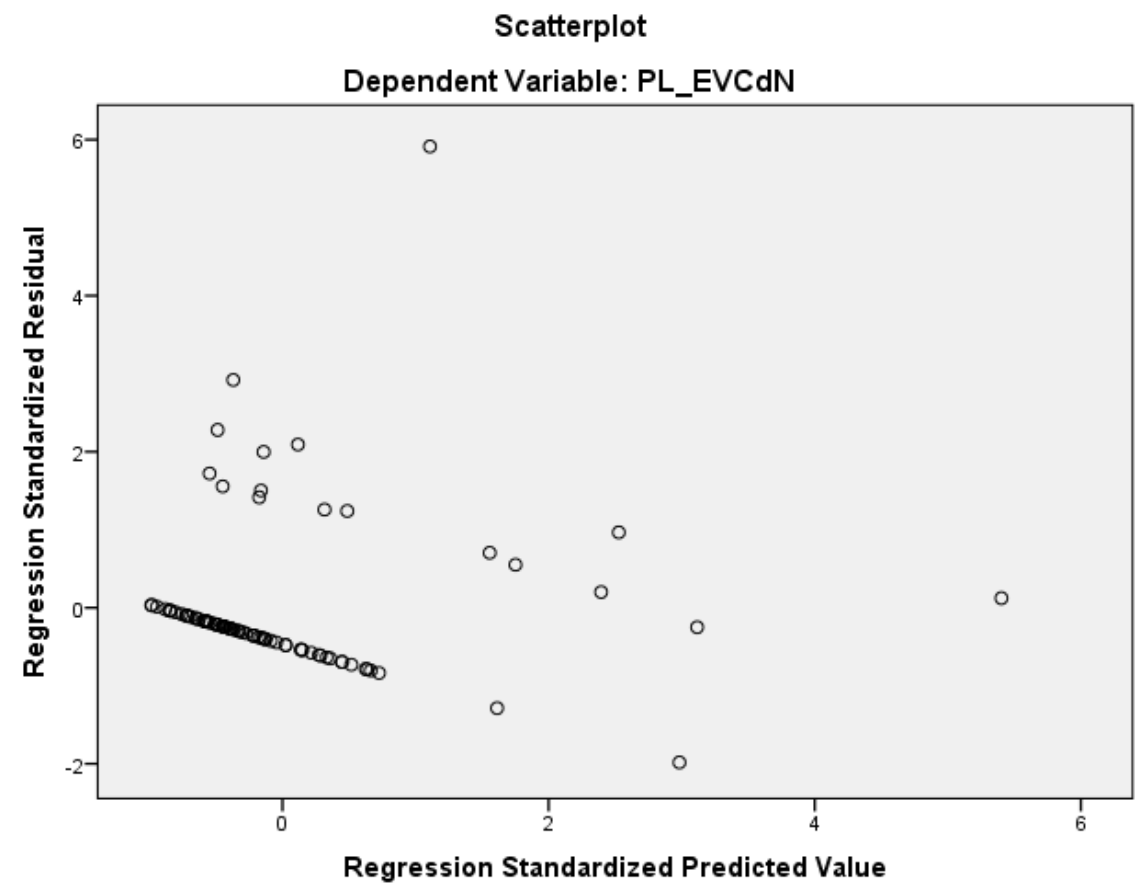
Std. Residual	-1.983	5.913	.000	.989
Stud. Residual	-2.192	5.987	.000	1.005
Deleted Residual	-	.14269359409	.00005411318	.02409098539
	.05703452602	8091	0173	0206
	0288			
Stud. Deleted Residual	-2.242	7.733	.023	1.138
Mahal. Distance	.008	72.861	1.978	8.033
Cook's Distance	.000	.356	.013	.050
Centered Leverage Value	.000	.810	.022	.089

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 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 EVCd_TpdN /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	00:00:00.22
	Memory Required	6592 bytes
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Variables Created or Modified	COO_18	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	GD_d		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: EVCd_TpdN

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.456 ^a	.208	.199	.00403670728 3551
2	.498 ^b	.248	.231	.00395499635 0869
3	.531 ^c	.282	.257	.00388863211 7386

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, GD_d

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

d. Dependent Variable: EVCd_TpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	23.369	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			
2	Regression	.000	2	.000	14.530	.000 ^c
	Residual	.001	88	.000		

	Total	.002	90			
3	Regression	.001	3	.000	11.363	.000 ^d
	Residual	.001	87	.000		
	Total	.002	90			

a. Dependent Variable: EVCd_TpdN

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, GD_d

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

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.019	.002		11.299	.000
	AvgGL_d	-.706	.146	-.456	-4.834	.000
2	(Constant)	.019	.002		11.726	.000
	AvgGL_d	-.476	.178	-.308	-2.678	.009
	GD_d	-.278	.128	-.250	-2.172	.033
3	(Constant)	.019	.002		11.978	.000
	AvgGL_d	-4.735	2.129	-3.060	-2.224	.029
	GD_d	-.329	.128	-.296	-2.567	.012

AvgPL_d	4.302	2.143	2.786	2.007	.048
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Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.647	1.546
	GD_d	.647	1.546
3	(Constant)		
	AvgGL_d	.004	229.175
	GD_d	.621	1.611
	AvgPL_d	.004	233.266

a. Dependent Variable: EVCd_TpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.250 ^b	-2.172	.033	-.226	.647	1.546
	Tpaths_d	-.199 ^b	-1.091	.278	-.115	.266	3.753

	TSpaths_d	-.210 ^b	-1.155	.251	-.122	.268	3.729
	AvgPL_d	2.070 ^b	1.477	.143	.155	.004	223.855
2	Tpaths_d	-.209 ^c	-1.168	.246	-.124	.266	3.756
	TSpaths_d	-.223 ^c	-1.253	.214	-.133	.268	3.733
	AvgPL_d	2.786 ^c	2.007	.048	.210	.004	233.266
3	Tpaths_d	-.206 ^d	-1.171	.245	-.125	.266	3.756
	TSpaths_d	-.206 ^d	-1.175	.243	-.126	.267	3.742

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.647	
	Tpaths_d	.266	
	TSpaths_d	.268	
	AvgPL_d	.004	
2	Tpaths_d	.229	
	TSpaths_d	.229	
	AvgPL_d	.004	
3	Tpaths_d	.004	
	TSpaths_d	.004	

a. Dependent Variable: EVCd_TpdN

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

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	GD_d
1	1	1.967	1.000	.02	.02	
	2	.033	7.711	.98	.98	
2	1	2.910	1.000	.01	.00	.01
	2	.062	6.868	.44	.01	.70
	3	.028	10.228	.55	.99	.29
3	1	3.897	1.000	.00	.00	.00
	2	.062	7.912	.34	.00	.76
	3	.041	9.767	.65	.00	.20
	4	.000	166.116	.00	1.00	.03

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		AvgPL_d
1	1	
	2	
2	1	

3	2	
	3	
	1	.00
	2	.00
	3	.00
	4	1.00

a. Dependent Variable: EVCd_TpdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00201915320 9403	.01423996128 1419	.01098901098 9011	.00239324174 1336
Std. Predicted Value	-3.748	1.358	.000	1.000
Standard Error of Predicted Value	.000	.004	.001	.000
Adjusted Predicted Value	.00258927699 1785	.01816049590 7068	.01103321877 1726	.00248680695 9824
Residual	- .01341788098 2161	.00917507056 1469	.00000000000 0000	.00382327230 0820
Std. Residual	-3.451	2.359	.000	.983
Stud. Residual	-3.506	2.455	-.003	1.006

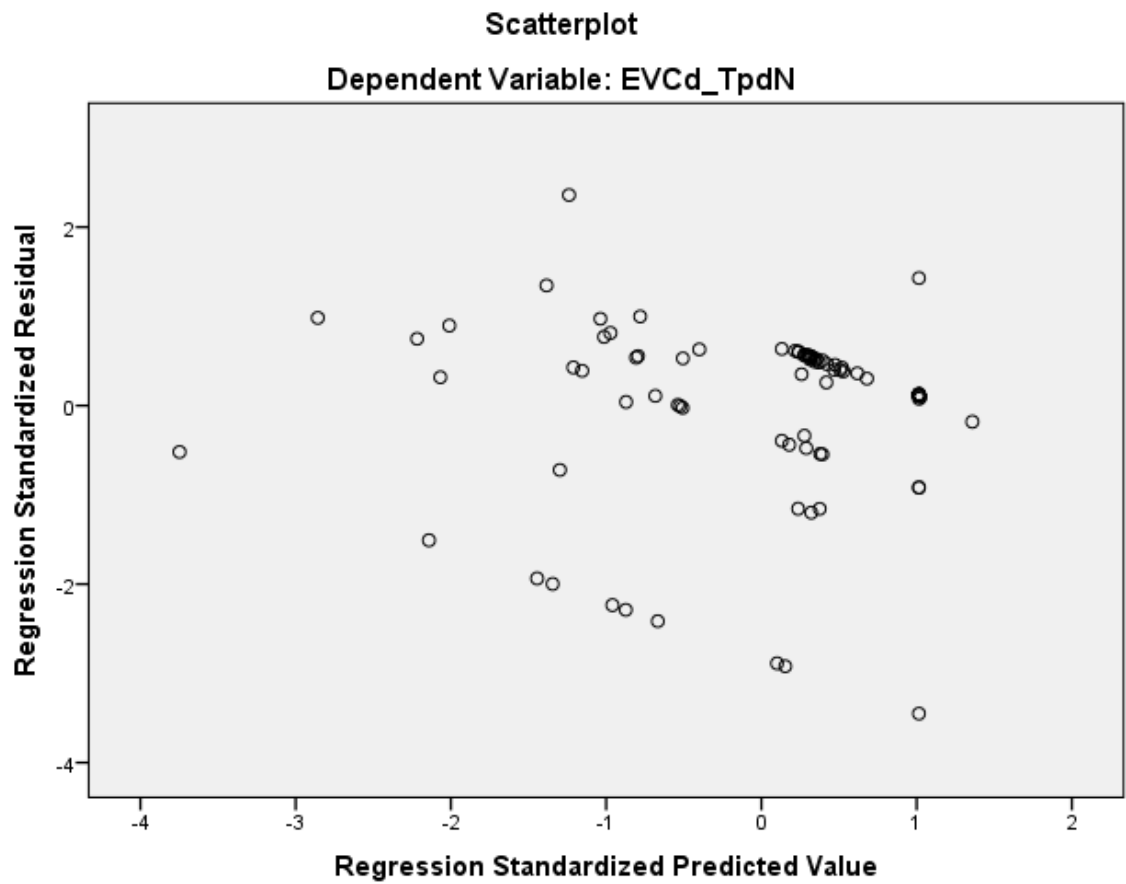
Deleted Residual	- .01384903397 4111	.00992967467 7551	- .00004420778 2715	.00402365527 4491
Stud. Deleted Residual	-3.761	2.530	-.012	1.034
Mahal. Distance	.351	75.297	2.967	8.108
Cook's Distance	.000	.300	.015	.040
Centered Leverage Value	.004	.837	.033	.090

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 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 EVCd_TSpdN /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.24
	Memory Required	6640 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_19	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	GD_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	.457 ^a	.209	.200	.00404092541 7343

2	.500 ^b	.250	.233	.00395733314 9272
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a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, GD_d

c. Dependent Variable: EVCd_TSpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	23.525	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			
2	Regression	.000	2	.000	14.665	.000 ^c
	Residual	.001	88	.000		
	Total	.002	90			

a. Dependent Variable: EVCd_TSpdN

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, GD_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.019	.002		11.307	.000
	AvgGL_d	-.709	.146	-.457	-4.850	.000
2	(Constant)	.019	.002		11.743	.000
	AvgGL_d	-.477	.178	-.308	-2.682	.009
	GD_d	-.280	.128	-.251	-2.191	.031

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.647	1.546
	GD_d	.647	1.546

a. Dependent Variable: EVCd_TSpdN

Excluded Variables^a

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

					Correlation	Tolerance	VIF
1	GD_d	-.251 ^b	-2.191	.031	-.227	.647	1.546
	Tpaths_d	-.199 ^b	-1.092	.278	-.116	.266	3.753
	TSpaths_d	-.210 ^b	-1.155	.251	-.122	.268	3.729
	AvgPL_d	1.991 ^b	1.420	.159	.150	.004	223.855
2	Tpaths_d	-.209 ^c	-1.171	.245	-.125	.266	3.756
	TSpaths_d	-.223 ^c	-1.253	.214	-.133	.268	3.733
	AvgPL_d	2.708 ^c	1.951	.054	.205	.004	233.266

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.647
	Tpaths_d	.266
	TSpaths_d	.268
	AvgPL_d	.004
2	Tpaths_d	.229
	TSpaths_d	.229
	AvgPL_d	.004

a. Dependent Variable: EVCd_TSpdN

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	GD_d
1	1	1.967	1.000	.02	.02	
	2	.033	7.711	.98	.98	
2	1	2.910	1.000	.01	.00	.01
	2	.062	6.868	.44	.01	.70
	3	.028	10.228	.55	.99	.29

a. Dependent Variable: EVCd_TSpdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00303086265 9216	.01349220611 1550	.01098901098 9011	.00225908865 7773
Std. Predicted Value	-3.523	1.108	.000	1.000
Standard Error of Predicted Value	.000	.002	.001	.000
Adjusted Predicted Value	.00379649852 4025	.01392495073 3781	.01099568778 7657	.00224864771 8861

Residual	- .01349220611 1550	.00897090788 9307	.00000000000 0000	.00391311574 8608
Std. Residual	-3.409	2.267	.000	.989
Stud. Residual	-3.464	2.357	-.001	1.010
Deleted Residual	- .01392495073 3781	.00970008876 1747	- .00000667679 8646	.00408259528 1829
Stud. Deleted Residual	-3.706	2.422	-.010	1.037
Mahal. Distance	.082	17.161	1.978	2.479
Cook's Distance	.000	.161	.015	.033
Centered Leverage Value	.001	.191	.022	.028

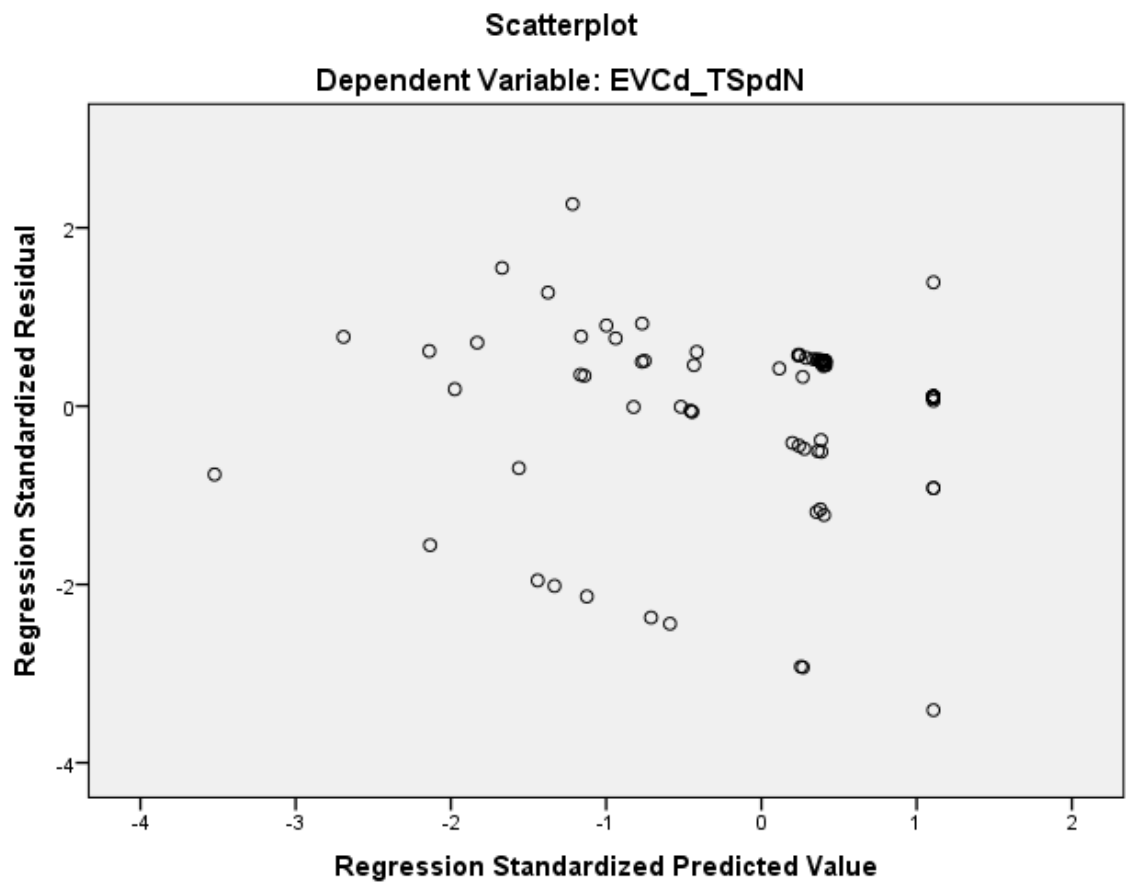
Residuals Statistics^a

	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 PL_TpdN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	DataSet1

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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_TpdN /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
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	Elapsed Time		00:00:00.24
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	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	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_TpdN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.385 ^a	.148	.139	.00290042666 1375

a. Predictors: (Constant), GD_d

b. Dependent Variable: PL_TpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	15.511	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: PL_TpdN

b. Predictors: (Constant), GD_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.008	.001		8.755	.000
	GD_d	.297	.075	.385	3.938	.000

Coefficients^a

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

a. Dependent Variable: PL_TpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	-.116 ^b	-1.030	.306	-.109	.751	1.331
	TSpaths_d	-.120 ^b	-1.064	.290	-.113	.755	1.324
	AvgPL_d	-.129 ^b	-1.049	.297	-.111	.636	1.573
	AvgGL_d	-.140 ^b	-1.157	.250	-.122	.647	1.546

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Tpaths_d	.751	
	TSpaths_d	.755	
	AvgPL_d	.636	

AvgGL_d	.647
---------	------

a. Dependent Variable: PL_TpdN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	GD_d
1	1	1.939	1.000	.03	.03
	2	.061	5.627	.97	.97

a. Dependent Variable: PL_TpdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00937574729 3234	.01597381383 1806	.01098901098 9011	.00120408476 0520
Std. Predicted Value	-1.340	4.140	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00920748617 5001	.01511761639 2672	.01099385836 2568	.00119464551 9097

Residual	- .00937574729 3234	.00835369154 8109	.00000000000 0000	.00288426816 9847
Std. Residual	-3.233	2.880	.000	.994
Stud. Residual	-3.284	2.896	-.001	1.008
Deleted Residual	- .00967504456 6393	.00844659563 1540	- .00000484737 3558	.00296578894 4332
Stud. Deleted Residual	-3.483	3.026	-.002	1.032
Mahal. Distance	.001	17.139	.989	2.184
Cook's Distance	.000	.216	.015	.039
Centered Leverage Value	.000	.190	.011	.024

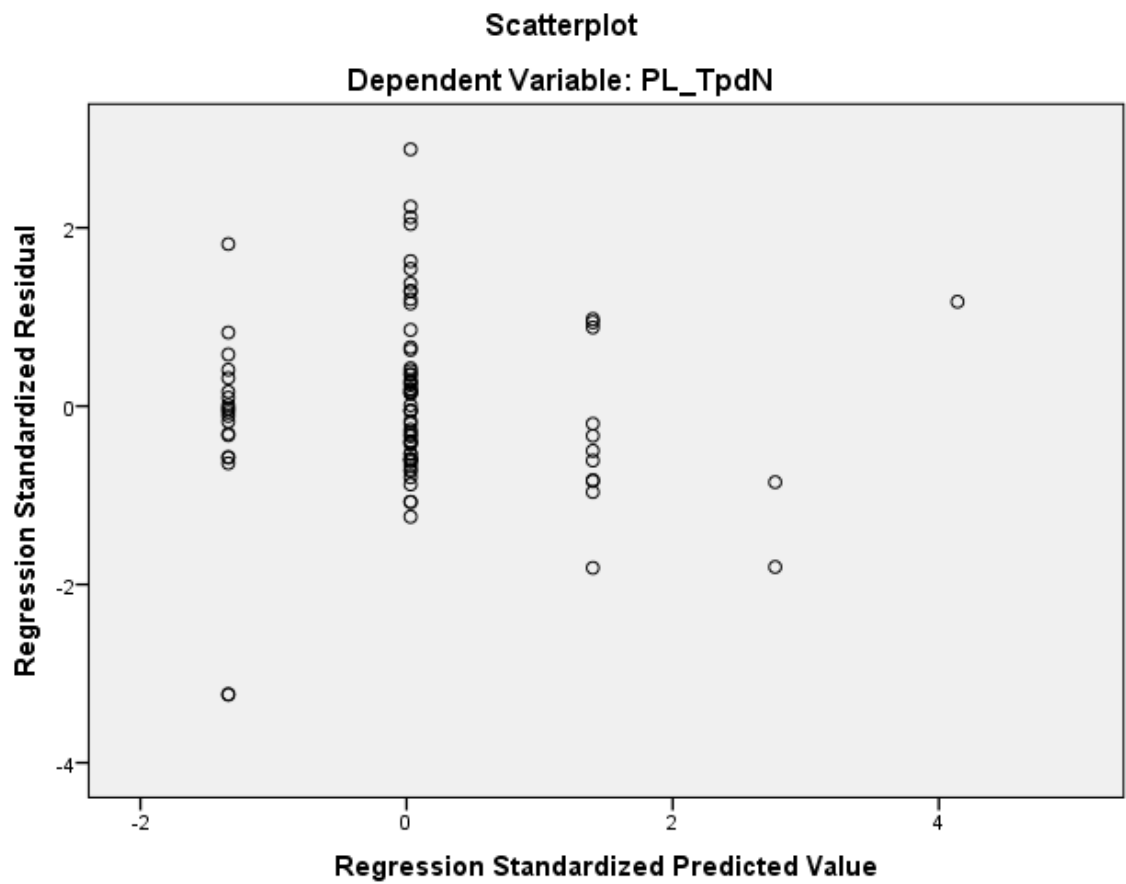
Residuals Statistics^a

	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	05-JUN-2015 21:00:20
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_TSpdN /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	00:00:00.25
	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	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_TSpdN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.347 ^a	.121	.111	.00306233692 7975

a. Predictors: (Constant), GD_d

b. Dependent Variable: PL_TSpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	12.197	.001 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: PL_TSpdN

b. Predictors: (Constant), GD_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.008	.001		8.515	.000
	GD_d	.278	.080	.347	3.492	.001

Coefficients^a

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

a. Dependent Variable: PL_TSpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	-.085 ^b	-.740	.461	-.079	.751	1.331
	TSpaths_d	-.083 ^b	-.725	.471	-.077	.755	1.324
	AvgPL_d	-.064 ^b	-.508	.612	-.054	.636	1.573
	AvgGL_d	-.056 ^b	-.448	.655	-.048	.647	1.546

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Tpaths_d	.751	
	TSpaths_d	.755	
	AvgPL_d	.636	

AvgGL_d	.647
---------	------

a. Dependent Variable: PL_TSpdN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	GD_d
1	1	1.939	1.000	.03	.03
	2	.061	5.627	.97	.97

a. Dependent Variable: PL_TSpdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00947858206 9278	.01565606705 8444	.01098901098 9011	.00112733298 3257
Std. Predicted Value	-1.340	4.140	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00930826459 0800	.01463659759 6109	.01099226388 2521	.00111148044 3951

Residual	- .00947858206 9278	.00997130107 1346	.00000000000 0000	.00304527642 2372
Std. Residual	-3.095	3.256	.000	.994
Stud. Residual	-3.144	3.274	-.001	1.008
Deleted Residual	- .00978116132 3190	.01008219551 2950	- .00000325289 3510	.00312994753 8332
Stud. Deleted Residual	-3.316	3.471	.001	1.035
Mahal. Distance	.001	17.139	.989	2.184
Cook's Distance	.000	.275	.014	.040
Centered Leverage Value	.000	.190	.011	.024

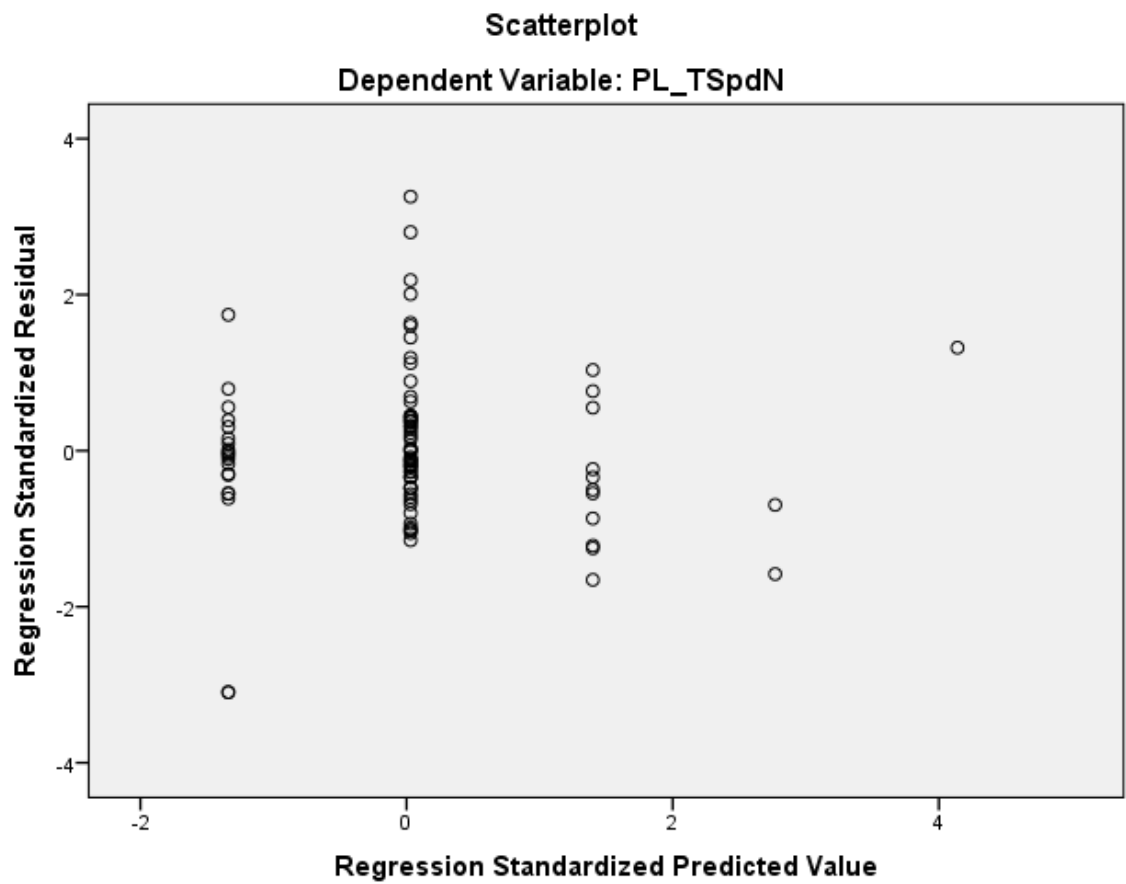
Residuals Statistics^a

	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	05-JUN-2015 21:00:40
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 S_d /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	00:00:00.26
	Memory Required	6400 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	TSpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	AvgPL_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	.449 ^a	.202	.193	.00235847798 5216
2	.668 ^b	.446	.433	.00197619863 5066

a. Predictors: (Constant), TSpaths_d

b. Predictors: (Constant), TSpaths_d, AvgPL_d

c. Dependent Variable: S_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	22.505	.000 ^b
	Residual	.000	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	35.409	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			

a. Dependent Variable: S_d

b. Predictors: (Constant), TSpaths_d

c. Predictors: (Constant), TSpaths_d, AvgPL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.018	.001		12.482	.000
	TSpaths_d	-.598	.126	-.449	-4.744	.000
2	(Constant)	.020	.001		16.098	.000
	TSpaths_d	-1.666	.201	-1.252	-8.270	.000
	AvgPL_d	.847	.136	.943	6.226	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpaths_d	1.000	1.000
2	(Constant)		
	TSpaths_d	.275	3.640
	AvgPL_d	.275	3.640

a. Dependent Variable: S_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.207 ^b	1.932	.057	.202	.755	1.324
	Tpaths_d	6.432 ^b	1.481	.142	.156	.000	2131.900
	AvgPL_d	.943 ^b	6.226	.000	.553	.275	3.640
	AvgGL_d	.939 ^b	6.090	.000	.545	.268	3.729
2	GD_d	-.024 ^c	-.240	.811	-.026	.634	1.577
	Tpaths_d	1.124 ^c	.297	.767	.032	.000	2256.977
	AvgGL_d	-.419 ^c	-.347	.730	-.037	.004	229.981

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d		
	Tpaths_d		
	AvgPL_d		
	AvgGL_d		
2	GD_d		

Tpaths_d	.000
AvgGL_d	.004

a. Dependent Variable: S_d

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	TSpats_d	AvgPL_d
1	1	1.984	1.000	.01	.01	
	2	.016	11.291	.99	.99	
2	1	2.961	1.000	.00	.00	.00
	2	.034	9.390	.47	.00	.23
	3	.006	23.047	.53	1.00	.77

a. Dependent Variable: S_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
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Predicted Value	.00334924599 1558	.01387059595 4359	.01098901098 9011	.00175298479 8630
Std. Predicted Value	-4.358	1.644	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00261772819 7947	.01450663525 6112	.01097837002 2683	.00183271265 2689
Residual	- .00538079999 3873	.00557672884 3153	.00000000000 0000	.00195411751 0344
Std. Residual	-2.723	2.822	.000	.989
Stud. Residual	-2.879	2.874	.002	1.011
Deleted Residual	- .00601683929 5626	.00578430527 8212	.00001064096 6328	.00204706167 1933
Stud. Deleted Residual	-3.008	3.002	.004	1.027
Mahal. Distance	.113	21.217	1.978	3.439
Cook's Distance	.000	.327	.016	.043
Centered Leverage Value	.001	.236	.022	.038

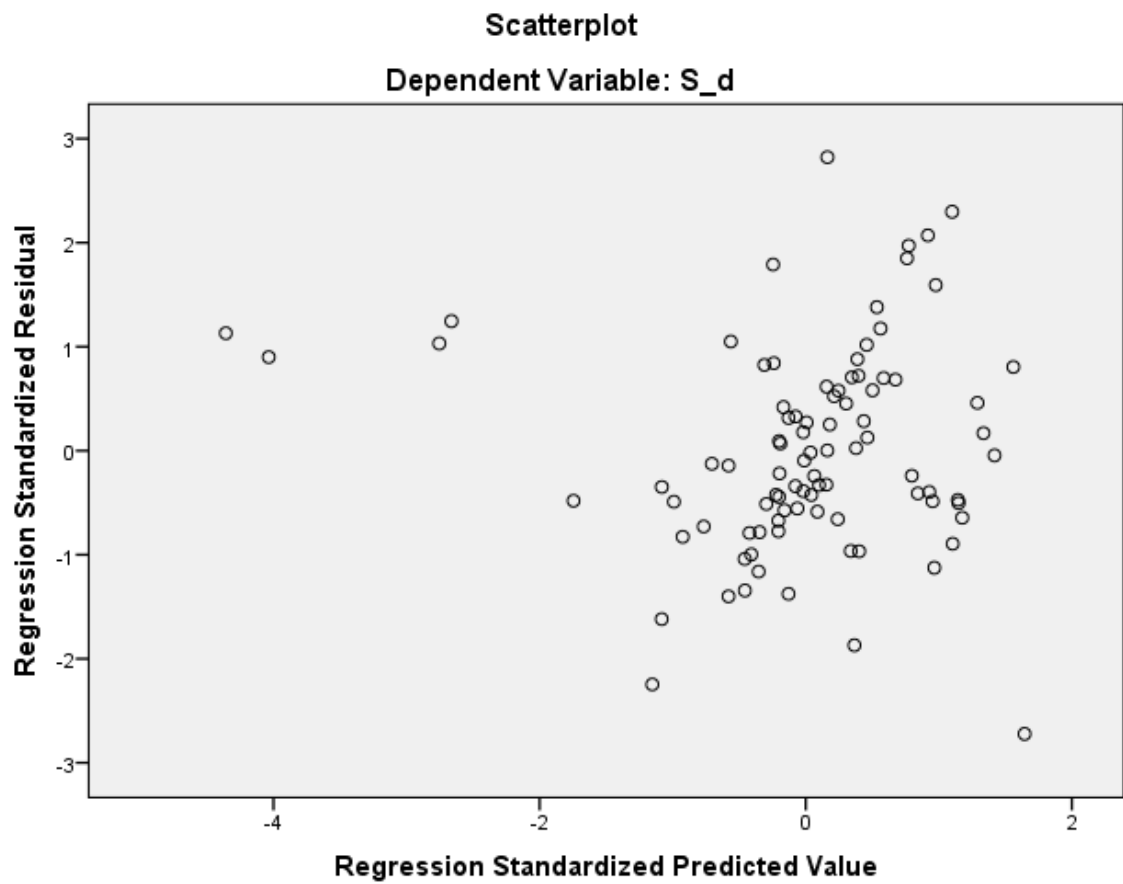
Residuals Statistics^a

	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: 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

Output Created		05-JUN-2015 21:01:02
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 R_d
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpats_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.22
	Memory Required	6432 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	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).

a. Dependent Variable: R_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.222 ^a	.049	.039	.00015001674 3463
2	.410 ^b	.168	.149	.00014112141 7995

a. Predictors: (Constant), GD_d

b. Predictors: (Constant), GD_d, TSpats_d

c. Dependent Variable: R_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	4.604	.035 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	8.888	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: R_d

b. Predictors: (Constant), GD_d

c. Predictors: (Constant), GD_d, TSpats_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.011	.000		238.738	.000

	GD_d	.008	.004	.222	2.146	.035
2	(Constant)	.011	.000		132.501	.000
	GD_d	.016	.004	.418	3.737	.000
	TSpaths_d	-.031	.009	-.397	-3.546	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_d	1.000	1.000
2	(Constant)		
	GD_d	.755	1.324
	TSpaths_d	.755	1.324

a. Dependent Variable: R_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	-.394 ^b	-3.504	.001	-.350	.751	1.331
	TSpaths_d	-.397 ^b	-3.546	.001	-.354	.755	1.324
	AvgPL_d	-.282 ^b	-2.224	.029	-.231	.636	1.573

	AvgGL_d	-.296 ^b	-2.362	.020	-.244	.647	1.546
2	Tpaths_d	6.753 ^c	1.478	.143	.157	.000	2236.867
	AvgPL_d	.174 ^c	.856	.394	.091	.231	4.335
	AvgGL_d	.136 ^c	.669	.505	.072	.229	4.358

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_d	.751
	TSpaths_d	.755
	AvgPL_d	.636
	AvgGL_d	.647
2	Tpaths_d	.000
	AvgPL_d	.231
	AvgGL_d	.229

a. Dependent Variable: R_d

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	Variance Proportions
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			Index	(Constant)	GD_d	TSpaths_d
1	1	1.939	1.000	.03	.03	
	2	.061	5.627	.97	.97	
2	1	2.918	1.000	.00	.01	.00
	2	.068	6.569	.12	.87	.03
	3	.014	14.422	.87	.12	.97

a. Dependent Variable: R_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01074601337 3137	.01114751398 5634	.01098901098 9011	.00006271837 1546
Std. Predicted Value	-3.874	2.527	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01071885973 2151	.01115385256 7077	.01099014129 0564	.00006498428 4142
Residual	- .00032466228 0036	.00036175019 3406	.00000000000 0000	.00013954459 2885
Std. Residual	-2.301	2.563	.000	.989
Stud. Residual	-2.604	2.608	-.004	1.013

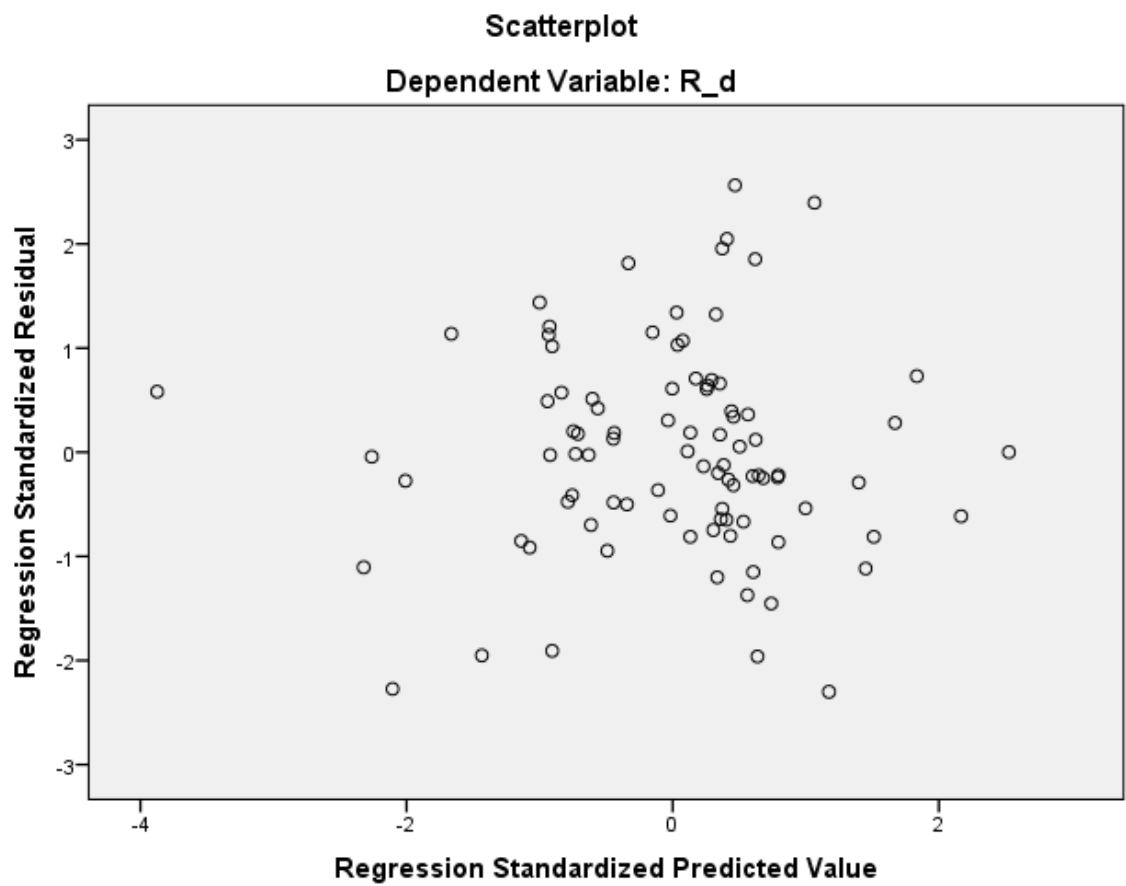
Deleted Residual	- .00041582784 6155	.00037451411 4810	- .00000113030 1553	.00014681383 9286
Stud. Deleted Residual	-2.695	2.700	-.003	1.027
Mahal. Distance	.001	21.403	1.978	3.681
Cook's Distance	.000	.635	.018	.070
Centered Leverage Value	.000	.238	.022	.041

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: 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 TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created	05-JUN-2015 21:01:33	
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		<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 SMSP_d</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	00:00:00.05
	Elapsed Time	00:00:00.04
	Memory Required	6480 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_15	Cook's Distance

Warnings

There are no valid cases for models with dependent variable SMSP_d. Statistics cannot be computed.

No valid cases found. Equation-building skipped.

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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 20:56:52
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_d /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.53

	Elapsed Time	00:00:00.51
	Memory Required	5344 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	PL_TpdN		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	.385 ^a	.148	.139	.00376329863 9929
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a. Predictors: (Constant), PL_TpdN

b. Dependent Variable: GD_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	15.511	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: GD_d

b. Predictors: (Constant), PL_TpdN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.005	.001		3.792	.000
	PL_TpdN	.500	.127	.385	3.938	.000

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
PL_TpdN	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_TSpdN	.095 ^b	.550	.583	.059	.326	3.069
	S_d	-.087 ^b	-.888	.377	-.094	.997	1.003
	R_d	.110 ^b	1.064	.290	.113	.898	1.114

Excluded Variables^a

Model	Collinearity Statistics	
	Minimum Tolerance	
1	PL_TSpdN	.326
	S_d	.997
	R_d	.898

a. Dependent Variable: GD_d

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	PL_TpdN
1	1	1.962	1.000	.02	.02
	2	.038	7.209	.98	.98

a. Dependent Variable: GD_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00549611542 3739	.01518275402 4863	.01098901098 9011	.00156229792 0498
Std. Predicted Value	-3.516	2.684	.000	1.000
Standard Error of Predicted Value	.000	.001	.001	.000
Adjusted Predicted Value	.00548576237 6338	.01559062395 2448	.01098692036 0492	.00155914401 0979

Residual	-	.01260029803	.00000000000	.00374233302
	.00726176192	9615	0000	4766
	9840			
Std. Residual	-1.930	3.348	.000	.994
Stud. Residual	-1.955	3.512	.000	1.009
Deleted Residual	-	.01385944243	.00000209062	.00385191064
	.00745718460	5205	8519	6514
	5300			
Stud. Deleted Residual	-1.988	3.762	.007	1.034
Mahal. Distance	.000	12.362	.989	2.147
Cook's Distance	.000	.616	.015	.065
Centered Leverage Value	.000	.137	.011	.024

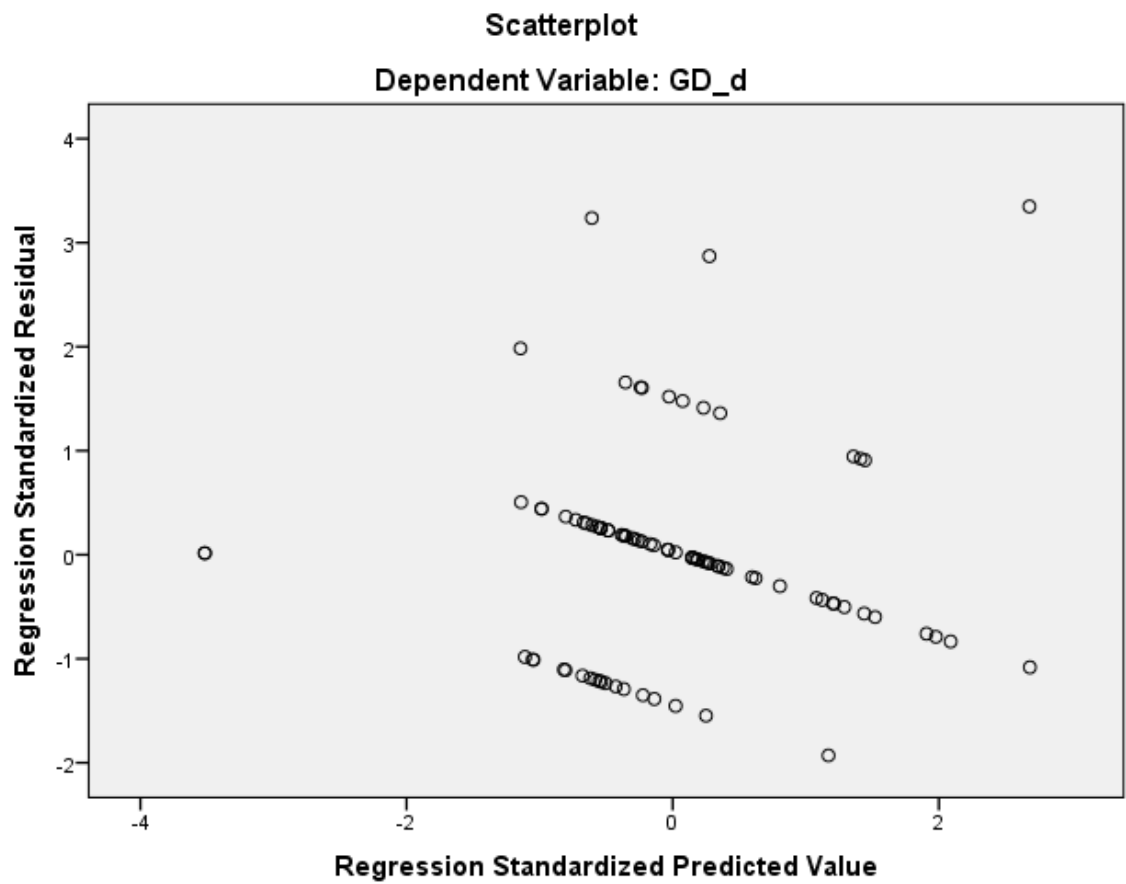
Residuals Statistics^a

	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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	05-JUN-2015 20:57:23
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_d /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.19
	Memory Required	5392 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	S_d		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	.446 ^a	.199	.190	.00177526596 0354

a. Predictors: (Constant), S_d

b. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	22.116	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			

a. Dependent Variable: Tpaths_d

b. Predictors: (Constant), S_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.015	.001		18.224	.000
	S_d	-.335	.071	-.446	-4.703	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_d	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_TpdN	.130 ^b	1.373	.173	.145	.997	1.003
	PL_TSpdN	.128 ^b	1.355	.179	.143	.998	1.002
	R_d	.043 ^b	.390	.697	.042	.762	1.312

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpdN	.997	
	PL_TSpdN	.998	
	R_d	.762	

a. Dependent Variable: Tpaths_d

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	S_d
1	1	1.973	1.000	.01	.01
	2	.027	8.536	.99	.99

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00882054399 6990	.01315524056 5538	.01098901098 9011	.00088002284 0903
Std. Predicted Value	-2.464	2.462	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00857399217 7844	.01332890614 8672	.01097910673 6374	.00088698000 8474
Residual	- .00204388122 0743	.00612014019 8618	.00000000000 0000	.00176537582 2340
Std. Residual	-1.151	3.447	.000	.994

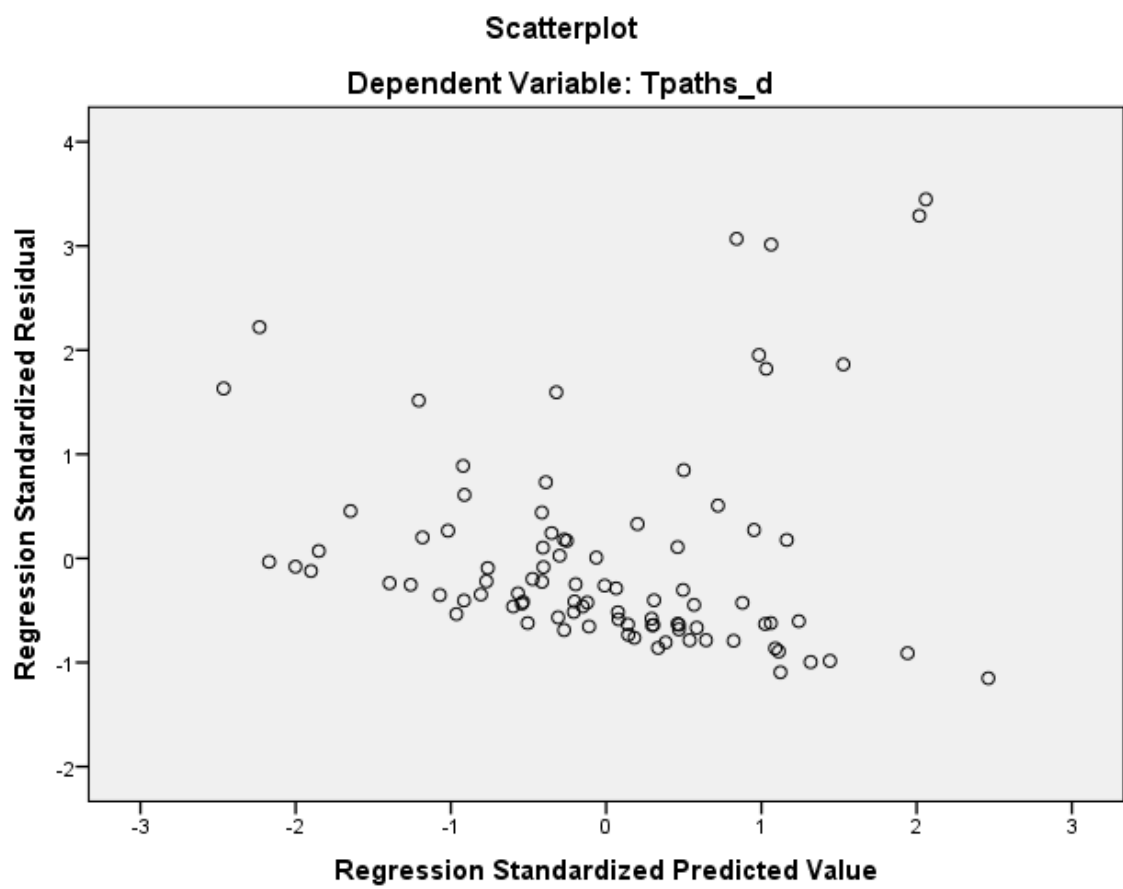
Stud. Residual	-1.199	3.552	.003	1.013
Deleted Residual	-	.00649776263	.00000990425	.00183157170
	.00221754703	1625	2637	9684
	6707			
Stud. Deleted Residual	-1.202	3.813	.014	1.046
Mahal. Distance	.000	6.072	.989	1.402
Cook's Distance	.000	.389	.019	.060
Centered Leverage Value	.000	.067	.011	.016

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 TSpahs_d
/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d
/SCATTERPLOT=(*ZRESID ,*ZPRED)
/SAVE COOK.

```

Regression

Notes

Output Created	05-JUN-2015 20:57:43	
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 TSpdths_d /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.25
	Elapsed Time	00:00:00.24
	Memory Required	5424 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	S_d		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	.449 ^a	.202	.193	.00177227774 4430

a. Predictors: (Constant), S_d

b. Dependent Variable: TSpats_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	22.505	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			

a. Dependent Variable: TSpaths_d

b. Predictors: (Constant), S_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.015	.001		18.287	.000
	S_d	-.338	.071	-.449	-4.744	.000

Coefficients^a

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

a. Dependent Variable: TSpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpdN	.125 ^b	1.328	.188	.140	.997	1.003
	PL_TSpdN	.128 ^b	1.356	.179	.143	.998	1.002
	R_d	.038 ^b	.352	.726	.037	.762	1.312

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpdN	.997	
	PL_TSpdN	.998	
	R_d	.762	

a. Dependent Variable: TSpaths_d

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

Collinearity Diagnostics^a

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

		Index	(Constant)	S_d
1	1	1.973	1.000	.01
	2	.027	8.536	.99

a. Dependent Variable: TSpats_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00880522746 5928	.01317054033 2794	.01098901098 9011	.00088623846 2597
Std. Predicted Value	-2.464	2.462	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00855617783 9637	.01334411371 4993	.01097902490 7708	.00089326163 4993
Residual	- .00204278947 7855	.00613512191 9215	.00000000000 0000	.00176240425 3988
Std. Residual	-1.153	3.462	.000	.994
Stud. Residual	-1.201	3.567	.003	1.013
Deleted Residual	- .00221636239 4392	.00651366822 4216	.00000998608 1303	.00182886030 2328
Stud. Deleted Residual	-1.204	3.831	.014	1.046
Mahal. Distance	.000	6.072	.989	1.402

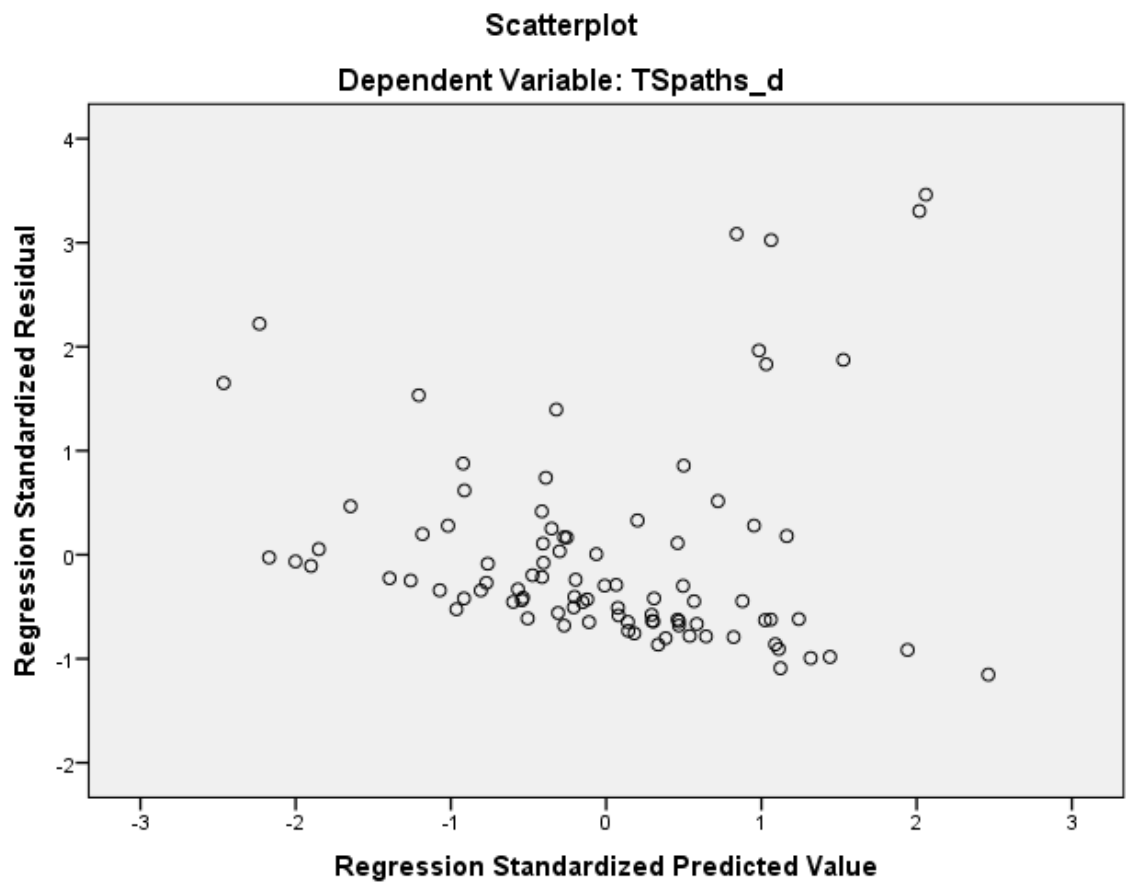
Cook's Distance	.000	.393	.019	.060
Centered Leverage Value	.000	.067	.011	.016

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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 20:58:09
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 AvgPL_d
		/METHOD=STEPWISE PL_TpdN
		PL_TSpdN S_d R_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.04
	Memory Required	5472 bytes
	Additional Memory	
	Required for Residual Plots	0 bytes
Variables Created or Modified	COO_9	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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		05-JUN-2015 20:58:23
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		<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 AvgGL_d</p> <p>/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d</p> <p>/SCATTERPLOT=(*ZRESID ,*ZPRED)</p> <p>/SAVE COOK.</p>
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.05
	Memory Required	5504 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.
--

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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	05-JUN-2015 21:06:28
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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 ECd /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.03
	Memory Required	5904 bytes

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_20	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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 21:06:39	
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_EVCdN
		/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d
		/SCATTERPLOT=(*ZRESID ,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.22
	Memory Required	5952 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_21	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	.262 ^a	.069	.058	.02539503407 3364

a. Predictors: (Constant), PL_TpdN

b. Dependent Variable: PL_EVCdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.004	1	.004	6.562	.012 ^b
	Residual	.057	89	.001		

Total	.062	90			
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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)	-.013	.010		-1.341	.183
PL_TpdN	2.194	.856	.262	2.562	.012

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	-.211 ^b	-1.178	.242	-.125	.326	3.069
	S_d	-.017 ^b	-.161	.872	-.017	.997	1.003
	R_d	.097 ^b	.902	.370	.096	.898	1.114

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TSpdN	.326	
	S_d	.997	
	R_d	.898	

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	1.962	1.000	.02	.02
	2	.038	7.209	.98	.98

a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

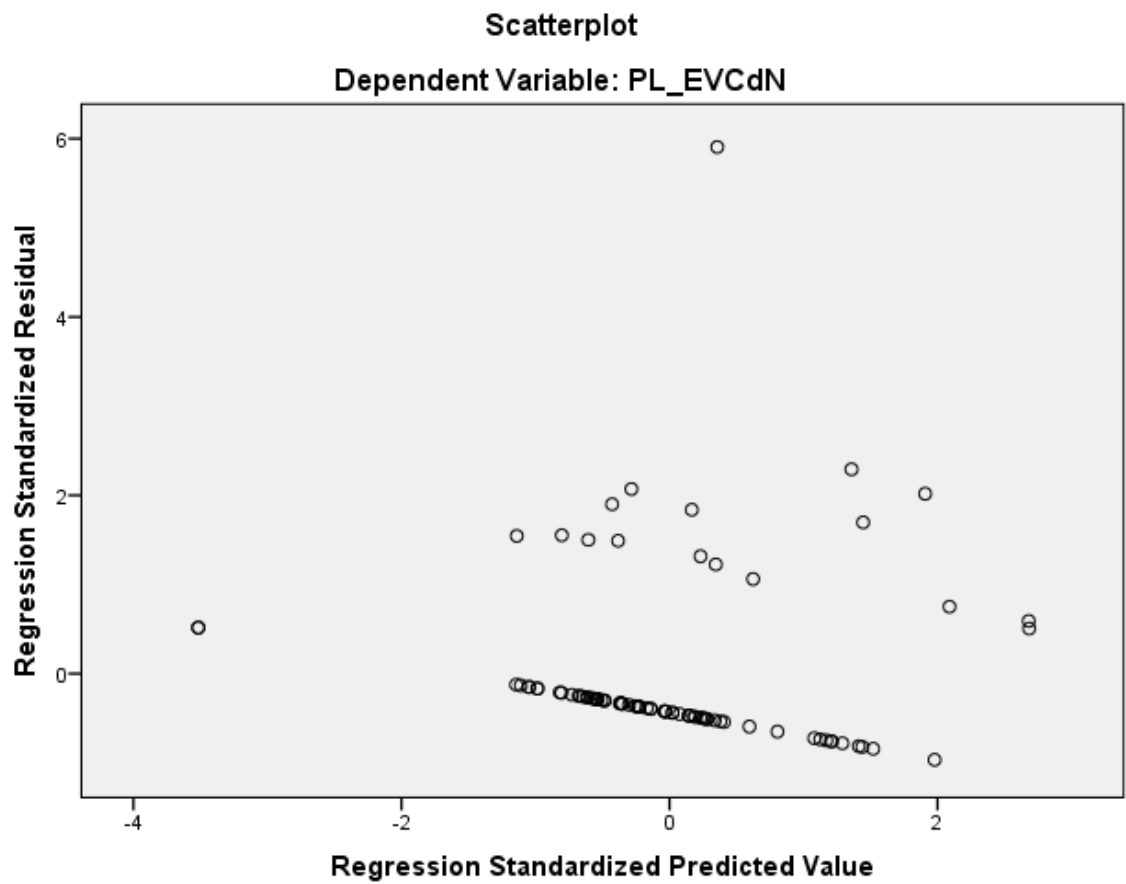
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .01312008313 8347	.02939593978 2262	.01098901098 9011	.00685714600 7520
Std. Predicted Value	-3.516	2.684	.000	1.000
Standard Error of Predicted Value	.003	.010	.004	.001
Adjusted Predicted Value	- .01540530938 6551	.02810922637 5818	.01089997940 3811	.00695805572 9129
Residual	- .02455193735 6591	.14998093247 4136	.00000000000 0000	.02525355645 9608
Std. Residual	-.967	5.906	.000	.994
Stud. Residual	-.994	5.943	.002	1.005
Deleted Residual	- .02596598863 6017	.15186418592 9298	.00008903158 5200	.02577390934 5597
Stud. Deleted Residual	-.994	7.609	.024	1.127
Mahal. Distance	.000	12.362	.989	2.147
Cook's Distance	.000	.222	.010	.028
Centered Leverage Value	.000	.137	.011	.024

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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 21:07:06
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 EVCd_TpdN
		/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d
		/SCATTERPLOT=(*ZRESID ,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.22
	Memory Required	5984 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_22	Cook's Distance

Variables Entered/Removed^a

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

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.258 ^a	.066	.056	.004382694897055

a. Predictors: (Constant), PL_TSpdN

b. Dependent Variable: EVCd_TpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	6.327	.014 ^b
	Residual	.002	89	.000		

Total	.002	90			
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a. Dependent Variable: EVCd_TpdN

b. Predictors: (Constant), PL_TSpdN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.015	.002		9.157	.000
	PL_TSpdN	-.358	.142	-.258	-2.515	.014

Coefficients^a

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

a. Dependent Variable: EVCd_TpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpdN	-.019 ^b	-.105	.916	-.011	.326	3.069
	S_d	.044 ^b	.430	.668	.046	.998	1.002
	R_d	-.106 ^b	-1.008	.316	-.107	.955	1.047

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpdN	.326	
	S_d	.998	
	R_d	.955	

a. Dependent Variable: EVCd_TpdN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	PL_TSpdN
1	1	1.959	1.000	.02	.02
	2	.041	6.950	.98	.98

a. Dependent Variable: EVCd_TpdN

Residuals Statistics^a

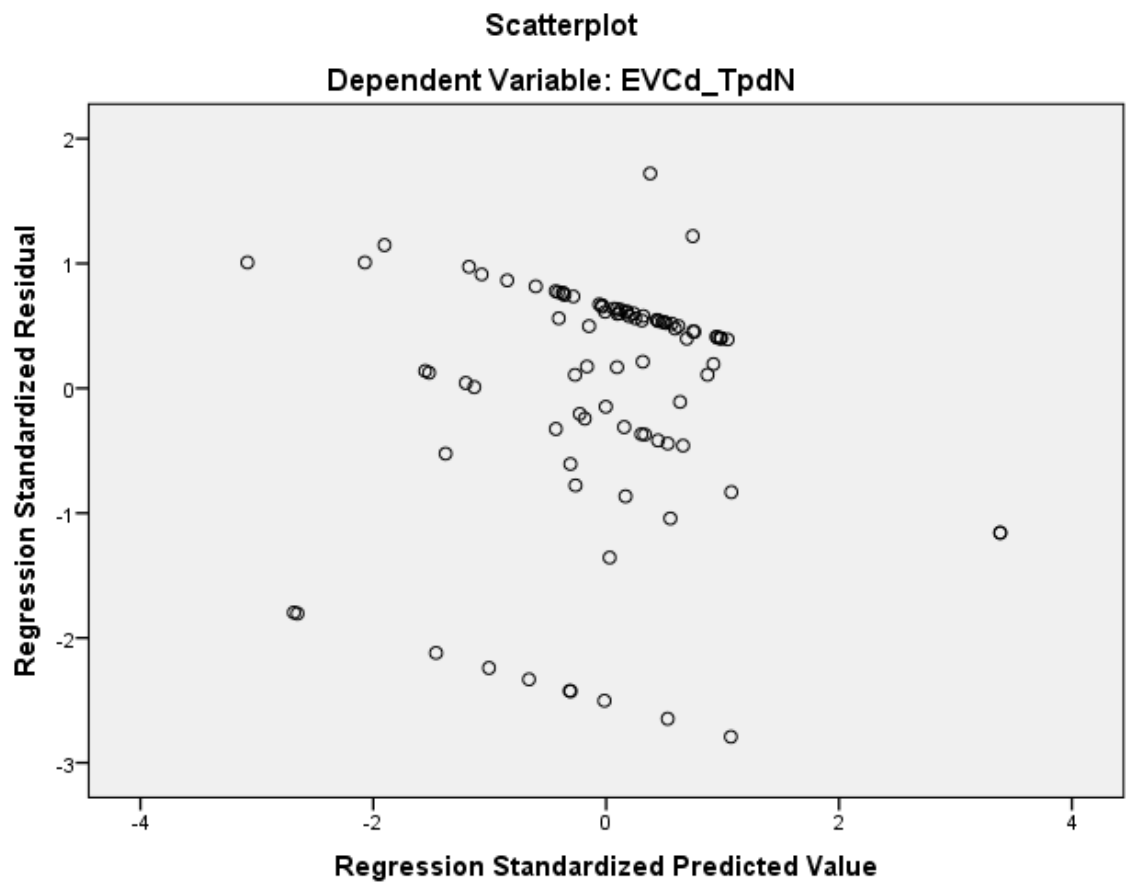
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00740847503 7664	.01492160372 4360	.01098901098 9011	.00116207785 5408
Std. Predicted Value	-3.081	3.384	.000	1.000
Standard Error of Predicted Value	.000	.002	.001	.000
Adjusted Predicted Value	.00682617817 0741	.01573572680 3541	.01101281427 4968	.00121814559 5409
Residual	- .01223349943 7571	.00754450447 8574	.00000000000 0000	.00435827857 9515
Std. Residual	-2.791	1.721	.000	.994
Stud. Residual	-2.825	1.732	-.003	1.009
Deleted Residual	- .01253088191 1516	.00764059741 0500	- .00002380328 5957	.00448941539 2469
Stud. Deleted Residual	-2.944	1.752	-.011	1.027
Mahal. Distance	.000	11.452	.989	2.203
Cook's Distance	.000	.177	.015	.035
Centered Leverage Value	.000	.127	.011	.024

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 PL_TpdN PL_TSpdN S_d R_d

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 21:07:30
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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 EVCd_TSpdN /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.22
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	Memory Required	6032 bytes	
	Additional Memory Required for Residual Plots	0 bytes	
Variables Created or Modified	COO_23	Cook's Distance	

Variables Entered/Removed^a

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

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.257 ^a	.066	.056	.00439089995 6356

a. Predictors: (Constant), PL_TSpdN

b. Dependent Variable: EVCd_TSpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	6.303	.014 ^b
	Residual	.002	89	.000		

Total	.002	90			
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a. Dependent Variable: EVCd_TSpdN

b. Predictors: (Constant), PL_TSpdN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.015	.002		9.140	.000
	PL_TSpdN	-.358	.143	-.257	-2.511	.014

Coefficients^a

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

a. Dependent Variable: EVCd_TSpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpdN	-.024 ^b	-.134	.894	-.014	.326	3.069
	S_d	.042 ^b	.407	.685	.043	.998	1.002
	R_d	-.110 ^b	-1.047	.298	-.111	.955	1.047

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpdN	.326	
	S_d	.998	
	R_d	.955	

a. Dependent Variable: EVCd_TSpdN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	PL_TSpdN
1	1	1.959	1.000	.02	.02
	2	.041	6.950	.98	.98

a. Dependent Variable: EVCd_TSpdN

Residuals Statistics^a

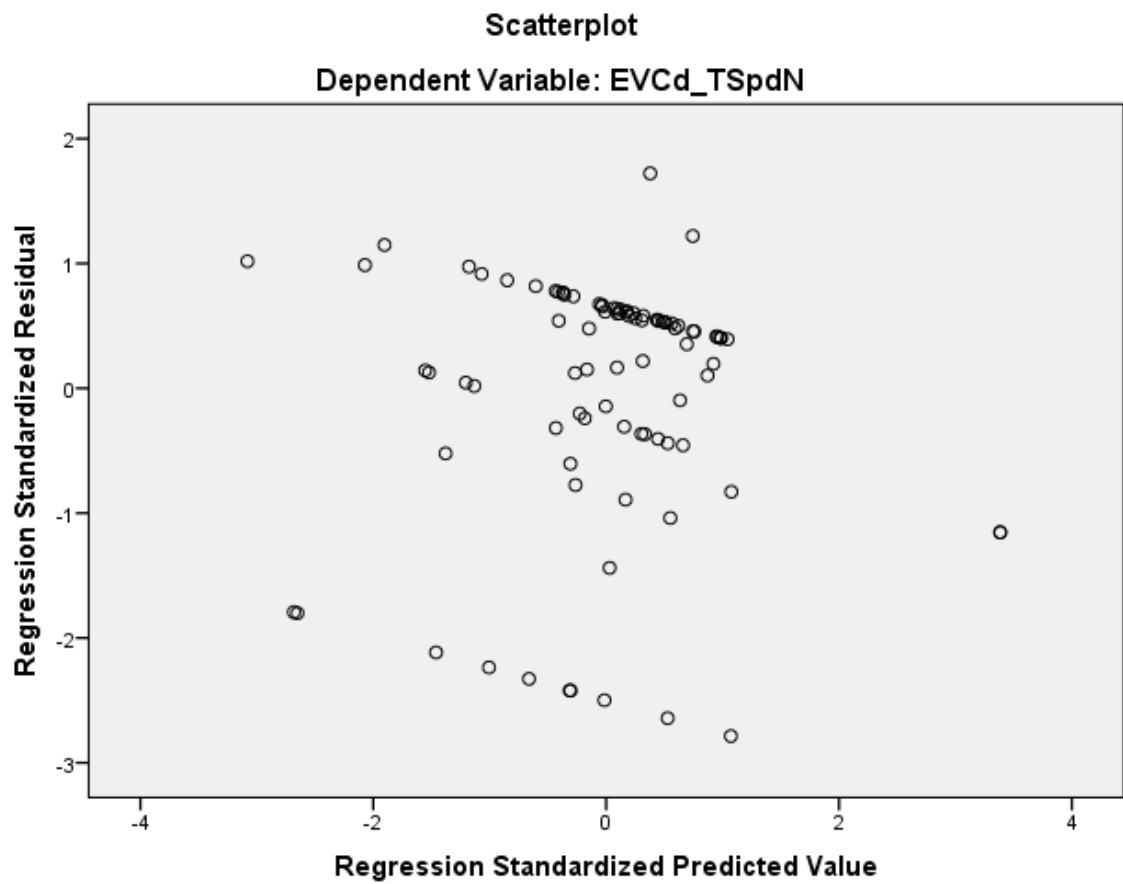
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00740880472 5856	.01492124237 1202	.01098901098 9011	.00116197084 6513
Std. Predicted Value	-3.081	3.384	.000	1.000
Standard Error of Predicted Value	.000	.002	.001	.000
Adjusted Predicted Value	.00681970082 2234	.01573397591 7101	.01101272466 6381	.00121809588 4364
Residual	- .01223338488 4894	.00756053347 1406	.00000000000 0000	.00436643792 7824
Std. Residual	-2.786	1.722	.000	.994
Stud. Residual	-2.820	1.733	-.003	1.009
Deleted Residual	- .01253076456 4872	.00765683036 2976	- .00002371367 7370	.00449752746 3454
Stud. Deleted Residual	-2.938	1.753	-.010	1.027
Mahal. Distance	.000	11.452	.989	2.203
Cook's Distance	.000	.177	.015	.035
Centered Leverage Value	.000	.127	.011	.024

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 EVCd_TSpdN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpdN_d AvgPL_d
AvgGL_d PL_TpoutN PL_TSpdN S_pro R_pro

/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 Ecout /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.25
	Elapsed Time	00:00:00.27
	Memory Required	14432 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	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).

a. Dependent Variable: ECont

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.490 ^a	.240	.232	.00246164385 1158
2	.569 ^b	.324	.308	.00233601065 2689

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, Tpaths_d

c. Dependent Variable: Ecout

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	28.180	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	21.061	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			

a. Dependent Variable: Ecout

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, Tpaths_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	.011	.000		42.331	.000
	Reciprocity	-.037	.007	-.490	-5.308	.000
2	(Constant)	.016	.001		11.411	.000
	Reciprocity	-.035	.007	-.467	-5.311	.000
	Tpaths_d	-.412	.125	-.289	-3.291	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.994	1.007
	Tpaths_d	.994	1.007

a. Dependent Variable: Ecout

Excluded Variables^a

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance

1	Nodes	-.278 ^b	-3.152	.002	-.318	.994
	Edges_d	-.286 ^b	-3.235	.002	-.326	.988
	Den_d	.250 ^b	2.797	.006	.286	.995
	GD_d	-.121 ^b	-1.306	.195	-.138	.992
	Tpaths_d	-.289 ^b	-3.291	.001	-.331	.994
	TSpaths_d	-.289 ^b	-3.282	.001	-.330	.994
	AvgPL_d	-.234 ^b	-2.578	.012	-.265	.977
	AvgGL_d	-.231 ^b	-2.555	.012	-.263	.981
	PL_TpoutN	-.132 ^b	-1.421	.159	-.150	.976
	PL_TSpoutN	-.027 ^b	-.285	.776	-.030	.988
	S_pro	-.224 ^b	-2.409	.018	-.249	.937
	R_pro	-.255 ^b	-2.761	.007	-.282	.928
2	Nodes	-.157 ^c	-1.375	.173	-.146	.581
	Edges_d	-.174 ^c	-1.577	.118	-.167	.624
	Den_d	.125 ^c	1.170	.245	.124	.669
	GD_d	.030 ^c	.296	.768	.032	.749
	TSpaths_d	1.422 ^c	.337	.737	.036	.000
	AvgPL_d	.059 ^c	.341	.734	.037	.263
	AvgGL_d	.068 ^c	.395	.694	.042	.262
	PL_TpoutN	-.099 ^c	-1.107	.272	-.118	.962
	PL_TSpoutN	.009 ^c	.105	.916	.011	.973
	S_pro	-.154 ^c	-1.658	.101	-.175	.868

R_pro	-.173 ^c	-1.809	.074	-.190	.819
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Excluded Variables^a

Model		Collinearity Statistics	
		VIF	Minimum Tolerance
1	Nodes	1.006	.994
	Edges_d	1.012	.988
	Den_d	1.005	.995
	GD_d	1.008	.992
	Tpaths_d	1.007	.994
	TSpaths_d	1.006	.994
	AvgPL_d	1.024	.977
	AvgGL_d	1.019	.981
	PL_TpoutN	1.025	.976
	PL_TSpoutN	1.012	.988
	S_pro	1.067	.937
	R_pro	1.077	.928
2	Nodes	1.720	.581
	Edges_d	1.604	.624
	Den_d	1.494	.668
	GD_d	1.335	.749
	TSpaths_d	2300.240	.000

AvgPL_d	3.798	.263
AvgGL_d	3.820	.262
PL_TpoutN	1.040	.962
PL_TSpoutN	1.028	.973
S_pro	1.152	.868
R_pro	1.221	.819

a. Dependent Variable: ECont

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	Tpaths_d
1	1	1.285	1.000	.36	.36	
	2	.715	1.341	.64	.64	
2	1	2.133	1.000	.01	.05	.01
	2	.852	1.582	.00	.95	.00
	3	.016	11.724	.99	.00	.99

a. Dependent Variable: ECont

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00527369789 7792	.01218935940 4147	.01098901098 9011	.00159812792 0298
Std. Predicted Value	-3.576	.751	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00494365999 4751	.01217587199 0621	.01098005700 6511	.00163684706 9404
Residual	- .00934010650 9626	.00417208299 0408	.00000000000 0000	.00230990915 5775
Std. Residual	-3.998	1.786	.000	.989
Stud. Residual	-4.022	1.991	.002	1.022
Deleted Residual	- .00945326127 1119	.00518253864 7205	.00000895398 2500	.00247518140 3127
Stud. Deleted Residual	-4.427	2.025	-.009	1.058
Mahal. Distance	.087	16.950	1.978	4.225
Cook's Distance	.000	.938	.026	.106
Centered Leverage Value	.001	.188	.022	.047

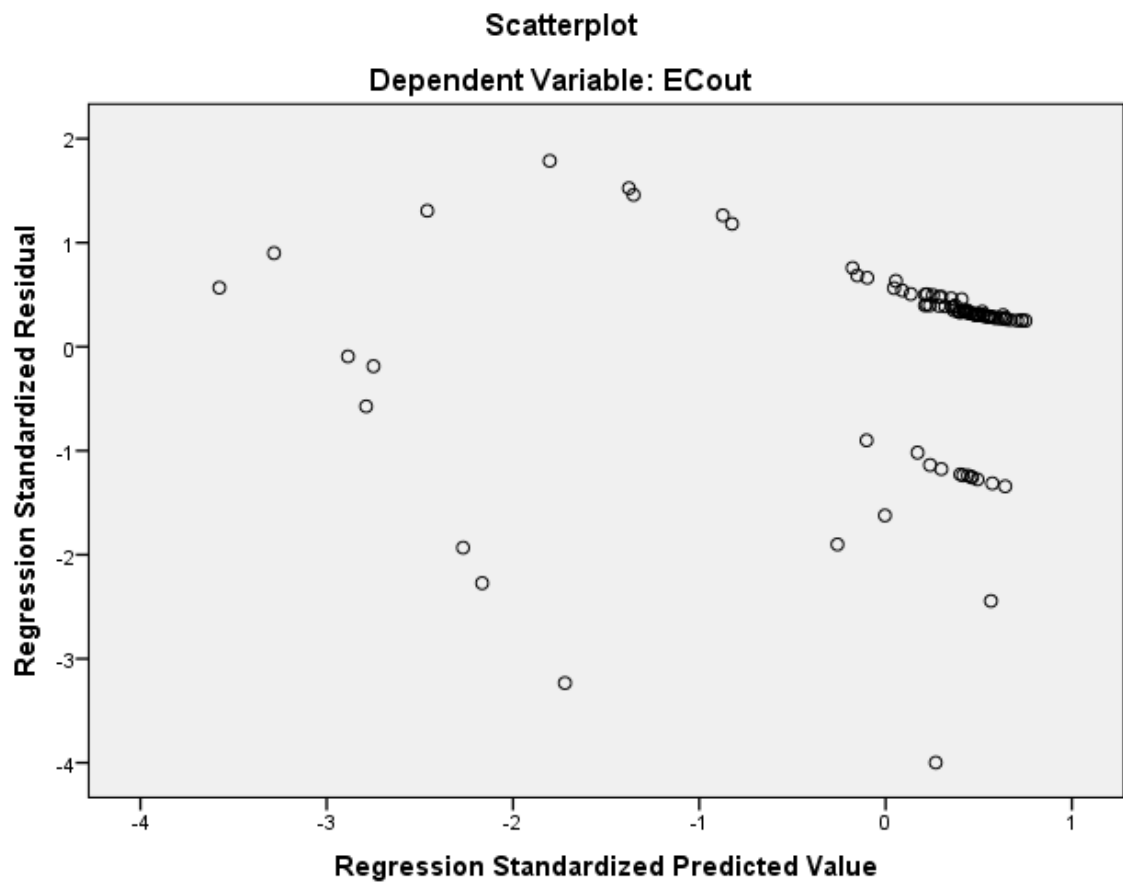
Residuals Statistics^a

	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: ECout

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 GD_d Tpaths_d TSpaths_d AvgPL_d
AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro

/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 PL_EVCoutN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.17
	Memory Required	14464 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	TSpaths_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	.680 ^a	.462	.456	.01813285185 9254
2	.766 ^b	.587	.577	.01598413347 8944

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, TSpats_d

c. Dependent Variable: PL_EVCoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.025	1	.025	76.406	.000 ^b
	Residual	.029	89	.000		
	Total	.054	90			
2	Regression	.032	2	.016	62.433	.000 ^c
	Residual	.022	88	.000		
	Total	.054	90			

a. Dependent Variable: PL_EVCoutN

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, TSpats_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	.006	.002		3.049	.003
	Reciprocity	.450	.051	.680	8.741	.000
2	(Constant)	-.042	.010		-4.430	.000
	Reciprocity	.432	.045	.653	9.504	.000
	TSpaths_d	4.412	.856	.354	5.151	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.994	1.006
	TSpaths_d	.994	1.006

a. Dependent Variable: PL_EVCoutN

Excluded Variables^a

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance

1	Nodes	.248 ^b	3.354	.001	.337	.994
	Edges_d	.225 ^b	3.007	.003	.305	.988
	Den_d	-.226 ^b	-3.029	.003	-.307	.995
	GD_d	.203 ^b	2.688	.009	.275	.992
	Tpaths_d	.353 ^b	5.135	.000	.480	.994
	TSpaths_d	.354 ^b	5.151	.000	.481	.994
	AvgPL_d	.277 ^b	3.778	.000	.374	.977
	AvgGL_d	.280 ^b	3.824	.000	.377	.981
	PL_TpoutN	.129 ^b	1.660	.100	.174	.976
	PL_TSpoutN	.040 ^b	.515	.608	.055	.988
	S_pro	.003 ^b	.038	.970	.004	.937
	R_pro	.043 ^b	.533	.595	.057	.928
2	Nodes	.033 ^c	.368	.714	.039	.581
	Edges_d	.016 ^c	.180	.857	.019	.625
	Den_d	-.034 ^c	-.404	.687	-.043	.667
	GD_d	.038 ^c	.476	.635	.051	.752
	Tpaths_d	-1.786 ^c	-.541	.590	-.058	.000
	AvgPL_d	-.100 ^c	-.752	.454	-.080	.267
	AvgGL_d	-.095 ^c	-.709	.480	-.076	.263
	PL_TpoutN	.089 ^c	1.282	.203	.136	.963
	PL_TSpoutN	-.003 ^c	-.041	.967	-.004	.973
	S_pro	-.101 ^c	-1.383	.170	-.147	.871

R_pro	-.091 ^c	-1.212	.229	-.129	.822
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Excluded Variables^a

Model		Collinearity Statistics	
		VIF	Minimum Tolerance
1	Nodes	1.006	.994
	Edges_d	1.012	.988
	Den_d	1.005	.995
	GD_d	1.008	.992
	Tpaths_d	1.007	.994
	TSpaths_d	1.006	.994
	AvgPL_d	1.024	.977
	AvgGL_d	1.019	.981
	PL_TpoutN	1.025	.976
	PL_TSpoutN	1.012	.988
	S_pro	1.067	.937
	R_pro	1.077	.928
2	Nodes	1.722	.581
	Edges_d	1.601	.625
	Den_d	1.498	.667
	GD_d	1.329	.752
	Tpaths_d	2302.346	.000

AvgPL_d	3.750	.267
AvgGL_d	3.804	.263
PL_TpoutN	1.039	.963
PL_TSpoutN	1.028	.973
S_pro	1.148	.871
R_pro	1.217	.822

a. Dependent Variable: PL_EVCoutN

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

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	TSpats_d
1	1	1.285	1.000	.36	.36	
	2	.715	1.341	.64	.64	
2	1	2.132	1.000	.01	.05	.01
	2	.852	1.582	.00	.95	.00
	3	.016	11.718	.99	.00	.99

a. Dependent Variable: PL_EVCoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00245946669 0198	.08046388626 0986	.01098901098 9011	.01882738949 7182
Std. Predicted Value	-.714	3.690	.000	1.000
Standard Error of Predicted Value	.002	.007	.003	.001
Adjusted Predicted Value	- .00251642474 9047	.08441327512 2643	.01097521290 2262	.01896311973 1520
Residual	- .03996369242 6682	.08001960813 9992	.00000000000 0000	.01580553420 3210
Std. Residual	-2.500	5.006	.000	.989
Stud. Residual	-2.764	5.047	.000	1.020
Deleted Residual	- .04883317276 8354	.08133512735 3668	.00001379808 6749	.01687281966 1557
Stud. Deleted Residual	-2.876	5.954	.017	1.096
Mahal. Distance	.087	16.954	1.978	4.227
Cook's Distance	.000	.565	.024	.088
Centered Leverage Value	.001	.188	.022	.047

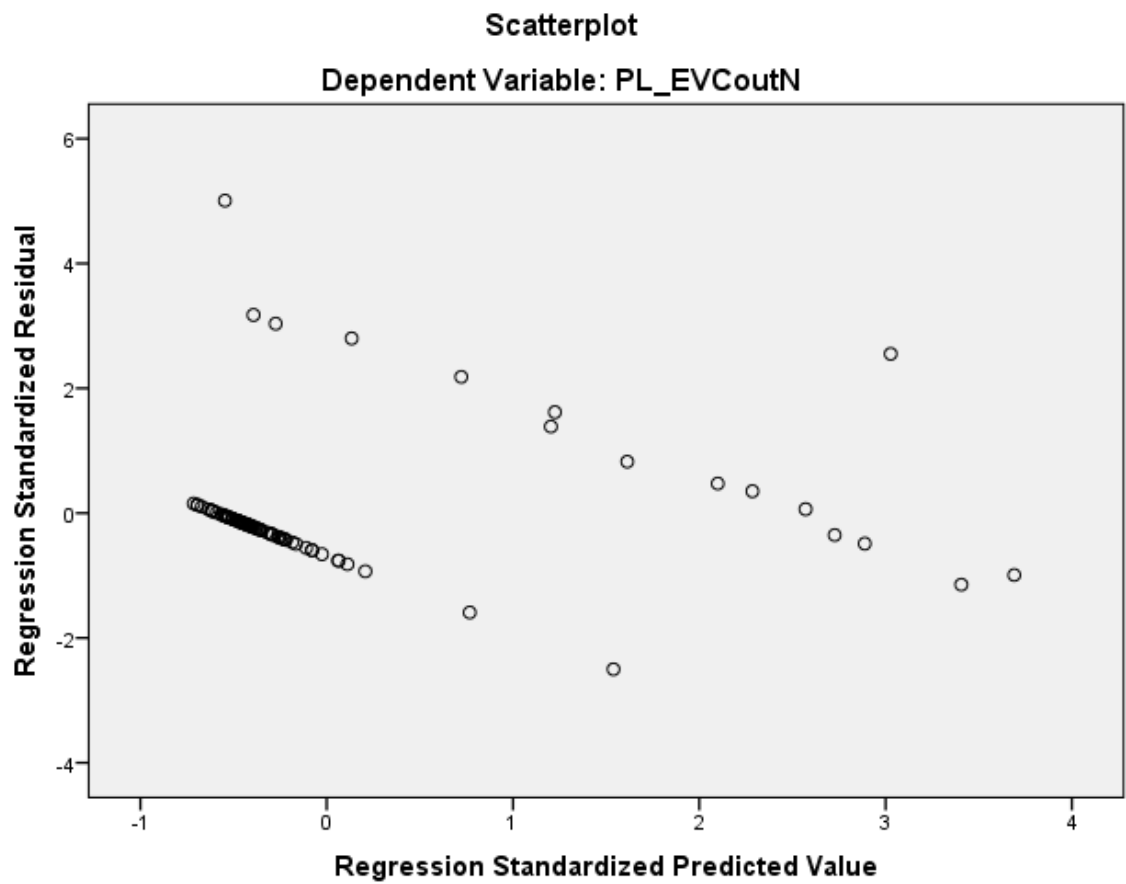
Residuals Statistics^a

	N
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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_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 GD_d Tpaths_d TSpaths_d AvgPL_d
AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		12-JUN-2015 14:59:06
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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 EVCut_TpoutN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
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	Memory Required	14512 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	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: EVCout_TpoutN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.336 ^a	.113	.103	.03271552084 7646
2	.426 ^b	.181	.163	.03160316628 2073

a. Predictors: (Constant), Edges_d

b. Predictors: (Constant), Edges_d, Reciprocity

c. Dependent Variable: EVCout_TpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.012	1	.012	11.299	.001 ^b
	Residual	.095	89	.001		
	Total	.107	90			
2	Regression	.019	2	.010	9.742	.000 ^c
	Residual	.088	88	.001		
	Total	.107	90			

a. Dependent Variable: EVCout_TpoutN

b. Predictors: (Constant), Edges_d

c. Predictors: (Constant), Edges_d, Reciprocity

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	-.024	.011		-2.197	.031
	Edges_d	3.202	.952	.336	3.361	.001
2	(Constant)	-.024	.011		-2.238	.028
	Edges_d	2.922	.926	.306	3.156	.002
	Reciprocity	.245	.090	.264	2.716	.008

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Edges_d	1.000	1.000
2	(Constant)		
	Edges_d	.988	1.012
	Reciprocity	.988	1.012

a. Dependent Variable: EVCout_TpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.532 ^b	-1.412	.162	-.149	.069	14.403

	Reciprocity	.264 ^b	2.716	.008	.278	.988	1.012
	Den_d	.288 ^b	1.605	.112	.169	.304	3.288
	GD_d	-.060 ^b	-.564	.574	-.060	.901	1.110
	Tpaths_d	.114 ^b	.905	.368	.096	.627	1.594
	TSpaths_d	.112 ^b	.890	.376	.094	.629	1.590
	AvgPL_d	.158 ^b	1.488	.140	.157	.876	1.141
	AvgGL_d	.154 ^b	1.457	.149	.153	.879	1.138
	PL_TpoutN	.102 ^b	1.004	.318	.106	.967	1.034
	PL_TSpoutN	-.024 ^b	-.233	.816	-.025	.930	1.075
	S_pro	.066 ^b	.655	.514	.070	.998	1.002
	R_pro	.052 ^b	.516	.607	.055	.991	1.010
2	Nodes	-.433 ^c	-1.180	.241	-.125	.069	14.561
	Den_d	.269 ^c	1.548	.125	.164	.304	3.294
	GD_d	-.076 ^c	-.744	.459	-.080	.898	1.114
	Tpaths_d	.109 ^c	.893	.375	.095	.627	1.594
	TSpaths_d	.109 ^c	.897	.372	.096	.629	1.590
	AvgPL_d	.125 ^c	1.209	.230	.129	.863	1.159
	AvgGL_d	.126 ^c	1.223	.225	.130	.869	1.150
	PL_TpoutN	.066 ^c	.666	.507	.071	.948	1.054
	PL_TSpoutN	-.048 ^c	-.473	.637	-.051	.923	1.083
	S_pro	.001 ^c	.007	.994	.001	.937	1.067
	R_pro	-.018 ^c	-.175	.862	-.019	.924	1.083

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.069
	Reciprocity	.988
	Den_d	.304
	GD_d	.901
	Tpaths_d	.627
	TSpaths_d	.629
	AvgPL_d	.876
	AvgGL_d	.879
	PL_TpoutN	.967
	PL_TSpoutN	.930
	S_pro	.998
	R_pro	.991
2	Nodes	.068
	Den_d	.301
	GD_d	.894
	Tpaths_d	.624
	TSpaths_d	.625
	AvgPL_d	.863
	AvgGL_d	.869

PL_TpoutN	.948
PL_TSpoutN	.923
S_pro	.927
R_pro	.921

a. Dependent Variable: EVCout_TpoutN

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	1.950	1.000	.02	.02	
	2	.050	6.264	.98	.98	
2	1	2.107	1.000	.02	.02	.05
	2	.843	1.581	.01	.01	.94
	3	.050	6.524	.97	.97	.00

a. Dependent Variable: EVCout_TpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00700540747 4935	.07158008217 8116	.01098901098 9011	.01470422524 0675
Std. Predicted Value	-1.224	4.121	.000	1.000
Standard Error of Predicted Value	.003	.016	.005	.003
Adjusted Predicted Value	- .00725524034 3511	.05395328253 5076	.01075405408 2306	.01409467530 5432
Residual	- .04351138323 5455	.17726533114 9101	.00000000000 0000	.03125004719 5806
Std. Residual	-1.377	5.609	.000	.989
Stud. Residual	-1.533	5.654	.003	1.034
Deleted Residual	- .05395328253 5076	.18013618886 4708	.00023495690 6705	.03435539808 9478
Stud. Deleted Residual	-1.545	7.046	.028	1.153
Mahal. Distance	.088	22.652	1.978	4.063
Cook's Distance	.000	2.010	.037	.216
Centered Leverage Value	.001	.252	.022	.045

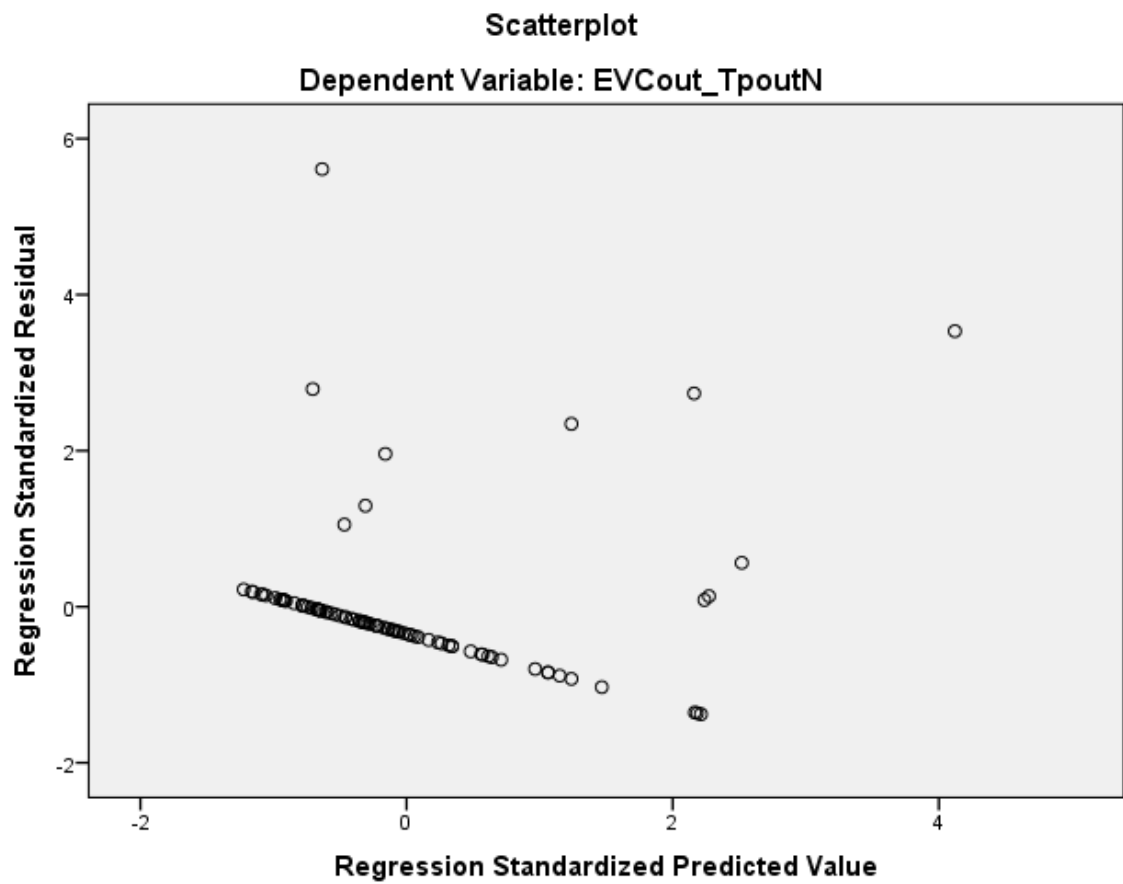
Residuals Statistics^a

	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: 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 GD_d Tpaths_d TSpaths_d AvgPL_d
AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	Weight	<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 GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.20
	Memory Required	14544 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	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: EVCut_TSpoutN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.349 ^a	.122	.112	.03418242571 8814
2	.400 ^b	.160	.141	.03362398060 6953

a. Predictors: (Constant), Edges_d

b. Predictors: (Constant), Edges_d, Reciprocity

c. Dependent Variable: EVCout_TSpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.014	1	.014	12.319	.001 ^b
	Residual	.104	89	.001		
	Total	.118	90			
2	Regression	.019	2	.009	8.356	.000 ^c
	Residual	.099	88	.001		
	Total	.118	90			

a. Dependent Variable: EVCout_TSpoutN

b. Predictors: (Constant), Edges_d

c. Predictors: (Constant), Edges_d, Reciprocity

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	-.027	.012		-2.380	.019
	Edges_d	3.493	.995	.349	3.510	.001
2	(Constant)	-.027	.011		-2.394	.019
	Edges_d	3.275	.985	.327	3.324	.001
	Reciprocity	.192	.096	.196	1.995	.049

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Edges_d	1.000	1.000
2	(Constant)		
	Edges_d	.988	1.012
	Reciprocity	.988	1.012

a. Dependent Variable: EVCout_TSpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.513 ^b	-1.369	.175	-.144	.069	14.403

	Reciprocity	.196 ^b	1.995	.049	.208	.988	1.012
	Den_d	.288 ^b	1.614	.110	.170	.304	3.288
	GD_d	-.065 ^b	-.619	.537	-.066	.901	1.110
	Tpaths_d	.100 ^b	.799	.426	.085	.627	1.594
	TSpaths_d	.099 ^b	.790	.432	.084	.629	1.590
	AvgPL_d	.136 ^b	1.288	.201	.136	.876	1.141
	AvgGL_d	.134 ^b	1.266	.209	.134	.879	1.138
	PL_TpoutN	.067 ^b	.661	.510	.070	.967	1.034
	PL_TSpoutN	-.050 ^b	-.484	.630	-.052	.930	1.075
	S_pro	.016 ^b	.159	.874	.017	.998	1.002
	R_pro	.000 ^b	.003	.997	.000	.991	1.010
2	Nodes	-.441 ^c	-1.186	.239	-.126	.069	14.561
	Den_d	.274 ^c	1.557	.123	.165	.304	3.294
	GD_d	-.077 ^c	-.748	.457	-.080	.898	1.114
	Tpaths_d	.096 ^c	.780	.438	.083	.627	1.594
	TSpaths_d	.097 ^c	.785	.435	.084	.629	1.590
	AvgPL_d	.112 ^c	1.069	.288	.114	.863	1.159
	AvgGL_d	.113 ^c	1.080	.283	.115	.869	1.150
	PL_TpoutN	.040 ^c	.398	.691	.043	.948	1.054
	PL_TSpoutN	-.068 ^c	-.664	.508	-.071	.923	1.083
	S_pro	-.035 ^c	-.341	.734	-.036	.937	1.067
	R_pro	-.054 ^c	-.531	.597	-.057	.924	1.083

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.069
	Reciprocity	.988
	Den_d	.304
	GD_d	.901
	Tpaths_d	.627
	TSpaths_d	.629
	AvgPL_d	.876
	AvgGL_d	.879
	PL_TpoutN	.967
	PL_TSpoutN	.930
	S_pro	.998
	R_pro	.991
2	Nodes	.068
	Den_d	.301
	GD_d	.894
	Tpaths_d	.624
	TSpaths_d	.625
	AvgPL_d	.863
	AvgGL_d	.869

PL_TpoutN	.948
PL_TSpoutN	.923
S_pro	.927
R_pro	.921

a. Dependent Variable: EVCout_TSpoutN

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	1.950	1.000	.02	.02	
	2	.050	6.264	.98	.98	
2	1	2.107	1.000	.02	.02	.05
	2	.843	1.581	.01	.01	.94
	3	.050	6.524	.97	.97	.00

a. Dependent Variable: EVCout_TSpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00826220307 4992	.07525228708 9825	.01098901098 9011	.01448922915 8872
Std. Predicted Value	-1.329	4.435	.000	1.000
Standard Error of Predicted Value	.004	.017	.005	.003
Adjusted Predicted Value	- .00855685677 3794	.04440751671 7911	.01075558842 2889	.01369149622 0106
Residual	- .03607869148 2544	.19002427160 7399	.00000000000 0000	.03324828188 0990
Std. Residual	-1.073	5.651	.000	.989
Stud. Residual	-1.175	5.697	.003	1.034
Deleted Residual	- .04440751671 7911	.19310176372 5281	.00023342256 6122	.03660471182 6798
Stud. Deleted Residual	-1.178	7.130	.028	1.158
Mahal. Distance	.088	22.652	1.978	4.063
Cook's Distance	.000	2.080	.038	.223
Centered Leverage Value	.001	.252	.022	.045

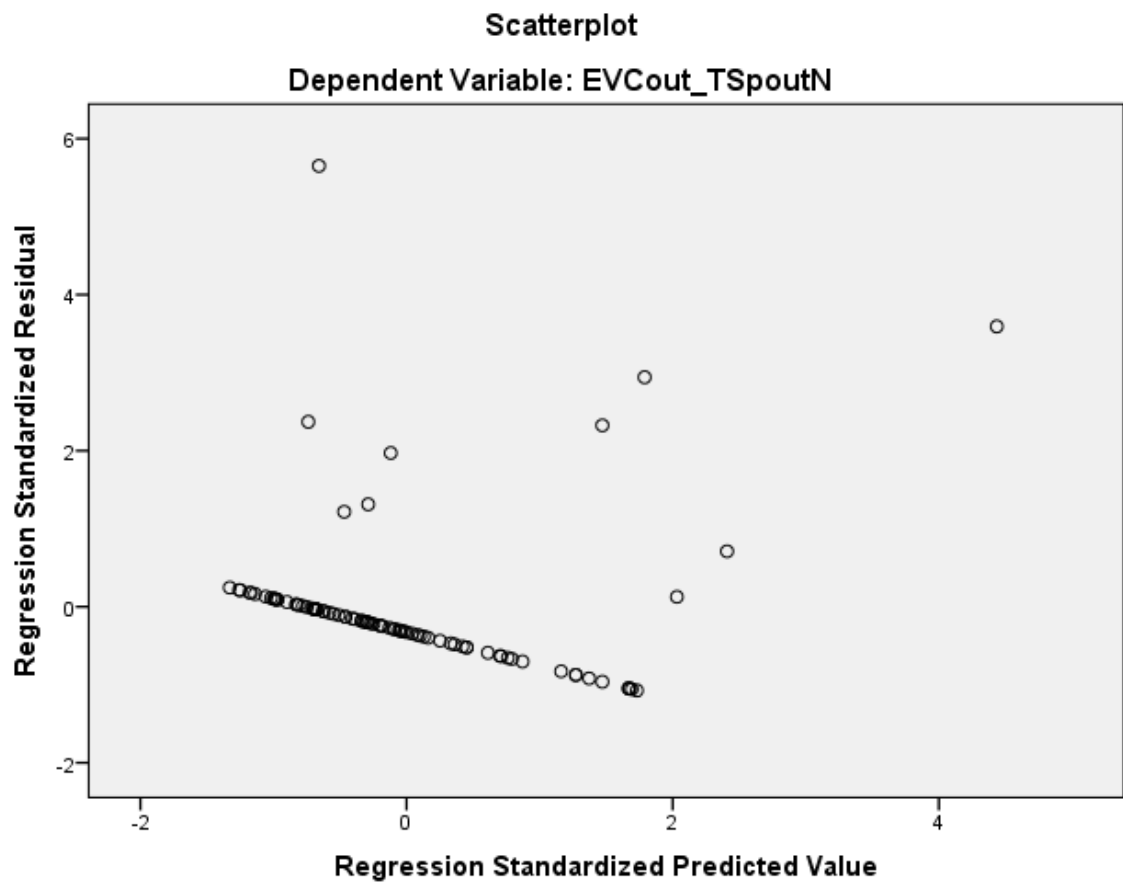
Residuals Statistics^a

	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: EVCout_TSpoutN

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 GD_d Tpaths_d TSpaths_d AvgPL_d
AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro

/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 GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.18
	Memory Required	14592 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	Reciprocity		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	.275 ^a	.076	.065	.02850521968 3361

a. Predictors: (Constant), Reciprocity

b. Dependent Variable: EVCout_TpoutN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
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1	Regression	.006	1	.006	7.202	.009 ^b
	Residual	.072	88	.001		
	Total	.077	89			

a. Dependent Variable: EVCout_TpoutN

b. Predictors: (Constant), Reciprocity

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.007	.003		2.169	.033
Reciprocity	.219	.082	.275	2.684	.009

Coefficients^a

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

a. Dependent Variable: EVCout_TpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	.110 ^b	1.076	.285	.115	.999	1.001
	Edges_d	.082 ^b	.797	.428	.085	.997	1.003
	Den_d	-.109 ^b	-1.063	.291	-.113	.998	1.002
	GD_d	.035 ^b	.335	.738	.036	.992	1.008
	Tpaths_d	.162 ^b	1.592	.115	.168	.997	1.003
	TSpaths_d	.161 ^b	1.583	.117	.167	.998	1.002
	AvgPL_d	.146 ^b	1.419	.159	.150	.983	1.018
	AvgGL_d	.143 ^b	1.389	.168	.147	.987	1.013
	PL_TpoutN	.116 ^b	1.116	.268	.119	.977	1.023
	PL_TSpoutN	.014 ^b	.140	.889	.015	.989	1.011
	S_pro	-.044 ^b	-.412	.681	-.044	.942	1.061
	R_pro	-.041 ^b	-.387	.700	-.041	.933	1.071

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Nodes	.999	
	Edges_d	.997	

Den_d	.998
GD_d	.992
Tpaths_d	.997
TSpaths_d	.998
AvgPL_d	.983
AvgGL_d	.987
PL_TpoutN	.977
PL_TSpoutN	.989
S_pro	.942
R_pro	.933

a. Dependent Variable: EVCout_TpoutN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Reciprocity
1	1	1.274	1.000	.36	.36
	2	.726	1.325	.64	.64

a. Dependent Variable: EVCout_TpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00677778059 6167	.04263847321 2719	.00907530214 2103	.00810874257 0306
Std. Predicted Value	-.283	4.139	.000	1.000
Standard Error of Predicted Value	.003	.013	.004	.002
Adjusted Predicted Value	.00468461774 2896	.05125825852 1557	.00915550228 1425	.00882663294 1827
Residual	- .04148698225 6174	.17214626073 8373	.00000000000 0000	.02834462561 8500
Std. Residual	-1.455	6.039	.000	.994
Stud. Residual	-1.618	6.076	-.001	1.016
Deleted Residual	- .05125825852 1557	.17423942685 1273	- .00008020013 9322	.02962756244 4010
Stud. Deleted Residual	-1.633	7.929	.028	1.173
Mahal. Distance	.080	17.132	.989	3.377
Cook's Distance	.000	.882	.024	.105
Centered Leverage Value	.001	.192	.011	.038

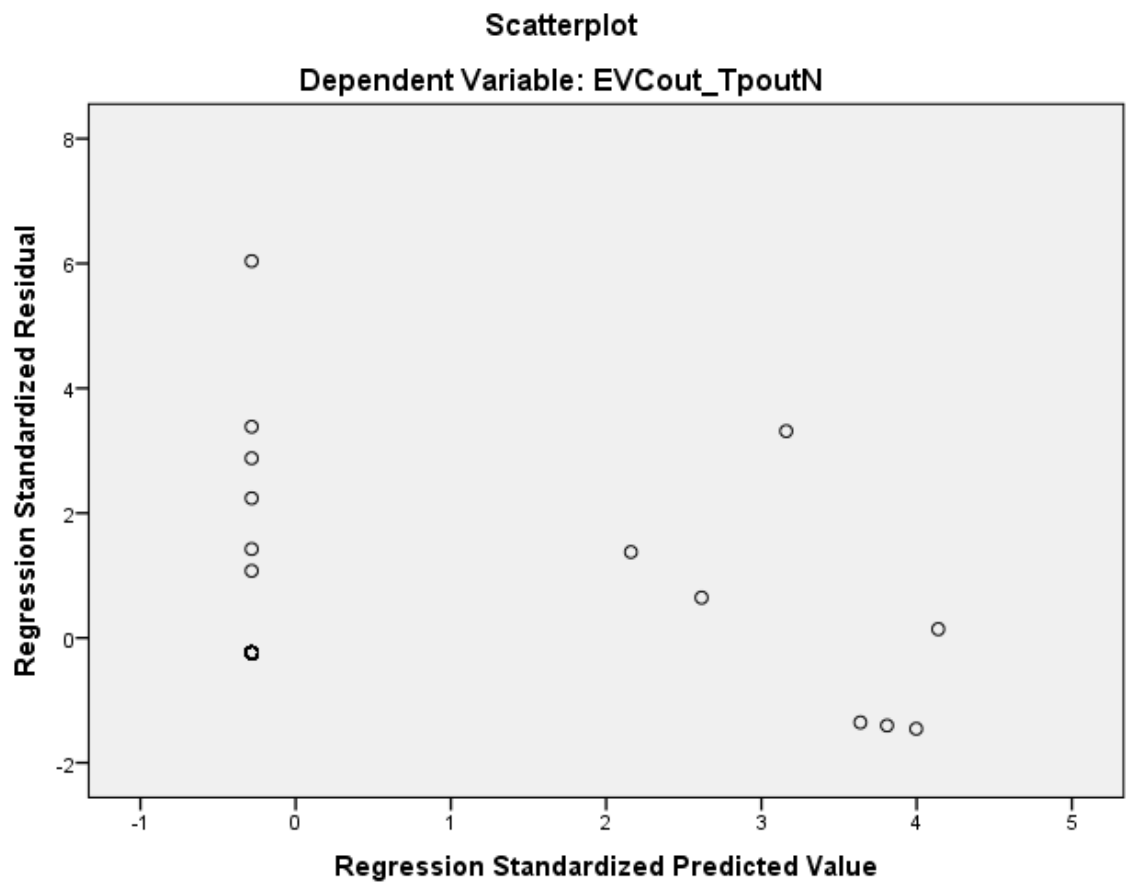
Residuals Statistics^a

	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_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 GD_d Tpaths_d TSpaths_d AvgPL_d
AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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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 EVCut_TSpoutN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.07
	Memory Required	14624 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 Ecout

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 10:10:43	
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	
Resources		/DEPENDENT ECont	
		/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d	
		/SCATTERPLOT=(*ZRESID ,*ZPRED)	
		/SAVE COOK.	
	Processor Time		00:00:00.25
	Elapsed Time		00:00:00.34
	Memory Required	6320 bytes	
	Additional Memory Required for Residual Plots	0 bytes	

Variables Created or Modified	COO_11	Cook's Distance
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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: Ecout

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.327 ^a	.107	.097	.00266924023 5289

a. Predictors: (Constant), Tpaths_d

b. Dependent Variable: Ecout

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	10.661	.002 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: ECont

b. Predictors: (Constant), Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.016	.002		10.116	.000
	Tpaths_d	-.466	.143	-.327	-3.265	.002

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF

1	(Constant)		
	Tpaths_d	1.000	1.000

a. Dependent Variable: Ecout

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.001 ^b	-.009	.993	-.001	.751	1.331
	TSpaths_d	7.133 ^b	1.555	.124	.163	.000	2131.900
	AvgPL_d	-.089 ^b	-.458	.648	-.049	.270	3.697
	AvgGL_d	-.052 ^b	-.266	.791	-.028	.266	3.753

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.751	
	TSpaths_d	.000	
	AvgPL_d	.270	
	AvgGL_d	.266	

a. Dependent Variable: Ecout

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Tpaths_d
1	1	1.984	1.000	.01	.01
	2	.016	11.292	.99	.99

a. Dependent Variable: Ecout

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00729450909 4208	.01190692558 8846	.01098901098 9011	.00091870269 9966
Std. Predicted Value	-4.021	.999	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00611999211 8329	.01188737712 8005	.01098215902 8841	.00096889226 1301
Residual	- .00895755551 7554	.00498519977 5547	.00000000000 0000	.00265436970 0446
Std. Residual	-3.356	1.868	.000	.994

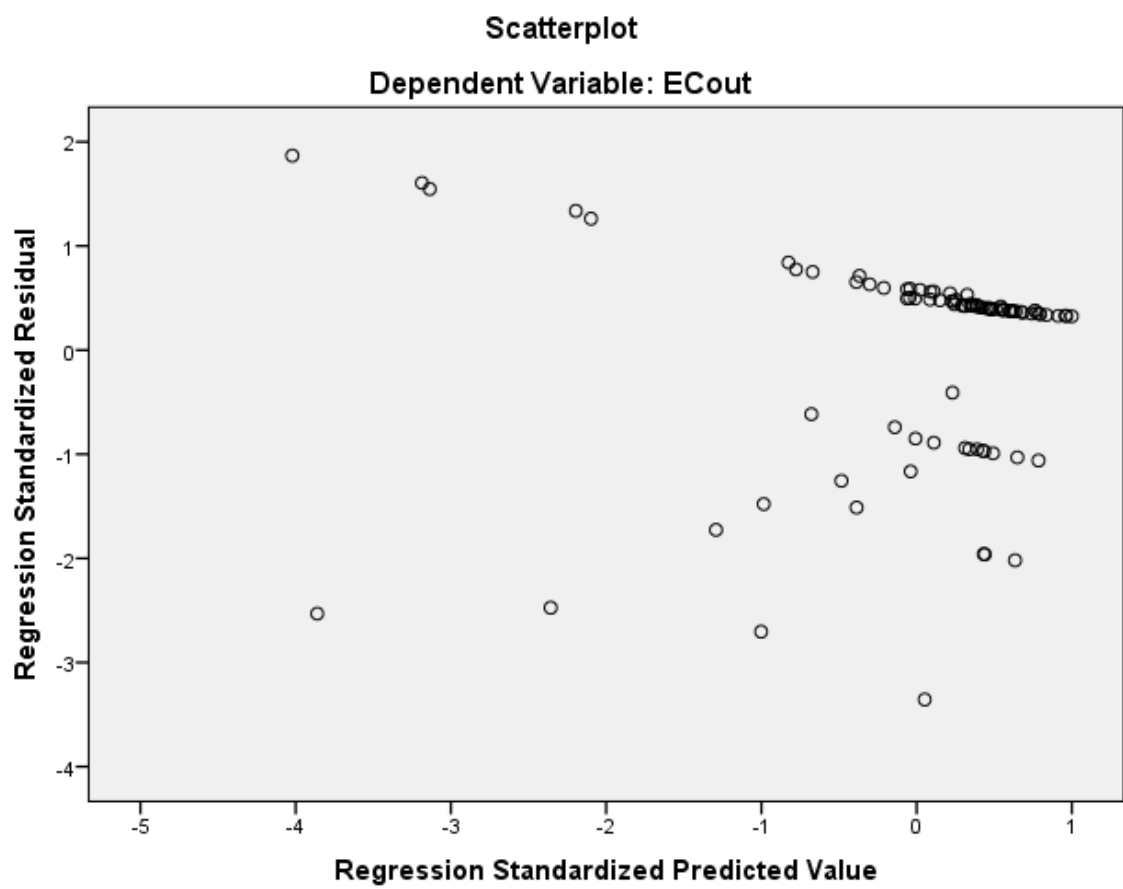
Stud. Residual	-3.374	2.076	.001	1.020
Deleted Residual	-			
	.00905735883	.00615971628	.00000685196	.00279698203
	8618	5765	0170	6515
Stud. Deleted Residual	-3.593	2.116	-.006	1.041
Mahal. Distance	.000	16.172	.989	2.754
Cook's Distance	.001	.834	.029	.108
Centered Leverage Value	.000	.180	.011	.031

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: ECout

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 TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created	06-JUN-2015 10:11:11	
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 PL_EVCoutN /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	00:00:00.20
	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	Tpaths_d		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
1	.406 ^a	.165	.155	.02259269329 7699

a. Predictors: (Constant), Tpaths_d

b. Dependent Variable: PL_EVCoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.009	1	.009	17.549	.000 ^b
	Residual	.045	89	.001		
	Total	.054	90			

a. Dependent Variable: PL_EVCoutN

b. Predictors: (Constant), Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.045	.013		-3.309	.001
	Tpaths_d	5.058	1.207	.406	4.189	.000

Coefficients^a

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

a. Dependent Variable: PL_EVCoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.080 ^b	.714	.477	.076	.751	1.331
	TSpaths_d	-6.125 ^b	-1.376	.172	-.145	.000	2131.900
	AvgPL_d	.105 ^b	.559	.577	.060	.270	3.697
	AvgGL_d	.074 ^b	.391	.697	.042	.266	3.753

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.751	
	TSpaths_d	.000	
	AvgPL_d	.270	
	AvgGL_d	.266	

a. Dependent Variable: PL_EVCoutN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Tpaths_d
1	1	1.984	1.000	.01	.01
	2	.016	11.292	.99	.99

a. Dependent Variable: PL_EVCoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00102123676 3336	.05110815912 4851	.01098901098 9011	.00997632990 6312
Std. Predicted Value	-.999	4.021	.000	1.000
Standard Error of Predicted Value	.002	.010	.003	.001
Adjusted Predicted Value	.00104429596 1037	.06012779474 2584	.01102689237 6883	.01026959424 9257
Residual	- .04950765147 8052	.10216709971 4279	.00000000000 0000	.02246682773 1744
Std. Residual	-2.191	4.522	.000	.994
Stud. Residual	-2.415	4.552	-.001	1.009
Deleted Residual	- .06012779474 2584	.10352683067 3218	- .00003788138 7872	.02315282645 0727

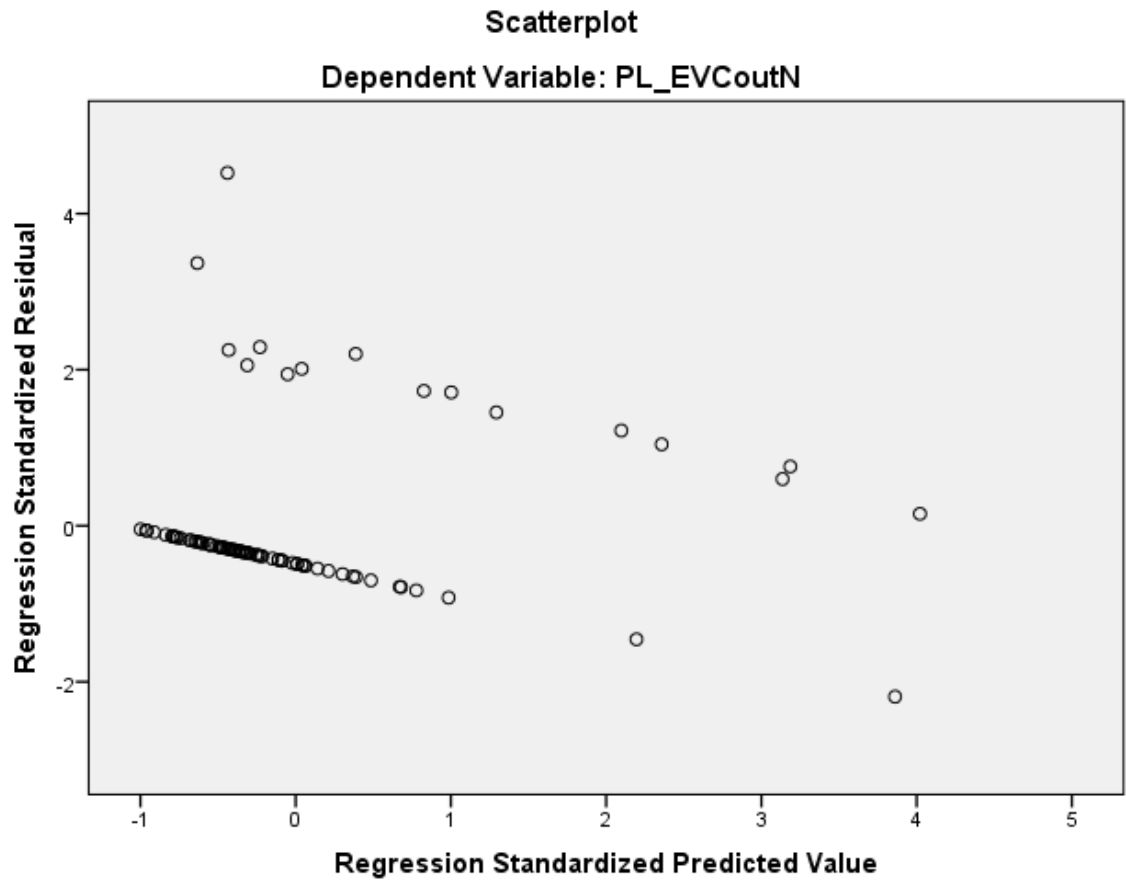
Stud. Deleted Residual	-2.484	5.168	.012	1.058
Mahal. Distance	.000	16.172	.989	2.754
Cook's Distance	.000	.626	.016	.068
Centered Leverage Value	.000	.180	.011	.031

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_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 TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		06-JUN-2015 10:11:32
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.

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 EVCut_TpoutN /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		00:00:00.24
	Memory Required	6400 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	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	.277 ^a	.076	.066	.03337608652 3384

a. Predictors: (Constant), Tpaths_d

b. Dependent Variable: EVCout_TpoutN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
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1	Regression	.008	1	.008	7.368	.008 ^b
	Residual	.099	89	.001		
	Total	.107	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)	-.042	.020		-2.120	.037
Tpaths_d	4.841	1.784	.277	2.714	.008

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	-.114 ^b	-.972	.334	-.103	.751	1.331
	TSpaths_d	-3.057 ^b	-.648	.519	-.069	.000	2131.900
	AvgPL_d	.074 ^b	.378	.707	.040	.270	3.697
	AvgGL_d	.058 ^b	.292	.771	.031	.266	3.753

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.751	
	TSpaths_d	.000	
	AvgPL_d	.270	
	AvgGL_d	.266	

a. Dependent Variable: EVCout_TpoutN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
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		Index	(Constant)	Tpaths_d
1	1	1.984	1.000	.01
	2	.016	11.292	.99

a. Dependent Variable: EVCout_TpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00144765060 3950	.04939189180 7318	.01098901098 9011	.00954955006 2881
Std. Predicted Value	-.999	4.021	.000	1.000
Standard Error of Predicted Value	.003	.015	.004	.002
Adjusted Predicted Value	.00148033816 3674	.06102865934 3719	.01114762541 4998	.01065115368 1844
Residual	- .04939189180 7318	.14972066879 2725	.00000000000 0000	.03319014587 5924
Std. Residual	-1.480	4.486	.000	.994
Stud. Residual	-1.645	4.659	-.002	1.021
Deleted Residual	- .06102865934 3719	.16146616637 7068	- .00015861442 5987	.03505980355 2176
Stud. Deleted Residual	-1.661	5.327	.018	1.105
Mahal. Distance	.000	16.172	.989	2.754

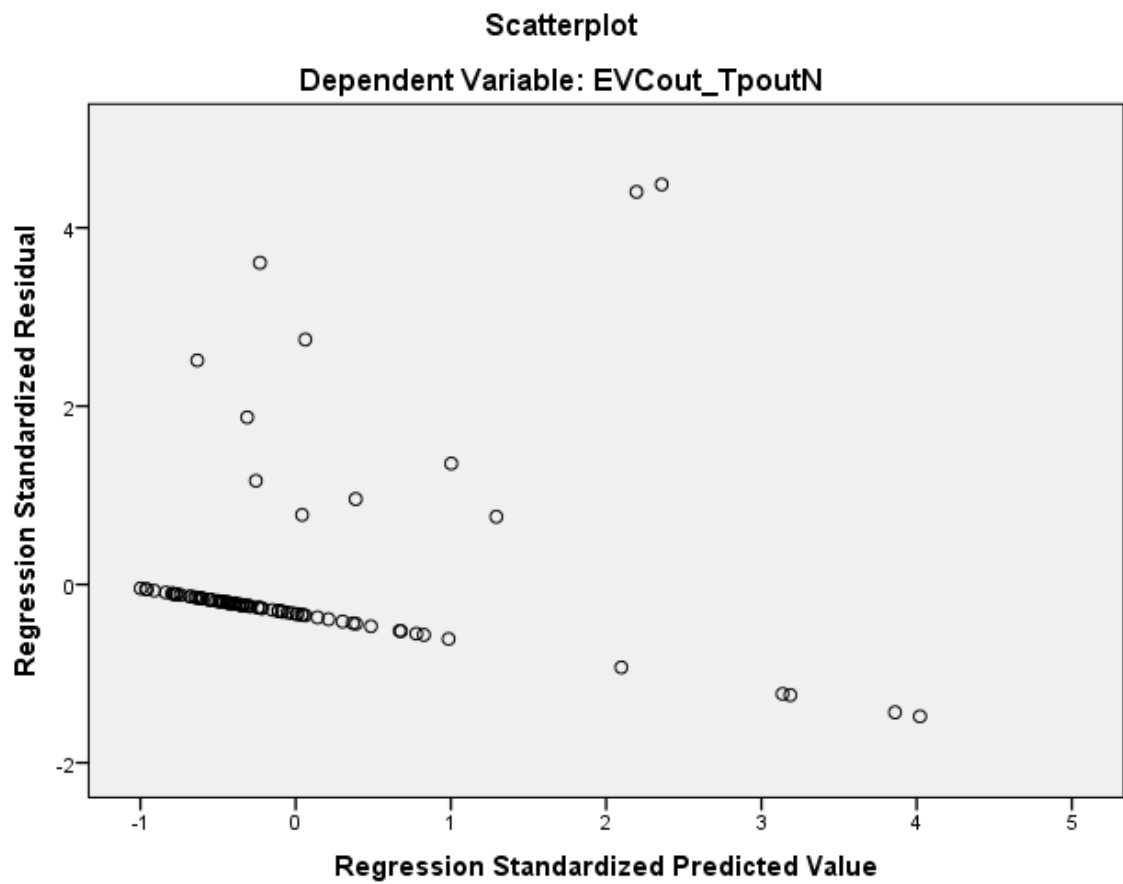
Cook's Distance	.000	.851	.030	.123
Centered Leverage Value	.000	.180	.011	.031

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: EVCout_TpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

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

/NOORIGIN

/DEPENDENT EVCout_TSpoutN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 10:12:12
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 EVCut_TSpoutN /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	00:00:00.22
	Memory Required	6432 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	Tpaths_d		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	.276 ^a	.076	.066	.03505633019 1143

a. Predictors: (Constant), Tpaths_d

b. Dependent Variable: EVCout_TSpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.009	1	.009	7.330	.008 ^b
	Residual	.109	89	.001		

Total	.118	90			
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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)	-.045	.021		-2.140	.035
Tpaths_d	5.072	1.873	.276	2.707	.008

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	-.115 ^b	-.977	.331	-.104	.751	1.331
	TSpaths_d	-2.255 ^b	-.477	.634	-.051	.000	2131.900
	AvgPL_d	.024 ^b	.121	.904	.013	.270	3.697
	AvgGL_d	.010 ^b	.049	.961	.005	.266	3.753

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.751
	TSpaths_d	.000
	AvgPL_d	.270
	AvgGL_d	.266

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	1.984	1.000	.01	.01
	2	.016	11.292	.99	.99

a. Dependent Variable: EVCout_TSpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00099285808 3919	.05122238025 0692	.01098901098 9011	.01000473297 6156
Std. Predicted Value	-.999	4.021	.000	1.000
Standard Error of Predicted Value	.004	.015	.005	.002
Adjusted Predicted Value	.00101527653 1689	.06329040974 3786	.01114581079 8514	.01113793265 6938
Residual	- .05122238025 0692	.16149689257 1449	.00000000000 0000	.03486102878 1891
Std. Residual	-1.461	4.607	.000	.994
Stud. Residual	-1.624	4.784	-.002	1.022
Deleted Residual	- .06329040974 3786	.17416623234 7488	- .00015679980 9503	.03685730615 7656
Stud. Deleted Residual	-1.640	5.519	.019	1.114
Mahal. Distance	.000	16.172	.989	2.754
Cook's Distance	.000	.898	.030	.129

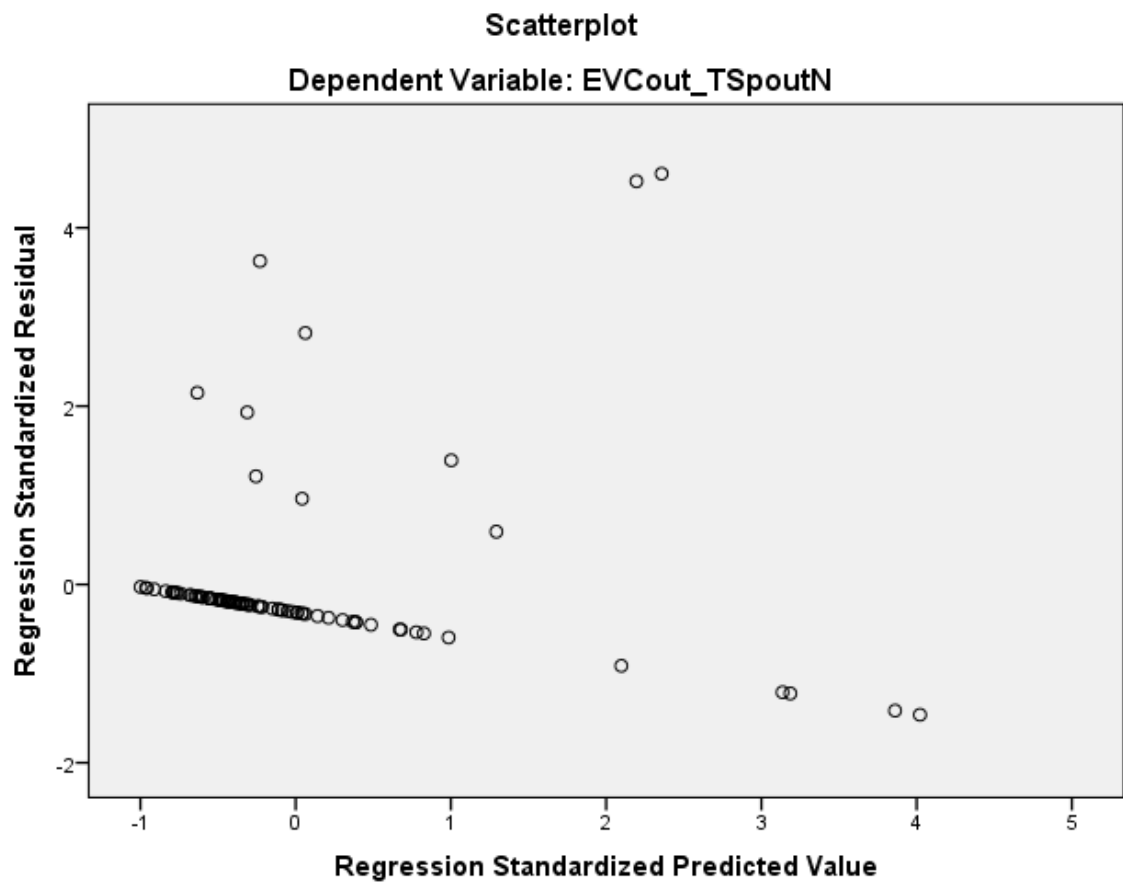
Centered Leverage Value	.000	.180	.011	.031
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Residuals Statistics^a

	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: 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

Output Created		06-JUN-2015 10:06:41
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 PL_TpoutN
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpats_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.33
	Elapsed Time	00:00:00.31
	Memory Required	6112 bytes
	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	Plots	
	COO_6	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: PL_TpoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.238 ^a	.057	.046	.014228126360529

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	5.335	.023 ^b
	Residual	.018	89	.000		

Total	.019	90			
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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)	.002	.004		.370	.712
	GD_d	.854	.370	.238	2.310	.023

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	.015 ^b	.126	.900	.013	.751	1.331
	TSpaths_d	.010 ^b	.088	.930	.009	.755	1.324
	AvgPL_d	.141 ^b	1.097	.276	.116	.636	1.573
	AvgGL_d	.125 ^b	.977	.331	.104	.647	1.546

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_d	.751
	TSpaths_d	.755
	AvgPL_d	.636
	AvgGL_d	.647

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	1.939	1.000	.03	.03
	2	.061	5.627	.97	.97

a. Dependent Variable: PL_TpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00634775357 3209	.02532997354 8651	.01098901098 9011	.00346407627 9094
Std. Predicted Value	-1.340	4.140	.000	1.000
Standard Error of Predicted Value	.001	.006	.002	.001
Adjusted Predicted Value	.00521626230 3293	.02760343439 8770	.01102533637 2101	.00359841585 4568
Residual	- .02058441936 9698	.03544501215 2195	.00000000000 0000	.01414886041 5860
Std. Residual	-1.447	2.491	.000	.994
Stud. Residual	-1.522	2.531	-.001	1.005
Deleted Residual	- .02277647145 0925	.03657650575 0418	- .00003632538 3090	.01444303731 9056
Stud. Deleted Residual	-1.533	2.612	.003	1.012
Mahal. Distance	.001	17.139	.989	2.184
Cook's Distance	.000	.123	.011	.019

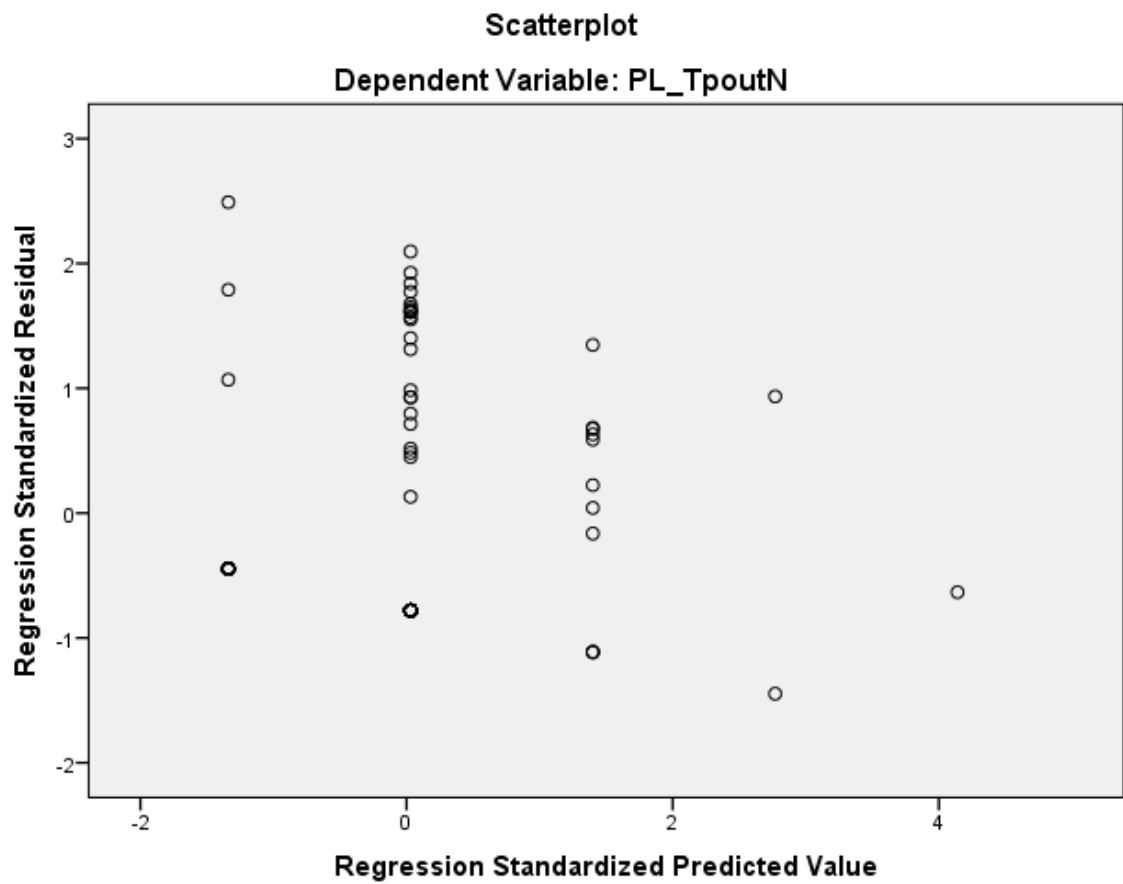
Centered Leverage Value	.000	.190	.011	.024
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Residuals Statistics^a

	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: 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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	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_TSpoutN /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	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: PL_TSpoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.227 ^a	.051	.041	.01406820383 2845

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	4.821	.031 ^b
	Residual	.018	89	.000		

Total	.019	90			
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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		.506	.614
GD_d	.803	.366	.227	2.196	.031

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	.025 ^b	.205	.838	.022	.751	1.331
	TSpaths_d	.022 ^b	.187	.852	.020	.755	1.324
	AvgPL_d	.084 ^b	.646	.520	.069	.636	1.573
	AvgGL_d	.077 ^b	.598	.551	.064	.647	1.546

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_d	.751
	TSpaths_d	.755
	AvgPL_d	.636
	AvgGL_d	.647

a. Dependent Variable: PL_TSpoutN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	GD_d

1	1	1.939	1.000	.03	.03
	2	.061	5.627	.97	.97

a. Dependent Variable: PL_TSpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00662667676 8064	.02446813508 8682	.01098901098 9011	.00325589780 4041
Std. Predicted Value	-1.340	4.140	.000	1.000
Standard Error of Predicted Value	.001	.006	.002	.001
Adjusted Predicted Value	.00549238594 2489	.02648538537 3235	.01102488297 2399	.00337683512 4271
Residual	- .02000777050 8528	.03553270921 1111	.00000000000 0000	.01398982882 8411
Std. Residual	-1.422	2.526	.000	.994
Stud. Residual	-1.496	2.566	-.001	1.004
Deleted Residual	- .02213841490 4475	.03666700050 2348	- .00003587198 3388	.01427540240 8664
Stud. Deleted Residual	-1.507	2.651	.004	1.013
Mahal. Distance	.001	17.139	.989	2.184
Cook's Distance	.000	.119	.010	.019

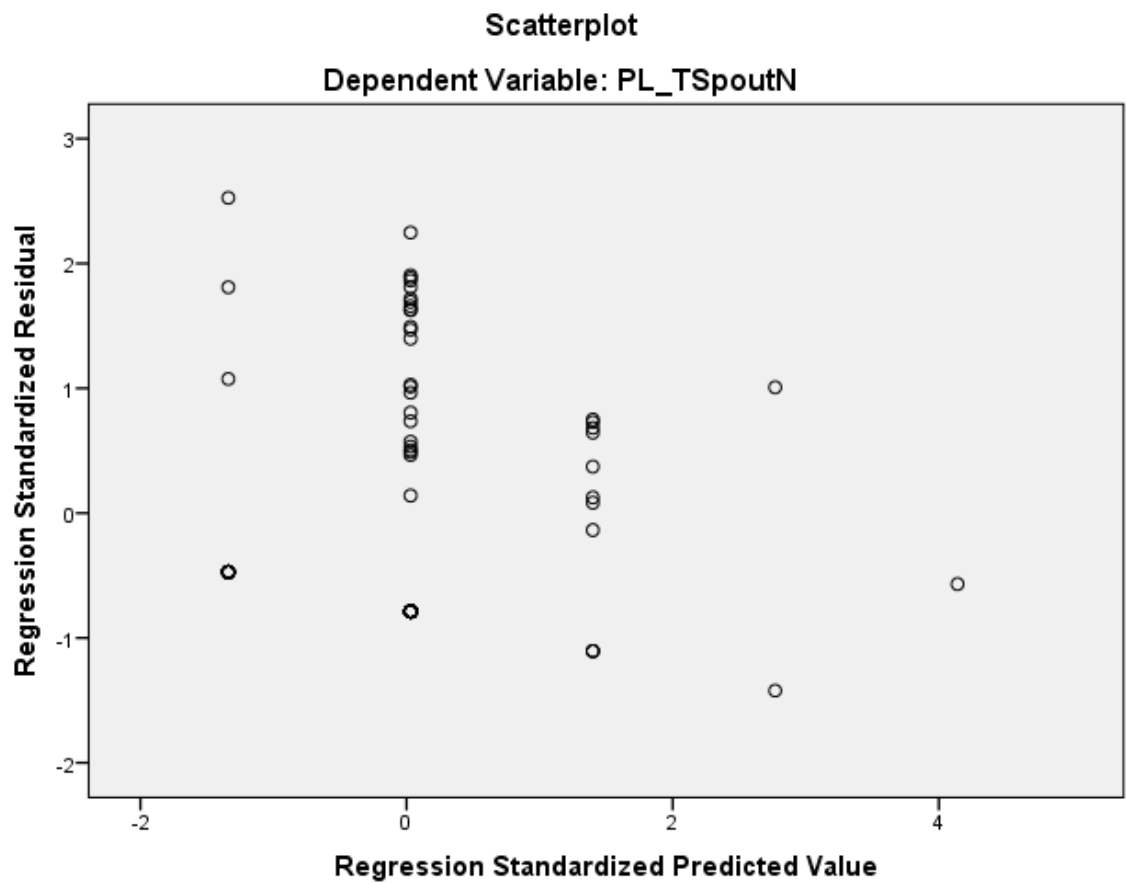
Centered Leverage Value	.000	.190	.011	.024
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Residuals Statistics^a

	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: 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>
	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 S_pro /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.23
	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
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1	AvgPL_d		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	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: S_pro

Model Summary^e

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.552 ^a	.305	.297	.01908973822 5939
2	.666 ^b	.443	.431	.01717996152 6899
3	.704 ^c	.495	.478	.01646005416 2605
4	.728 ^d	.529	.508	.01598128843 8151

a. Predictors: (Constant), AvgPL_d

b. Predictors: (Constant), AvgPL_d, TSpats_d

c. Predictors: (Constant), AvgPL_d, TSpats_d, GD_d

d. Predictors: (Constant), AvgPL_d, TSpats_d, GD_d, Tpaths_d

e. Dependent Variable: S_pro

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.014	1	.014	39.074	.000 ^b
	Residual	.032	89	.000		

	Total	.047	90			
2	Regression	.021	2	.010	35.065	.000 ^c
	Residual	.026	88	.000		
	Total	.047	90			
3	Regression	.023	3	.008	28.422	.000 ^d
	Residual	.024	87	.000		
	Total	.047	90			
4	Regression	.025	4	.006	24.185	.000 ^e
	Residual	.022	86	.000		
	Total	.047	90			

a. Dependent Variable: S_pro

b. Predictors: (Constant), AvgPL_d

c. Predictors: (Constant), AvgPL_d, TSpaths_d

d. Predictors: (Constant), AvgPL_d, TSpaths_d, GD_d

e. Predictors: (Constant), AvgPL_d, TSpaths_d, GD_d, Tpaths_d

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	-.036	.008		-4.640	.000

	AvgPL_d	4.306	.689	.552	6.251	.000
2	(Constant)	.002	.011		.179	.859
	AvgPL_d	9.018	1.183	1.157	7.625	.000
	TSpaths_d	-8.194	1.752	-.710	-4.678	.000
3	(Constant)	.006	.010		.562	.576
	AvgPL_d	10.493	1.237	1.346	8.485	.000
	TSpaths_d	-8.426	1.680	-.730	-5.016	.000
	GD_d	-1.600	.537	-.285	-2.978	.004
4	(Constant)	.004	.010		.397	.692
	AvgPL_d	9.985	1.218	1.281	8.200	.000
	TSpaths_d	-110.305	40.652	-9.555	-2.713	.008
	GD_d	-1.781	.527	-.317	-3.382	.001
	Tpaths_d	102.734	40.960	8.899	2.508	.014

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000
2	(Constant)		
	AvgPL_d	.275	3.640
	TSpaths_d	.275	3.640
3	(Constant)		

	AvgPL_d	.231	4.335
	TSpaths_d	.274	3.648
	GD_d	.634	1.577
4	(Constant)		
	AvgPL_d	.224	4.458
	TSpaths_d	.000	2266.202
	GD_d	.622	1.607
	Tpaths_d	.000	2300.411

a. Dependent Variable: S_pro

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
						Tolerance
1	GD_d	-.263 ^b	-2.434	.017	-.251	.636
	Tpaths_d	-.703 ^b	-4.577	.000	-.439	.270
	TSpaths_d	-.710 ^b	-4.678	.000	-.446	.275
	AvgGL_d	-2.978 ^b	-2.307	.023	-.239	.004
2	GD_d	-.285 ^c	-2.978	.004	-.304	.634
	Tpaths_d	7.250 ^c	1.949	.054	.205	.000
	AvgGL_d	-2.127 ^c	-1.785	.078	-.188	.004

3	Tpaths_d	8.899 ^d	2.508	.014	.261	.000
	AvgGL_d	-2.690 ^d	-2.363	.020	-.247	.004
4	AvgGL_d	48.418 ^e	2.445	.017	.256	1.319E-5

Excluded Variables^a

Model		Collinearity Statistics	
		VIF	Minimum Tolerance
1	GD_d	1.573	.636
	Tpaths_d	3.697	.270
	TSpaths_d	3.640	.275
	AvgGL_d	223.855	.004
2	GD_d	1.577	.231
	Tpaths_d	2256.977	.000
	AvgGL_d	229.981	.004
3	Tpaths_d	2300.411	.000
	AvgGL_d	235.054	.004
4	AvgGL_d	75811.299	1.348E-6

a. Dependent Variable: S_pro

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

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

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

e. Predictors in the Model: (Constant), AvgPL_d, TSpaths_d, GD_d, Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgPL_d	TSpaths_d
1	1	1.967	1.000	.02	.02	
	2	.033	7.695	.98	.98	
2	1	2.961	1.000	.00	.00	.00
	2	.034	9.390	.47	.23	.00
	3	.006	23.047	.53	.77	1.00
3	1	3.898	1.000	.00	.00	.00
	2	.068	7.589	.10	.00	.01
	3	.029	11.538	.37	.25	.01
	4	.005	26.859	.53	.75	.98
4	1	4.890	1.000	.00	.00	.00
	2	.072	8.244	.06	.00	.00
	3	.030	12.688	.45	.18	.00
	4	.008	25.122	.49	.79	.00
	5	6.766E-6	850.140	.00	.02	1.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
-------	-----------	----------------------

		GD_d	Tpaths_d
1	1		
	2		
2	1		
	2		
	3		
3	1	.00	
	2	.74	
	3	.22	
	4	.03	
4	1	.00	.00
	2	.75	.00
	3	.16	.00
	4	.06	.00
	5	.02	1.00

a. Dependent Variable: S_pro

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
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Predicted Value	- .01114958338 4395	.08355287462 4729	.01098901098 9011	.01656899545 0577
Std. Predicted Value	-1.336	4.379	.000	1.000
Standard Error of Predicted Value	.002	.015	.003	.002
Adjusted Predicted Value	- .01161322183 9070	.07106829434 6333	.01097226921 1273	.01612937797 0372
Residual	- .04004427790 6418	.07292003929 6150	.00000000000 0000	.01562211249 4912
Std. Residual	-2.506	4.563	.000	.978
Stud. Residual	-2.592	4.748	-.001	1.015
Deleted Residual	- .04284353554 2488	.07897290587 4252	.00001674177 7738	.01690182759 9571
Stud. Deleted Residual	-2.684	5.496	.008	1.076
Mahal. Distance	.433	74.045	3.956	8.567
Cook's Distance	.000	.374	.018	.051
Centered Leverage Value	.005	.823	.044	.095

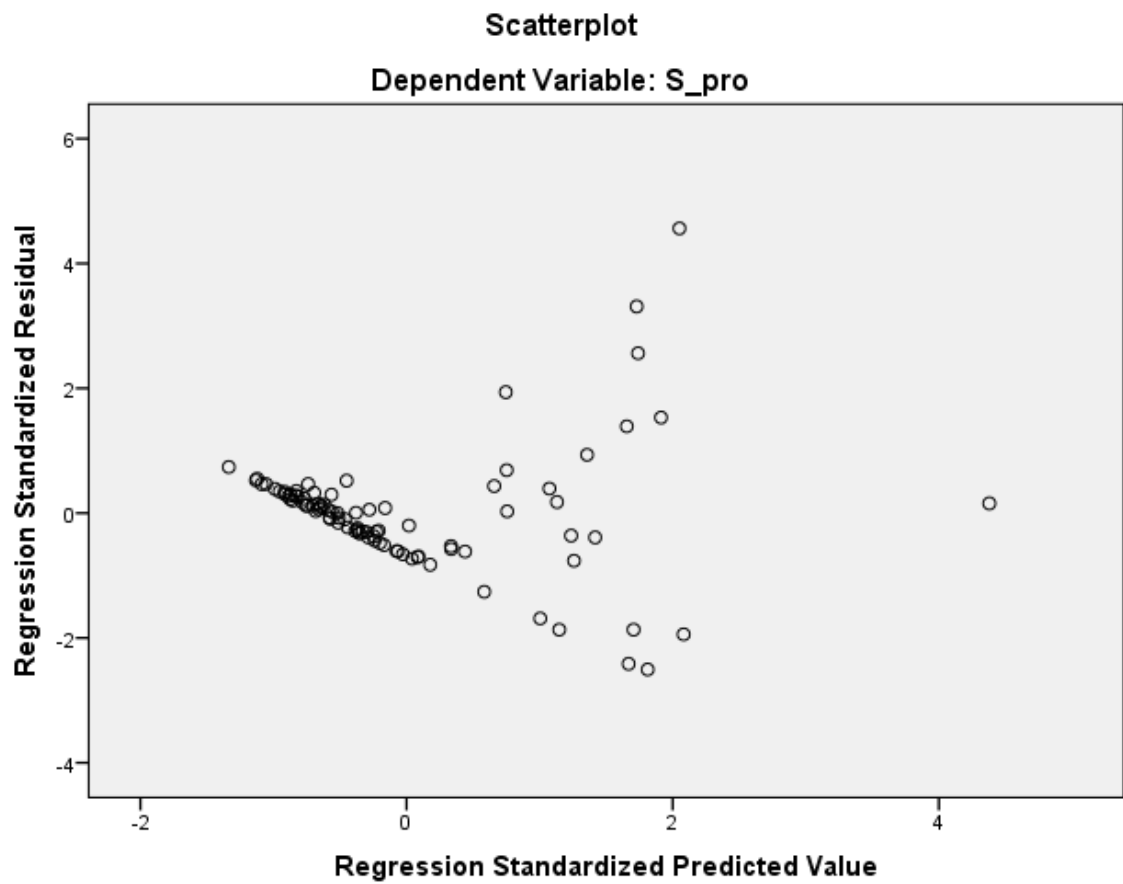
Residuals Statistics^a

	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 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.
	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	00:00:00.20
	Elapsed Time	00:00:00.23
	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	AvgPL_d		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	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: R_pro

Model Summary^e

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.620 ^a	.384	.377	.00456642290 1591
2	.711 ^b	.505	.494	.00411615809 4449
3	.730 ^c	.533	.517	.00402280728 7561
4	.747 ^d	.558	.537	.00393646849 9572

a. Predictors: (Constant), AvgPL_d

b. Predictors: (Constant), AvgPL_d, TSpats_d

c. Predictors: (Constant), AvgPL_d, TSpats_d, GD_d

d. Predictors: (Constant), AvgPL_d, TSpats_d, GD_d, Tpaths_d

e. Dependent Variable: R_pro

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.001	1	.001	55.468	.000 ^b
	Residual	.002	89	.000		

	Total	.003	90			
2	Regression	.002	2	.001	44.902	.000 ^c
	Residual	.001	88	.000		
	Total	.003	90			
3	Regression	.002	3	.001	33.050	.000 ^d
	Residual	.001	87	.000		
	Total	.003	90			
4	Regression	.002	4	.000	27.102	.000 ^e
	Residual	.001	86	.000		
	Total	.003	90			

a. Dependent Variable: R_pro

b. Predictors: (Constant), AvgPL_d

c. Predictors: (Constant), AvgPL_d, TSpats_d

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

e. Predictors: (Constant), AvgPL_d, TSpats_d, GD_d, Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.002	.002		-1.333	.186

	AvgPL_d	1.227	.165	.620	7.448	.000
2	(Constant)	.007	.003		2.550	.012
	AvgPL_d	2.347	.283	1.185	8.283	.000
	TSpaths_d	-1.947	.420	-.664	-4.641	.000
3	(Constant)	.007	.003		2.875	.005
	AvgPL_d	2.621	.302	1.324	8.673	.000
	TSpaths_d	-1.991	.411	-.679	-4.848	.000
	GD_d	-.297	.131	-.208	-2.265	.026
4	(Constant)	.007	.002		2.773	.007
	AvgPL_d	2.511	.300	1.268	8.374	.000
	TSpaths_d	-24.043	10.013	-8.198	-2.401	.018
	GD_d	-.337	.130	-.236	-2.596	.011
	Tpaths_d	22.238	10.089	7.582	2.204	.030

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000
2	(Constant)		
	AvgPL_d	.275	3.640
	TSpaths_d	.275	3.640
3	(Constant)		

	AvgPL_d	.231	4.335
	TSpaths_d	.274	3.648
	GD_d	.634	1.577
4	(Constant)		
	AvgPL_d	.224	4.458
	TSpaths_d	.000	2266.202
	GD_d	.622	1.607
	Tpaths_d	.000	2300.411

a. Dependent Variable: R_pro

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
						Tolerance
1	GD_d	-.188 ^b	-1.823	.072	-.191	.636
	Tpaths_d	-.658 ^b	-4.547	.000	-.436	.270
	TSpaths_d	-.664 ^b	-4.641	.000	-.443	.275
	AvgGL_d	-2.650 ^b	-2.173	.033	-.226	.004
2	GD_d	-.208 ^c	-2.265	.026	-.236	.634
	Tpaths_d	6.355 ^c	1.807	.074	.190	.000
	AvgGL_d	-1.849 ^c	-1.641	.104	-.173	.004

3	Tpaths_d	7.582 ^d	2.204	.030	.231	.000
	AvgGL_d	-2.268 ^d	-2.055	.043	-.216	.004
4	AvgGL_d	49.024 ^e	2.562	.012	.268	1.319E-5

Excluded Variables^a

Model		Collinearity Statistics	
		VIF	Minimum Tolerance
1	GD_d	1.573	.636
	Tpaths_d	3.697	.270
	TSpaths_d	3.640	.275
	AvgGL_d	223.855	.004
2	GD_d	1.577	.231
	Tpaths_d	2256.977	.000
	AvgGL_d	229.981	.004
3	Tpaths_d	2300.411	.000
	AvgGL_d	235.054	.004
4	AvgGL_d	75811.299	1.348E-6

a. Dependent Variable: R_pro

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

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

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

e. Predictors in the Model: (Constant), AvgPL_d, TSpaths_d, GD_d, Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgPL_d	TSpaths_d
1	1	1.967	1.000	.02	.02	
	2	.033	7.695	.98	.98	
2	1	2.961	1.000	.00	.00	.00
	2	.034	9.390	.47	.23	.00
	3	.006	23.047	.53	.77	1.00
3	1	3.898	1.000	.00	.00	.00
	2	.068	7.589	.10	.00	.01
	3	.029	11.538	.37	.25	.01
	4	.005	26.859	.53	.75	.98
4	1	4.890	1.000	.00	.00	.00
	2	.072	8.244	.06	.00	.00
	3	.030	12.688	.45	.18	.00
	4	.008	25.122	.49	.79	.00
	5	6.766E-6	850.140	.00	.02	1.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
-------	-----------	----------------------

		GD_d	Tpaths_d
1	1		
	2		
2	1		
	2		
	3		
3	1	.00	
	2	.74	
	3	.22	
	4	.03	
4	1	.00	.00
	2	.75	.00
	3	.16	.00
	4	.06	.00
	5	.02	1.00

a. Dependent Variable: R_pro

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00546966912 2249	.02878838963 8066	.01098901098 9011	.00432029022 5740

Std. Predicted Value	-1.278	4.120	.000	1.000
Standard Error of Predicted Value	.000	.004	.001	.000
Adjusted Predicted Value	.00531970197 3349	.02547817490 9949	.01098143751 9069	.00422256130 5084
Residual	- .01144445780 6647	.01944473572 0754	.00000000000 0000	.00384799723 5704
Std. Residual	-2.907	4.940	.000	.978
Stud. Residual	-3.061	5.141	-.001	1.015
Deleted Residual	- .01268671639 2636	.02105878479 7788	.00000757346 9942	.00416696144 3863
Stud. Deleted Residual	-3.224	6.140	.011	1.094
Mahal. Distance	.433	74.045	3.956	8.567
Cook's Distance	.000	.439	.018	.059
Centered Leverage Value	.005	.823	.044	.095

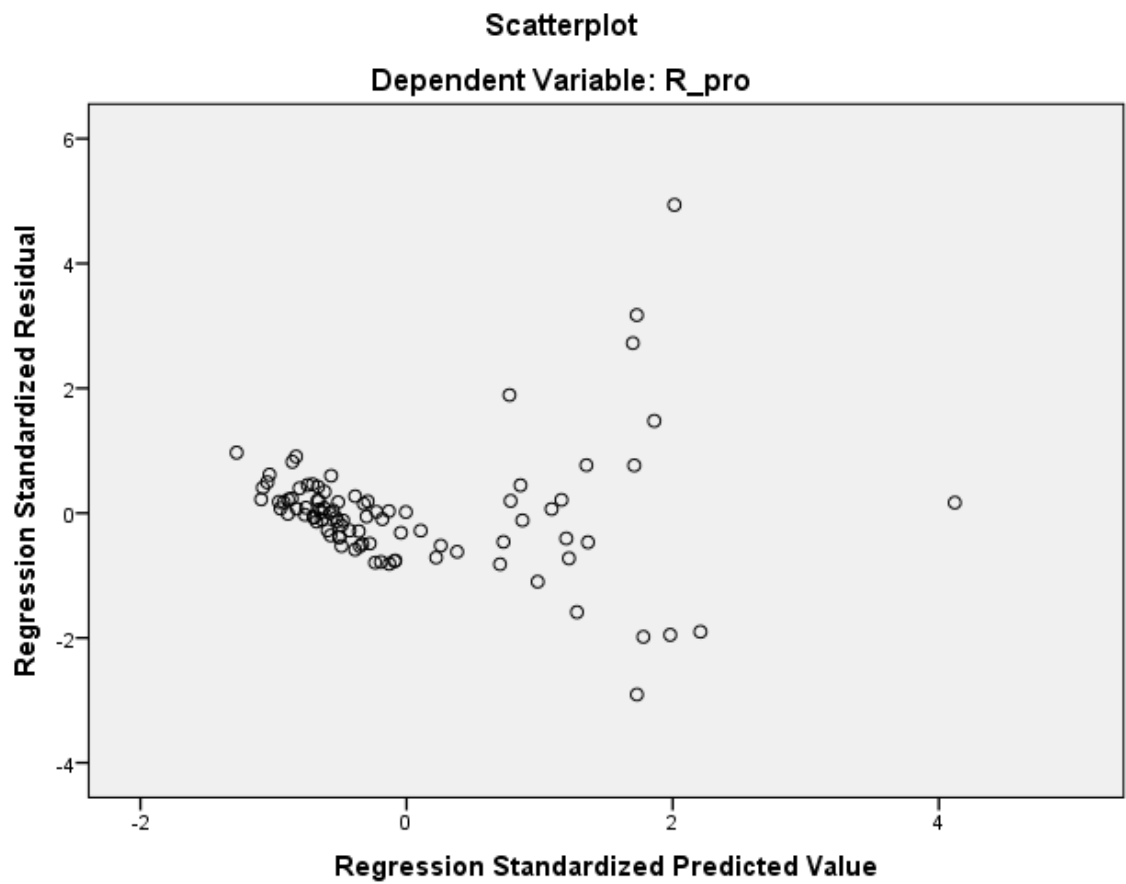
Residuals Statistics^a

	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		06-JUN-2015 10:10:09
Comments		
Input	Active Dataset	DataSet7
	Filter	<none>
	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 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	00:00:00.04
	Memory Required	6272 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_10	Cook's Distance

Warnings

There are no valid cases for models with dependent variable SMSP_d. Statistics cannot be computed.

No valid cases found. Equation-building skipped.

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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 10:03:44	
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 GD_d /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.20
	Elapsed Time		00:00:00.21
	Memory Required	5152 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).
2	S_pro		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	.255 ^a	.065	.054	.00394354231 9391
2	.487 ^b	.237	.220	.00358193646 9498

a. Predictors: (Constant), R_pro

b. Predictors: (Constant), R_pro, S_pro

c. Dependent Variable: GD_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	6.176	.015 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	13.681	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			

a. Dependent Variable: GD_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)	.009	.001		10.129	.000
	R_pro	.179	.072	.255	2.485	.015
2	(Constant)	-.003	.003		-.944	.348
	R_pro	1.604	.326	2.288	4.915	.000
	S_pro	-.370	.083	-2.075	-4.458	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_pro	1.000	1.000
2	(Constant)		
	R_pro	.040	24.993
	S_pro	.040	24.993

a. Dependent Variable: GD_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.177 ^b	1.663	.100	.175	.909	1.100
	PL_TSpoutN	.185 ^b	1.788	.077	.187	.963	1.038
	S_pro	-2.075 ^b	-4.458	.000	-.429	.040	24.993
2	PL_TpoutN	.073 ^c	.719	.474	.077	.852	1.174
	PL_TSpoutN	.073 ^c	.736	.464	.079	.889	1.125

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.909	
	PL_TSpoutN	.963	
	S_pro	.040	
2	PL_TpoutN	.036	
	PL_TSpoutN	.036	

a. Dependent Variable: GD_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	1.886	1.000	.06	.06	
	2	.114	4.066	.94	.94	
2	1	2.428	1.000	.00	.00	.00
	2	.567	2.070	.01	.00	.03
	3	.005	21.900	.98	1.00	.96

a. Dependent Variable: GD_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00834193732 5895	.01661876030 2663	.01098901098 9011	.00197501379 1131
Std. Predicted Value	-1.340	2.850	.000	1.000
Standard Error of Predicted Value	.000	.002	.001	.000
Adjusted Predicted Value	.00832837913 1854	.01871128194 0341	.01101292670 5612	.00206004231 8817

Residual	-	.01358323078	.00000000000	.00354191357
	.00821302365	6026	0000	6795
	5117			
Std. Residual	-2.293	3.792	.000	.989
Stud. Residual	-2.346	3.898	-.003	1.012
Deleted Residual	-	.01434875186	-	.00371838708
	.00859719887	5327	.00002391571	9790
	3758		6601	
Stud. Deleted Residual	-2.409	4.260	.001	1.037
Mahal. Distance	.026	23.790	1.978	3.285
Cook's Distance	.000	.413	.017	.054
Centered Leverage Value	.000	.264	.022	.037

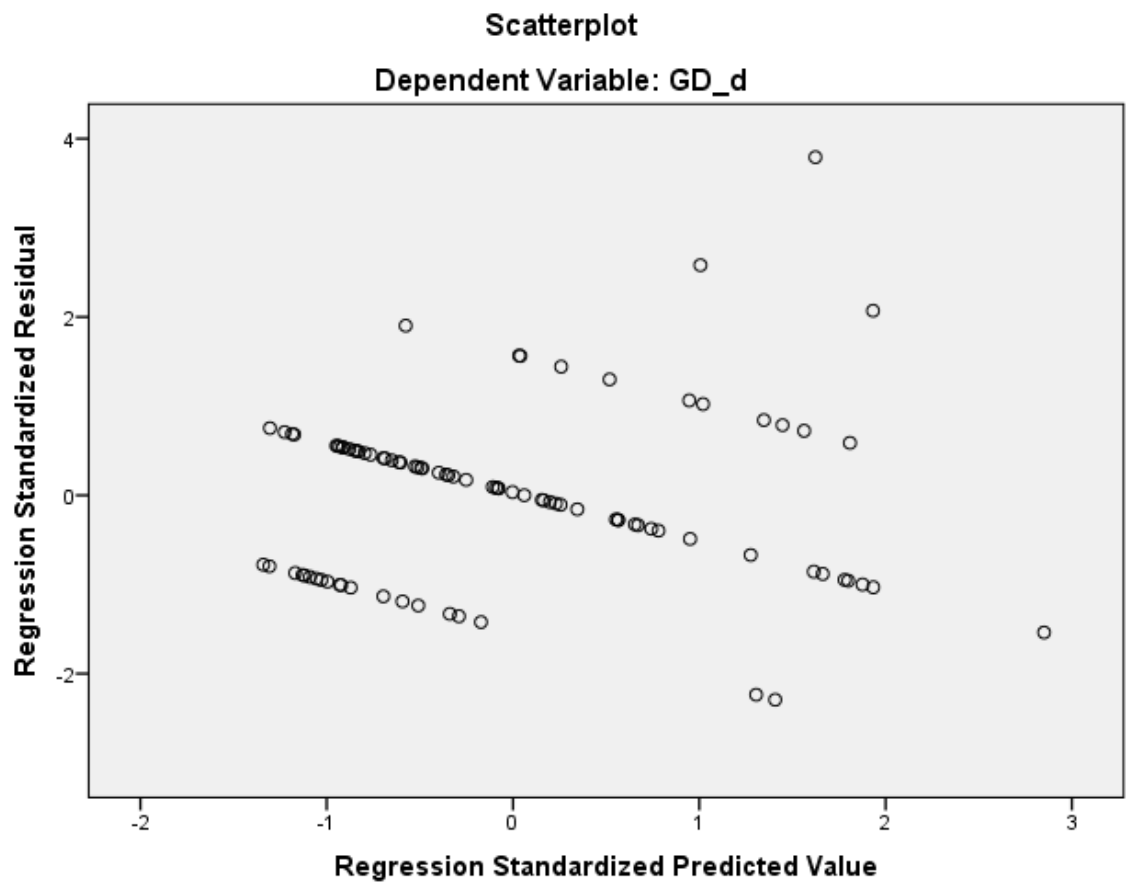
Residuals Statistics^a

	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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 10:04:51
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.
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_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.19
	Memory Required	5184 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).
2	S_pro		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	.351 ^a	.123	.113	.00185725560 6009
2	.470 ^b	.221	.203	.00176087654 1735

a. Predictors: (Constant), R_pro

b. Predictors: (Constant), R_pro, S_pro

c. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	12.522	.001 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	12.470	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: Tpaths_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)	.010	.000		23.046	.000
	R_pro	.120	.034	.351	3.539	.001
2	(Constant)	.005	.001		4.053	.000
	R_pro	.641	.160	1.881	3.998	.000
	S_pro	-.135	.041	-1.561	-3.318	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_pro	1.000	1.000
2	(Constant)		
	R_pro	.040	24.993
	S_pro	.040	24.993

a. Dependent Variable: Tpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.026 ^b	.251	.802	.027	.909	1.100
	PL_TSpoutN	.066 ^b	.654	.515	.070	.963	1.038
	S_pro	-1.561 ^b	-3.318	.001	-.333	.040	24.993
2	PL_TpoutN	-.059 ^c	-.580	.564	-.062	.852	1.174
	PL_TSpoutN	-.024 ^c	-.236	.814	-.025	.889	1.125

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.909	
	PL_TSpoutN	.963	
	S_pro	.040	
2	PL_TpoutN	.036	
	PL_TSpoutN	.036	

a. Dependent Variable: Tpaths_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	1.886	1.000	.06	.06	
	2	.114	4.066	.94	.94	
2	1	2.428	1.000	.00	.00	.00
	2	.567	2.070	.01	.00	.03
	3	.005	21.900	.98	1.00	.96

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00979293696 5823	.01458011940 1217	.01098901098 9011	.00092693577 8278
Std. Predicted Value	-1.290	3.874	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00977845303 7143	.01558115892 1123	.01099311200 8341	.00097850929 3932

Residual	- .00263479910 7909	.00705398293 2121	.00000000000 0000	.00174120132 5970
Std. Residual	-1.496	4.006	.000	.989
Stud. Residual	-1.758	4.086	-.001	1.015
Deleted Residual	- .00363583862 7815	.00734020210 8026	- .00000410101 9330	.00183699759 6260
Stud. Deleted Residual	-1.779	4.514	.014	1.068
Mahal. Distance	.026	23.790	1.978	3.285
Cook's Distance	.000	.391	.019	.060
Centered Leverage Value	.000	.264	.022	.037

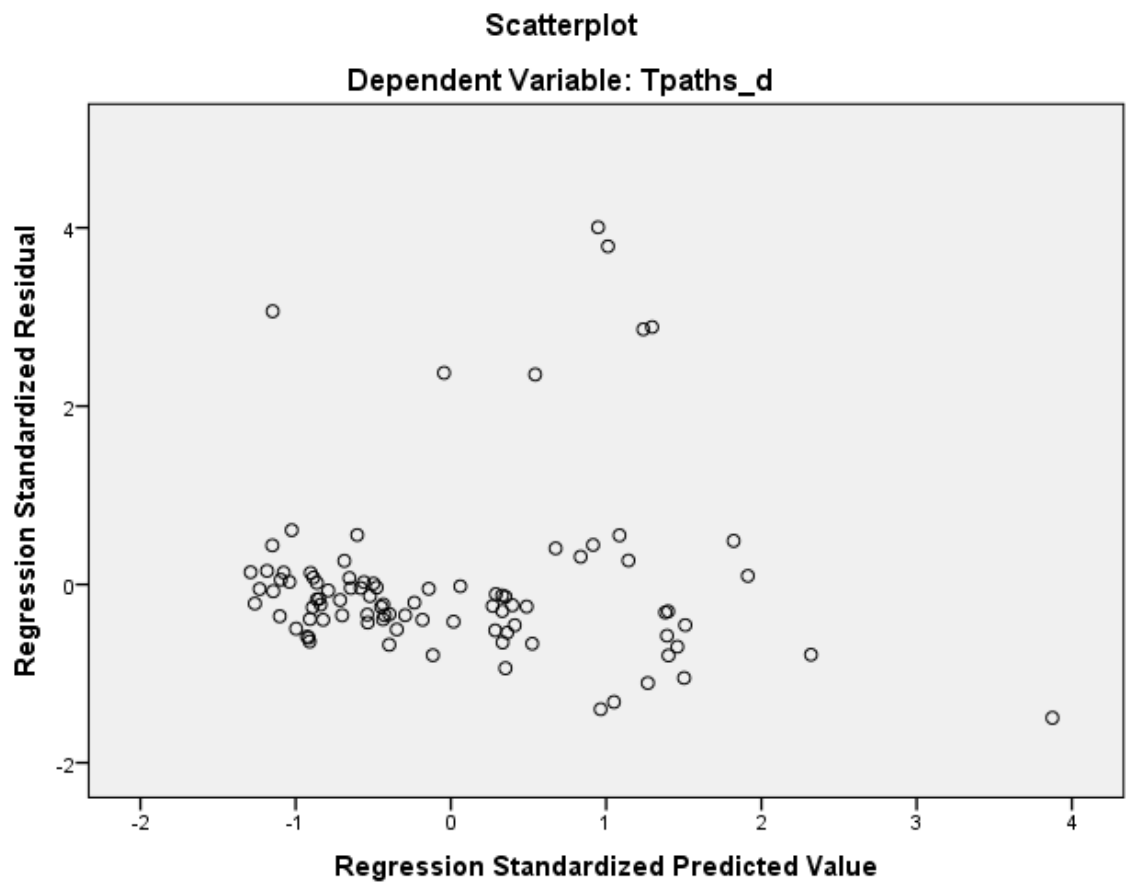
Residuals Statistics^a

	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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 10:05:12	
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.
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 TSpaths_d /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.26
	Memory Required	5232 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_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: TSpats_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.345 ^a	.119	.109	.00186172322 2176
2	.467 ^b	.218	.200	.00176401445 5533

a. Predictors: (Constant), R_pro

b. Predictors: (Constant), R_pro, S_pro

c. Dependent Variable: TSpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	12.048	.001 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	12.276	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: TSpaths_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)	.010	.000		23.043	.000
	R_pro	.118	.034	.345	3.471	.001
2	(Constant)	.005	.001		4.039	.000
	R_pro	.643	.161	1.886	4.002	.000
	S_pro	-.136	.041	-1.572	-3.337	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_pro	1.000	1.000
2	(Constant)		
	R_pro	.040	24.993
	S_pro	.040	24.993

a. Dependent Variable: TSpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.024 ^b	.224	.823	.024	.909	1.100
	PL_TSpoutN	.065 ^b	.639	.524	.068	.963	1.038
	S_pro	-1.572 ^b	-3.337	.001	-.335	.040	24.993
2	PL_TpoutN	-.063 ^c	-.614	.541	-.066	.852	1.174
	PL_TSpoutN	-.026 ^c	-.257	.798	-.028	.889	1.125

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.909	
	PL_TSpoutN	.963	
	S_pro	.040	
2	PL_TpoutN	.036	
	PL_TSpoutN	.036	

a. Dependent Variable: TSpaths_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	1.886	1.000	.06	.06	
	2	.114	4.066	.94	.94	
2	1	2.428	1.000	.00	.00	.00
	2	.567	2.070	.01	.00	.03
	3	.005	21.900	.98	1.00	.96

a. Dependent Variable: TSpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00979619473 2189	.01452533528 2087	.01098901098 9011	.00092135243 0425
Std. Predicted Value	-1.295	3.838	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00978153757 7510	.01550105120 9867	.01099305775 1824	.00097192253 2230

Residual	- .00256814621 3889	.00707298284 3965	.00000000000 0000	.00174430417 8179
Std. Residual	-1.456	4.010	.000	.989
Stud. Residual	-1.710	4.090	-.001	1.015
Deleted Residual	- .00354386214 1669	.00735997268 9301	- .00000404676 2813	.00183908975 3523
Stud. Deleted Residual	-1.729	4.519	.014	1.068
Mahal. Distance	.026	23.790	1.978	3.285
Cook's Distance	.000	.370	.019	.059
Centered Leverage Value	.000	.264	.022	.037

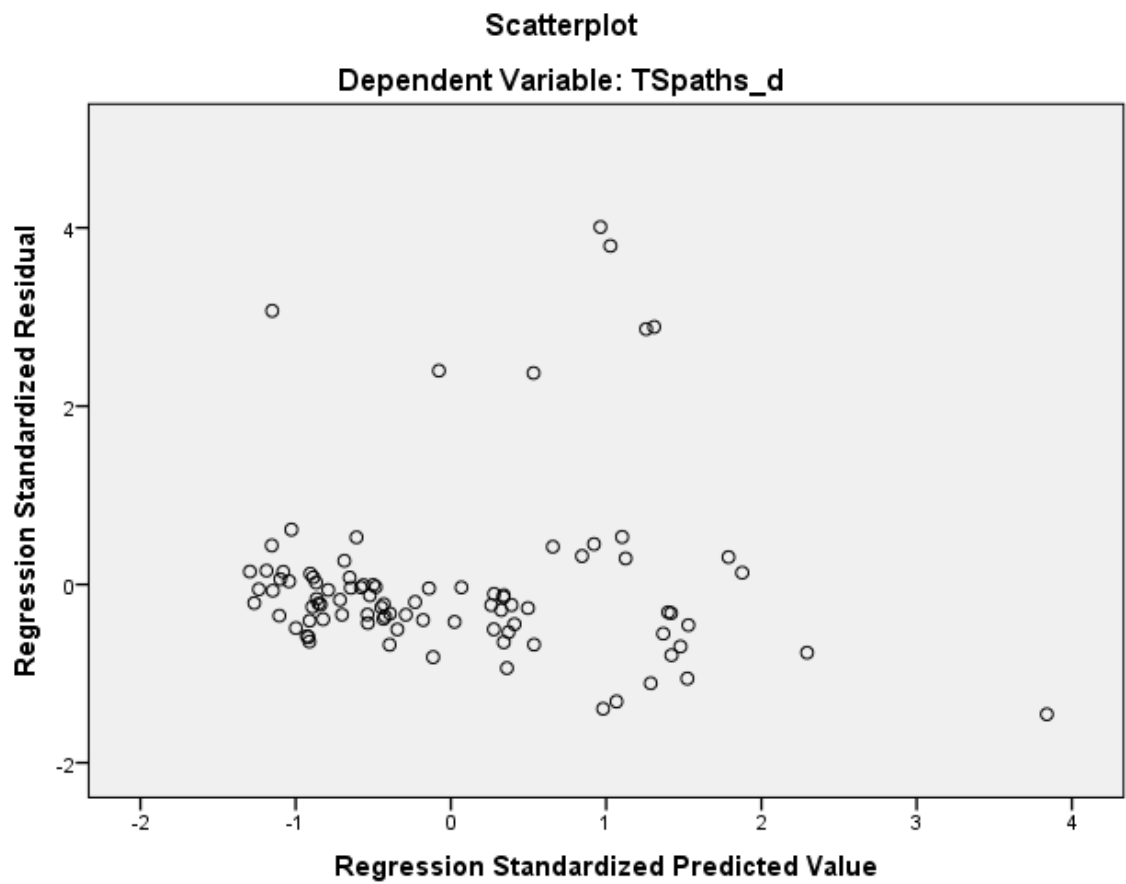
Residuals Statistics^a

	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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 10:05:30
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.
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_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.23
	Memory Required	5264 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).
2	S_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgPL_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.620 ^a	.384	.377	.00230564904 3615
2	.677 ^b	.459	.447	.00217307205 6729

a. Predictors: (Constant), R_pro

b. Predictors: (Constant), R_pro, S_pro

c. Dependent Variable: AvgPL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	55.468	.000 ^b
	Residual	.000	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	37.317	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			

a. Dependent Variable: AvgPL_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)	.008	.001		14.491	.000
	R_pro	.313	.042	.620	7.448	.000
2	(Constant)	.002	.002		1.234	.221
	R_pro	.990	.198	1.961	5.002	.000
	S_pro	-.176	.050	-1.369	-3.492	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_pro	1.000	1.000
2	(Constant)		
	R_pro	.040	24.993
	S_pro	.040	24.993

a. Dependent Variable: AvgPL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.051 ^b	.584	.561	.062	.909	1.100
	PL_TSpoutN	.074 ^b	.868	.388	.092	.963	1.038
	S_pro	-1.369 ^b	-3.492	.001	-.349	.040	24.993
2	PL_TpoutN	-.022 ^c	-.258	.797	-.028	.852	1.174
	PL_TSpoutN	-.004 ^c	-.047	.963	-.005	.889	1.125

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.909	
	PL_TSpoutN	.963	
	S_pro	.040	
2	PL_TpoutN	.036	
	PL_TSpoutN	.036	

a. Dependent Variable: AvgPL_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	1.886	1.000	.06	.06	
	2	.114	4.066	.94	.94	
2	1	2.428	1.000	.00	.00	.00
	2	.567	2.070	.01	.00	.03
	3	.005	21.900	.98	1.00	.96

a. Dependent Variable: AvgPL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00877754762 7687	.02008105814 4569	.01098901098 9011	.00197888109 0543
Std. Predicted Value	-1.118	4.595	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00875718798 4884	.02190906740 7250	.01100203657 1635	.00208126682 7901

Residual	-	.00833048392	.00000000000	.00214879115
	.00481143733	0872	0000	9929
	4865			
Std. Residual	-2.214	3.834	.000	.989
Stud. Residual	-2.601	3.885	-.003	1.018
Deleted Residual	-	.00855628494	-	.00228603748
	.00663944659	1733	.00001302558	9236
	7546		2624	
Stud. Deleted Residual	-2.692	4.244	.006	1.051
Mahal. Distance	.026	23.790	1.978	3.285
Cook's Distance	.000	.857	.023	.094
Centered Leverage Value	.000	.264	.022	.037

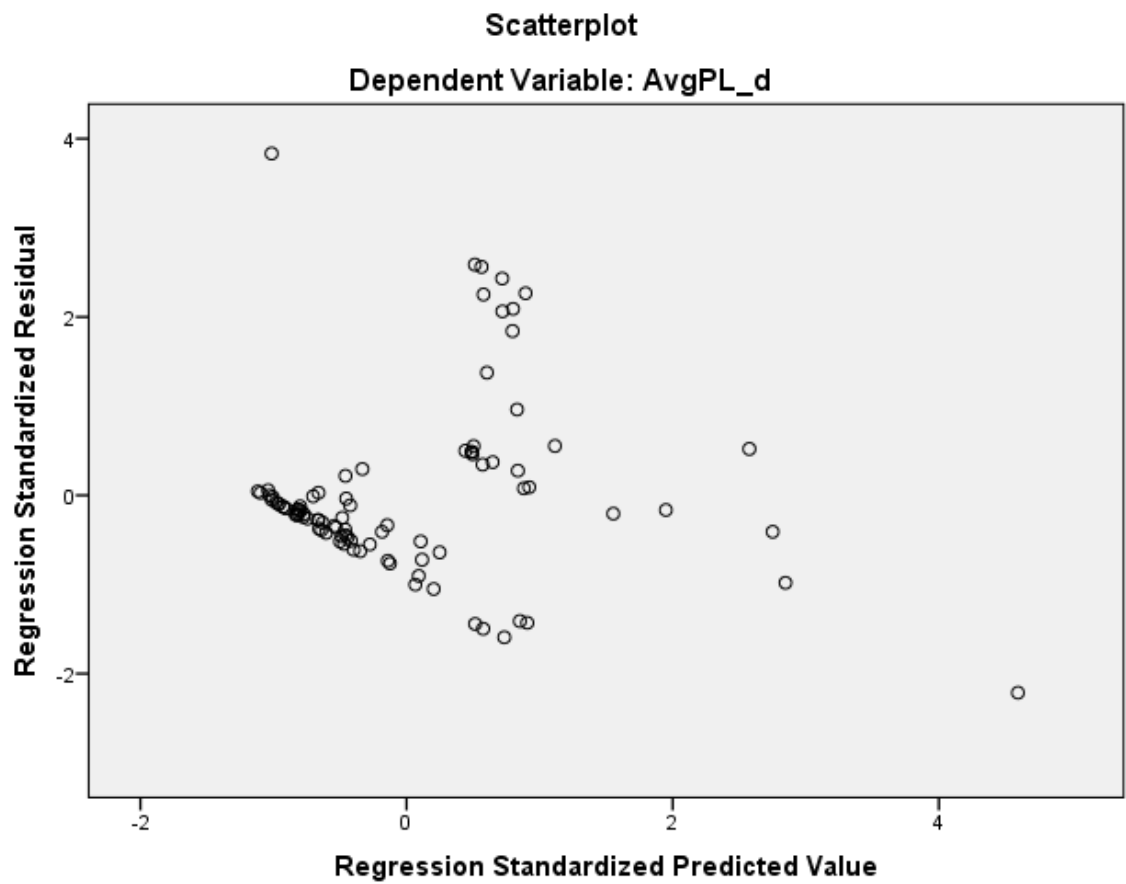
Residuals Statistics^a

	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

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 10:05:54
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.
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 AvgGL_d /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.20
	Memory Required	5312 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_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	.606 ^a	.368	.361	.00233097890 4900
2	.669 ^b	.447	.435	.00219213317 6431

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	51.764	.000 ^b
	Residual	.000	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	35.580	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			

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)	.008	.001		14.486	.000
	R_pro	.306	.042	.606	7.195	.000
2	(Constant)	.002	.002		1.182	.240
	R_pro	1.001	.200	1.986	5.013	.000
	S_pro	-.180	.051	-1.408	-3.554	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_pro	1.000	1.000
2	(Constant)		
	R_pro	.040	24.993
	S_pro	.040	24.993

a. Dependent Variable: AvgGL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.043 ^b	.486	.628	.052	.909	1.100
	PL_TSpoutN	.070 ^b	.819	.415	.087	.963	1.038
	S_pro	-1.408 ^b	-3.554	.001	-.354	.040	24.993
2	PL_TpoutN	-.033 ^c	-.380	.705	-.041	.852	1.174
	PL_TSpoutN	-.010 ^c	-.117	.907	-.012	.889	1.125

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.909	
	PL_TSpoutN	.963	
	S_pro	.040	
2	PL_TpoutN	.036	
	PL_TSpoutN	.036	

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	1.886	1.000	.06	.06	
	2	.114	4.066	.94	.94	
2	1	2.428	1.000	.00	.00	.00
	2	.567	2.070	.01	.00	.03
	3	.005	21.900	.98	1.00	.96

a. Dependent Variable: AvgGL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00878388434 6485	.01988316141 0689	.01098901098 9011	.00194923623 3993
Std. Predicted Value	-1.131	4.563	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00876276940 1073	.02160100080 0729	.01100186897 1952	.00204804453 7382

Residual	-	.00843528471	.00000000000	.00216763929
	.00452146213	8871	0000	9541
	5017			
Std. Residual	-2.063	3.848	.000	.989
Stud. Residual	-2.423	3.900	-.003	1.017
Deleted Residual	-	.00866392720	-	.00229868756
	.00623930152	4907	.00001285798	8689
	5056		2941	
Stud. Deleted Residual	-2.494	4.263	.006	1.049
Mahal. Distance	.026	23.790	1.978	3.285
Cook's Distance	.000	.743	.022	.083
Centered Leverage Value	.000	.264	.022	.037

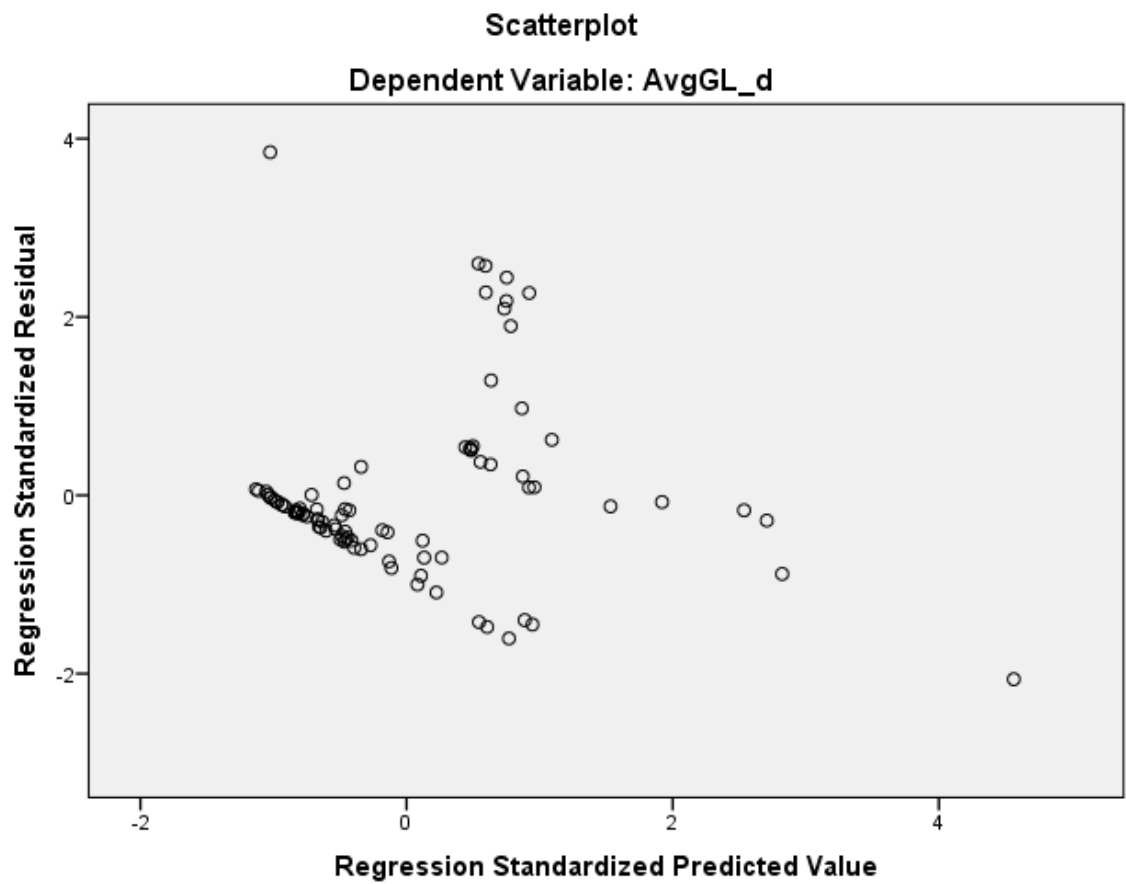
Residuals Statistics^a

	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 Ecout

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 10:13:11	
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 ECount /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.23
	Elapsed Time		00:00:00.25
	Memory Required	5712 bytes	

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_15	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: ECont

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.368 ^a	.136	.126	.00262585387 3759

a. Predictors: (Constant), R_pro

b. Dependent Variable: Ecout

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	13.982	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: Ecout

b. Predictors: (Constant), R_pro

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.013	.001		21.830	.000
	R_pro	-.179	.048	-.368	-3.739	.000

Coefficients^a

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

a. Dependent Variable: ECont

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	-.104 ^b	-1.005	.318	-.106	.909	1.100
	PL_TSpoutN	-.010 ^b	-.101	.919	-.011	.963	1.038
	S_pro	.704 ^b	1.438	.154	.151	.040	24.993

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.909	
	PL_TSpoutN	.963	
	S_pro	.040	

a. Dependent Variable: ECont

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_pro
1	1	1.886	1.000	.06	.06
	2	.114	4.066	.94	.94

a. Dependent Variable: ECont

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00595455477 0142	.01173727679 9977	.01098901098 9011	.00103498642 9205
Std. Predicted Value	-4.864	.723	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00548739358 7828	.01177846174 6871	.01098843952 6701	.00104327800 2921
Residual	- .01041841227 5612	.00330194644 6300	.00000000000 0000	.00261122504 7546
Std. Residual	-3.968	1.257	.000	.994

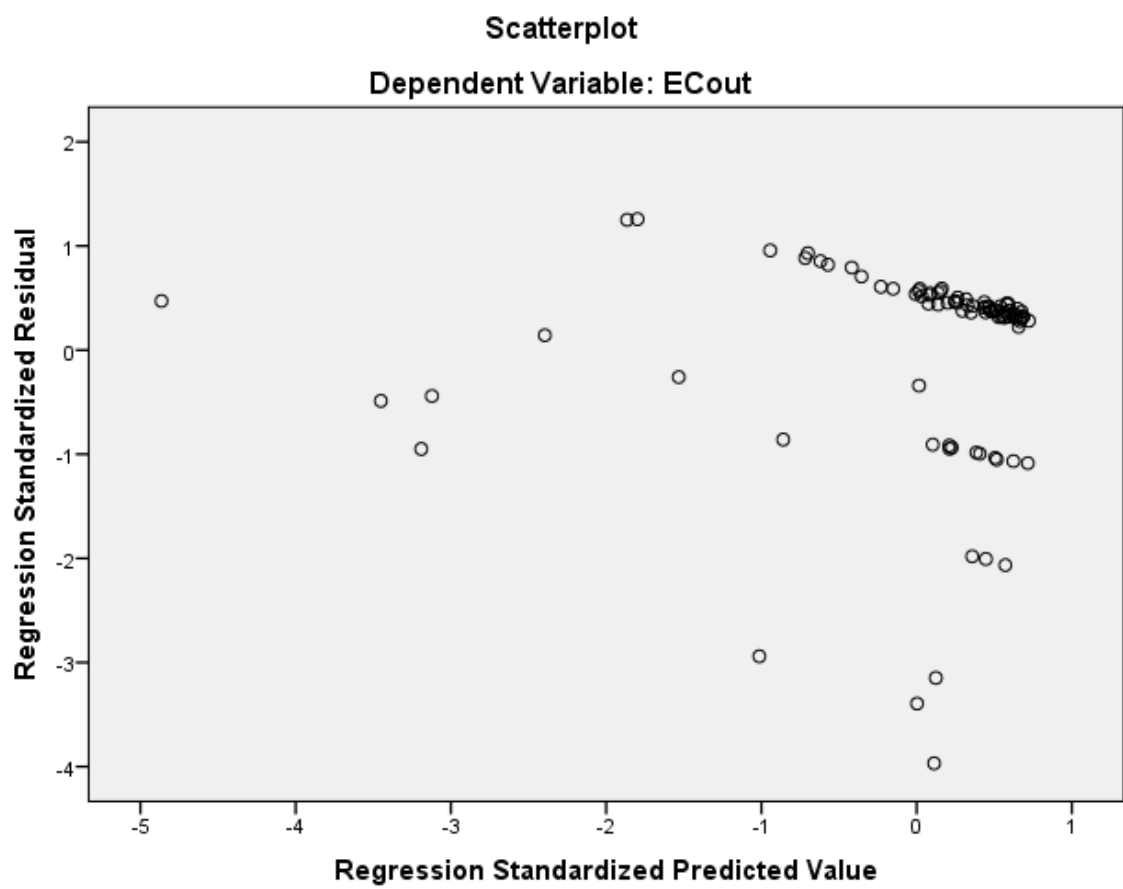
Stud. Residual	-3.990	1.288	.000	1.003
Deleted Residual	-	.00346453161	.00000057146	.00265866077
	.01053566206	9102	2310	7519
	2466			
Stud. Deleted Residual	-4.378	1.293	-.013	1.042
Mahal. Distance	.000	23.661	.989	3.128
Cook's Distance	.000	.101	.009	.020
Centered Leverage Value	.000	.263	.011	.035

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: ECont

Charts



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

```

Regression

Notes

Output Created	06-JUN-2015 10:13:32	
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 PL_EVCoutN /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.19
	Memory Required	5744 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_16	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	PL_TpoutN		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
1	.232 ^a	.054	.043	.02404306760 9215

a. Predictors: (Constant), PL_TpoutN

b. Dependent Variable: PL_EVCoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.003	1	.003	5.082	.027 ^b
	Residual	.051	89	.001		
	Total	.054	90			

a. Dependent Variable: PL_EVCoutN

b. Predictors: (Constant), PL_TpoutN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.007	.003		2.111	.038
	PL_TpoutN	.392	.174	.232	2.254	.027

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	PL_TpoutN	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_TSpoutN	-.085 ^b	-.597	.552	-.063	.525	1.904
	S_pro	.123 ^b	1.162	.249	.123	.939	1.066
	R_pro	.167 ^b	1.560	.122	.164	.909	1.100

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TSpoutN	.525	
	S_pro	.939	
	R_pro	.909	

a. Dependent Variable: PL_EVCoutN

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

Collinearity Diagnostics^a

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

		Index	(Constant)	PL_TpoutN
1	1	1.604	1.000	.20
	2	.396	2.014	.80

a. Dependent Variable: PL_EVCoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00667911162 5999	.02307027019 5603	.01098901098 9011	.00571308994 0375
Std. Predicted Value	-.754	2.115	.000	1.000
Standard Error of Predicted Value	.003	.006	.003	.001
Adjusted Predicted Value	.00488048885 0176	.02456049434 8407	.01104124912 1656	.00582799304 6151
Residual	- .02307027019 5603	.10209356248 3788	.00000000000 0000	.02390912190 0660
Std. Residual	-.960	4.246	.000	.994
Stud. Residual	-.990	4.284	-.001	1.006
Deleted Residual	- .02456049434 8407	.10389218479 3949	- .00005223813 2645	.02447573417 0258
Stud. Deleted Residual	-.990	4.781	.011	1.040
Mahal. Distance	.018	4.472	.989	.946

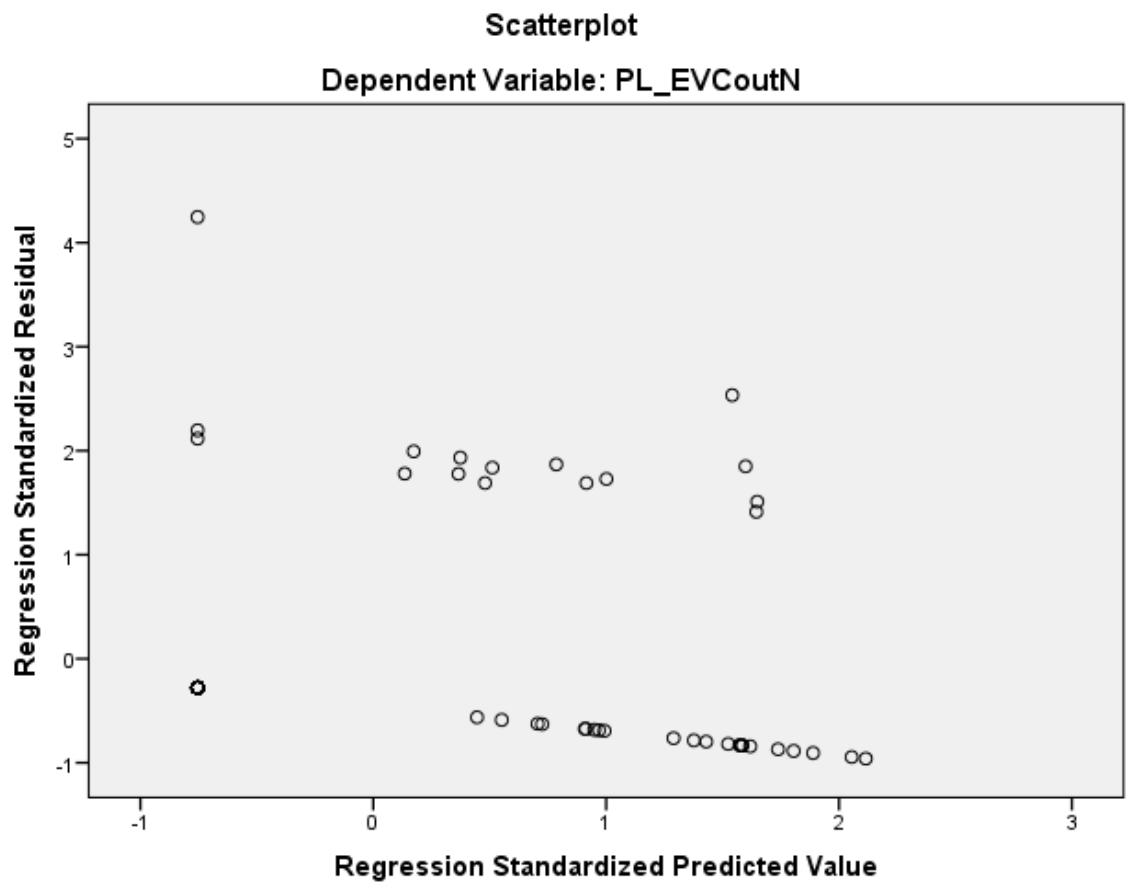
Cook's Distance	.001	.162	.012	.025
Centered Leverage Value	.000	.050	.011	.011

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 PL_TpoutN PL_TSpoutN S_pro R_pro

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		06-JUN-2015 10:13:53
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 EVCut_TpoutN
		/METHOD=STEPWISE
		PL_TpoutN PL_TSpoutN S_pro
		R_pro
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.04
	Memory Required	5792 bytes
	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	Plots	
	COO_17	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 EVCout_TSpoutN

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	06-JUN-2015 10:14:06	
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 EVCut_TSpoutN /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.02
	Elapsed Time		00:00:00.01
	Memory Required	5824 bytes	
	Additional Memory Required for Residual Plots	0 bytes	

Variables Created or Modified	COO_18	Cook's Distance
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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 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		05-JUN-2015 18:56:53
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 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	00:00:00.20
	Elapsed Time	00:00:00.21
	Memory Required	15904 bytes
	Additional Memory	
	Required for Residual	0 bytes
Plots		
Variables Created or	COO_5	Cook's Distance
Modified		

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Edges_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).

a. Dependent Variable: ECud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.393 ^a	.155	.145	.00241678259 5351
2	.458 ^b	.210	.192	.00234968102 2216

a. Predictors: (Constant), Edges_ud

b. Predictors: (Constant), Edges_ud, R_ud

c. Dependent Variable: ECud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	16.293	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	11.696	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			

a. Dependent Variable: ECud

b. Predictors: (Constant), Edges_ud

c. Predictors: (Constant), Edges_ud, R_ud

Coefficients^a

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

		B	Std. Error	Beta		
1	(Constant)	.014	.001		17.335	.000
	Edges_ud	-.284	.070	-.393	-4.036	.000
2	(Constant)	.005	.004		1.250	.214
	Edges_ud	-.323	.070	-.447	-4.599	.000
	R_ud	.886	.357	.241	2.481	.015

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Edges_ud	1.000	1.000
2	(Constant)		
	Edges_ud	.951	1.052
	R_ud	.951	1.052

a. Dependent Variable: ECud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.191 ^b	-.513	.609	-.055	.069	14.470

	Den_ud	-.042 ^b	-.238	.812	-.025	.303	3.295
	CC_ud	-.048 ^b	-.493	.623	-.052	1.000	1.000
	GD_ud	.058 ^b	.533	.595	.057	.819	1.220
	Tpaths_ud	.092 ^b	.782	.437	.083	.681	1.468
	TSpaths_ud	-.039 ^b	-.113	.910	-.012	.081	12.359
	AvgPL_ud	.067 ^b	.624	.535	.066	.820	1.219
	AvgGL_ud	.070 ^b	.632	.529	.067	.783	1.277
	PL_TpudN	-.088 ^b	-.899	.371	-.095	.998	1.002
	PL_TSpudN	.096 ^b	.925	.358	.098	.881	1.135
	S_ud	-.031 ^b	-.246	.806	-.026	.600	1.667
	R_ud	.241 ^b	2.481	.015	.256	.951	1.052
	SMSP_ud	-.059 ^b	-.600	.550	-.064	.997	1.003
2	Nodes	-.049 ^c	-.134	.894	-.014	.067	14.851
	Den_ud	-.018 ^c	-.107	.915	-.011	.303	3.305
	CC_ud	-.098 ^c	-1.014	.313	-.108	.962	1.040
	GD_ud	-.082 ^c	-.692	.491	-.074	.639	1.564
	Tpaths_ud	-.039 ^c	-.301	.764	-.032	.553	1.810
	TSpaths_ud	-.410 ^c	-1.141	.257	-.121	.069	14.419
	AvgPL_ud	-.071 ^c	-.599	.551	-.064	.637	1.570
	AvgGL_ud	-.148 ^c	-1.094	.277	-.116	.490	2.039
	PL_TpudN	-.070 ^c	-.729	.468	-.078	.992	1.009
	PL_TSpudN	.026 ^c	.247	.805	.026	.808	1.238

S_ud	-.246 ^c	-1.758	.082	-.185	.448	2.231
SMSP_ud	-.102 ^c	-1.056	.294	-.112	.968	1.033

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.069
	Den_ud	.303
	CC_ud	1.000
	GD_ud	.819
	Tpaths_ud	.681
	TSpaths_ud	.081
	AvgPL_ud	.820
	AvgGL_ud	.783
	PL_TpudN	.998
	PL_TSpudN	.881
	S_ud	.600
	R_ud	.951
	SMSP_ud	.997
2	Nodes	.066
	Den_ud	.302
	CC_ud	.914

GD_ud	.639
Tpaths_ud	.553
TSpaths_ud	.069
AvgPL_ud	.637
AvgGL_ud	.490
PL_TpudN	.945
PL_TSpudN	.808
S_ud	.448
SMSP_ud	.923

a. Dependent Variable: ECud

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

c. Predictors in the Model: (Constant), Edges_ud, R_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Edges_ud	R_ud
1	1	1.950	1.000	.02	.02	
	2	.050	6.267	.98	.98	
2	1	2.934	1.000	.00	.01	.00
	2	.064	6.785	.01	.97	.01

3	.002	38.013	.99	.02	.99
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a. Dependent Variable: ECud

Residuals Statistics^a

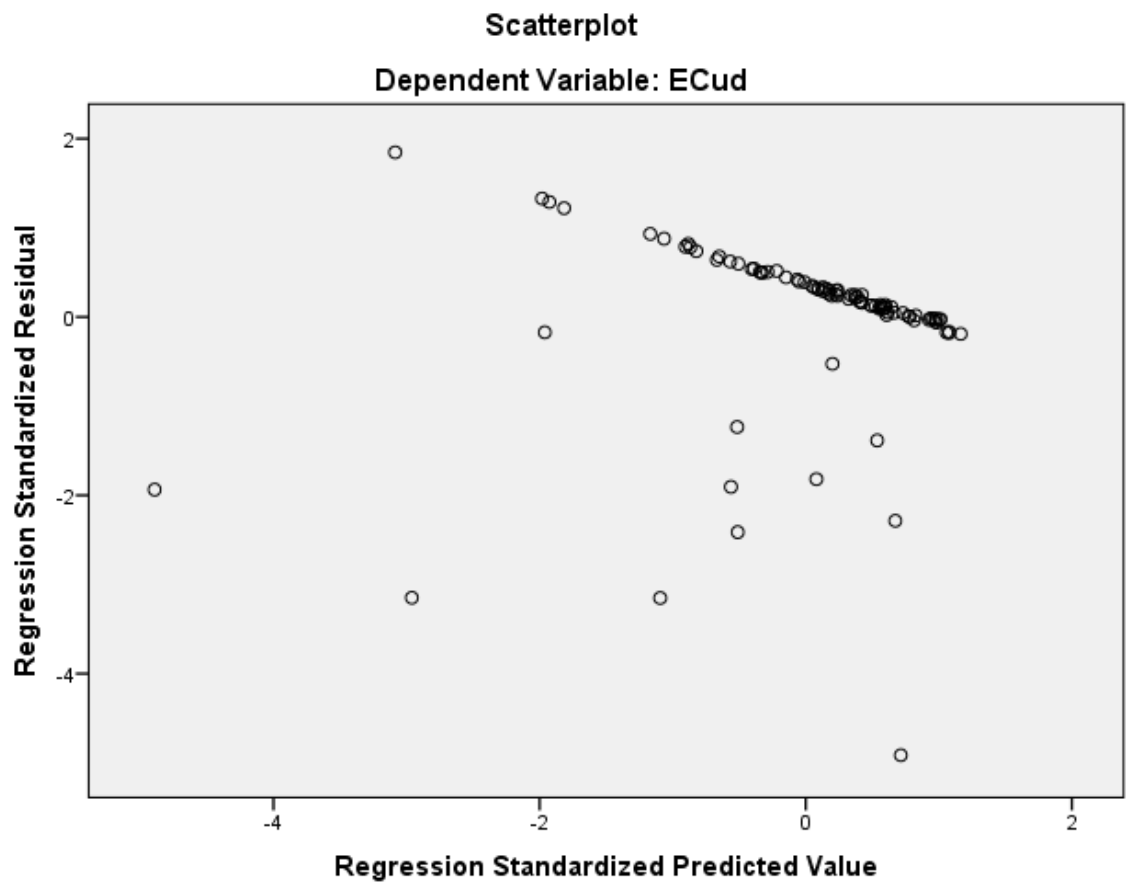
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00512774381 7866	.01238380558 7888	.01098901098 9011	.00119791529 5094
Std. Predicted Value	-4.893	1.164	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00669019995 2573	.01239803992 2118	.01102083853 5883	.00111797485 5047
Residual	- .01155011449 0092	.00434065144 5091	.00000000000 0000	.00232342677 8949
Std. Residual	-4.916	1.847	.000	.989
Stud. Residual	-5.002	1.971	-.006	1.028
Deleted Residual	- .01196082308 8884	.00494361948 2219	- .00003182754 6872	.00251732094 4451
Stud. Deleted Residual	-5.879	2.005	-.024	1.100
Mahal. Distance	.013	24.916	1.978	3.198
Cook's Distance	.000	.709	.030	.113
Centered Leverage Value	.000	.277	.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: ECud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

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

/NOORIGIN

/DEPENDENT PL_EVCudN

/METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpahs_ud AvgPL_ud
AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 18:57:22
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_EVCudN /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	00:00:00.22
	Elapsed Time	00:00:00.22
	Memory Required	15952 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	AvgGL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4	Edges_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

5	S_ud	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: PL_EVCudN

Model Summary^f

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.454 ^a	.206	.197	.00134606705 8742
2	.599 ^b	.359	.345	.00121613284 7867
3	.692 ^c	.479	.461	.00110333809 6206
4	.716 ^d	.513	.490	.00107257492 1268
5	.814 ^e	.662	.642	.00089866433 7094

a. Predictors: (Constant), GD_ud

b. Predictors: (Constant), GD_ud, AvgGL_ud

c. Predictors: (Constant), GD_ud, AvgGL_ud, R_ud

d. Predictors: (Constant), GD_ud, AvgGL_ud, R_ud, Edges_ud

e. Predictors: (Constant), GD_ud, AvgGL_ud, R_ud, Edges_ud, S_ud

f. Dependent Variable: PL_EVCudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	23.088	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	24.659	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	26.610	.000 ^d
	Residual	.000	87	.000		
	Total	.000	90			
4	Regression	.000	4	.000	22.634	.000 ^e
	Residual	.000	86	.000		
	Total	.000	90			
5	Regression	.000	5	.000	33.295	.000 ^f
	Residual	.000	85	.000		

Total	.000	90			
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a. Dependent Variable: PL_EVCudN

b. Predictors: (Constant), GD_ud

c. Predictors: (Constant), GD_ud, AvgGL_ud

d. Predictors: (Constant), GD_ud, AvgGL_ud, R_ud

e. Predictors: (Constant), GD_ud, AvgGL_ud, R_ud, Edges_ud

f. Predictors: (Constant), GD_ud, AvgGL_ud, R_ud, Edges_ud, S_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.013	.000		27.367	.000
	GD_ud	-.202	.042	-.454	-4.805	.000
2	(Constant)	.011	.001		18.555	.000
	GD_ud	-.363	.052	-.816	-7.018	.000
	AvgGL_ud	.338	.074	.533	4.586	.000
3	(Constant)	.020	.002		9.995	.000
	GD_ud	-.333	.047	-.750	-7.038	.000
	AvgGL_ud	.489	.075	.772	6.527	.000
	R_ud	-.950	.213	-.450	-4.462	.000

4	(Constant)	.019	.002		9.661	.000
	GD_ud	-.355	.047	-.798	-7.570	.000
	AvgGL_ud	.433	.076	.685	5.692	.000
	R_ud	-.883	.209	-.418	-4.229	.000
	Edges_ud	.089	.036	.214	2.462	.016
5	(Constant)	.017	.002		10.511	.000
	GD_ud	-.293	.041	-.660	-7.241	.000
	AvgGL_ud	.247	.071	.390	3.493	.001
	R_ud	-1.204	.183	-.570	-6.592	.000
	Edges_ud	.304	.046	.731	6.556	.000
	S_ud	.366	.060	.640	6.124	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_ud	1.000	1.000
2	(Constant)		
	GD_ud	.538	1.857
	AvgGL_ud	.538	1.857
3	(Constant)		
	GD_ud	.528	1.894
	AvgGL_ud	.428	2.335

	R_ud	.590	1.695
4	(Constant)		
	GD_ud	.510	1.961
	AvgGL_ud	.391	2.557
	R_ud	.580	1.724
	Edges_ud	.748	1.336
5	(Constant)		
	GD_ud	.479	2.089
	AvgGL_ud	.319	3.139
	R_ud	.532	1.879
	Edges_ud	.320	3.128
	S_ud	.364	2.744

a. Dependent Variable: PL_EVCudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	.310 ^b	2.950	.004	.300	.745	1.342	.745
	Edges_ud	.359 ^b	3.672	.000	.365	.819	1.220	.819
	Den_ud	-.053 ^b	-.479	.633	-.051	.720	1.388	.720

	CC_ud	-.022 ^b	-.235	.815	-.025	1.000	1.000	1.000
	Tpaths_ud	.398 ^b	.952	.344	.101	.051	19.532	.051
	TSpaths_ud	.382 ^b	3.850	.000	.380	.785	1.273	.785
	AvgPL_ud	1.695 ^b	1.291	.200	.136	.005	194.489	.005
	AvgGL_ud	.533 ^b	4.586	.000	.439	.538	1.857	.538
	PL_TpudN	-.090 ^b	-.943	.348	-.100	.992	1.008	.992
	PL_TSpud N	.054 ^b	.536	.593	.057	.885	1.130	.885
	S_ud	.103 ^b	1.079	.284	.114	.984	1.016	.984
	R_ud	-.152 ^b	-1.395	.166	-.147	.742	1.348	.742
	SMSP_ud	-.040 ^b	-.421	.674	-.045	1.000	1.000	1.000
2	Nodes	.250 ^c	2.577	.012	.266	.730	1.371	.484
	Edges_ud	.262 ^c	2.783	.007	.286	.761	1.313	.500
	Den_ud	-.034 ^c	-.338	.736	-.036	.719	1.390	.455
	CC_ud	-.037 ^c	-.428	.670	-.046	.999	1.001	.538
	Tpaths_ud	.416 ^c	1.104	.273	.118	.051	19.534	.049
	TSpaths_ud	.223 ^c	2.077	.041	.217	.610	1.639	.418
	AvgPL_ud	1.222 ^c	1.023	.309	.109	.005	196.016	.005
	PL_TpudN	-.051 ^c	-.587	.559	-.063	.982	1.018	.533
	PL_TSpud N	-.030 ^c	-.324	.746	-.035	.850	1.176	.517
	S_ud	.009 ^c	.105	.916	.011	.929	1.077	.504
	R_ud	-.450 ^c	-4.462	.000	-.432	.590	1.695	.428

	SMSP_ud	-.034 ^c	-.402	.689	-.043	1.000	1.000	.538
3	Nodes	.176 ^d	1.926	.057	.203	.700	1.428	.408
	Edges_ud	.214 ^d	2.462	.016	.257	.748	1.336	.391
	Den_ud	.008 ^d	.085	.932	.009	.712	1.405	.425
	CC_ud	.046 ^d	.576	.566	.062	.945	1.058	.426
	Tpaths_ud	.253 ^d	.732	.466	.079	.051	19.769	.048
	TSpaths_ud	.166 ^d	1.679	.097	.178	.599	1.670	.330
	AvgPL_ud	1.428 ^d	1.322	.190	.141	.005	196.362	.005
	PL_TpudN	-.053 ^d	-.672	.503	-.072	.982	1.018	.425
	PL_TSpud N	.020 ^d	.239	.811	.026	.835	1.198	.422
	S_ud	.121 ^d	1.458	.149	.155	.853	1.172	.425
	SMSP_ud	.048 ^d	.599	.551	.064	.946	1.057	.422
4	Nodes	-.619 ^e	-1.746	.084	-.186	.044	22.749	.044
	Den_ud	.541 ^e	3.828	.000	.383	.244	4.094	.244
	CC_ud	.043 ^e	.552	.582	.060	.944	1.059	.389
	Tpaths_ud	-.903 ^e	-1.763	.081	-.188	.021	47.395	.021
	TSpaths_ud	-1.091 ^e	-2.871	.005	-.297	.036	27.647	.036
	AvgPL_ud	1.469 ^e	1.400	.165	.150	.005	196.410	.005
	PL_TpudN	-.056 ^e	-.731	.467	-.079	.982	1.018	.388
	PL_TSpud N	-.024 ^e	-.288	.774	-.031	.796	1.256	.390
	S_ud	.640 ^e	6.124	.000	.553	.364	2.744	.319
	SMSP_ud	.029 ^e	.374	.709	.041	.937	1.067	.383

5	Nodes	.086 ^f	.263	.793	.029	.038	26.499	.038
	Den_ud	-.028 ^f	-.152	.879	-.017	.121	8.268	.121
	CC_ud	-.096 ^f	-1.401	.165	-.151	.846	1.182	.298
	Tpaths_ud	.160 ^f	.337	.737	.037	.018	55.918	.018
	TSpaths_ud	-.034 ^f	-.088	.930	-.010	.026	38.170	.026
	AvgPL_ud	1.411 ^f	1.611	.111	.173	.005	196.433	.005
	PL_TpudN	-.098 ^f	-1.538	.128	-.165	.971	1.029	.314
	PL_TSpud N	.030 ^f	.420	.676	.046	.784	1.276	.315
	SMSP_ud	-.091 ^f	-1.353	.180	-.146	.862	1.161	.295

a. Dependent Variable: PL_EVCudN

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

c. Predictors in the Model: (Constant), GD_ud, AvgGL_ud

d. Predictors in the Model: (Constant), GD_ud, AvgGL_ud, R_ud

e. Predictors in the Model: (Constant), GD_ud, AvgGL_ud, R_ud, Edges_ud

f. Predictors in the Model: (Constant), GD_ud, AvgGL_ud, R_ud, Edges_ud, S_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	GD_ud	AvgGL_ud
1	1	1.956	1.000	.02	.02	

	2	.044	6.690	.98	.98	
2	1	2.940	1.000	.00	.01	.00
	2	.044	8.201	.49	.54	.00
	3	.016	13.643	.50	.46	1.00
3	1	3.928	1.000	.00	.00	.00
	2	.054	8.540	.02	.48	.01
	3	.016	15.536	.02	.50	.83
	4	.001	52.321	.97	.01	.16
4	1	4.867	1.000	.00	.00	.00
	2	.064	8.697	.01	.01	.00
	3	.051	9.739	.01	.54	.01
	4	.016	17.460	.02	.43	.80
	5	.001	59.031	.97	.02	.18
5	1	5.791	1.000	.00	.00	.00
	2	.131	6.643	.00	.02	.00
	3	.051	10.610	.01	.49	.01
	4	.017	18.311	.04	.28	.44
	5	.007	27.832	.05	.18	.43
	6	.001	64.734	.90	.03	.11

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions		
		R_ud	Edges_ud	S_ud

1	1			
	2			
2	1			
	2			
	3			
3	1	.00		
	2	.01		
	3	.00		
	4	.99		
4	1	.00	.00	
	2	.01	.72	
	3	.00	.22	
	4	.00	.03	
	5	.99	.03	
5	1	.00	.00	.00
	2	.00	.10	.07
	3	.00	.14	.00
	4	.01	.02	.05
	5	.03	.74	.87
	6	.96	.00	.01

a. Dependent Variable: PL_EVCudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00873637758 1954	.01701494678 8549	.01098901098 9011	.00122222675 6615
Std. Predicted Value	-1.843	4.930	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00867915991 6937	.01440482214 0932	.01095749902 6126	.00115693521 9550
Residual	- .00299118040 1295	.00288959429 5993	.00000000000 0000	.00087334475 3202
Std. Residual	-3.328	3.215	.000	.972
Stud. Residual	-3.503	4.436	.014	1.091
Deleted Residual	- .00331328297 0339	.00549971964 2103	.00003151196 2885	.00113442231 3351
Stud. Deleted Residual	-3.765	5.030	.021	1.152
Mahal. Distance	.647	41.724	4.945	7.146
Cook's Distance	.000	2.962	.066	.368
Centered Leverage Value	.007	.464	.055	.079

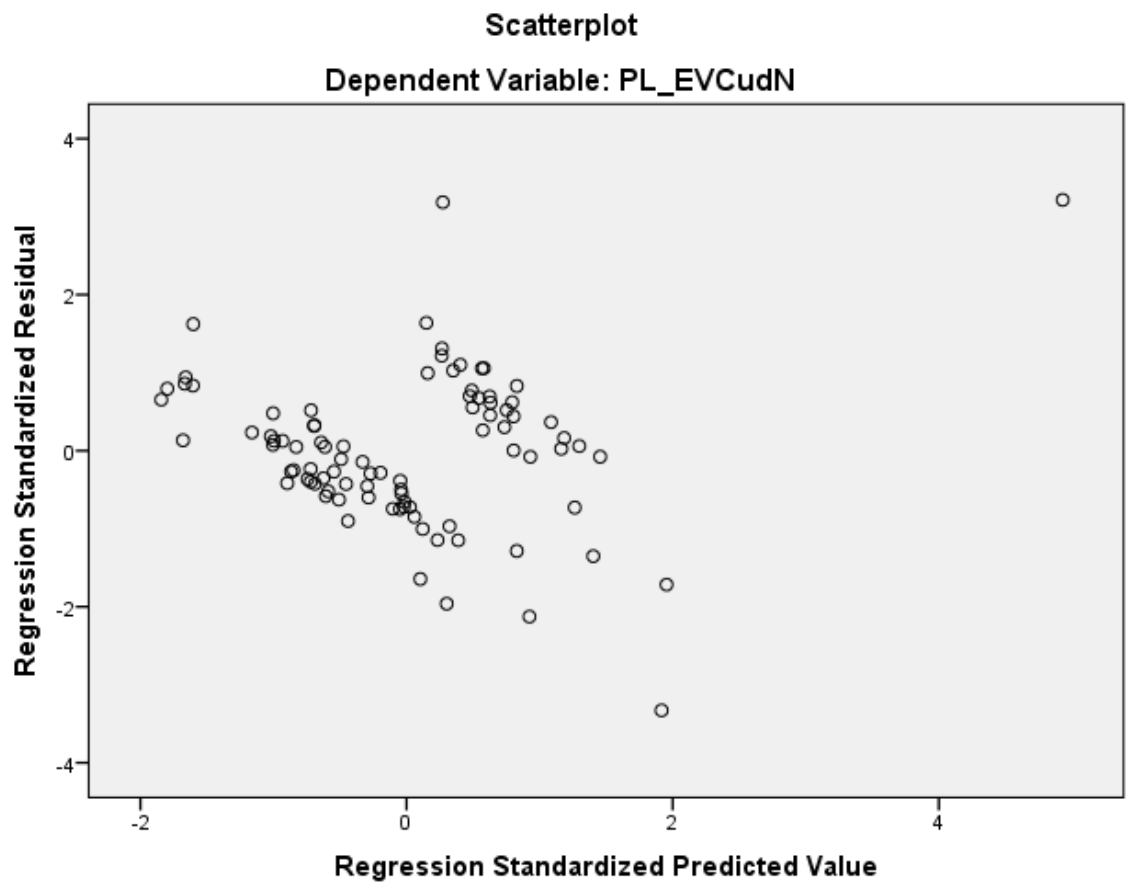
Residuals Statistics^a

	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_EVCudN

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

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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 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.
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	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	PL_TpudN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	GD_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	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

5	SMSP_ud	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
---	---------	---

a. Dependent Variable: EVCud_TpudN

Model Summary^f

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.666 ^a	.444	.437	.00363108224 6815
2	.777 ^b	.604	.595	.00307924949 4371
3	.969 ^c	.939	.937	.00121665368 1241
4	.982 ^d	.965	.964	.00092427592 2586
5	.984 ^e	.969	.967	.00087904035 4577

a. Predictors: (Constant), PL_TpudN

b. Predictors: (Constant), PL_TpudN, GD_ud

c. Predictors: (Constant), PL_TpudN, GD_ud, AvgPL_ud

d. Predictors: (Constant), PL_TpudN, GD_ud, AvgPL_ud, R_ud

e. Predictors: (Constant), PL_TpudN, GD_ud, AvgPL_ud, R_ud, SMSP_ud

f. Dependent Variable: EVCud_TpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.001	1	.001	70.948	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			
2	Regression	.001	2	.001	67.207	.000 ^c
	Residual	.001	88	.000		
	Total	.002	90			
3	Regression	.002	3	.001	445.892	.000 ^d
	Residual	.000	87	.000		
	Total	.002	90			
4	Regression	.002	4	.001	595.644	.000 ^e
	Residual	.000	86	.000		
	Total	.002	90			
5	Regression	.002	5	.000	528.836	.000 ^f
	Residual	.000	85	.000		

Total	.002	90			
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a. Dependent Variable: EVCud_TpudN

b. Predictors: (Constant), PL_TpudN

c. Predictors: (Constant), PL_TpudN, GD_ud

d. Predictors: (Constant), PL_TpudN, GD_ud, AvgPL_ud

e. Predictors: (Constant), PL_TpudN, GD_ud, AvgPL_ud, R_ud

f. Predictors: (Constant), PL_TpudN, GD_ud, AvgPL_ud, R_ud, SMSP_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.000	.001		.355	.723
	PL_TpudN	.958	.114	.666	8.423	.000
2	(Constant)	-.006	.002		-4.021	.000
	PL_TpudN	1.008	.097	.701	10.417	.000
	GD_ud	.577	.096	.403	5.980	.000
3	(Constant)	.004	.001		4.627	.000
	PL_TpudN	.096	.057	.067	1.694	.094
	GD_ud	17.571	.779	12.265	22.547	.000
	AvgPL_ud	-16.996	.778	-11.949	-21.833	.000

4	(Constant)	-.009	.002		-5.359	.000
	PL_TpudN	.092	.043	.064	2.149	.034
	GD_ud	17.719	.592	12.368	29.915	.000
	AvgPL_ud	-17.281	.592	-12.148	-29.168	.000
	R_ud	1.284	.160	.189	8.047	.000
5	(Constant)	-.008	.002		-5.008	.000
	PL_TpudN	.086	.041	.060	2.094	.039
	GD_ud	17.830	.564	12.445	31.590	.000
	AvgPL_ud	-17.382	.564	-12.220	-30.800	.000
	R_ud	1.187	.155	.174	7.672	.000
	SMSP_ud	.014	.005	.062	3.175	.002

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	PL_TpudN	1.000	1.000
2	(Constant)		
	PL_TpudN	.992	1.008
	GD_ud	.992	1.008
3	(Constant)		
	PL_TpudN	.452	2.211
	GD_ud	.002	421.565

	AvgPL_ud	.002	426.695
4	(Constant)		
	PL_TpudN	.452	2.211
	GD_ud	.002	421.971
	AvgPL_ud	.002	428.216
	R_ud	.737	1.356
5	(Constant)		
	PL_TpudN	.451	2.217
	GD_ud	.002	423.587
	AvgPL_ud	.002	429.597
	R_ud	.709	1.411
	SMSP_ud	.957	1.045

a. Dependent Variable: EVCud_TpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	.213 ^b	2.781	.007	.284	.995	1.005	.995
	Edges_ud	.202 ^b	2.632	.010	.270	.998	1.002	.998
	Den_ud	-.205 ^b	-2.655	.009	-.272	.987	1.013	.987

	CC_ud	.047 ^b	.591	.556	.063	1.000	1.000	1.000
	GD_ud	.403 ^b	5.980	.000	.538	.992	1.008	.992
	Tpaths_ud	.350 ^b	4.874	.000	.461	.966	1.035	.966
	TSpaths_ud	.241 ^b	3.199	.002	.323	.996	1.004	.996
	AvgPL_ud	.376 ^b	5.401	.000	.499	.980	1.020	.980
	AvgGL_ud	.326 ^b	4.503	.000	.433	.982	1.018	.982
	PL_TSpud N	.202 ^b	2.635	.010	.270	.996	1.004	.996
	S_ud	-.031 ^b	-.393	.695	-.042	.999	1.001	.999
	R_ud	.313 ^b	4.320	.000	.418	.992	1.008	.992
	SMSP_ud	.057 ^b	.724	.471	.077	1.000	1.000	1.000
2	Nodes	.014 ^c	.184	.855	.020	.744	1.344	.742
	Edges_ud	.039 ^c	.524	.601	.056	.819	1.220	.815
	Den_ud	.010 ^c	.122	.903	.013	.716	1.397	.716
	CC_ud	.049 ^c	.731	.467	.078	1.000	1.000	.992
	Tpaths_ud	-1.150 ^c	-3.734	.000	-.372	.041	24.193	.041
	TSpaths_ud	.071 ^c	.943	.348	.101	.785	1.274	.782
	AvgPL_ud	-11.949 ^c	-21.833	.000	-.920	.002	426.695	.002
	AvgGL_ud	.096 ^c	1.046	.298	.111	.533	1.876	.533
	PL_TSpud N	.076 ^c	1.068	.289	.114	.884	1.131	.881
	S_ud	.018 ^c	.267	.790	.029	.984	1.017	.977
	R_ud	.148 ^c	1.926	.057	.202	.740	1.351	.740

	SMSP_ud	.052 ^c	.777	.439	.083	1.000	1.000	.992
3	Nodes	.007 ^d	.216	.829	.023	.744	1.344	.002
	Edges_ud	.035 ^d	1.190	.237	.127	.819	1.220	.002
	Den_ud	.014 ^d	.435	.665	.047	.716	1.397	.002
	CC_ud	.094 ^d	3.781	.000	.378	.994	1.006	.002
	Tpaths_ud	-.123 ^d	-.876	.383	-.094	.036	27.954	.002
	TSpaths_ud	.043 ^d	1.461	.148	.156	.784	1.276	.002
	AvgGL_ud	.113 ^d	3.289	.001	.334	.533	1.877	.002
	PL_TSpud N	.015 ^d	.524	.601	.056	.875	1.143	.002
	S_ud	.079 ^d	3.098	.003	.317	.973	1.028	.002
	R_ud	.189 ^d	8.047	.000	.655	.737	1.356	.002
	SMSP_ud	.092 ^d	3.693	.000	.370	.995	1.005	.002
4	Nodes	.028 ^e	1.210	.230	.130	.735	1.361	.002
	Edges_ud	.033 ^e	1.511	.135	.162	.819	1.221	.002
	Den_ud	-.001 ^e	-.043	.966	-.005	.712	1.405	.002
	CC_ud	.061 ^e	3.071	.003	.316	.946	1.058	.002
	Tpaths_ud	.025 ^e	.232	.817	.025	.035	28.808	.002
	TSpaths_ud	.024 ^e	1.034	.304	.111	.774	1.292	.002
	AvgGL_ud	.017 ^e	.540	.590	.059	.425	2.353	.002
	PL_TSpud N	-.023 ^e	-1.047	.298	-.113	.835	1.197	.002
	S_ud	.025 ^e	1.126	.263	.121	.852	1.174	.002
	SMSP_ud	.062 ^e	3.175	.002	.326	.957	1.045	.002

5	Nodes	.028 ^f	1.262	.211	.136	.735	1.361	.002
	Edges_ud	.029 ^f	1.398	.166	.151	.816	1.225	.002
	Den_ud	-.008 ^f	-.343	.733	-.037	.705	1.418	.002
	CC_ud	-.019 ^f	-.185	.854	-.020	.034	29.135	.002
	Tpaths_ud	.004 ^f	.036	.972	.004	.035	28.935	.002
	TSpaths_ud	.026 ^f	1.178	.242	.127	.773	1.293	.002
	AvgGL_ud	.028 ^f	.953	.343	.103	.419	2.386	.002
	PL_TSpud N	-.029 ^f	-1.399	.165	-.151	.829	1.207	.002
	S_ud	.019 ^f	.892	.375	.097	.845	1.184	.002

a. Dependent Variable: EVCud_TpudN

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

c. Predictors in the Model: (Constant), PL_TpudN, GD_ud

d. Predictors in the Model: (Constant), PL_TpudN, GD_ud, AvgPL_ud

e. Predictors in the Model: (Constant), PL_TpudN, GD_ud, AvgPL_ud, R_ud

f. Predictors in the Model: (Constant), PL_TpudN, GD_ud, AvgPL_ud, R_ud, SMSP_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	PL_TpudN	GD_ud
1	1	1.957	1.000	.02	.02	

	2	.043	6.714	.98	.98	
2	1	2.880	1.000	.00	.01	.01
	2	.093	5.575	.00	.45	.46
	3	.027	10.329	1.00	.54	.53
3	1	3.839	1.000	.00	.00	.00
	2	.132	5.395	.01	.16	.00
	3	.029	11.602	.66	.30	.00
	4	.000	194.732	.33	.54	1.00
4	1	4.823	1.000	.00	.00	.00
	2	.134	6.003	.00	.14	.00
	3	.041	10.806	.02	.31	.00
	4	.002	54.054	.95	.01	.00
	5	.000	218.438	.03	.54	1.00
5	1	5.080	1.000	.00	.00	.00
	2	.744	2.614	.00	.00	.00
	3	.134	6.164	.00	.14	.00
	4	.041	11.123	.02	.31	.00
	5	.002	56.444	.95	.01	.00
	6	.000	224.582	.03	.54	1.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions		
		AvgPL_ud	R_ud	SMSP_ud

1	1			
	2			
2	1			
	2			
	3			
3	1	.00		
	2	.00		
	3	.00		
	4	1.00		
4	1	.00	.00	
	2	.00	.00	
	3	.00	.02	
	4	.00	.98	
	5	1.00	.00	
5	1	.00	.00	.01
	2	.00	.00	.95
	3	.00	.00	.00
	4	.00	.02	.01
	5	.00	.98	.03
	6	1.00	.00	.00

a. Dependent Variable: EVCud_TpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00448306044 5637	.01883895136 4160	.01098901098 9011	.00476467373 1050
Std. Predicted Value	-1.365	1.648	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00521846627 8166	.01908325031 3997	.01096559009 0293	.00477570061 4956
Residual	- .00448306044 5637	.00270874006 6737	.00000000000 0000	.00085427367 0194
Std. Residual	-5.100	3.081	.000	.972
Stud. Residual	-5.502	3.136	.009	1.044
Deleted Residual	- .00521846627 8166	.00336430873 7218	.00002342089 8718	.00100642816 2227
Stud. Deleted Residual	-6.817	3.315	-.001	1.142
Mahal. Distance	.642	64.764	4.945	7.623
Cook's Distance	.000	.887	.037	.155
Centered Leverage Value	.007	.720	.055	.085

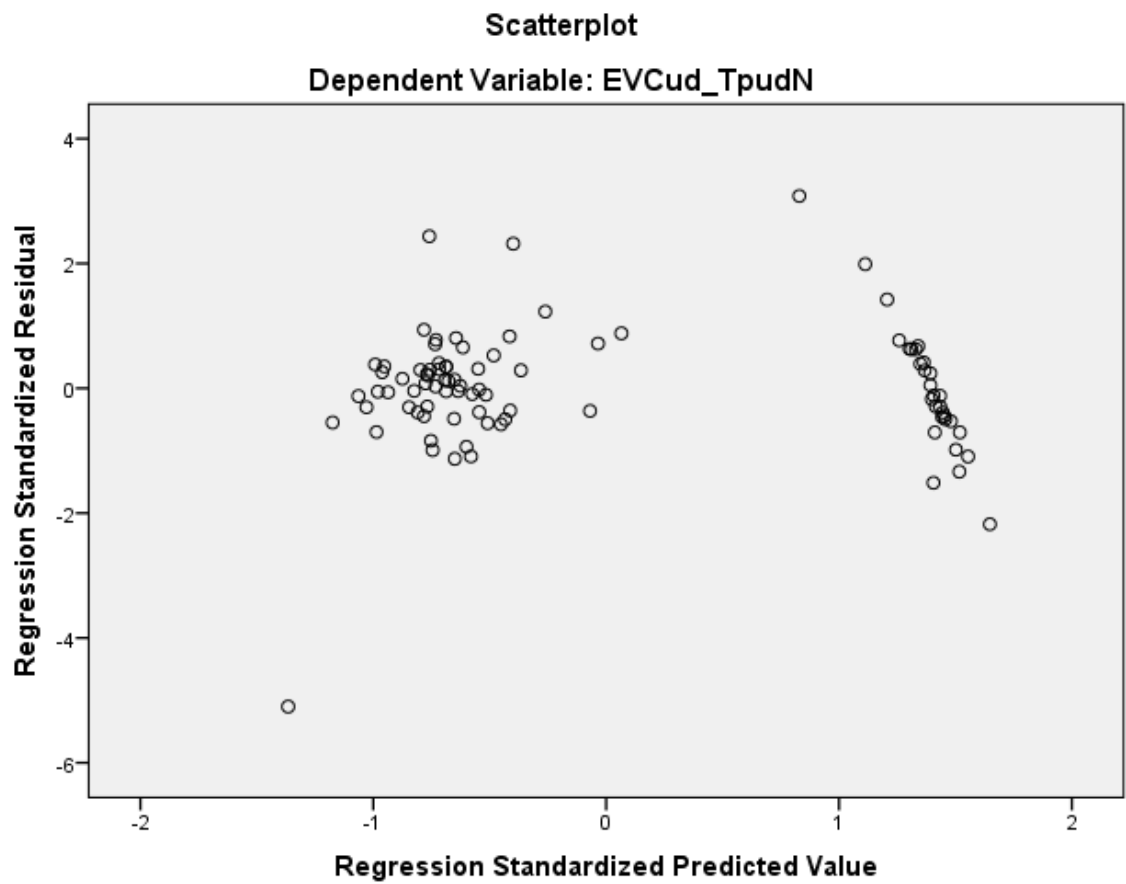
Residuals Statistics^a

	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

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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 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	00:00:00.22
	Elapsed Time	00:00:00.23
	Memory Required	16032 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_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Edges_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	Nodes		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).

5			Stepwise (Criteria: Probability-of- F-to-enter <=
	CC_ud	.	.050, Probability-of- F-to-remove >= .100).
6			Stepwise (Criteria: Probability-of- F-to-enter <=
	Den_ud	.	.050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCud_TSpudN

Model Summary^a

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.597 ^a	.356	.349	.00036703291 5327
2	.658 ^b	.433	.420	.00034644490 7204
3	.726 ^c	.528	.511	.00031797227 6362
4	.791 ^d	.625	.608	.00028480719 4941

5	.824 ^e	.680	.661	.00026494238 0505
6	.841 ^f	.708	.687	.00025445292 2957

a. Predictors: (Constant), AvgGL_ud

b. Predictors: (Constant), AvgGL_ud, Edges_ud

c. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes

d. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes,
TSpaths_ud

e. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes,
TSpaths_ud, CC_ud

f. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes,
TSpaths_ud, CC_ud, Den_ud

g. Dependent Variable: EVCud_TSpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	49.238	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	33.578	.000 ^c
	Residual	.000	88	.000		

	Total	.000	90			
3	Regression	.000	3	.000	32.396	.000 ^d
	Residual	.000	87	.000		
	Total	.000	90			
4	Regression	.000	4	.000	35.895	.000 ^e
	Residual	.000	86	.000		
	Total	.000	90			
5	Regression	.000	5	.000	36.060	.000 ^f
	Residual	.000	85	.000		
	Total	.000	90			
6	Regression	.000	6	.000	33.937	.000 ^g
	Residual	.000	84	.000		
	Total	.000	90			

a. Dependent Variable: EVCud_TSpudN

b. Predictors: (Constant), AvgGL_ud

c. Predictors: (Constant), AvgGL_ud, Edges_ud

d. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes

e. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes, TSpats_ud

f. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes, TSpats_ud, CC_ud

g. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes, TSpats_ud, CC_ud, Den_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.012	.000		66.849	.000
	AvgGL_ud	-.114	.016	-.597	-7.017	.000
2	(Constant)	.012	.000		68.593	.000
	AvgGL_ud	-.142	.017	-.742	-8.185	.000
	Edges_ud	.039	.011	.313	3.449	.001
3	(Constant)	.012	.000		68.412	.000
	AvgGL_ud	-.147	.016	-.765	-9.167	.000
	Edges_ud	.183	.036	1.456	5.092	.000
	Nodes	-.171	.041	-1.174	-4.179	.000
4	(Constant)	.020	.002		12.373	.000
	AvgGL_ud	-.081	.020	-.421	-4.035	.000
	Edges_ud	.361	.049	2.873	7.296	.000
	Nodes	-.186	.037	-1.276	-5.055	.000
	TSpaths_ud	-.927	.196	-1.542	-4.737	.000
5	(Constant)	.022	.002		13.818	.000
	AvgGL_ud	-.065	.019	-.338	-3.405	.001
	Edges_ud	.436	.050	3.471	8.703	.000
	Nodes	-.231	.036	-1.585	-6.376	.000
	TSpaths_ud	-1.141	.191	-1.897	-5.986	.000

	CC_ud	-.006	.002	-.255	-3.792	.000
6	(Constant)	.027	.002		11.814	.000
	AvgGL_ud	-.045	.020	-.236	-2.315	.023
	Edges_ud	.558	.064	4.441	8.675	.000
	Nodes	-.383	.064	-2.627	-6.023	.000
	TSpaths_ud	-1.461	.215	-2.430	-6.806	.000
	CC_ud	-.006	.002	-.260	-4.028	.000
	Den_ud	-.105	.037	-.598	-2.855	.005

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_ud	1.000	1.000
2	(Constant)		
	AvgGL_ud	.783	1.277
	Edges_ud	.783	1.277
3	(Constant)		
	AvgGL_ud	.780	1.282
	Edges_ud	.066	15.052
	Nodes	.069	14.530
4	(Constant)		
	AvgGL_ud	.401	2.494

	Edges_ud	.028	35.591
	Nodes	.068	14.638
	TSpaths_ud	.041	24.319
5	(Constant)		
	AvgGL_ud	.382	2.619
	Edges_ud	.024	42.198
	Nodes	.061	16.395
	TSpaths_ud	.038	26.648
	CC_ud	.833	1.200
6	(Constant)		
	AvgGL_ud	.335	2.988
	Edges_ud	.013	75.359
	Nodes	.018	54.726
	TSpaths_ud	.027	36.668
	CC_ud	.833	1.201
	Den_ud	.079	12.635

a. Dependent Variable: EVCud_TSpudN

Excluded Variables^a

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

					Correlation	Tolerance	VIF	Minimum Tolerance
1	Nodes	.194 ^b	2.099	.039	.218	.811	1.232	.811
	Edges_ud	.313 ^b	3.449	.001	.345	.783	1.277	.783
	Den_ud	-.070 ^b	-.758	.451	-.081	.851	1.174	.851
	CC_ud	-.039 ^b	-.460	.647	-.049	.999	1.001	.999
	GD_ud	-.006 ^b	-.048	.962	-.005	.538	1.857	.538
	Tpaths_ud	.067 ^b	.590	.557	.063	.564	1.772	.564
	TSpaths_ud	.247 ^b	2.328	.022	.241	.613	1.631	.613
	AvgPL_ud	.003 ^b	.028	.977	.003	.534	1.871	.534
	PL_TpudN	-.023 ^b	-.271	.787	-.029	.982	1.018	.982
	PL_TSpud N	.156 ^b	1.723	.088	.181	.865	1.156	.865
	S_ud	-.040 ^b	-.472	.638	-.050	.992	1.008	.992
	R_ud	.184 ^b	1.694	.094	.178	.602	1.662	.602
	SMSP_ud	-.020 ^b	-.232	.817	-.025	1.000	1.000	1.000
2	Nodes	-1.174 ^c	-4.179	.000	-.409	.069	14.530	.066
	Den_ud	.479 ^c	3.488	.001	.350	.303	3.295	.279
	CC_ud	-.034 ^c	-.421	.675	-.045	.999	1.001	.783
	GD_ud	-.071 ^c	-.635	.527	-.068	.523	1.911	.500
	Tpaths_ud	-.089 ^c	-.766	.446	-.082	.480	2.084	.480
	TSpaths_ud	-1.401 ^c	-3.815	.000	-.379	.041	24.140	.041
	AvgPL_ud	-.061 ^c	-.542	.589	-.058	.520	1.923	.497

	PL_TpudN	-.028 ^c	-.345	.731	-.037	.982	1.018	.771
	PL_TSpud N	.097 ^c	1.103	.273	.117	.826	1.211	.735
	S_ud	.413 ^c	3.511	.001	.352	.413	2.420	.326
	R_ud	.224 ^c	2.194	.031	.229	.595	1.680	.490
	SMSP_ud	-.039 ^c	-.480	.633	-.051	.995	1.005	.780
3	Den_ud	.092 ^d	.413	.681	.045	.111	9.015	.025
	CC_ud	-.136 ^d	-1.786	.078	-.189	.913	1.095	.061
	GD_ud	.234 ^d	1.947	.055	.205	.365	2.736	.048
	Tpaths_ud	.250 ^d	1.952	.054	.206	.321	3.119	.046
	TSpaths_ud	-1.542 ^d	-4.737	.000	-.455	.041	24.319	.028
	AvgPL_ud	.254 ^d	2.109	.038	.222	.360	2.774	.048
	PL_TpudN	-.062 ^d	-.833	.407	-.089	.971	1.030	.066
	PL_TSpud N	.103 ^d	1.275	.206	.136	.826	1.211	.066
	S_ud	.244 ^d	1.922	.058	.203	.326	3.067	.054
	R_ud	.166 ^d	1.741	.085	.185	.581	1.720	.066
	SMSP_ud	-.127 ^d	-1.684	.096	-.179	.928	1.077	.062
4	Den_ud	-.574 ^e	-2.525	.013	-.264	.079	12.624	.015
	CC_ud	-.255 ^e	-3.792	.000	-.380	.833	1.200	.024
	GD_ud	.049 ^e	.416	.678	.045	.316	3.169	.028
	Tpaths_ud	.061 ^e	.485	.629	.053	.280	3.574	.028
	AvgPL_ud	.062 ^e	.518	.606	.056	.307	3.261	.028
	PL_TpudN	-.055 ^e	-.812	.419	-.088	.970	1.031	.028

	PL_TSpud N	.111 ^e	1.537	.128	.164	.825	1.212	.028
	S_ud	-.036 ^e	-.270	.788	-.029	.246	4.067	.022
	R_ud	.126 ^e	1.457	.149	.156	.575	1.738	.027
	SMSP_ud	-.240 ^e	-3.582	.001	-.362	.852	1.173	.024
5	Den_ud	-.598 ^f	-2.855	.005	-.297	.079	12.635	.013
	GD_ud	.077 ^f	.700	.486	.076	.314	3.183	.023
	Tpaths_ud	.097 ^f	.827	.410	.090	.278	3.597	.023
	AvgPL_ud	.092 ^f	.823	.413	.089	.305	3.277	.023
	PL_TpudN	-.057 ^f	-.913	.364	-.099	.970	1.031	.024
	PL_TSpud N	.144 ^f	2.158	.034	.229	.813	1.230	.024
	S_ud	.036 ^f	.284	.777	.031	.240	4.163	.020
	R_ud	.183 ^f	2.284	.025	.242	.559	1.789	.024
	SMSP_ud	.260 ^f	.687	.494	.075	.027	37.581	.024
6	GD_ud	-.002 ^g	-.014	.989	-.002	.293	3.416	.013
	Tpaths_ud	-.010 ^g	-.082	.935	-.009	.248	4.035	.013
	AvgPL_ud	.005 ^g	.043	.966	.005	.280	3.569	.013
	PL_TpudN	-.037 ^g	-.615	.540	-.067	.956	1.046	.013
	PL_TSpud N	.122 ^g	1.876	.064	.202	.800	1.250	.013
	S_ud	.243 ^g	1.824	.072	.196	.190	5.259	.013
	R_ud	.101 ^g	1.137	.259	.124	.441	2.270	.011
	SMSP_ud	-.317 ^g	-.764	.447	-.084	.020	49.198	.012

a. Dependent Variable: EVCud_TSpudN

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

c. Predictors in the Model: (Constant), AvgGL_ud, Edges_ud

d. Predictors in the Model: (Constant), AvgGL_ud, Edges_ud, Nodes

e. Predictors in the Model: (Constant), AvgGL_ud, Edges_ud, Nodes, TSpaths_ud

f. Predictors in the Model: (Constant), AvgGL_ud, Edges_ud, Nodes, TSpaths_ud, CC_ud

g. Predictors in the Model: (Constant), AvgGL_ud, Edges_ud, Nodes, TSpaths_ud, CC_ud, Den_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_ud	Edges_ud
1	1	1.978	1.000	.01	.01	
	2	.022	9.416	.99	.99	
2	1	2.925	1.000	.00	.00	.01
	2	.054	7.394	.21	.05	.92
	3	.021	11.695	.78	.94	.07
3	1	3.906	1.000	.00	.00	.00
	2	.069	7.519	.16	.09	.03
	3	.022	13.277	.62	.88	.00
	4	.003	37.026	.22	.03	.97
4	1	4.896	1.000	.00	.00	.00
	2	.076	8.014	.00	.02	.01

	3	.025	14.027	.00	.50	.00
	4	.003	40.664	.00	.02	.37
	5	.000	203.007	1.00	.46	.61
5	1	5.173	1.000	.00	.00	.00
	2	.725	2.672	.00	.00	.00
	3	.075	8.306	.00	.02	.01
	4	.025	14.419	.00	.48	.00
	5	.003	43.498	.00	.01	.33
	6	.000	219.480	1.00	.48	.65
6	1	6.065	1.000	.00	.00	.00
	2	.725	2.893	.00	.00	.00
	3	.175	5.885	.00	.00	.00
	4	.029	14.580	.00	.43	.00
	5	.005	33.677	.01	.00	.10
	6	.001	72.579	.01	.05	.09
	7	6.311E-5	310.003	.99	.52	.81

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions			
		Nodes	TSpaths_ud	CC_ud	Den_ud
1	1				
	2				
2	1				

	2				
	3				
3	1	.00			
	2	.01			
	3	.00			
	4	.98			
4	1	.00	.00		
	2	.01	.00		
	3	.00	.00		
	4	.97	.00		
	5	.02	1.00		
5	1	.00	.00	.01	
	2	.00	.00	.81	
	3	.01	.00	.02	
	4	.00	.00	.00	
	5	.94	.00	.07	
	6	.05	1.00	.10	
6	1	.00	.00	.01	.00
	2	.00	.00	.81	.00
	3	.00	.00	.03	.01
	4	.00	.00	.00	.01
	5	.03	.00	.08	.14
	6	.55	.03	.00	.41

7	.42	.97	.07	.43
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a. Dependent Variable: EVCud_TSpudN

Residuals Statistics^a

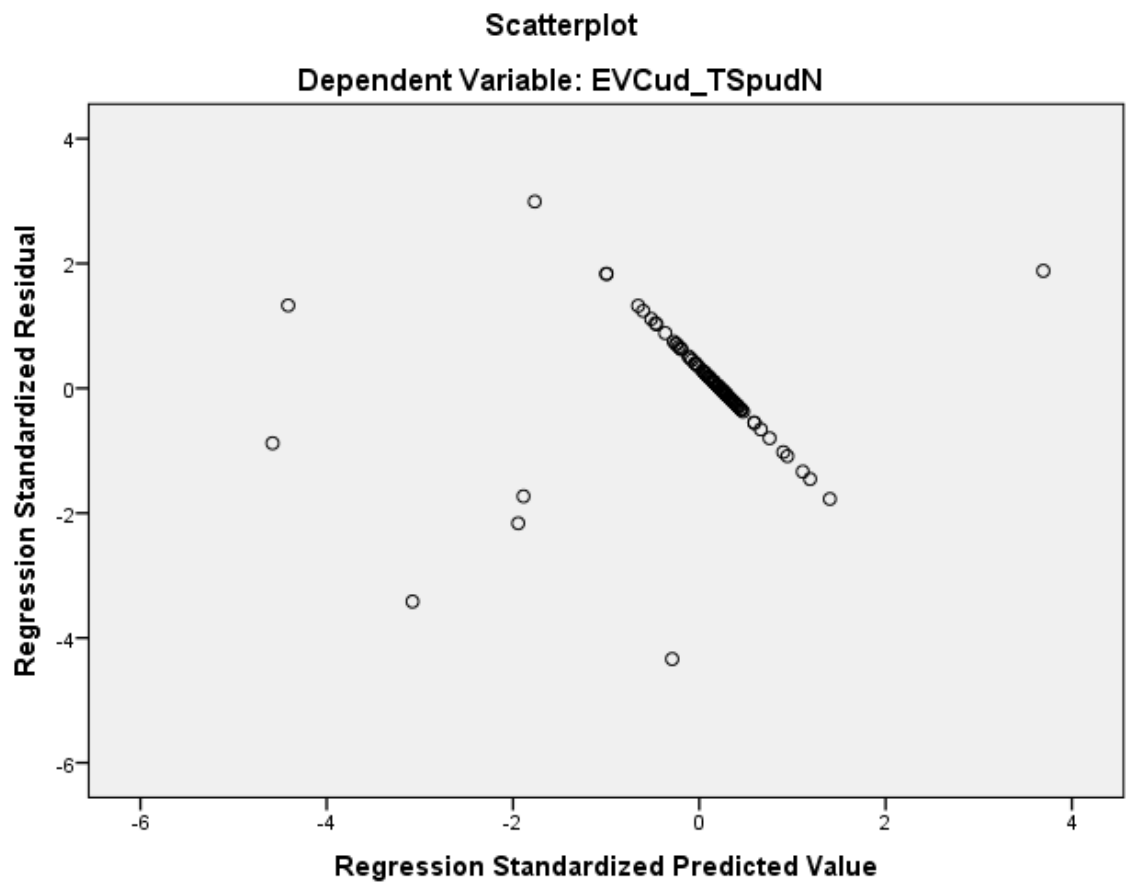
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00923564936 9657	.01240240968 7638	.01098901098 9011	.00038273515 7502
Std. Predicted Value	-4.581	3.693	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00916412845 2539	.01215142477 3037	.01099808988 0714	.00037334308 3392
Residual	- .00110349769 2384	.00076125381 7473	.00000000000 0000	.00024582487 8049
Std. Residual	-4.337	2.992	.000	.966
Stud. Residual	-4.382	3.124	-.013	1.044
Deleted Residual	- .00112659716 9787	.00082997855 4975	- .00000907889 1703	.00029543681 7757
Stud. Deleted Residual	-4.959	3.303	-.022	1.099
Mahal. Distance	.354	56.625	5.934	10.546
Cook's Distance	.000	1.210	.037	.145
Centered Leverage Value	.004	.629	.066	.117

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 PL_EVCudN

/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		05-JUN-2015 19:00:08
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 PL_EVCudN /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	00:00:00.23
	Elapsed Time	00:00:00.24
	Memory Required	16064 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	Tpaths_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).
3	PL_TpudN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCudN

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.744 ^a	.554	.549	.00075717075 8952
2	.805 ^b	.649	.640	.00067577956 7637
3	.848 ^c	.719	.709	.00060806966 5408

a. Predictors: (Constant), Tpaths_ud

b. Predictors: (Constant), Tpaths_ud, AvgGL_ud

c. Predictors: (Constant), Tpaths_ud, AvgGL_ud, PL_TpudN

d. Dependent Variable: PL_EVCudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	107.926	.000 ^b
	Residual	.000	87	.000		
	Total	.000	88			
2	Regression	.000	2	.000	79.354	.000 ^c
	Residual	.000	86	.000		
	Total	.000	88			
3	Regression	.000	3	.000	72.413	.000 ^d

Residual	.000	85	.000		
Total	.000	88			

a. Dependent Variable: PL_EVCudN

b. Predictors: (Constant), Tpaths_ud

c. Predictors: (Constant), Tpaths_ud, AvgGL_ud

d. Predictors: (Constant), Tpaths_ud, AvgGL_ud, PL_TpudN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.015	.000		39.973	.000
	Tpaths_ud	-.339	.033	-.744	-10.389	.000
2	(Constant)	.014	.000		37.539	.000
	Tpaths_ud	-.473	.040	-1.039	-11.737	.000
	AvgGL_ud	.209	.043	.427	4.819	.000
3	(Constant)	.015	.000		35.009	.000
	Tpaths_ud	-.485	.036	-1.066	-13.347	.000
	AvgGL_ud	.196	.039	.401	5.020	.000
	PL_TpudN	-.090	.020	-.269	-4.606	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_ud	1.000	1.000
2	(Constant)		
	Tpaths_ud	.521	1.919
	AvgGL_ud	.521	1.919
3	(Constant)		
	Tpaths_ud	.518	1.929
	AvgGL_ud	.519	1.928
	PL_TpudN	.968	1.034

a. Dependent Variable: PL_EVCudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	.023 ^b	.243	.809	.026	.586	1.706	.586
	Edges_ud	.030 ^b	.324	.747	.035	.622	1.608	.622
	Den_ud	.055 ^b	.585	.560	.063	.585	1.708	.585

	CC_ud	.036 ^b	.504	.616	.054	1.000	1.000	1.000
	GD_ud	-.294 ^b	-.980	.330	-.105	.057	17.512	.057
	TSpaths_ud	.115 ^b	1.188	.238	.127	.547	1.827	.547
	AvgPL_ud	.091 ^b	.260	.796	.028	.042	23.618	.042
	AvgGL_ud	.427 ^b	4.819	.000	.461	.521	1.919	.521
	PL_TpudN	-.290 ^b	-4.390	.000	-.428	.972	1.028	.972
	PL_TSpud N	-.012 ^b	-.156	.876	-.017	.905	1.105	.905
	S_ud	.195 ^b	2.716	.008	.281	.924	1.082	.924
	R_ud	.125 ^b	1.408	.163	.150	.643	1.554	.643
	SMSP_ud	.012 ^b	.160	.873	.017	.999	1.001	.999
2	Nodes	.087 ^c	1.025	.308	.110	.572	1.747	.343
	Edges_ud	.056 ^c	.686	.494	.074	.619	1.616	.380
	Den_ud	-.022 ^c	-.261	.795	-.028	.564	1.772	.333
	CC_ud	.019 ^c	.291	.772	.032	.997	1.003	.519
	GD_ud	-.743 ^c	-2.752	.007	-.286	.052	19.213	.052
	TSpaths_ud	.023 ^c	.256	.798	.028	.520	1.923	.412
	AvgPL_ud	-.520 ^c	-1.575	.119	-.168	.037	27.195	.037
	PL_TpudN	-.269 ^c	-4.606	.000	-.447	.968	1.034	.518
	PL_TSpud N	-.083 ^c	-1.206	.231	-.130	.866	1.155	.499
	S_ud	.051 ^c	.667	.506	.072	.704	1.421	.375
	R_ud	-.095 ^c	-1.026	.308	-.111	.477	2.097	.386

	SMSP_ud	.015 ^c	.235	.815	.025	.999	1.001	.521
3	Nodes	.082 ^d	1.080	.283	.117	.572	1.747	.342
	Edges_ud	.049 ^d	.666	.507	.072	.619	1.616	.379
	Den_ud	-.009 ^d	-.117	.907	-.013	.563	1.775	.332
	CC_ud	.024 ^d	.422	.674	.046	.996	1.004	.517
	GD_ud	-.222 ^d	-.762	.448	-.083	.039	25.480	.039
	TSpaths_ud	.012 ^d	.151	.880	.016	.520	1.924	.411
	AvgPL_ud	-.112 ^d	-.353	.725	-.039	.033	29.949	.033
	PL_TSpud N	-.079 ^d	-1.286	.202	-.139	.866	1.155	.496
	S_ud	.067 ^d	.970	.335	.105	.702	1.424	.375
	R_ud	-.077 ^d	-.927	.357	-.101	.476	2.101	.383
	SMSP_ud	.018 ^d	.319	.751	.035	.999	1.001	.518

a. Dependent Variable: PL_EVCudN

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

c. Predictors in the Model: (Constant), Tpaths_ud, AvgGL_ud

d. Predictors in the Model: (Constant), Tpaths_ud, AvgGL_ud, PL_TpudN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Tpaths_ud	AvgGL_ud

1	1	1.975	1.000	.01	.01	
	2	.025	8.951	.99	.99	
2	1	2.960	1.000	.00	.00	.00
	2	.026	10.611	.95	.25	.07
	3	.014	14.639	.04	.75	.92
3	1	3.873	1.000	.00	.00	.00
	2	.096	6.351	.00	.05	.03
	3	.017	14.914	.87	.36	.00
	4	.014	16.855	.13	.59	.96

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TpudN
1	1	
	2	
2	1	
	2	
	3	
3	1	.01
	2	.57
	3	.39
	4	.03

a. Dependent Variable: PL_EVCudN

Residuals Statistics^a

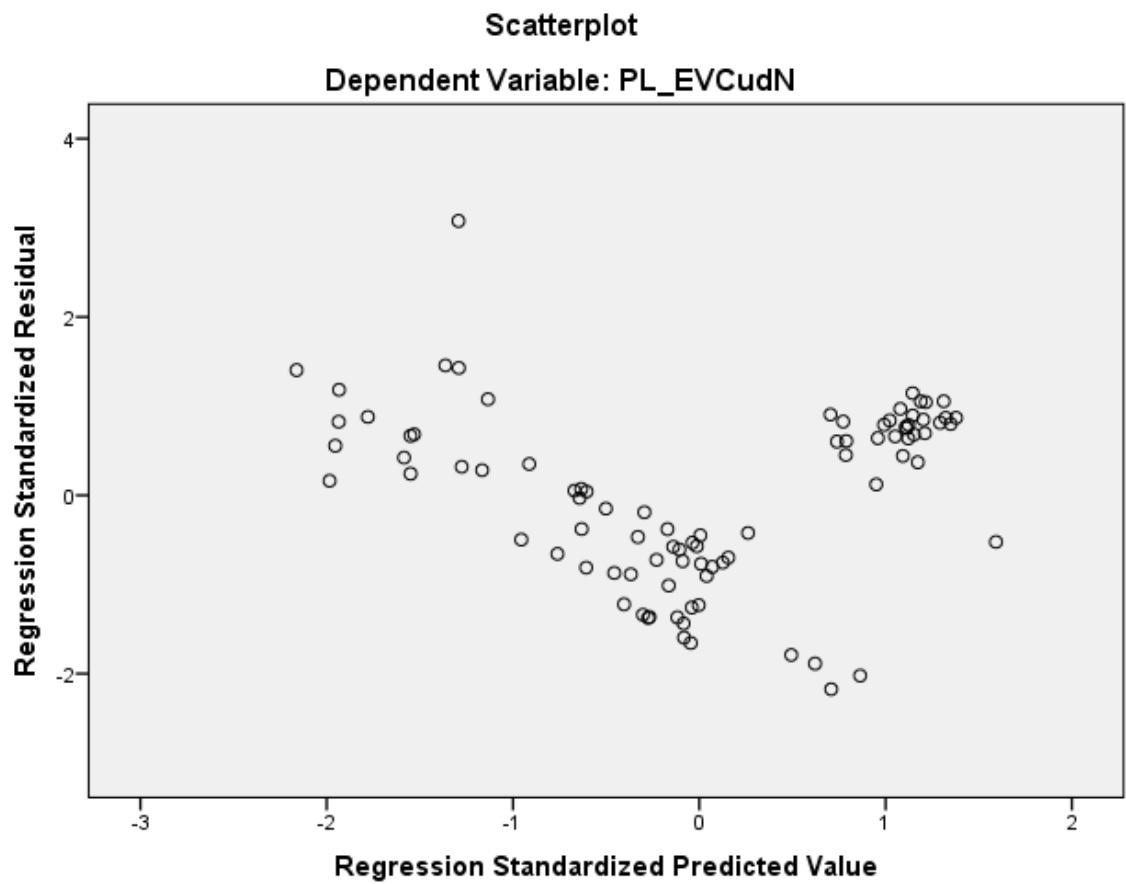
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00878746621 3107	.01237430237 2336	.01085294423 1400	.00095539072 4944
Std. Predicted Value	-2.162	1.592	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00868155993 5212	.01241486519 5751	.01084450190 0662	.00097470394 6804
Residual	- .00132235197 8160	.00187128793 9139	.00000000000 0000	.00059761496 6394
Std. Residual	-2.175	3.077	.000	.983
Stud. Residual	-2.210	3.497	.007	1.017
Deleted Residual	- .00136534054 7636	.00241635576 8219	.00000844233 0738	.00064146967 2999
Stud. Deleted Residual	-2.263	3.757	.007	1.032
Mahal. Distance	.278	22.493	2.966	3.551
Cook's Distance	.000	.891	.020	.095
Centered Leverage Value	.003	.256	.034	.040

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_EVCudN

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		05-JUN-2015 19:00:57
Comments		
Input	Active Dataset	DataSet2
	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	00:00:00.25
	Elapsed Time	00:00:00.24
	Memory Required	16112 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	AvgGL_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	Edges_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4	Nodes		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

5	CC_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
6	TSpats_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
7		R_ud	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
8	Den_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

9		. AvgGL_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^j

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.594 ^a	.353	.345	.00036030743 7467
2	.659 ^b	.434	.421	.00033877162 6112
3	.691 ^c	.477	.458	.00032766402 0477
4	.758 ^d	.575	.554	.00029722048 3964
5	.786 ^e	.618	.594	.00028356400 3274
6	.828 ^f	.686	.663	.00025863981 9750
7	.822 ^g	.676	.656	.00026111211 7141

8	.844 ^h	.712	.691	.00024752417 2334
9	.844 ⁱ	.712	.695	.00024601091 9030

- a. Predictors: (Constant), AvgGL_ud
- b. Predictors: (Constant), AvgGL_ud, R_ud
- c. Predictors: (Constant), AvgGL_ud, R_ud, Edges_ud
- d. Predictors: (Constant), AvgGL_ud, R_ud, Edges_ud, Nodes
- e. Predictors: (Constant), AvgGL_ud, R_ud, Edges_ud, Nodes, CC_ud
- f. Predictors: (Constant), AvgGL_ud, R_ud, Edges_ud, Nodes, CC_ud, TSpats_ud
- g. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes, CC_ud, TSpats_ud
- h. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes, CC_ud, TSpats_ud, Den_ud
- i. Predictors: (Constant), Edges_ud, Nodes, CC_ud, TSpats_ud, Den_ud
- j. Dependent Variable: EVCud_TSpudN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	.000	1	.000	46.838	.000 ^b

	Residual	.000	86	.000		
	Total	.000	87			
2	Regression	.000	2	.000	32.632	.000 ^c
	Residual	.000	85	.000		
	Total	.000	87			
3	Regression	.000	3	.000	25.542	.000 ^d
	Residual	.000	84	.000		
	Total	.000	87			
4	Regression	.000	4	.000	28.054	.000 ^e
	Residual	.000	83	.000		
	Total	.000	87			
5	Regression	.000	5	.000	26.494	.000 ^f
	Residual	.000	82	.000		
	Total	.000	87			
6	Regression	.000	6	.000	29.466	.000 ^g
	Residual	.000	81	.000		
	Total	.000	87			
7	Regression	.000	5	.000	34.188	.000 ^h
	Residual	.000	82	.000		
	Total	.000	87			
8	Regression	.000	6	.000	33.412	.000 ⁱ
	Residual	.000	81	.000		
	Total	.000	87			

9	Regression	.000	5	.000	40.589	.000 ^j
	Residual	.000	82	.000		
	Total	.000	87			

a. Dependent Variable: EVCud_TSpudN

b. Predictors: (Constant), AvgGL_ud

c. Predictors: (Constant), AvgGL_ud, R_ud

d. Predictors: (Constant), AvgGL_ud, R_ud, Edges_ud

e. Predictors: (Constant), AvgGL_ud, R_ud, Edges_ud, Nodes

f. Predictors: (Constant), AvgGL_ud, R_ud, Edges_ud, Nodes, CC_ud

g. Predictors: (Constant), AvgGL_ud, R_ud, Edges_ud, Nodes, CC_ud, TSpaths_ud

h. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes, CC_ud, TSpaths_ud

i. Predictors: (Constant), AvgGL_ud, Edges_ud, Nodes, CC_ud, TSpaths_ud, Den_ud

j. Predictors: (Constant), Edges_ud, Nodes, CC_ud, TSpaths_ud, Den_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	.012	.000		58.669	.000		
	AvgGL_ud	-.132	.019	-.594	-6.844	.000	1.000	1.000
2	(Constant)	.010	.001		15.771	.000		

	AvgGL_ud	-.197	.026	-.882	-7.615	.000	.496	2.016
	R_ud	.260	.074	.406	3.505	.001	.496	2.016
3	(Constant)	.010	.001		16.334	.000		
	AvgGL_ud	-.215	.026	-.966	-8.290	.000	.458	2.183
	R_ud	.244	.072	.381	3.387	.001	.493	2.030
	Edges_ud	.034	.013	.231	2.619	.010	.799	1.252
4	(Constant)	.011	.001		18.313	.000		
	AvgGL_ud	-.202	.024	-.908	-8.519	.000	.451	2.218
	R_ud	.161	.068	.251	2.361	.021	.454	2.203
	Edges_ud	.225	.045	1.546	4.965	.000	.053	18.929
	Nodes	-.214	.049	-1.333	-4.369	.000	.055	18.184
5	(Constant)	.011	.001		19.024	.000		
	AvgGL_ud	-.207	.023	-.931	-9.128	.000	.449	2.230
	R_ud	.185	.065	.288	2.820	.006	.447	2.235
	Edges_ud	.272	.046	1.867	5.919	.000	.047	21.331
	Nodes	-.266	.050	-1.659	-5.346	.000	.048	20.662
	CC_ud	-.005	.002	-.226	-3.031	.003	.837	1.194
6	(Constant)	.021	.002		8.950	.000		
	AvgGL_ud	-.086	.036	-.384	-2.401	.019	.151	6.610
	R_ud	.101	.063	.158	1.605	.112	.402	2.485
	Edges_ud	.460	.061	3.158	7.492	.000	.022	45.794
	Nodes	-.267	.045	-1.664	-5.878	.000	.048	20.662
	CC_ud	-.007	.002	-.311	-4.381	.000	.769	1.300

	TSpaths_u d	-1.075	.256	-1.560	-4.191	.000	.028	35.711
7	(Constant)	.023	.002		11.328	.000		
	AvgGL_ud	-.050	.028	-.224	-1.774	.080	.247	4.046
	Edges_ud	.498	.057	3.416	8.688	.000	.026	39.107
	Nodes	-.282	.045	-1.759	-6.295	.000	.051	19.756
	CC_ud	-.007	.002	-.309	-4.310	.000	.769	1.300
	TSpaths_u d	-1.205	.246	-1.749	-4.908	.000	.031	32.126
8	(Constant)	.030	.003		10.014	.000		
	AvgGL_ud	.001	.031	.003	.021	.983	.183	5.465
	Edges_ud	.652	.072	4.471	8.988	.000	.014	69.652
	Nodes	-.454	.069	-2.833	-6.629	.000	.019	51.395
	CC_ud	-.007	.002	-.312	-4.587	.000	.769	1.300
	TSpaths_u d	-1.778	.294	-2.580	-6.056	.000	.020	51.091
	Den_ud	-.136	.042	-.773	-3.202	.002	.061	16.392
9	(Constant)	.030	.002		17.823	.000		
	Edges_ud	.651	.054	4.464	12.073	.000	.026	38.957
	Nodes	-.454	.064	-2.830	-7.108	.000	.022	45.156
	CC_ud	-.007	.001	-.311	-4.737	.000	.812	1.231
	TSpaths_u d	-1.772	.140	-2.572	-12.666	.000	.085	11.752
	Den_ud	-.135	.036	-.770	-3.731	.000	.082	12.137

a. Dependent Variable: EVCud_TSpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	.133 ^b	1.406	.163	.151	.831	1.203	.831
	Edges_ud	.257 ^b	2.753	.007	.286	.804	1.243	.804
	Den_ud	-.045 ^b	-.477	.634	-.052	.859	1.164	.859
	CC_ud	-.023 ^b	-.262	.794	-.028	.997	1.003	.997
	GD_ud	.013 ^b	.112	.911	.012	.566	1.767	.566
	Tpaths_ud	.072 ^b	.647	.519	.070	.608	1.645	.608
	TSpaths_ud	.194 ^b	1.712	.091	.183	.574	1.742	.574
	AvgPL_ud	.024 ^b	.207	.836	.022	.558	1.791	.558
	PL_TpudN	-.051 ^b	-.583	.562	-.063	.979	1.021	.979
	PL_TSpud N	.160 ^b	1.758	.082	.187	.887	1.128	.887
	S_ud	.007 ^b	.074	.941	.008	.979	1.021	.979
	R_ud	.406 ^b	3.505	.001	.355	.496	2.016	.496
	SMSP_ud	-.007 ^b	-.077	.939	-.008	.999	1.001	.999
2	Nodes	.131 ^c	1.472	.145	.159	.831	1.203	.452
	Edges_ud	.231 ^c	2.619	.010	.275	.799	1.252	.458

	Den_ud	-.037 ^c	-.424	.673	-.046	.859	1.164	.463
	CC_ud	-.088 ^c	-1.058	.293	-.115	.951	1.051	.473
	GD_ud	-.086 ^c	-.763	.447	-.083	.532	1.880	.411
	Tpaths_ud	-.012 ^c	-.109	.913	-.012	.576	1.735	.423
	TSpaths_ud	.198 ^c	1.862	.066	.199	.574	1.743	.360
	AvgPL_ud	-.080 ^c	-.706	.482	-.077	.521	1.919	.410
	PL_TpudN	-.060 ^c	-.729	.468	-.079	.978	1.022	.489
	PL_TSpud N	.101 ^c	1.147	.255	.124	.849	1.178	.475
	S_ud	-.042 ^c	-.498	.620	-.054	.953	1.049	.483
	SMSP_ud	-.077 ^c	-.917	.362	-.100	.946	1.058	.470
3	Nodes	-1.333 ^d	-4.369	.000	-.432	.055	18.184	.053
	Den_ud	.541 ^d	3.597	.001	.367	.241	4.154	.224
	CC_ud	-.088 ^d	-1.090	.279	-.119	.951	1.051	.452
	GD_ud	-.187 ^d	-1.665	.100	-.180	.484	2.064	.402
	Tpaths_ud	-.227 ^d	-1.862	.066	-.200	.405	2.466	.405
	TSpaths_ud	-1.263 ^d	-2.933	.004	-.306	.031	32.475	.031
	AvgPL_ud	-.185 ^d	-1.630	.107	-.176	.472	2.118	.402
	PL_TpudN	-.048 ^d	-.598	.552	-.065	.975	1.026	.453
	PL_TSpud N	.055 ^d	.623	.535	.068	.808	1.238	.457
	S_ud	.437 ^d	3.156	.002	.327	.293	3.415	.245
	SMSP_ud	-.096 ^d	-1.186	.239	-.129	.938	1.066	.446
4	Den_ud	.119 ^e	.514	.609	.057	.096	10.382	.022

	CC_ud	-.226 ^e	-3.031	.003	-.317	.837	1.194	.047
	GD_ud	.019 ^e	.160	.873	.018	.387	2.585	.044
	Tpaths_ud	-.005 ^e	-.041	.967	-.005	.322	3.109	.044
	TSpaths_ud	-1.095 ^e	-2.777	.007	-.293	.030	32.806	.027
	AvgPL_ud	.025 ^e	.209	.835	.023	.376	2.657	.044
	PL_TpudN	-.044 ^e	-.600	.550	-.066	.975	1.026	.053
	PL_TSpud N	.024 ^e	.302	.763	.033	.802	1.248	.052
	S_ud	.240 ^e	1.668	.099	.181	.243	4.117	.046
	SMSP_ud	-.224 ^e	-3.001	.004	-.315	.841	1.189	.047
5	Den_ud	.273 ^f	1.217	.227	.134	.092	10.874	.022
	GD_ud	.042 ^f	.379	.706	.042	.385	2.597	.039
	Tpaths_ud	.018 ^f	.146	.884	.016	.320	3.121	.039
	TSpaths_ud	-1.560 ^f	-4.191	.000	-.422	.028	35.711	.022
	AvgPL_ud	.049 ^f	.437	.664	.048	.374	2.671	.039
	PL_TpudN	-.039 ^f	-.557	.579	-.062	.974	1.027	.047
	PL_TSpud N	.031 ^f	.401	.690	.045	.801	1.248	.046
	S_ud	.386 ^f	2.787	.007	.296	.224	4.462	.043
	SMSP_ud	-.049 ^f	-.114	.910	-.013	.026	38.433	.026
6	Den_ud	-.796 ^g	-2.714	.008	-.290	.042	23.885	.009
	GD_ud	-.016 ^g	-.162	.872	-.018	.378	2.648	.021
	Tpaths_ud	-.010 ^g	-.091	.927	-.010	.319	3.133	.021
	AvgPL_ud	-.008 ^g	-.077	.938	-.009	.368	2.719	.021

	PL_TpudN	-.042 ^g	-.666	.507	-.074	.974	1.027	.022
	PL_TSpud N	.110 ^g	1.539	.128	.170	.752	1.330	.022
	S_ud	-.091 ^g	-.439	.662	-.049	.092	10.881	.011
	SMSP_ud	.142 ^g	.363	.717	.041	.026	38.962	.022
7	Den_ud	-.773 ^h	-3.202	.002	-.335	.061	16.392	.014
	GD_ud	.033 ^h	.337	.737	.037	.418	2.394	.026
	Tpaths_ud	.044 ^h	.417	.678	.046	.355	2.816	.026
	AvgPL_ud	.043 ^h	.440	.661	.049	.411	2.433	.026
	PL_TpudN	-.039 ^h	-.613	.542	-.068	.975	1.026	.026
	PL_TSpud N	.130 ^h	1.867	.066	.203	.795	1.258	.026
	S_ud	-.070 ^h	-.339	.736	-.038	.092	10.841	.012
	R_ud	.158 ^h	1.605	.112	.176	.402	2.485	.022
	SMSP_ud	.226 ^h	.578	.565	.064	.026	38.201	.026
8	GD_ud	-.059 ⁱ	-.614	.541	-.068	.381	2.623	.014
	Tpaths_ud	-.058 ⁱ	-.554	.581	-.062	.322	3.102	.014
	AvgPL_ud	-.057 ⁱ	-.574	.567	-.064	.370	2.704	.014
	PL_TpudN	-.024 ⁱ	-.394	.694	-.044	.969	1.032	.014
	PL_TSpud N	.115 ⁱ	1.735	.087	.190	.791	1.265	.014
	S_ud	.035 ⁱ	.174	.862	.019	.090	11.149	.011
	R_ud	-.016 ⁱ	-.140	.889	-.016	.276	3.620	.009
	SMSP_ud	-.476 ⁱ	-1.125	.264	-.125	.020	50.655	.013

9	GD_ud	-.038 ^j	-.485	.629	-.054	.586	1.707	.021
	Tpaths_ud	-.041 ^j	-.463	.644	-.051	.445	2.247	.021
	AvgPL_ud	-.035 ^j	-.449	.655	-.050	.580	1.725	.021
	PL_TpudN	-.024 ^j	-.397	.692	-.044	.974	1.027	.022
	PL_TSpud N	.115 ^j	1.746	.085	.190	.791	1.265	.022
	S_ud	.012 ^j	.112	.911	.012	.311	3.213	.021
	R_ud	-.006 ^j	-.075	.940	-.008	.655	1.526	.021
	SMSP_ud	-.475 ^j	-1.130	.262	-.125	.020	50.569	.019
	AvgGL_ud	.003 ^j	.021	.983	.002	.183	5.465	.014

a. Dependent Variable: EVCud_TSpudN

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

c. Predictors in the Model: (Constant), AvgGL_ud, R_ud

d. Predictors in the Model: (Constant), AvgGL_ud, R_ud, Edges_ud

e. Predictors in the Model: (Constant), AvgGL_ud, R_ud, Edges_ud, Nodes

f. Predictors in the Model: (Constant), AvgGL_ud, R_ud, Edges_ud, Nodes, CC_ud

g. Predictors in the Model: (Constant), AvgGL_ud, R_ud, Edges_ud, Nodes, CC_ud, TSpudN

h. Predictors in the Model: (Constant), AvgGL_ud, Edges_ud, Nodes, CC_ud, TSpudN

i. Predictors in the Model: (Constant), AvgGL_ud, Edges_ud, Nodes, CC_ud, TSpudN, Den_ud

j. Predictors in the Model: (Constant), Edges_ud, Nodes, CC_ud, TSpudN, Den_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions						
				(Constant)	AvgGL_ud	R_ud	Edges_ud	Nodes	CC_ud	TSpaths_ud
1	1	1.983	1.000	.01	.01					
	2	.017	10.937	.99	.99					
2	1	2.981	1.000	.00	.00	.00				
	2	.018	12.821	.05	.57	.01				
	3	.001	50.133	.95	.42	.99				
3	1	3.934	1.000	.00	.00	.00	.00			
	2	.048	9.060	.01	.01	.00	.91			
	3	.017	15.164	.04	.62	.00	.09			
	4	.001	57.647	.95	.38	.99	.00			
4	1	4.910	1.000	.00	.00	.00	.00	.00		
	2	.069	8.451	.01	.02	.00	.02	.01		
	3	.018	16.709	.04	.58	.00	.00	.00		
	4	.002	46.360	.04	.09	.10	.65	.66		
	5	.001	71.696	.91	.31	.89	.33	.33		
5	1	5.198	1.000	.00	.00	.00	.00	.00	.01	
	2	.713	2.700	.00	.00	.00	.00	.00	.83	
	3	.068	8.739	.01	.02	.00	.02	.01	.01	
	4	.018	17.193	.04	.58	.00	.00	.00	.00	
	5	.002	51.918	.05	.10	.13	.67	.68	.16	

	6	.001	73.802	.90	.30	.86	.31	.31	.00	
6	1	6.186	1.000	.00	.00	.00	.00	.00	.00	.00
	2	.721	2.930	.00	.00	.00	.00	.00	.76	.00
	3	.071	9.311	.00	.00	.00	.01	.01	.01	.00
	4	.019	18.153	.00	.20	.00	.00	.00	.00	.00
	5	.002	56.406	.00	.04	.16	.30	.61	.15	.00
	6	.001	71.780	.01	.05	.66	.11	.37	.00	.01
	7	5.648E-5	330.935	.98	.71	.17	.58	.00	.08	.99
7	1	5.202	1.000	.00	.00		.00	.00	.01	.00
	2	.716	2.696	.00	.00		.00	.00	.76	.00
	3	.062	9.196	.00	.01		.01	.01	.01	.00
	4	.018	16.796	.00	.31		.00	.00	.00	.00
	5	.002	54.708	.00	.01		.48	.98	.13	.00
	6	6.781E-5	276.990	1.00	.67		.51	.00	.10	1.00
8	1	6.106	1.000	.00	.00		.00	.00	.01	.00
	2	.717	2.919	.00	.00		.00	.00	.76	.00
	3	.152	6.344	.00	.00		.00	.00	.02	.00
	4	.022	16.763	.00	.23		.00	.00	.00	.00
	5	.003	43.115	.01	.00		.14	.03	.16	.00
	6	.001	82.767	.01	.04		.13	.67	.00	.02
	7	3.513E-5	416.901	.99	.73		.73	.30	.06	.98

9	1	5.135	1.000	.00			.00	.00	.01	.00
	2	.709	2.691	.00			.00	.00	.80	.00
	3	.152	5.818	.00			.00	.00	.02	.00
	4	.003	39.259	.02			.24	.03	.16	.01
	5	.001	70.411	.01			.18	.67	.00	.08
	6	.000	199.249	.98			.57	.30	.01	.91

Collinearity Diagnostics^a

		Variance Proportions
Model	Dimension	Den_ud
1	1	
	2	
2	1	
	2	
	3	
3	1	
	2	
	3	
	4	
4	1	
	2	
	3	
	4	

	5	
5	1	
	2	
	3	
	4	
	5	
	6	
6	1	
	2	
	3	
	4	
	5	
	6	
	7	
7	1	
	2	
	3	
	4	
	5	
	6	
8	1	.00
	2	.00
	3	.01

	4	.01
	5	.16
	6	.33
	7	.50
9	1	.00
	2	.00
	3	.01
	4	.23
	5	.35
	6	.40

a. Dependent Variable: EVCud_TSpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00929869338 8700	.01256369333 7142	.01100028566 0988	.00037573681 7502
Std. Predicted Value	-4.529	4.161	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00935983937 2337	.01233228482 3060	.01100169449 2089	.00036551119 1774

Residual	- .00111810478 8475	.00072588602 7794	.00000000000 0000	.00023883704 1716
Std. Residual	-4.545	2.951	.000	.971
Stud. Residual	-4.598	3.108	-.002	1.024
Deleted Residual	- .00114439718 8909	.00080556113 9714	- .00000140883 1102	.00026857108 5043
Stud. Deleted Residual	-5.305	3.289	-.013	1.088
Mahal. Distance	.383	55.045	4.943	8.606
Cook's Distance	.000	.444	.024	.071
Centered Leverage Value	.004	.633	.057	.099

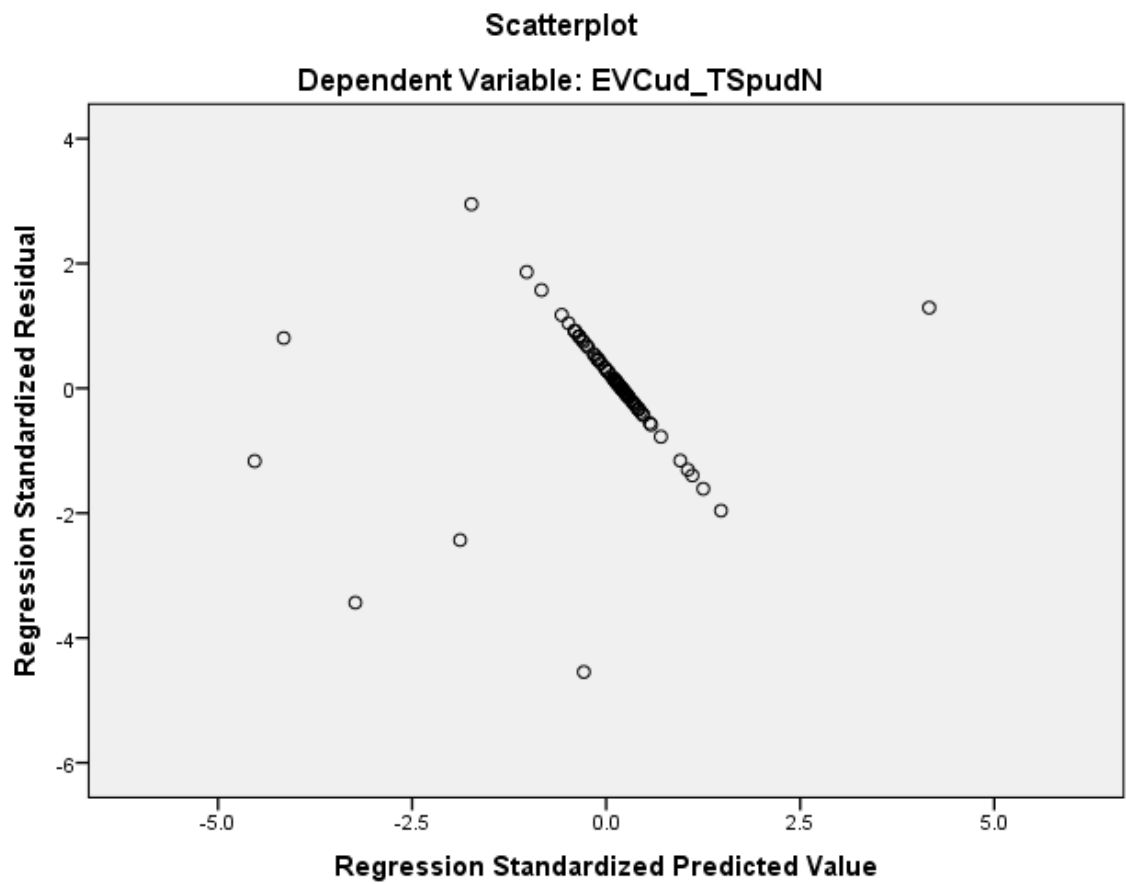
Residuals Statistics^a

	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: EVCud_TSpudN

Charts



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

Notes

Output Created	05-JUN-2015 18:44:45
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 ECud /METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.23
	Elapsed Time		00:00:00.24
	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	TSpaths_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	.380 ^a	.145	.135	.00243122890 3248

a. Predictors: (Constant), TSpaths_ud

b. Dependent Variable: ECud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	15.045	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: ECud

b. Predictors: (Constant), TSpaths_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.025	.004		6.814	.000
	TSpaths_ud	-1.314	.339	-.380	-3.879	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpaths_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	.072 ^b	.645	.521	.069	.785	1.273
	Tpaths_ud	.094 ^b	.782	.437	.083	.661	1.514
	AvgPL_ud	.081 ^b	.732	.466	.078	.787	1.270
	AvgGL_ud	.177 ^b	1.418	.160	.149	.613	1.631

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_ud	.785	
	Tpaths_ud	.661	
	AvgPL_ud	.787	

AvgGL_ud	.613
----------	------

a. Dependent Variable: ECud

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	TSpats_ud
1	1	1.998	1.000	.00	.00
	2	.002	29.253	1.00	1.00

a. Dependent Variable: ECud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00615270202 9794	.01267364434 8979	.01098901098 9011	.00099403996 3444
Std. Predicted Value	-4.865	1.695	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00825660210 1028	.01269738841 8019	.01101118800 6538	.00090925899 6631

Residual	- .01049986574 7988	.00306426151 6556	.00000000000 0000	.00241768434 7146
Std. Residual	-4.319	1.260	.000	.994
Stud. Residual	-4.344	1.308	-.004	1.015
Deleted Residual	- .01062109321 3558	.00329977110 9596	- .00002217701 7527	.00252910953 0170
Stud. Deleted Residual	-4.866	1.313	-.022	1.079
Mahal. Distance	.000	23.671	.989	2.615
Cook's Distance	.000	1.367	.025	.146
Centered Leverage Value	.000	.263	.011	.029

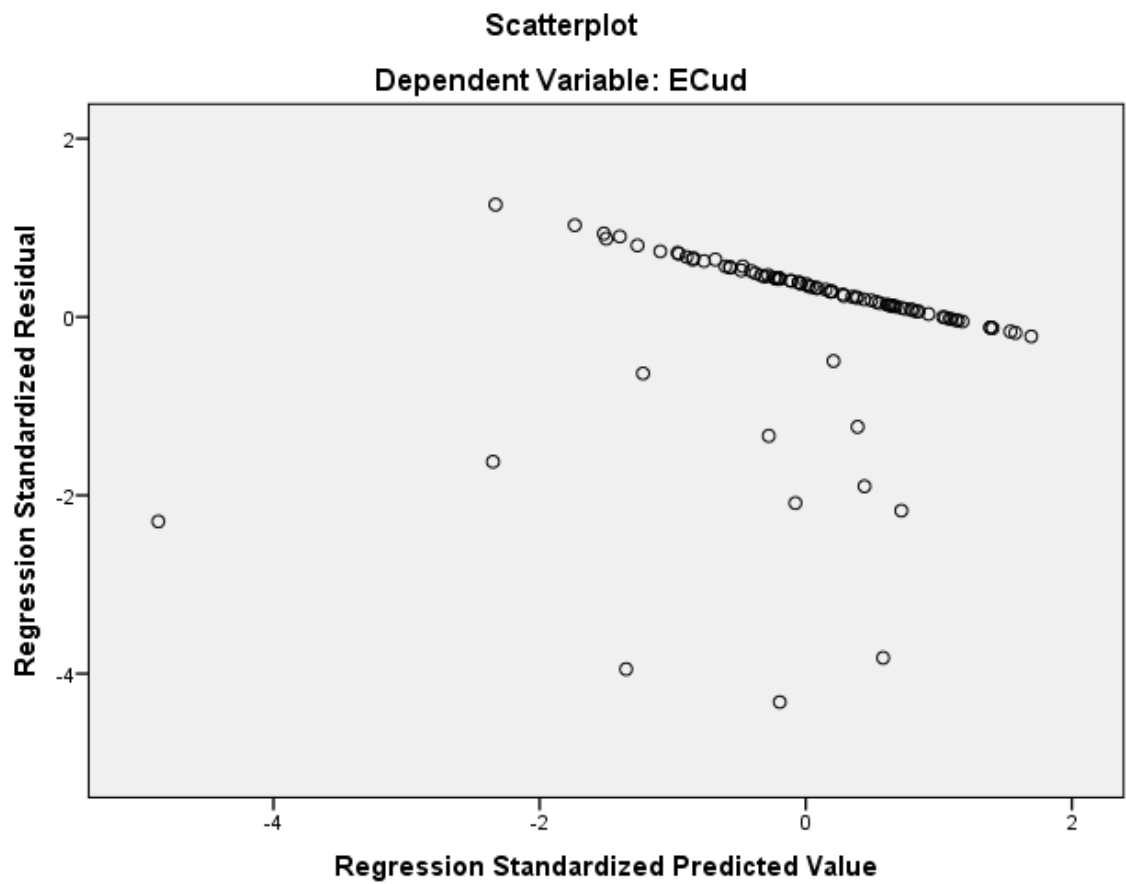
Residuals Statistics^a

	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: ECud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

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

/NOORIGIN

/DEPENDENT PL_EVCudN

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	05-JUN-2015 18:45:11	
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_EVCudN /METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.20
	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	GD_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).

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

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.454 ^a	.206	.197	.00134606705 8742
2	.599 ^b	.359	.345	.00121613284 7867
3	.624 ^c	.389	.368	.00119386045 8476

a. Predictors: (Constant), GD_ud

b. Predictors: (Constant), GD_ud, AvgGL_ud

c. Predictors: (Constant), GD_ud, AvgGL_ud, TSpats_ud

d. Dependent Variable: PL_EVCudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	23.088	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	24.659	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	18.497	.000 ^d
	Residual	.000	87	.000		
	Total	.000	90			

a. Dependent Variable: PL_EVCudN

b. Predictors: (Constant), GD_ud

c. Predictors: (Constant), GD_ud, AvgGL_ud

d. Predictors: (Constant), GD_ud, AvgGL_ud, TSpats_ud

Coefficients^a

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

1	(Constant)	.013	.000		27.367	.000
	GD_ud	-.202	.042	-.454	-4.805	.000
2	(Constant)	.011	.001		18.555	.000
	GD_ud	-.363	.052	-.816	-7.018	.000
	AvgGL_ud	.338	.074	.533	4.586	.000
3	(Constant)	.007	.002		3.745	.000
	GD_ud	-.370	.051	-.833	-7.278	.000
	AvgGL_ud	.257	.082	.406	3.135	.002
	TSpaths_ud	.442	.213	.223	2.077	.041

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_ud	1.000	1.000
2	(Constant)		
	GD_ud	.538	1.857
	AvgGL_ud	.538	1.857
3	(Constant)		
	GD_ud	.536	1.867
	AvgGL_ud	.418	2.392
	TSpaths_ud	.610	1.639

a. Dependent Variable: PL_EVCudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_ud	.398 ^b	.952	.344	.101	.051	19.532
	TSpaths_ud	.382 ^b	3.850	.000	.380	.785	1.273
	AvgPL_ud	1.695 ^b	1.291	.200	.136	.005	194.489
	AvgGL_ud	.533 ^b	4.586	.000	.439	.538	1.857
2	Tpaths_ud	.416 ^c	1.104	.273	.118	.051	19.534
	TSpaths_ud	.223 ^c	2.077	.041	.217	.610	1.639
	AvgPL_ud	1.222 ^c	1.023	.309	.109	.005	196.016
3	Tpaths_ud	-.365 ^d	-.652	.516	-.070	.022	44.522
	AvgPL_ud	1.372 ^d	1.170	.245	.125	.005	196.709

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_ud	.051
	TSpaths_ud	.785
	AvgPL_ud	.005

	AvgGL_ud	.538
2	Tpaths_ud	.049
	TSpaths_ud	.418
	AvgPL_ud	.005
3	Tpaths_ud	.022
	AvgPL_ud	.005

a. Dependent Variable: PL_EVCudN

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

c. Predictors in the Model: (Constant), GD_ud, AvgGL_ud

d. Predictors in the Model: (Constant), GD_ud, AvgGL_ud, TSpaths_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	GD_ud	AvgGL_ud
1	1	1.956	1.000	.02	.02	
	2	.044	6.690	.98	.98	
2	1	2.940	1.000	.00	.01	.00
	2	.044	8.201	.49	.54	.00
	3	.016	13.643	.50	.46	1.00
3	1	3.928	1.000	.00	.00	.00
	2	.054	8.524	.02	.49	.01

3	.016	15.588	.02	.51	.81
4	.002	48.318	.96	.00	.18

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		TSpats_ud
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.01
	3	.00
	4	.99

a. Dependent Variable: PL_EVCudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00785764399 9159	.01462273206 5618	.01098901098 9011	.00093743085 1509

Std. Predicted Value	-3.340	3.876	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00646680453 7922	.01277890149 5039	.01094338437 1609	.00092656703 7395
Residual	- .00224076956 5105	.00632577715 4416	.00000000000 0000	.00117379414 7698
Std. Residual	-1.877	5.299	.000	.983
Stud. Residual	-1.955	5.852	.017	1.093
Deleted Residual	- .00243859691 5454	.00865619722 7538	.00004562661 7402	.00147602969 1977
Stud. Deleted Residual	-1.988	7.472	.050	1.279
Mahal. Distance	.061	34.095	2.967	5.336
Cook's Distance	.000	5.123	.083	.570
Centered Leverage Value	.001	.379	.033	.059

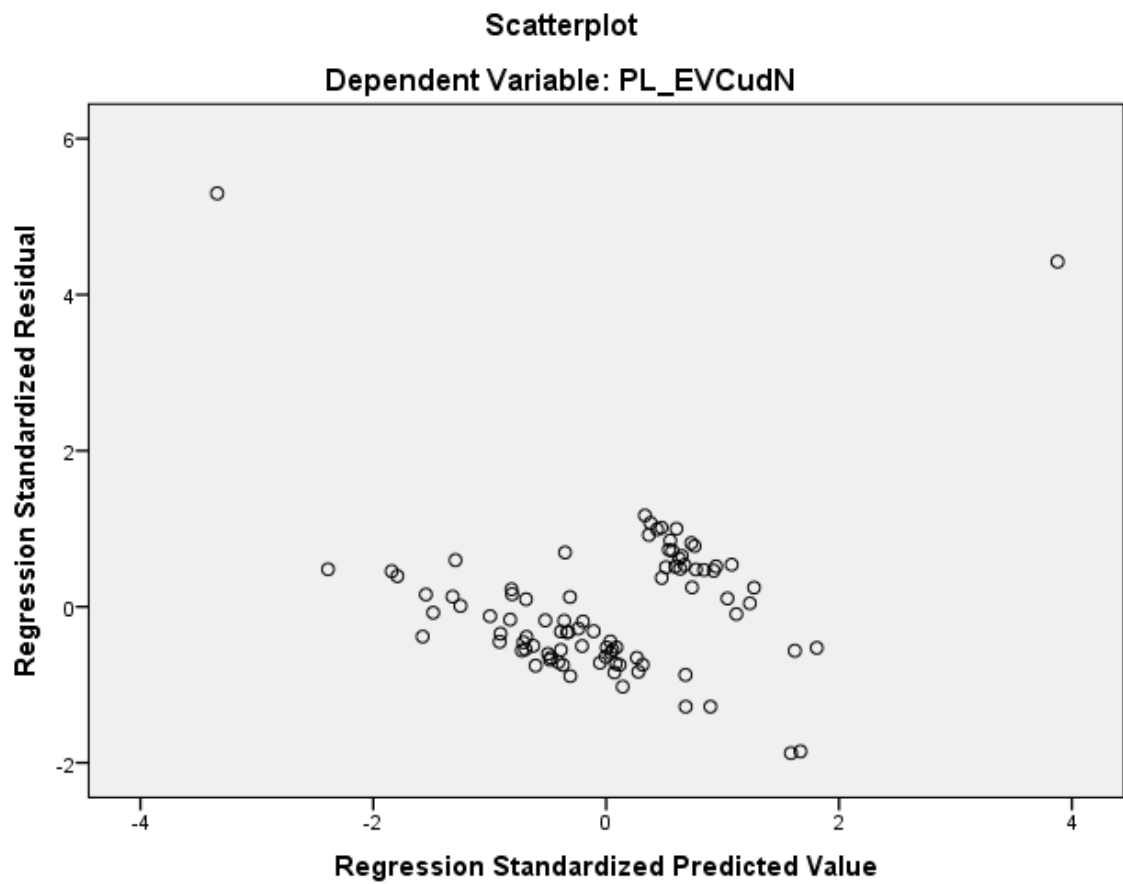
Residuals Statistics^a

	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_EVCudN

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

Notes

Output Created		05-JUN-2015 18:45:39
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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 GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.30
	Elapsed Time	00:00:00.31
	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
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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	AvgGL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCud_TpudN

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
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1	.341 ^a	.116	.106	.00457568605 3932
2	.968 ^b	.937	.935	.00122951093 1874
3	.971 ^c	.943	.941	.00117190063 9602

a. Predictors: (Constant), GD_ud

b. Predictors: (Constant), GD_ud, AvgPL_ud

c. Predictors: (Constant), GD_ud, AvgPL_ud, AvgGL_ud

d. Dependent Variable: EVCud_TpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	11.725	.001 ^b
	Residual	.002	89	.000		
	Total	.002	90			
2	Regression	.002	2	.001	653.518	.000 ^c
	Residual	.000	88	.000		
	Total	.002	90			
3	Regression	.002	3	.001	482.855	.000 ^d
	Residual	.000	87	.000		

Total	.002	90			
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a. Dependent Variable: EVCud_TpudN

b. Predictors: (Constant), GD_ud

c. Predictors: (Constant), GD_ud, AvgPL_ud

d. Predictors: (Constant), GD_ud, AvgPL_ud, AvgGL_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.006	.002		3.425	.001
	GD_ud	.489	.143	.341	3.424	.001
2	(Constant)	.005	.000		10.673	.000
	GD_ud	18.540	.535	12.941	34.659	.000
	AvgPL_ud	-17.969	.531	-12.633	-33.833	.000
3	(Constant)	.003	.001		5.815	.000
	GD_ud	18.575	.510	12.965	36.423	.000
	AvgPL_ud	-18.110	.508	-12.732	-35.634	.000
	AvgGL_ud	.224	.071	.110	3.141	.002

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_ud	1.000	1.000
2	(Constant)		
	GD_ud	.005	194.489
	AvgPL_ud	.005	194.489
3	(Constant)		
	GD_ud	.005	194.581
	AvgPL_ud	.005	196.016
	AvgGL_ud	.534	1.872

a. Dependent Variable: EVCud_TpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_ud	-2.283 ^b	-6.172	.000	-.550	.051	19.532
	TSpaths_ud	.051 ^b	.455	.650	.048	.785	1.273
	AvgPL_ud	-12.633 ^b	-33.833	.000	-.964	.005	194.489
	AvgGL_ud	.000 ^b	-.001	.999	.000	.538	1.857

2	Tpaths_ud	-.137 ^c	-.973	.333	-.104	.036	27.842
	TSpaths_ud	.041 ^c	1.359	.178	.144	.785	1.273
	AvgGL_ud	.110 ^c	3.141	.002	.319	.534	1.872
3	Tpaths_ud	-.108 ^d	-.800	.426	-.086	.036	27.980
	TSpaths_ud	-.003 ^d	-.084	.933	-.009	.608	1.645

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_ud	.051
	TSpaths_ud	.785
	AvgPL_ud	.005
	AvgGL_ud	.538
2	Tpaths_ud	.004
	TSpaths_ud	.005
	AvgGL_ud	.005
3	Tpaths_ud	.004
	TSpaths_ud	.005

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, AvgGL_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	GD_ud	AvgPL_ud
1	1	1.956	1.000	.02	.02	
	2	.044	6.690	.98	.98	
2	1	2.941	1.000	.01	.00	.00
	2	.058	7.094	.98	.00	.00
	3	.000	115.226	.01	1.00	1.00
3	1	3.921	1.000	.00	.00	.00
	2	.061	7.987	.36	.00	.00
	3	.017	15.251	.62	.00	.00
	4	.000	133.252	.01	1.00	1.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		AvgGL_ud
1	1	
	2	
2	1	
	2	

	3	
3	1	.00
	2	.02
	3	.98
	4	.00

a. Dependent Variable: EVCud_TpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00682382984 0869	.01861676014 9598	.01098901098 9011	.00470152385 1705
Std. Predicted Value	-.886	1.622	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00692393910 1398	.01883464492 8575	.01099662329 7449	.00471155045 4152
Residual	- .00682382984 0869	.00389711721 8003	.00000000000 0000	.00115220342 7696
Std. Residual	-5.823	3.325	.000	.983
Stud. Residual	-5.907	3.370	-.003	1.006
Deleted Residual	- .00702179083 6006	.00400117645 0402	- .00000761230 8438	.00120909597 0343

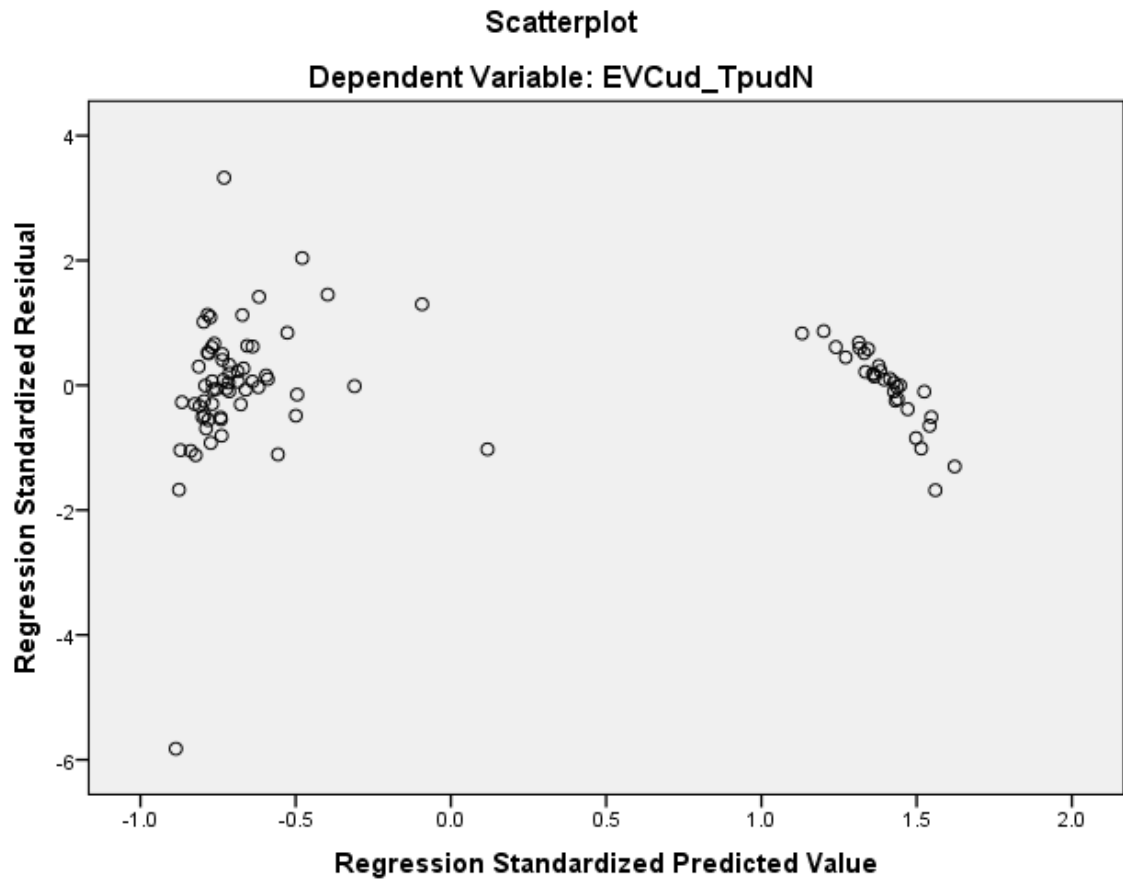
Stud. Deleted Residual	-7.588	3.593	-.019	1.134
Mahal. Distance	.508	22.346	2.967	3.786
Cook's Distance	.000	.253	.013	.040
Centered Leverage Value	.006	.248	.033	.042

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: 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

Notes

Output Created		05-JUN-2015 18:46:10
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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 EVCud_TSpudN /METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time		00:00:00.27
	Elapsed Time		00:00:00.24
	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
1	AvgGL_ud		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: EVCud_TSpudN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.597 ^a	.356	.349	.00036703291 5327
2	.627 ^b	.394	.380	.00035824989 4772

a. Predictors: (Constant), AvgGL_ud

b. Predictors: (Constant), AvgGL_ud, TSpats_ud

c. Dependent Variable: EVCud_TSpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	49.238	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	28.550	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: EVCud_TSpudN

b. Predictors: (Constant), AvgGL_ud

c. Predictors: (Constant), AvgGL_ud, TSpats_ud

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.

		B	Std. Error	Beta		
1	(Constant)	.012	.000		66.849	.000
	AvgGL_ud	-.114	.016	-.597	-7.017	.000
2	(Constant)	.011	.001		18.551	.000
	AvgGL_ud	-.144	.020	-.750	-7.077	.000
	TSpaths_ud	.148	.064	.247	2.328	.022

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_ud	1.000	1.000
2	(Constant)		
	AvgGL_ud	.613	1.631
	TSpaths_ud	.613	1.631

a. Dependent Variable: EVCud_TSpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	-.006 ^b	-.048	.962	-.005	.538	1.857

	Tpaths_ud	.067 ^b	.590	.557	.063	.564	1.772
	TSpaths_ud	.247 ^b	2.328	.022	.241	.613	1.631
	AvgPL_ud	.003 ^b	.028	.977	.003	.534	1.871
2	GD_ud	-.024 ^c	-.213	.832	-.023	.536	1.867
	Tpaths_ud	-.009 ^c	-.077	.939	-.008	.516	1.938
	AvgPL_ud	-.014 ^c	-.120	.904	-.013	.532	1.879

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_ud	.538
	Tpaths_ud	.564
	TSpaths_ud	.613
	AvgPL_ud	.534
2	GD_ud	.418
	Tpaths_ud	.479
	AvgPL_ud	.414

a. Dependent Variable: EVCud_TSpudN

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 Index	Variance Proportions		
				(Constant)	AvgGL_ud	TSpahs_ud
1	1	1.978	1.000	.01	.01	
	2	.022	9.416	.99	.99	
2	1	2.973	1.000	.00	.00	.00
	2	.025	10.870	.04	.70	.01
	3	.002	41.997	.96	.30	.99

a. Dependent Variable: EVCud_TSpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00946854054 9278	.01140268612 6530	.01098901098 9011	.00028535092 5585
Std. Predicted Value	-5.328	1.450	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00926871970 2959	.01143050659 4479	.01098767383 6624	.00029295448 7479
Residual	- .00161751417 9088	.00174629734 8291	.00000000000 0000	.00035424697 7014
Std. Residual	-4.515	4.875	.000	.989

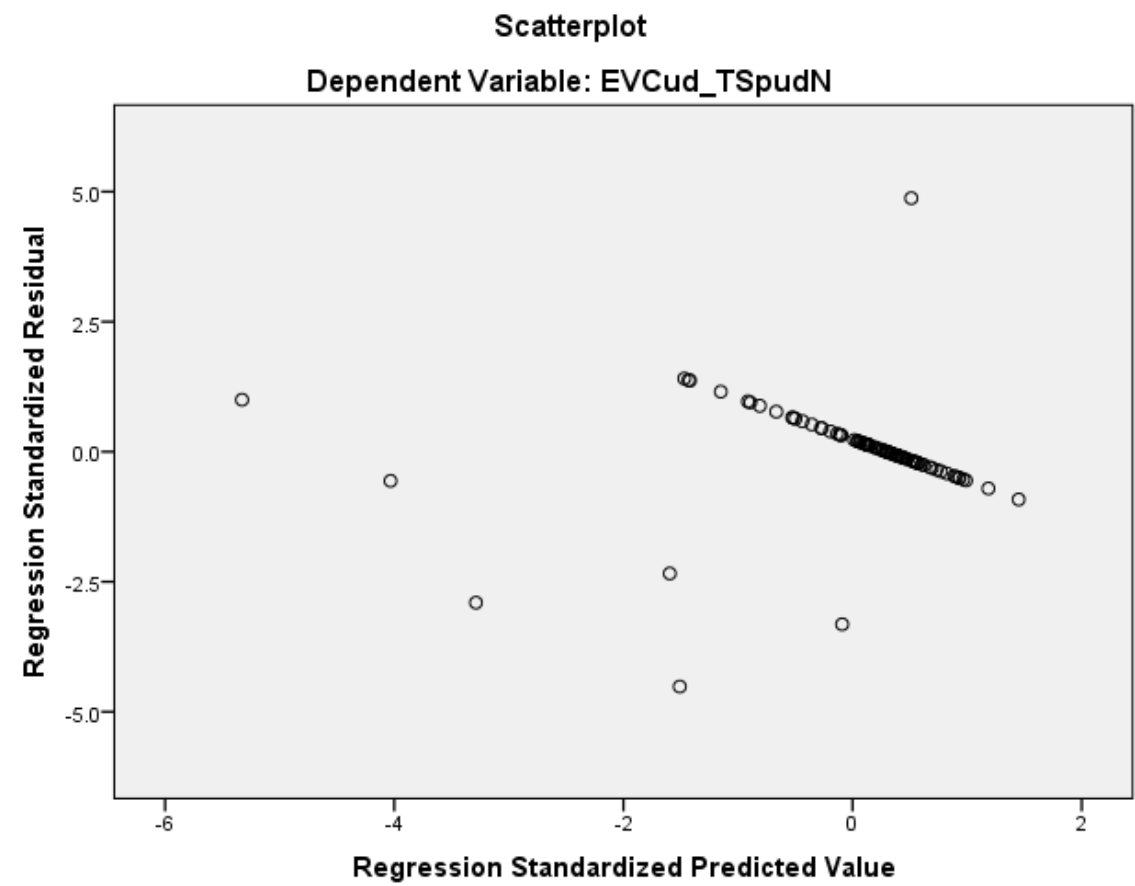
Stud. Residual	-4.600	4.951	.001	1.016
Deleted Residual	-	.00180119578	.00000133715	.00037489281
	.00167886004	7266	2387	5151
	7832			
Stud. Deleted Residual	-5.248	5.795	-.001	1.112
Mahal. Distance	.012	31.254	1.978	4.557
Cook's Distance	.000	.508	.021	.074
Centered Leverage Value	.000	.347	.022	.051

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: EVCud_TSpudN

Charts



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.

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.
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	Memory Required	6432 bytes
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Variables Created or Modified	COO_15	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: ECud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.209 ^a	.044	.033	.002343425389203

a. Predictors: (Constant), TSpaths_ud

b. Dependent Variable: ECud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	4.032	.048 ^b
	Residual	.000	88	.000		
	Total	.001	89			

a. Dependent Variable: ECud

b. Predictors: (Constant), TSpats_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.019	.004		4.661	.000
	TSpats_ud	-.765	.381	-.209	-2.008	.048

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpats_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	-.052 ^b	-.411	.682	-.044	.675	1.481
	Tpaths_ud	-.065 ^b	-.457	.649	-.049	.533	1.875
	AvgPL_ud	-.044 ^b	-.343	.732	-.037	.672	1.489
	AvgGL_ud	.153 ^b	1.180	.241	.125	.647	1.546

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_ud	.675
	Tpaths_ud	.533
	AvgPL_ud	.672
	AvgGL_ud	.647

a. Dependent Variable: ECud

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	33.819	1.00	1.00

a. Dependent Variable: ECud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00971265789 1214	.01205456163 7342	.01110468664 1681	.00049881223 0549
Std. Predicted Value	-2.791	1.904	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00950702372 9384	.01204967312 5148	.01110672031 7739	.00049700231 3997
Residual	- .01066540926 6949	.00201224046 7593	.00000000000 0000	.00233022288 7587
Std. Residual	-4.551	.859	.000	.994
Stud. Residual	-4.579	.904	.000	1.008
Deleted Residual	- .01079553924 5009	.00222895783 3722	- .00000203367 6058	.00239428327 5091

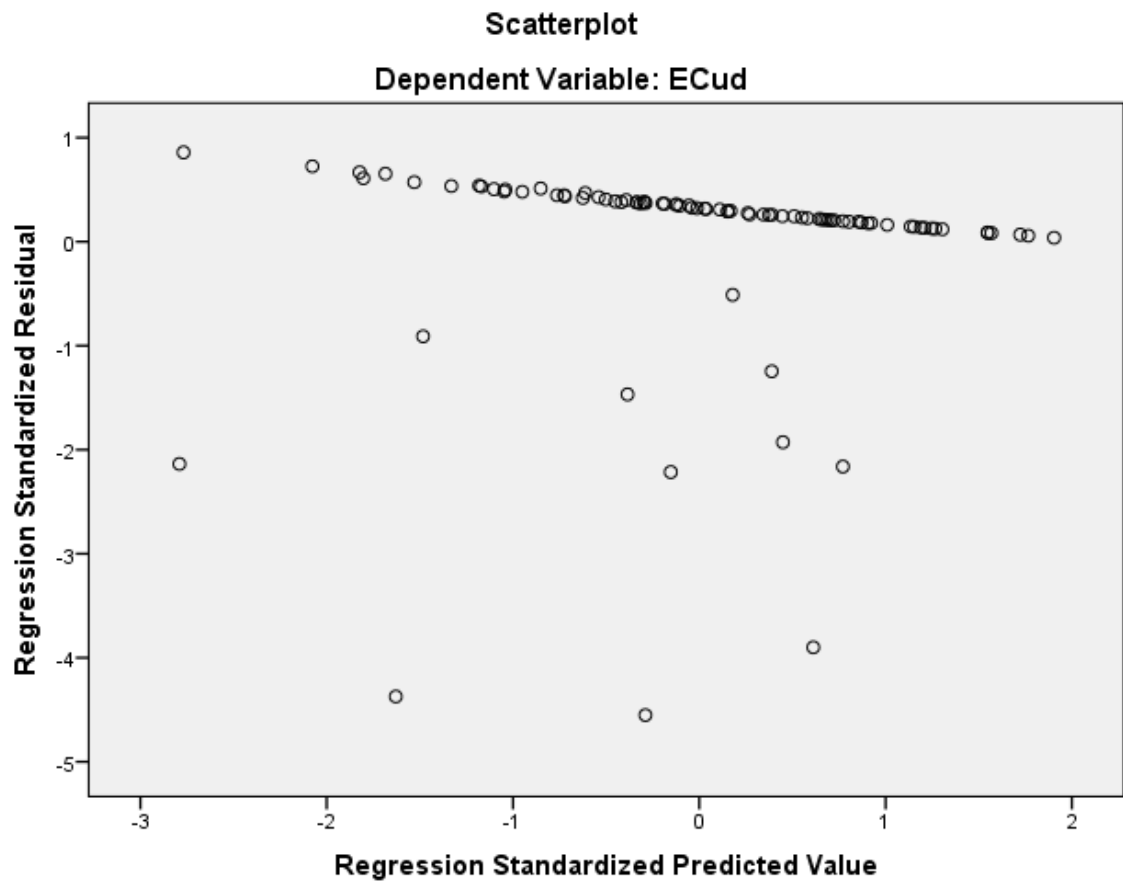
Stud. Deleted Residual	-5.216	.903	-.022	1.091
Mahal. Distance	.000	7.788	.989	1.430
Cook's Distance	.000	.425	.014	.056
Centered Leverage Value	.000	.088	.011	.016

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: ECud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

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

/NOORIGIN

/DEPENDENT PL_EVCudN

/METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	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_EVCudN /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		00:00:00.22
	Memory Required		6480 bytes
	Additional Memory Required for Residual Plots		0 bytes
Variables Created or Modified	COO_16		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).
2	AvgGL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	GD_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4		Tpaths_ud	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

5	TSpaths_ud	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: PL_EVCudN

Model Summary^f

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.744 ^a	.554	.549	.00075717075 8952
2	.805 ^b	.649	.640	.00067577956 7637
3	.823 ^c	.677	.666	.00065134621 5315
4	.818 ^d	.670	.662	.00065524653 7666
5	.834 ^e	.696	.686	.00063184639 6619

a. Predictors: (Constant), Tpaths_ud

b. Predictors: (Constant), Tpaths_ud, AvgGL_ud

c. Predictors: (Constant), Tpaths_ud, AvgGL_ud, GD_ud

d. Predictors: (Constant), AvgGL_ud, GD_ud

e. Predictors: (Constant), AvgGL_ud, GD_ud, TSpaths_ud

f. Dependent Variable: PL_EVCudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	107.926	.000 ^b
	Residual	.000	87	.000		
	Total	.000	88			
2	Regression	.000	2	.000	79.354	.000 ^c
	Residual	.000	86	.000		
	Total	.000	88			
3	Regression	.000	3	.000	59.470	.000 ^d
	Residual	.000	85	.000		
	Total	.000	88			
4	Regression	.000	2	.000	87.142	.000 ^e
	Residual	.000	86	.000		
	Total	.000	88			
5	Regression	.000	3	.000	64.973	.000 ^f
	Residual	.000	85	.000		
	Total	.000	88			

- a. Dependent Variable: PL_EVCudN
- b. Predictors: (Constant), Tpaths_ud
- c. Predictors: (Constant), Tpaths_ud, AvgGL_ud
- d. Predictors: (Constant), Tpaths_ud, AvgGL_ud, GD_ud
- e. Predictors: (Constant), AvgGL_ud, GD_ud
- f. Predictors: (Constant), AvgGL_ud, GD_ud, TSpaths_ud

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1	(Constant)	.015		39.973	.000
	Tpaths_ud	-.339	-.744	-10.389	.000
2	(Constant)	.014		37.539	.000
	Tpaths_ud	-.473	-1.039	-11.737	.000
	AvgGL_ud	.209	.427	4.819	.000
3	(Constant)	.013		27.582	.000
	Tpaths_ud	-.168	-.368	-1.426	.158
	AvgGL_ud	.245	.500	5.592	.000
	GD_ud	-.264	-.743	-2.752	.007
4	(Constant)	.012		36.799	.000

	AvgGL_ud	.248	.044	.508	5.658	.000
	GD_ud	-.393	.032	-1.107	-12.329	.000
5	(Constant)	.016	.001		12.538	.000
	AvgGL_ud	.289	.045	.590	6.440	.000
	GD_ud	-.374	.032	-1.053	-11.862	.000
	TSpaths_ud	-.362	.132	-.207	-2.736	.008

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_ud	1.000	1.000
2	(Constant)		
	Tpaths_ud	.521	1.919
	AvgGL_ud	.521	1.919
3	(Constant)		
	Tpaths_ud	.057	17.581
	AvgGL_ud	.475	2.105
	GD_ud	.052	19.213
4	(Constant)		
	AvgGL_ud	.477	2.097
	GD_ud	.477	2.097
5	(Constant)		

AvgGL_ud	.426	2.349
GD_ud	.453	2.205
TSpaths_ud	.626	1.598

a. Dependent Variable: PL_EVCudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	-.294 ^b	-.980	.330	-.105	.057	17.512
	TSpaths_ud	.115 ^b	1.188	.238	.127	.547	1.827
	AvgPL_ud	.091 ^b	.260	.796	.028	.042	23.618
	AvgGL_ud	.427 ^b	4.819	.000	.461	.521	1.919
2	GD_ud	-.743 ^c	-2.752	.007	-.286	.052	19.213
	TSpaths_ud	.023 ^c	.256	.798	.028	.520	1.923
	AvgPL_ud	-.520 ^c	-1.575	.119	-.168	.037	27.195
3	TSpaths_ud	-.299 ^d	-2.519	.014	-.265	.253	3.951
	AvgPL_ud	3.277 ^d	3.373	.001	.345	.004	278.863
4	TSpaths_ud	-.207 ^e	-2.736	.008	-.285	.626	1.598
	AvgPL_ud	1.413 ^e	1.718	.089	.183	.006	179.968
	Tpaths_ud	-.368 ^e	-1.426	.158	-.153	.057	17.581
5	AvgPL_ud	1.467 ^f	1.855	.067	.198	.006	180.073

Tpaths_ud	.398 ^f	1.009	.316	.109	.023	43.462
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Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_ud	.057
	TSpaths_ud	.547
	AvgPL_ud	.042
	AvgGL_ud	.521
2	GD_ud	.052
	TSpaths_ud	.412
	AvgPL_ud	.037
3	TSpaths_ud	.023
	AvgPL_ud	.004
4	TSpaths_ud	.426
	AvgPL_ud	.006
	Tpaths_ud	.052
5	AvgPL_ud	.006
	Tpaths_ud	.023

a. Dependent Variable: PL_EVCudN

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

c. Predictors in the Model: (Constant), Tpaths_ud, AvgGL_ud

d. Predictors in the Model: (Constant), Tpaths_ud, AvgGL_ud, GD_ud

e. Predictors in the Model: (Constant), AvgGL_ud, GD_ud

f. Predictors in the Model: (Constant), AvgGL_ud, GD_ud, TSpats_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Tpaths_ud	AvgGL_ud
1	1	1.975	1.000	.01	.01	
	2	.025	8.951	.99	.99	
2	1	2.960	1.000	.00	.00	.00
	2	.026	10.611	.95	.25	.07
	3	.014	14.639	.04	.75	.92
3	1	3.939	1.000	.00	.00	.00
	2	.044	9.481	.29	.00	.00
	3	.016	15.937	.19	.02	.96
	4	.002	49.273	.52	.98	.04
4	1	2.947	1.000	.00		.00
	2	.040	8.614	.57		.00
	3	.013	14.829	.43		1.00
5	1	3.935	1.000	.00		.00
	2	.050	8.893	.02		.02
	3	.014	16.849	.01		.91

4	.001	56.510	.97		.07
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Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		GD_ud	TSpaths_ud
1	1		
	2		
2	1		
	2		
	3		
3	1	.00	
	2	.03	
	3	.01	
	4	.96	
4	1	.00	
	2	.43	
	3	.56	
5	1	.00	.00
	2	.37	.01
	3	.58	.00
	4	.05	.99

a. Dependent Variable: PL_EVCudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00860920734 7035	.01221598219 1265	.01085294423 1400	.00094036978 1317
Std. Predicted Value	-2.386	1.449	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00852896645 6652	.01223397161 8116	.01084650962 3897	.00095779665 4901
Residual	- .00128173525 4452	.00215785927 1392	.00000000000 0000	.00062098289 8116
Std. Residual	-2.029	3.415	.000	.983
Stud. Residual	-2.151	3.878	.005	1.022
Deleted Residual	- .00144138664 4728	.00278178299 7772	.00000643460 7503	.00067467007 1108
Stud. Deleted Residual	-2.199	4.249	.007	1.042
Mahal. Distance	.125	31.981	2.966	4.304
Cook's Distance	.000	1.087	.024	.116
Centered Leverage Value	.001	.363	.034	.049

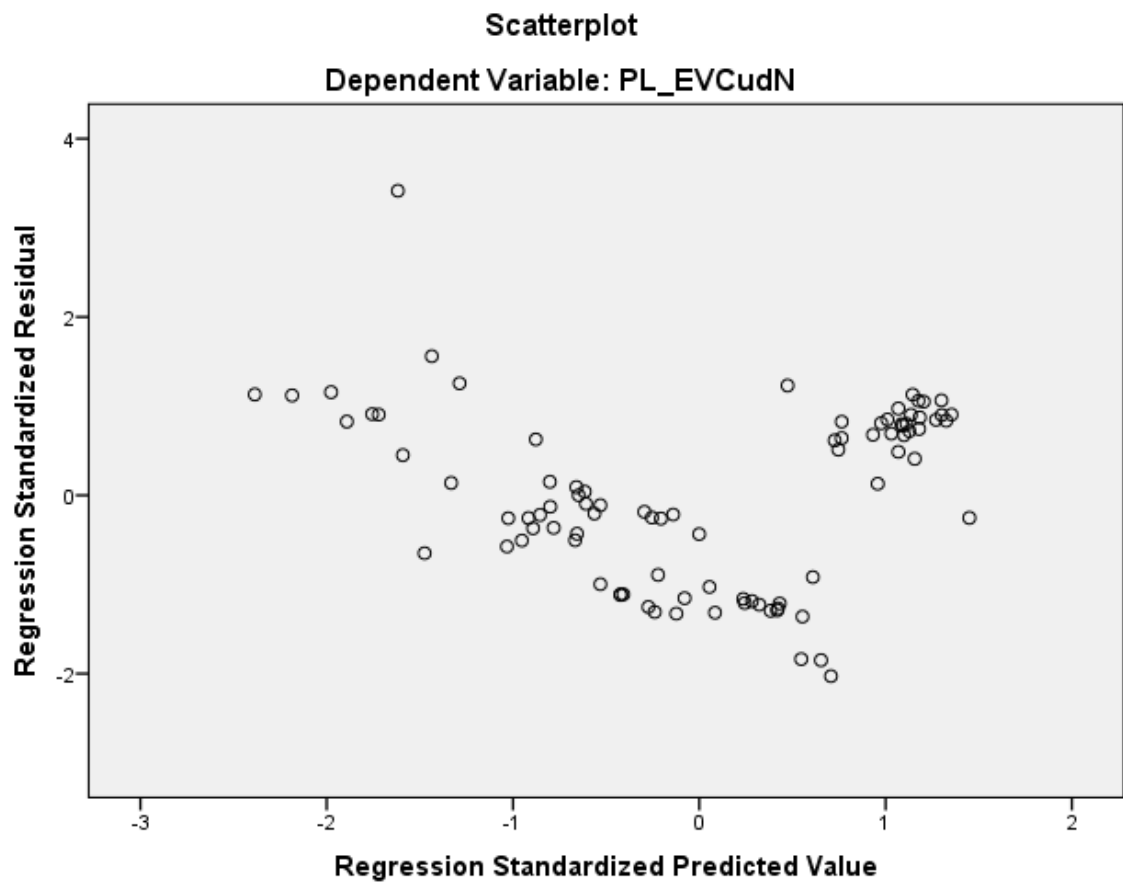
Residuals Statistics^a

	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_EVCudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

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

/NOORIGIN

/DEPENDENT PL_EVCudN

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 18:49:20
Comments		
Input	Active Dataset	DataSet1
	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 PL_EVCudN /METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.22
	Memory Required	6512 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_17	Cook's Distance

Variables Entered/Removed^a

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

a. Dependent Variable: PL_EVCudN

Model Summary^e

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.808 ^a	.653	.649	.00067009897 1212
2	.848 ^b	.718	.712	.00060725572 0209
3	.866 ^c	.749	.740	.00057664715 4387
4	.875 ^d	.766	.755	.00055986708 5582

a. Predictors: (Constant), GD_ud

b. Predictors: (Constant), GD_ud, AvgGL_ud

c. Predictors: (Constant), GD_ud, AvgGL_ud, TSpaths_ud

d. Predictors: (Constant), GD_ud, AvgGL_ud, TSpaths_ud, Tpaths_ud

e. Dependent Variable: PL_EVCudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	161.962	.000 ^b
	Residual	.000	86	.000		

	Total	.000	87			
2	Regression	.000	2	.000	108.470	.000 ^c
	Residual	.000	85	.000		
	Total	.000	87			
3	Regression	.000	3	.000	83.615	.000 ^d
	Residual	.000	84	.000		
	Total	.000	87			
4	Regression	.000	4	.000	68.054	.000 ^e
	Residual	.000	83	.000		
	Total	.000	87			

a. Dependent Variable: PL_EVCudN

b. Predictors: (Constant), GD_ud

c. Predictors: (Constant), GD_ud, AvgGL_ud

d. Predictors: (Constant), GD_ud, AvgGL_ud, TSpaths_ud

e. Predictors: (Constant), GD_ud, AvgGL_ud, TSpaths_ud, Tpaths_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.014	.000		52.889	.000

	GD_ud	-.304	.024	-.808	-12.726	.000
2	(Constant)	.013	.000		37.421	.000
	GD_ud	-.393	.030	-1.045	-13.317	.000
	AvgGL_ud	.192	.043	.349	4.441	.000
3	(Constant)	.017	.001		14.262	.000
	GD_ud	-.373	.029	-.991	-12.965	.000
	AvgGL_ud	.233	.043	.423	5.415	.000
	TSpaths_ud	-.388	.121	-.211	-3.204	.002
4	(Constant)	.019	.001		12.803	.000
	GD_ud	-.669	.123	-1.776	-5.444	.000
	AvgGL_ud	.273	.045	.497	6.096	.000
	TSpaths_ud	-.759	.191	-.413	-3.980	.000
	Tpaths_ud	.409	.166	.862	2.472	.015

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_ud	1.000	1.000
2	(Constant)		
	GD_ud	.538	1.860
	AvgGL_ud	.538	1.860
3	(Constant)		

	GD_ud	.511	1.956
	AvgGL_ud	.491	2.039
	TSpaths_ud	.688	1.453
4	(Constant)		
	GD_ud	.026	37.830
	AvgGL_ud	.424	2.359
	TSpaths_ud	.262	3.824
	Tpaths_ud	.023	43.181

a. Dependent Variable: PL_EVCudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
						Tolerance
1	Tpaths_ud	-.243 ^b	-.944	.348	-.102	.061
	TSpaths_ud	-.105 ^b	-1.451	.150	-.155	.754
	AvgPL_ud	2.151 ^b	2.837	.006	.294	.006
	AvgGL_ud	.349 ^b	4.441	.000	.434	.538
2	Tpaths_ud	-.231 ^c	-.991	.325	-.107	.061
	TSpaths_ud	-.211 ^c	-3.204	.002	-.330	.688
	AvgPL_ud	1.570 ^c	2.199	.031	.233	.006

3	Tpaths_ud	.862 ^d	2.472	.015	.262	.023
	AvgPL_ud	1.634 ^d	2.424	.018	.257	.006
4	AvgPL_ud	.654 ^e	.368	.714	.041	.001

Excluded Variables^a

Model		Collinearity Statistics	
		VIF	Minimum Tolerance
1	Tpaths_ud	16.405	.061
	TSpaths_ud	1.326	.754
	AvgPL_ud	154.161	.006
	AvgGL_ud	1.860	.538
2	Tpaths_ud	16.407	.058
	TSpaths_ud	1.453	.491
	AvgPL_ud	160.830	.006
3	Tpaths_ud	43.181	.023
	AvgPL_ud	160.958	.006
4	AvgPL_ud	1112.083	.001

a. Dependent Variable: PL_EVCudN

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

c. Predictors in the Model: (Constant), GD_ud, AvgGL_ud

d. Predictors in the Model: (Constant), GD_ud, AvgGL_ud, TSpaths_ud

e. Predictors in the Model: (Constant), GD_ud, AvgGL_ud, TSpaths_ud, Tpaths_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	GD_ud	AvgGL_ud
1	1	1.964	1.000	.02	.02	
	2	.036	7.338	.98	.98	
2	1	2.951	1.000	.00	.00	.00
	2	.037	8.990	.45	.56	.00
	3	.012	15.437	.55	.44	1.00
3	1	3.941	1.000	.00	.00	.00
	2	.045	9.345	.02	.47	.01
	3	.013	17.343	.01	.48	.94
	4	.001	56.426	.97	.05	.05
4	1	4.929	1.000	.00	.00	.00
	2	.053	9.614	.01	.01	.00
	3	.015	18.311	.01	.00	.79
	4	.002	46.819	.20	.20	.00
	5	.000	118.323	.79	.78	.20

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
-------	-----------	----------------------

		TSpaths_ud	Tpaths_ud
1	1		
	2		
2	1		
	2		
	3		
3	1	.00	
	2	.01	
	3	.01	
	4	.99	
4	1	.00	.00
	2	.00	.00
	3	.00	.01
	4	.07	.15
	5	.93	.84

a. Dependent Variable: PL_EVCudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00849080830 8125	.01230009365 8268	.01084571405 8841	.00099033641 6049

Std. Predicted Value	-2.378	1.469	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00839348882 4368	.01227222755 5513	.01084318311 5059	.00099892117 0832
Residual	- .00104675907 6416	.00136732822 2841	.00000000000 0000	.00054684513 9166
Std. Residual	-1.870	2.442	.000	.977
Stud. Residual	-2.004	2.718	.002	1.010
Deleted Residual	- .00120270997 2858	.00169302918 9482	.00000253094 3782	.00058647831 8302
Stud. Deleted Residual	-2.042	2.830	.002	1.019
Mahal. Distance	.437	45.893	3.955	5.378
Cook's Distance	.000	.352	.015	.040
Centered Leverage Value	.005	.528	.045	.062

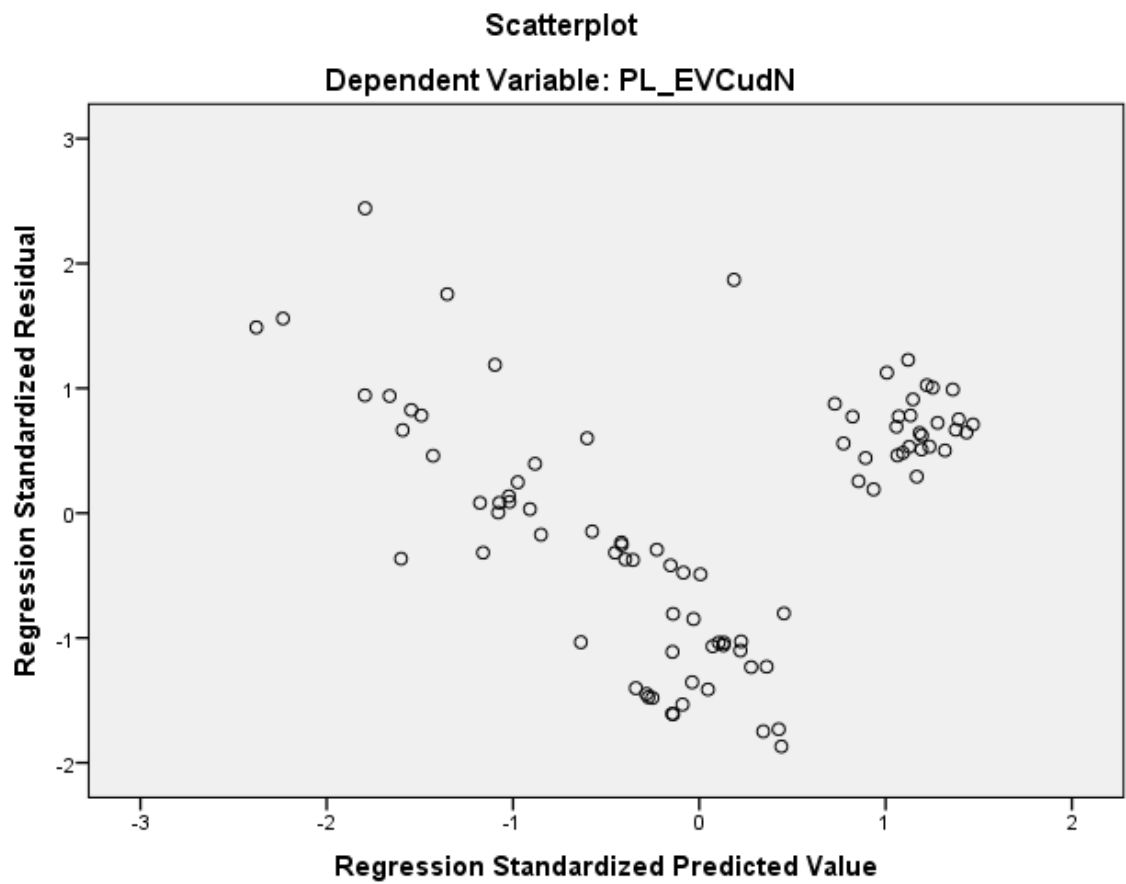
Residuals Statistics^a

	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: PL_EVCudN

Charts



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 TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 18:39:15
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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_TpudN
		/METHOD=STEPWISE GD_ud
		Tpaths_ud TSpaths_ud AvgPL_ud
		AvgGL_ud
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02
	Memory Required	6080 bytes
	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	Plots	
	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 PL_TSpudN

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 18:39:28
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		00:00:00.20
	Elapsed Time		00:00:00.22
	Memory Required	6112 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	TSpaths_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_TSpudN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.381 ^a	.145	.136	.01131501453 9191

a. Predictors: (Constant), TSpaths_ud

b. Dependent Variable: PL_TSpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.002	1	.002	15.146	.000 ^b
	Residual	.011	89	.000		
	Total	.013	90			

a. Dependent Variable: PL_TSpudN

b. Predictors: (Constant), TSpaths_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.056	.017		-3.250	.002
	TSpaths_ud	6.137	1.577	.381	3.892	.000

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF

1	(Constant)		
	TSpaths_ud	1.000	1.000

a. Dependent Variable: PL_TSpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	.206 ^b	1.892	.062	.198	.785	1.273
	Tpaths_ud	.207 ^b	1.740	.085	.182	.661	1.514
	AvgPL_ud	.202 ^b	1.856	.067	.194	.787	1.270
	AvgGL_ud	.213 ^b	1.720	.089	.180	.613	1.631

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_ud	.785	
	Tpaths_ud	.661	
	AvgPL_ud	.787	
	AvgGL_ud	.613	

a. Dependent Variable: PL_TSpudN

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

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	TSpaths_ud
1	1	1.998	1.000	.00	.00
	2	.002	29.253	1.00	1.00

a. Dependent Variable: PL_TSpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00312245986 4244	.03357259929 1801	.01098901098 9011	.00464176078 1260
Std. Predicted Value	-1.695	4.865	.000	1.000
Standard Error of Predicted Value	.001	.006	.002	.001
Adjusted Predicted Value	.00326242274 6047	.04080087691 5455	.01107846371 0458	.00504070702 9476
Residual	- .01915206387 6390	.02746633812 7851	.00000000000 0000	.01125197775 6015
Std. Residual	-1.693	2.427	.000	.994

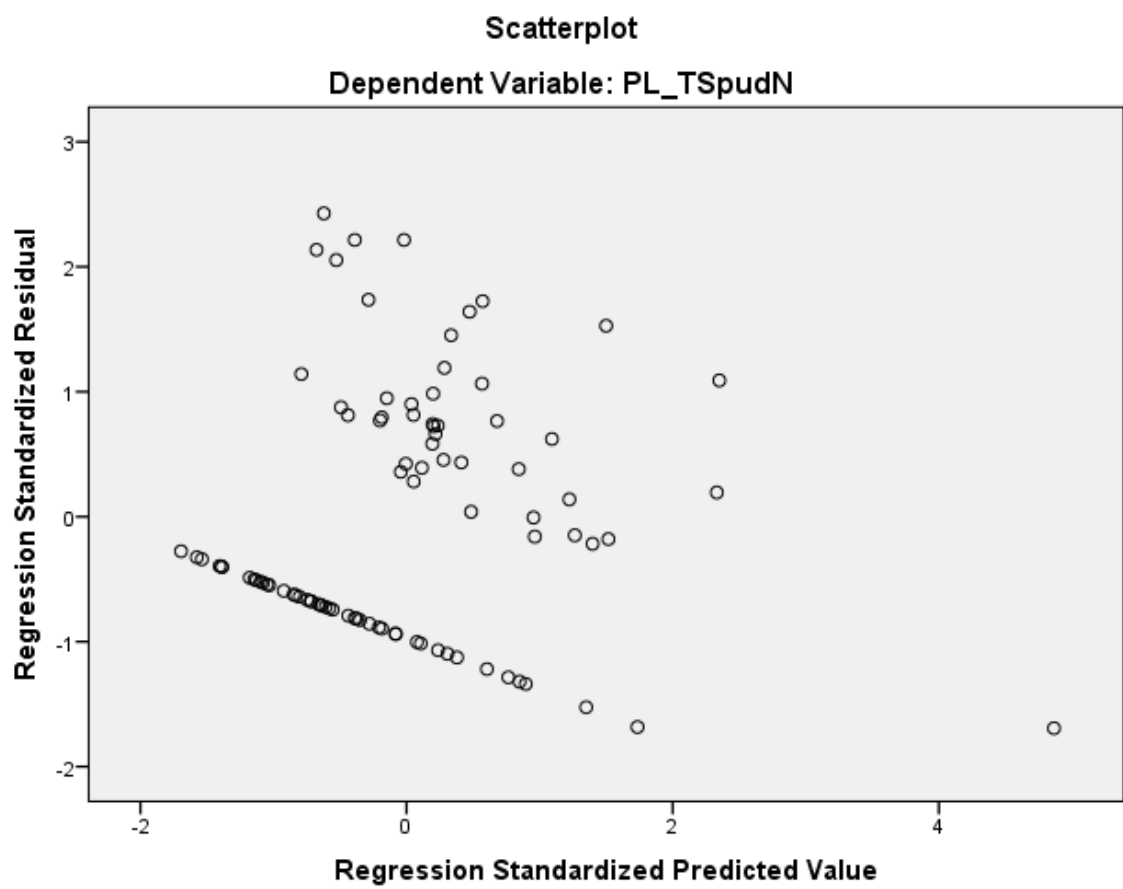
Stud. Residual	-1.987	2.446	-.004	1.009
Deleted Residual	-	-.02789254114	-	.01160283558
	.02638034150	0318	.00008945272	5153
	0044		1447	
Stud. Deleted Residual	-2.021	2.519	-.001	1.018
Mahal. Distance	.000	23.671	.989	2.615
Cook's Distance	.000	.745	.017	.078
Centered Leverage Value	.000	.263	.011	.029

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: PL_TSpudN

Charts



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 TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	05-JUN-2015 18:41:35	
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 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	00:00:00.25
	Memory Required	6160 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_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).
3	Tpaths_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4	AvgPL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

5	GD_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
6		AvgGL_ud	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: S_ud

Model Summary^a

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.573 ^a	.328	.321	.00216376033 8111
2	.806 ^b	.650	.642	.00157010202 8647
3	.839 ^c	.703	.693	.00145415629 9482
4	.874 ^d	.764	.753	.00130494151 0493

5	.916 ^e	.839	.829	.00108537422 8636
6	.916 ^f	.838	.831	.00107927846 2507

a. Predictors: (Constant), TSpaths_ud

b. Predictors: (Constant), TSpaths_ud, AvgGL_ud

c. Predictors: (Constant), TSpaths_ud, AvgGL_ud, Tpaths_ud

d. Predictors: (Constant), TSpaths_ud, AvgGL_ud, Tpaths_ud, AvgPL_ud

e. Predictors: (Constant), TSpaths_ud, AvgGL_ud, Tpaths_ud, AvgPL_ud, GD_ud

f. Predictors: (Constant), TSpaths_ud, Tpaths_ud, AvgPL_ud, GD_ud

g. Dependent Variable: S_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	43.477	.000 ^b
	Residual	.000	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	81.798	.000 ^c
	Residual	.000	88	.000		

	Total	.001	90			
3	Regression	.000	3	.000	68.772	.000 ^d
	Residual	.000	87	.000		
	Total	.001	90			
4	Regression	.000	4	.000	69.558	.000 ^e
	Residual	.000	86	.000		
	Total	.001	90			
5	Regression	.001	5	.000	88.300	.000 ^f
	Residual	.000	85	.000		
	Total	.001	90			
6	Regression	.001	4	.000	111.616	.000 ^g
	Residual	.000	86	.000		
	Total	.001	90			

a. Dependent Variable: S_ud

b. Predictors: (Constant), TSpaths_ud

c. Predictors: (Constant), TSpaths_ud, AvgGL_ud

d. Predictors: (Constant), TSpaths_ud, AvgGL_ud, Tpaths_ud

e. Predictors: (Constant), TSpaths_ud, AvgGL_ud, Tpaths_ud, AvgPL_ud

f. Predictors: (Constant), TSpaths_ud, AvgGL_ud, Tpaths_ud, AvgPL_ud, GD_ud

g. Predictors: (Constant), TSpaths_ud, Tpaths_ud, AvgPL_ud, GD_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.033	.003		9.887	.000
	TSpaths_ud	-1.988	.302	-.573	-6.594	.000
2	(Constant)	.041	.003		15.954	.000
	TSpaths_ud	-3.553	.279	-1.024	-12.714	.000
	AvgGL_ud	.802	.089	.725	9.001	.000
3	(Constant)	.039	.002		16.153	.000
	TSpaths_ud	-3.241	.271	-.934	-11.974	.000
	AvgGL_ud	.974	.093	.881	10.437	.000
	Tpaths_ud	-.317	.080	-.321	-3.949	.000
4	(Constant)	.029	.003		9.025	.000
	TSpaths_ud	-1.227	.493	-.353	-2.487	.015
	AvgGL_ud	.524	.127	.474	4.115	.000
	Tpaths_ud	-2.915	.558	-2.950	-5.223	.000
	AvgPL_ud	2.014	.429	2.611	4.694	.000
5	(Constant)	.016	.003		4.870	.000
	TSpaths_ud	1.132	.557	.326	2.034	.045
	AvgGL_ud	.025	.132	.023	.192	.849
	Tpaths_ud	-5.799	.653	-5.868	-8.874	.000
	AvgPL_ud	8.353	1.072	10.828	7.791	.000

	GD_ud	-4.178	.666	-5.377	-6.270	.000
6	(Constant)	.016	.002		7.508	.000
	TSpaths_ud	1.224	.276	.353	4.432	.000
	Tpaths_ud	-5.902	.368	-5.972	-16.044	.000
	AvgPL_ud	8.511	.685	11.033	12.433	.000
	GD_ud	-4.254	.530	-5.476	-8.030	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpaths_ud	1.000	1.000
2	(Constant)		
	TSpaths_ud	.613	1.631
	AvgGL_ud	.613	1.631
3	(Constant)		
	TSpaths_ud	.561	1.784
	AvgGL_ud	.479	2.088
	Tpaths_ud	.516	1.938
4	(Constant)		
	TSpaths_ud	.136	7.352
	AvgGL_ud	.207	4.826
	Tpaths_ud	.009	116.186

	AvgPL_ud	.009	112.658
5	(Constant)		
	TSpaths_ud	.074	13.536
	AvgGL_ud	.133	7.547
	Tpaths_ud	.004	230.193
	AvgPL_ud	.001	1017.048
	GD_ud	.003	387.196
6	(Constant)		
	TSpaths_ud	.296	3.374
	Tpaths_ud	.014	73.776
	AvgPL_ud	.002	419.283
	GD_ud	.004	247.621

a. Dependent Variable: S_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	.178 ^b	1.843	.069	.193	.785	1.273
	Tpaths_ud	.076 ^b	.707	.481	.075	.661	1.514
	AvgPL_ud	.182 ^b	1.880	.063	.196	.787	1.270
	AvgGL_ud	.725 ^b	9.001	.000	.692	.613	1.631

2	GD_ud	-.268 ^c	-3.278	.002	-.332	.536	1.867
	Tpaths_ud	-.321 ^c	-3.949	.000	-.390	.516	1.938
	AvgPL_ud	-.270 ^c	-3.293	.001	-.333	.532	1.879
3	GD_ud	.923 ^d	2.485	.015	.259	.023	42.890
	AvgPL_ud	2.611 ^d	4.694	.000	.452	.009	112.658
4	GD_ud	-5.377 ^e	-6.270	.000	-.562	.003	387.196
6	AvgGL_ud	.023 ^f	.192	.849	.021	.133	7.547

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_ud	.785
	Tpaths_ud	.661
	AvgPL_ud	.787
	AvgGL_ud	.613
2	GD_ud	.418
	Tpaths_ud	.479
	AvgPL_ud	.414
3	GD_ud	.022
	AvgPL_ud	.009
4	GD_ud	.001
6	AvgGL_ud	.001

a. Dependent Variable: S_ud

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

c. Predictors in the Model: (Constant), TSpaths_ud, AvgGL_ud

d. Predictors in the Model: (Constant), TSpaths_ud, AvgGL_ud, Tpaths_ud

e. Predictors in the Model: (Constant), TSpaths_ud, AvgGL_ud, Tpaths_ud, AvgPL_ud

f. Predictors in the Model: (Constant), TSpaths_ud, Tpaths_ud, AvgPL_ud, GD_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	TSpaths_ud	AvgGL_ud
1	1	1.998	1.000	.00	.00	
	2	.002	29.253	1.00	1.00	
2	1	2.973	1.000	.00	.00	.00
	2	.025	10.870	.04	.01	.70
	3	.002	41.997	.96	.99	.30
3	1	3.947	1.000	.00	.00	.00
	2	.035	10.623	.04	.01	.07
	3	.016	15.587	.00	.00	.81
	4	.002	49.899	.96	.99	.12
4	1	4.914	1.000	.00	.00	.00
	2	.065	8.710	.01	.00	.00
	3	.018	16.465	.01	.00	.40

	4	.002	44.784	.26	.08	.01
	5	.000	159.417	.72	.92	.59
5	1	5.893	1.000	.00	.00	.00
	2	.085	8.311	.00	.00	.00
	3	.018	17.856	.01	.00	.25
	4	.003	46.277	.13	.03	.00
	5	.001	106.373	.19	.16	.10
	6	4.535E-5	360.476	.67	.81	.64
6	1	4.912	1.000	.00	.00	
	2	.084	7.639	.01	.00	
	3	.003	41.936	.37	.13	
	4	.001	80.594	.41	.48	
	5	.000	203.800	.21	.39	

Collinearity Diagnostics^a

Model Dimension		Variance Proportions		
		Tpaths_ud	AvgPL_ud	GD_ud
1	1			
	2			
2	1			
	2			
	3			
3	1	.00		

	2	.32		
	3	.62		
	4	.06		
4	1	.00	.00	
	2	.00	.00	
	3	.00	.00	
	4	.04	.04	
	5	.96	.95	
5	1	.00	.00	.00
	2	.00	.00	.00
	3	.00	.00	.00
	4	.03	.00	.01
	5	.11	.01	.16
	6	.86	.99	.84
6	1	.00	.00	.00
	2	.00	.00	.00
	3	.07	.00	.01
	4	.38	.00	.11
	5	.54	1.00	.88

a. Dependent Variable: S_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00313443294 7263	.01599989831 4476	.01098901098 9011	.00240384269 5429
Std. Predicted Value	-3.268	2.085	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00286159780 8078	.01588992401 9575	.01098235148 8392	.00240723635 1503
Residual	- .00217328057 6244	.00365118356 4216	.00000000000 0000	.00105502191 6403
Std. Residual	-2.014	3.383	.000	.978
Stud. Residual	-2.043	3.450	.003	1.007
Deleted Residual	- .00223788991 5705	.00379707454 7037	.00000665950 0619	.00112226706 0652
Stud. Deleted Residual	-2.083	3.695	.009	1.028
Mahal. Distance	.597	41.927	3.956	5.582
Cook's Distance	.000	.159	.013	.027
Centered Leverage Value	.007	.466	.044	.062

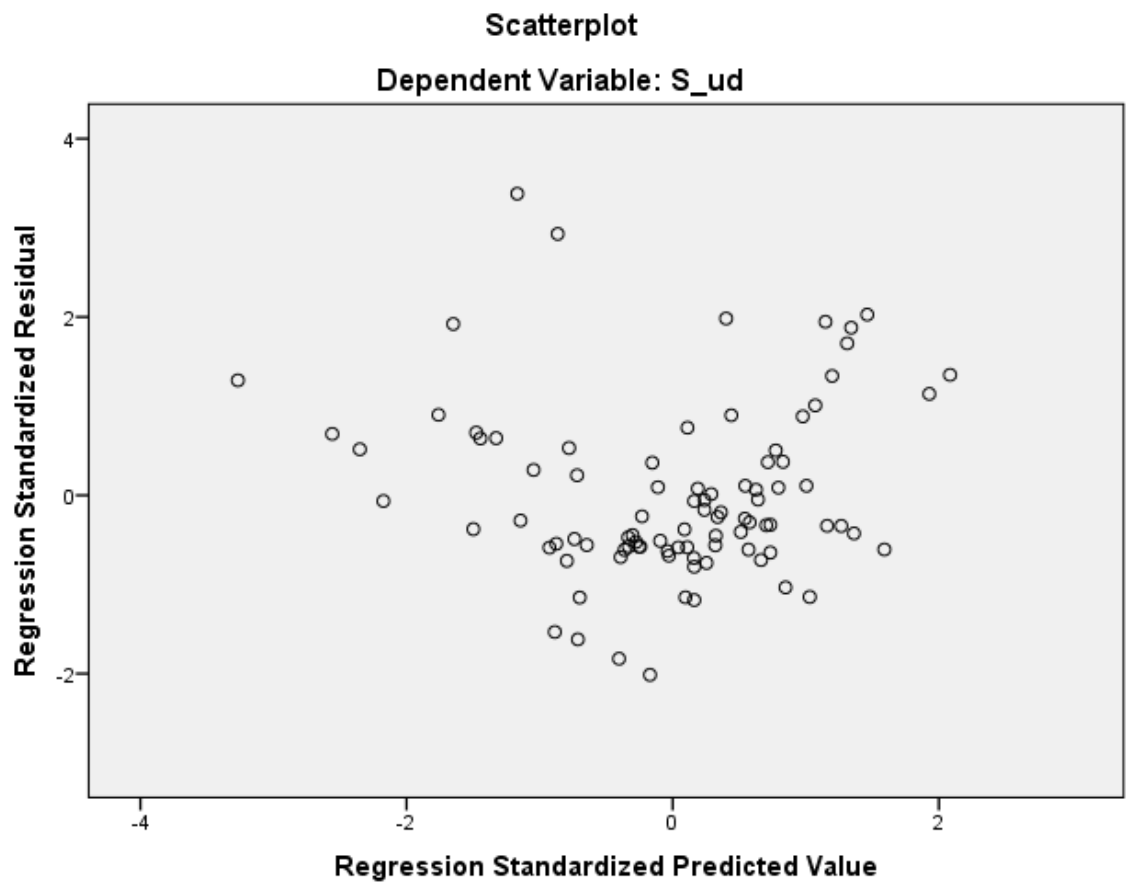
Residuals Statistics^a

	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		05-JUN-2015 18:42:45
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 R_ud /METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.19
	Memory Required	6192 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	AvgGL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: R_ud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.631 ^a	.398	.392	.00055472208 5165

a. Predictors: (Constant), AvgGL_ud

b. Dependent Variable: R_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	58.907	.000 ^b
	Residual	.000	89	.000		

Total	.000	90			
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a. Dependent Variable: R_ud

b. Predictors: (Constant), AvgGL_ud

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.009	.000		32.188	.000
AvgGL_ud	.189	.025	.631	7.675	.000

Coefficients^a

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

a. Dependent Variable: R_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	.147 ^b	1.321	.190	.139	.538	1.857
	Tpaths_ud	.104 ^b	.948	.346	.101	.564	1.772
	TSpaths_ud	-.122 ^b	-1.165	.247	-.123	.613	1.631
	AvgPL_ud	.152 ^b	1.354	.179	.143	.534	1.871

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_ud	.538	
	Tpaths_ud	.564	
	TSpaths_ud	.613	
	AvgPL_ud	.534	

a. Dependent Variable: R_ud

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

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	AvgGL_ud

1	1	1.978	1.000	.01	.01
	2	.022	9.416	.99	.99

a. Dependent Variable: R_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01053153350 9493	.01303018629 5509	.01098901098 9011	.00044878484 3696
Std. Predicted Value	-1.019	4.548	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01057412568 4798	.01321518234 9086	.01099367104 1361	.00046349364 8817
Residual	- .00184747029 5615	.00120979570 7837	.00000000000 0000	.00055163168 7386
Std. Residual	-3.330	2.181	.000	.994
Stud. Residual	-3.369	2.193	-.004	1.008
Deleted Residual	- .00189006235 4505	.00122339371 5918	- .00000466005 2350	.00056765066 7398
Stud. Deleted Residual	-3.586	2.242	-.009	1.029
Mahal. Distance	.000	20.686	.989	3.040
Cook's Distance	.000	.299	.015	.043

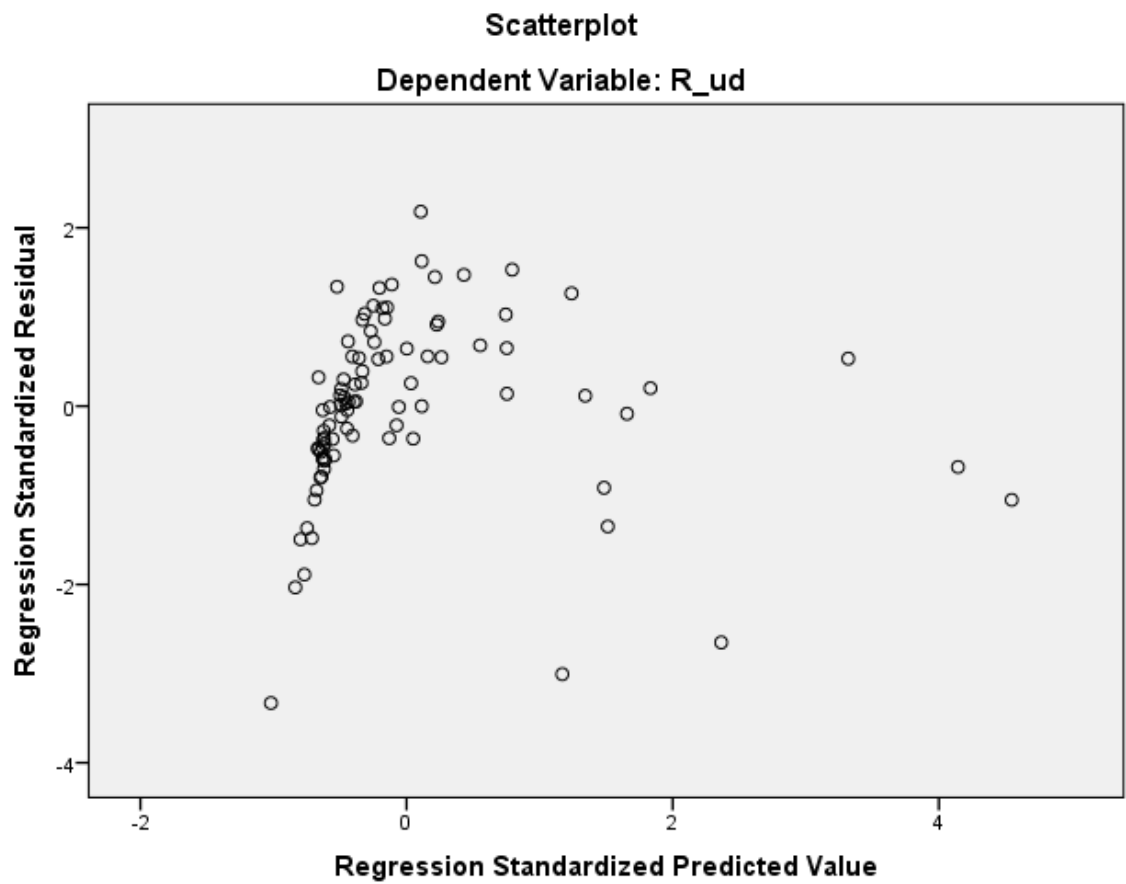
Centered Leverage Value	.000	.230	.011	.034
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Residuals Statistics^a

	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: 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

Output Created		05-JUN-2015 18:43:08
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 SMSP_ud /METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.05
	Memory Required	6240 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.

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		05-JUN-2015 18:33:26
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 /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.42
	Elapsed Time	00:00:00.39
	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).
2	S_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: GD_ud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.508 ^a	.258	.250	.00292636200 3894
2	.568 ^b	.323	.307	.00281184764 3154

a. Predictors: (Constant), R_ud

b. Predictors: (Constant), R_ud, S_ud

c. Dependent Variable: GD_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	30.980	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	20.976	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			

a. Dependent Variable: GD_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)	-.016	.005		-3.254	.002
	R_ud	2.414	.434	.508	5.566	.000
2	(Constant)	-.015	.005		-3.290	.001
	R_ud	2.712	.429	.571	6.318	.000
	S_ud	-.337	.116	-.262	-2.898	.005

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000
2	(Constant)		
	R_ud	.943	1.061
	S_ud	.943	1.061

a. Dependent Variable: GD_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	-.043 ^b	-.471	.639	-.050	.992	1.008
	PL_TSpudN	.188 ^b	1.962	.053	.205	.884	1.131
	S_ud	-.262 ^b	-2.898	.005	-.295	.943	1.061
	SMSP_ud	-.080 ^b	-.866	.389	-.092	.968	1.033
2	PL_TpudN	-.028 ^c	-.316	.753	-.034	.989	1.011
	PL_TSpudN	.123 ^c	1.269	.208	.135	.818	1.223
	SMSP_ud	-.050 ^c	-.557	.579	-.060	.954	1.048

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpudN		
	PL_TSpudN		
	S_ud		
	SMSP_ud		
2	PL_TpudN		

PL_TSpudN	.794
SMSP_ud	.923

a. Dependent Variable: GD_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 Index	Variance Proportions		
				(Constant)	R_ud	S_ud
1	1	1.998	1.000	.00	.00	
	2	.002	31.109	1.00	1.00	
2	1	2.964	1.000	.00	.00	.01
	2	.034	9.286	.02	.02	.98
	3	.002	38.118	.98	.98	.01

a. Dependent Variable: GD_ud

Residuals Statistics^a

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

Predicted Value	.00560886645 6896	.01535470690 5782	.01098901098 9011	.00191975019 6987
Std. Predicted Value	-2.803	2.274	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00531954457 9834	.01521794870 4958	.01096495917 2760	.00191879100 6759
Residual	- .00496302405 3723	.01409328449 5175	.00000000000 0000	.00278042936 4947
Std. Residual	-1.765	5.012	.000	.989
Stud. Residual	-1.785	5.121	.004	1.010
Deleted Residual	- .00507635157 5553	.01471296790 9873	.00002405181 6251	.00290412177 8112
Stud. Deleted Residual	-1.808	6.077	.018	1.079
Mahal. Distance	.061	10.552	1.978	2.090
Cook's Distance	.000	.384	.015	.054
Centered Leverage Value	.001	.117	.022	.023

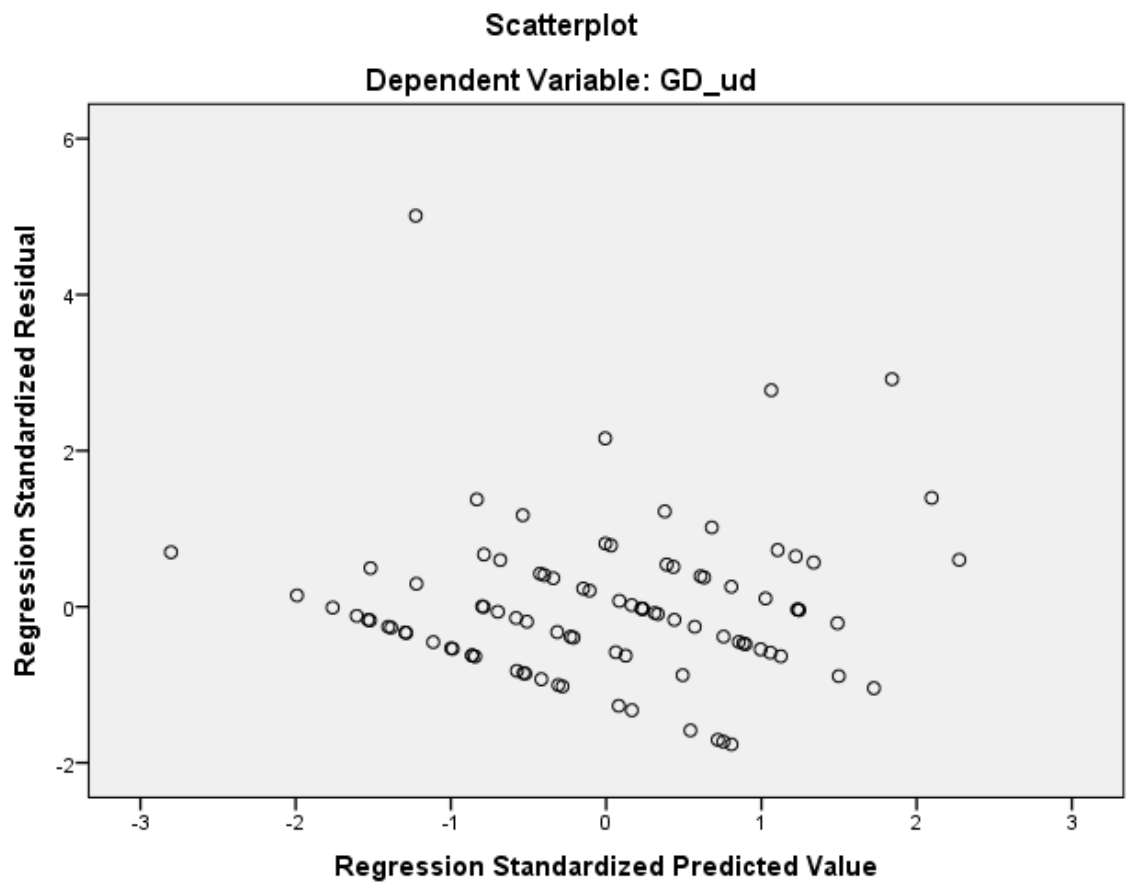
Residuals Statistics^a

	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: 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		05-JUN-2015 18:33:53
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		00:00:00.30
	Elapsed Time		00:00:00.28
	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	.475 ^a	.226	.217	.00235052971 8047
2	.627 ^b	.393	.379	.00209274828 2433

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	25.949	.000 ^b
	Residual	.000	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	28.506	.000 ^c
	Residual	.000	88	.000		
	Total	.001	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)	-.009	.004		-2.219	.029

	R_ud	1.775	.348	.475	5.094	.000
2	(Constant)	-.008	.003		-2.331	.022
	R_ud	2.151	.319	.576	6.734	.000
	S_ud	-.426	.087	-.421	-4.927	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000
2	(Constant)		
	R_ud	.943	1.061
	S_ud	.943	1.061

a. Dependent Variable: Tpaths_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	-.144 ^b	-1.546	.126	-.163	.992	1.008
	PL_TSpudN	.223 ^b	2.307	.023	.239	.884	1.131
	S_ud	-.421 ^b	-4.927	.000	-.465	.943	1.061

	SMSP_ud	-.064 ^b	-.674	.502	-.072	.968	1.033
2	PL_TpudN	-.119 ^c	-1.437	.154	-.152	.989	1.011
	PL_TSpudN	.113 ^c	1.231	.222	.131	.818	1.223
	SMSP_ud	-.014 ^c	-.169	.866	-.018	.954	1.048

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpudN	.992
	PL_TSpudN	.884
	S_ud	.943
	SMSP_ud	.968
2	PL_TpudN	.933
	PL_TSpudN	.794
	SMSP_ud	.923

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
-------	-----------	------------	-----------	----------------------

			Index	(Constant)	R_ud	S_ud
1	1	1.998	1.000	.00	.00	
	2	.002	31.109	1.00	1.00	
2	1	2.964	1.000	.00	.00	.01
	2	.034	9.286	.02	.02	.98
	3	.002	38.118	.98	.98	.01

a. Dependent Variable: Tpaths_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00713199004 5309	.01497053168 7140	.01098901098 9011	.00166562288 3030
Std. Predicted Value	-2.316	2.390	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00690606795 2514	.01489243563 2646	.01096888466 5664	.00166794380 5209
Residual	- .00339940562 8443	.01124432869 2555	.00000000000 0000	.00206936488 6140
Std. Residual	-1.624	5.373	.000	.989
Stud. Residual	-1.639	5.490	.005	1.011

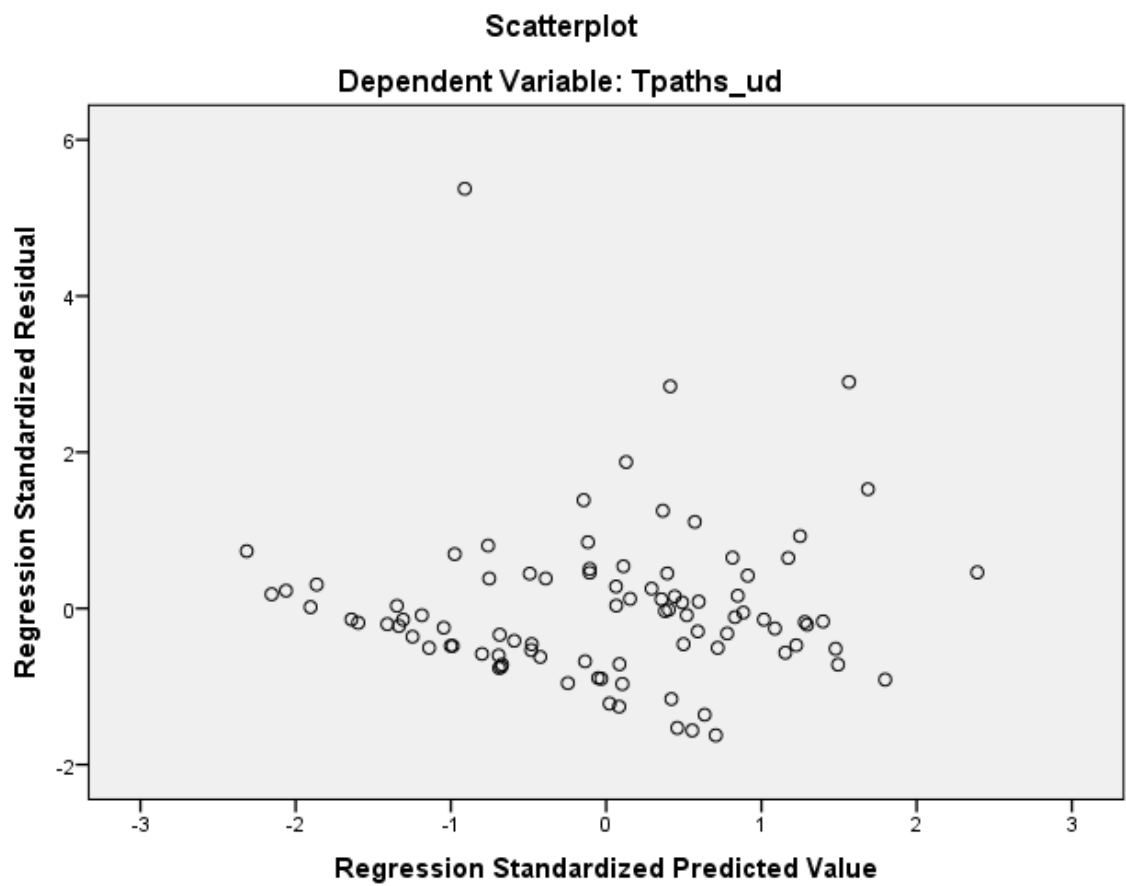
Deleted Residual	- .00345975277 0141	.01173874270 1709	.00002012632 3347	.00216444146 4444
Stud. Deleted Residual	-1.655	6.732	.022	1.102
Mahal. Distance	.061	10.552	1.978	2.090
Cook's Distance	.000	.442	.016	.060
Centered Leverage Value	.001	.117	.022	.023

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: Tpaths_ud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL


```

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

/NOORIGIN

/DEPENDENT TSpahs_ud

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created	05-JUN-2015 18:34:24	
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 TSpaths_ud /METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.30
	Elapsed Time	00:00:00.30
	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).

a. Dependent Variable: TSpats_ud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.573 ^a	.328	.321	.00062340765 0917
2	.740 ^b	.548	.537	.00051450859 5369

a. Predictors: (Constant), S_ud

b. Predictors: (Constant), S_ud, R_ud

c. Dependent Variable: TSpaths_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	43.477	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	53.245	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: TSpaths_ud

b. Predictors: (Constant), S_ud

c. Predictors: (Constant), S_ud, R_ud

Coefficients^a

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

		B	Std. Error	Beta		
1	(Constant)	.013	.000		45.282	.000
	S_ud	-.165	.025	-.573	-6.594	.000
2	(Constant)	.008	.001		8.962	.000
	S_ud	-.198	.021	-.688	-9.320	.000
	R_ud	.513	.079	.482	6.532	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_ud	1.000	1.000
2	(Constant)		
	S_ud	.943	1.061
	R_ud	.943	1.061

a. Dependent Variable: TSpaths_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	-.041 ^b	-.474	.637	-.050	.999	1.001

	PL_TSpudN	.293 ^b	3.530	.001	.352	.971	1.029
	R_ud	.482 ^b	6.532	.000	.571	.943	1.061
	SMSP_ud	.091 ^b	1.031	.305	.109	.975	1.025
2	PL_TpudN	.005 ^c	.072	.943	.008	.989	1.011
	PL_TSpudN	.123 ^c	1.571	.120	.166	.818	1.223
	SMSP_ud	.022 ^c	.294	.769	.032	.954	1.048

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpudN	.999
	PL_TSpudN	.971
	R_ud	.943
	SMSP_ud	.975
2	PL_TpudN	.933
	PL_TSpudN	.794
	SMSP_ud	.923

a. Dependent Variable: TSpaths_ud

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

c. Predictors in the Model: (Constant), S_ud, R_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_ud	R_ud
1	1	1.973	1.000	.01	.01	
	2	.027	8.536	.99	.99	
2	1	2.964	1.000	.00	.01	.00
	2	.034	9.286	.02	.98	.02
	3	.002	38.118	.98	.01	.98

a. Dependent Variable: TSpaths_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00958238728 3444	.01225315034 3895	.01098901098 9011	.00055966387 0785
Std. Predicted Value	-2.513	2.259	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00957115087 6582	.01228853501 3795	.01098439493 8681	.00056250047 2159
Residual	- .00043746890 1509	.00309447292 2385	.00000000000 0000	.00050875971 5543
Std. Residual	-.850	6.014	.000	.989

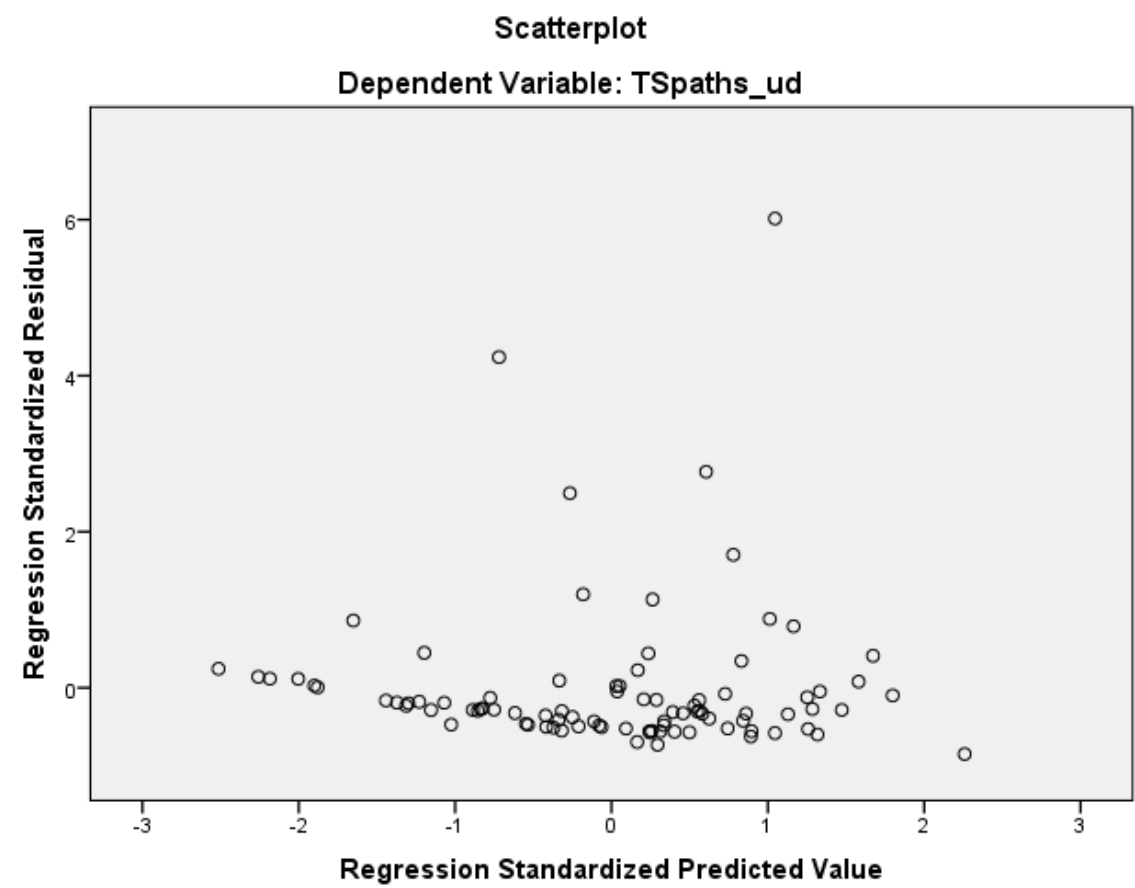
Stud. Residual	- .884	6.130	.004	1.014
Deleted Residual	-	.00321484869	.00000461605	.00053509118
	.00047285421	3460	0330	3694
	1694			
Stud. Deleted Residual	-.883	8.053	.035	1.184
Mahal. Distance	.061	10.552	1.978	2.090
Cook's Distance	.000	.691	.018	.089
Centered Leverage Value	.001	.117	.022	.023

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: 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		05-JUN-2015 18:34:52
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	00:00:00.23
	Elapsed Time	00:00:00.21
	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).
2	S_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgPL_ud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.512 ^a	.262	.253	.00294033562 2042

2	.570 ^b	.325	.309	.00282796046 3081
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a. Predictors: (Constant), R_ud

b. Predictors: (Constant), R_ud, S_ud

c. Dependent Variable: AvgPL_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	31.553	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	21.162	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			

a. Dependent Variable: AvgPL_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)	-.016	.005		-3.316	.001
	R_ud	2.448	.436	.512	5.617	.000
2	(Constant)	-.015	.005		-3.352	.001
	R_ud	2.744	.432	.573	6.356	.000
	S_ud	-.335	.117	-.259	-2.866	.005

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000
2	(Constant)		
	R_ud	.943	1.061
	S_ud	.943	1.061

a. Dependent Variable: AvgPL_ud

Excluded Variables^a

Model	Beta In	t	Sig.	Partial	Collinearity Statistics
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					Correlation	Tolerance	VIF
1	PL_TpudN	-.096 ^b	-1.050	.297	-.111	.992	1.008
	PL_TSpudN	.182 ^b	1.909	.059	.199	.884	1.131
	S_ud	-.259 ^b	-2.866	.005	-.292	.943	1.061
	SMSP_ud	-.078 ^b	-.841	.403	-.089	.968	1.033
2	PL_TpudN	-.081 ^c	-.918	.361	-.098	.989	1.011
	PL_TSpudN	.118 ^c	1.221	.226	.130	.818	1.223
	SMSP_ud	-.048 ^c	-.534	.595	-.057	.954	1.048

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpudN	.992
	PL_TSpudN	.884
	S_ud	.943
	SMSP_ud	.968
2	PL_TpudN	.933
	PL_TSpudN	.794
	SMSP_ud	.923

a. Dependent Variable: AvgPL_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 Index	Variance Proportions		
				(Constant)	R_ud	S_ud
1	1	1.998	1.000	.00	.00	
	2	.002	31.109	1.00	1.00	
2	1	2.964	1.000	.00	.00	.01
	2	.034	9.286	.02	.02	.98
	3	.002	38.118	.98	.98	.01

a. Dependent Variable: AvgPL_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00552981160 5811	.01538782566 7858	.01098901098 9011	.00193931713 0365
Std. Predicted Value	-2.815	2.268	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00521231768 6528	.01527109555 9001	.01096434937 6803	.00193906228 8485

Residual	- .00487196072 9361	.01455043070 0183	.00000000000 0000	.00279636214 7716
Std. Residual	-1.723	5.145	.000	.989
Stud. Residual	-1.742	5.257	.004	1.011
Deleted Residual	- .00498320907 3544	.01519021485 0008	.00002466161 2208	.00292136750 7187
Stud. Deleted Residual	-1.763	6.311	.019	1.087
Mahal. Distance	.061	10.552	1.978	2.090
Cook's Distance	.000	.405	.015	.056
Centered Leverage Value	.001	.117	.022	.023

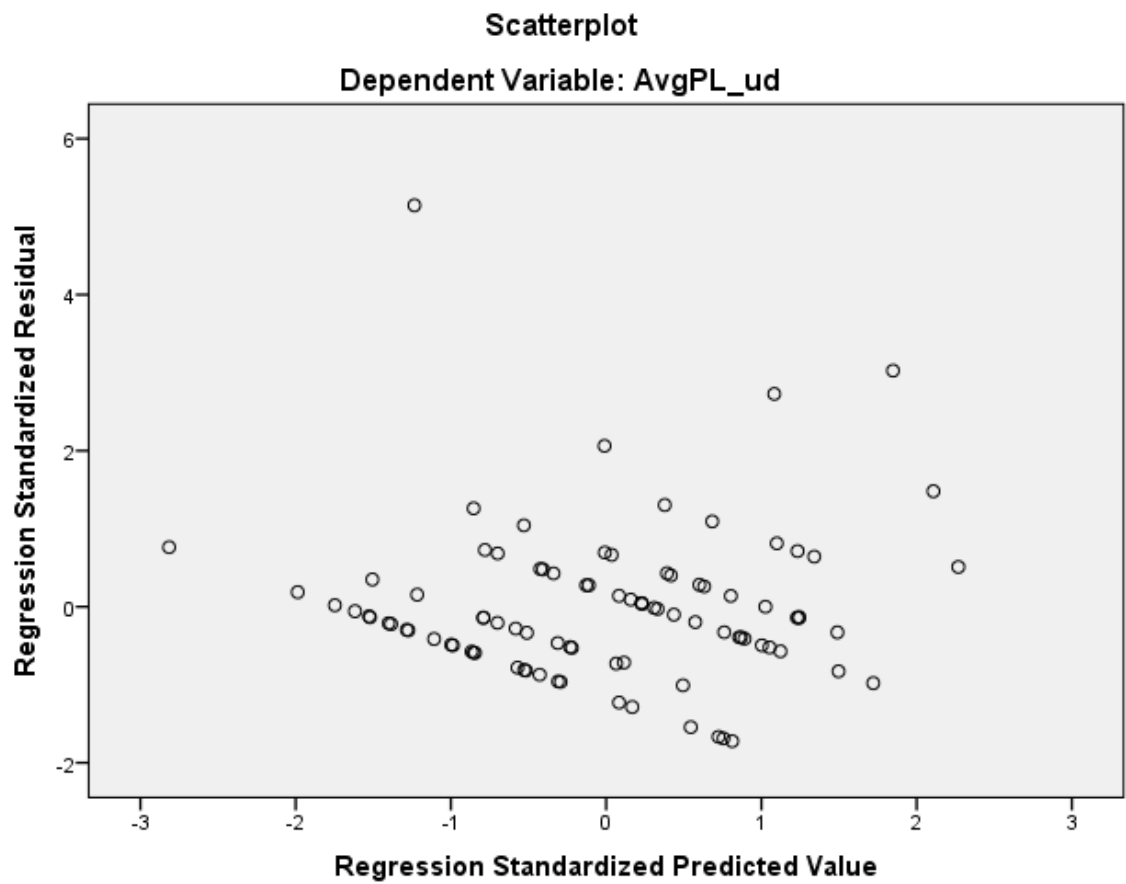
Residuals Statistics^a

	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: 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	05-JUN-2015 18:35:22	
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	00:00:00.22
	Elapsed Time	00:00:00.24
	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
1	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	PL_TSpudN		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	.631 ^a	.398	.392	.00185173302 2581
2	.652 ^b	.425	.412	.00182069746 8432

a. Predictors: (Constant), R_ud

b. Predictors: (Constant), R_ud, PL_TSpudN

c. Dependent Variable: AvgGL_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	58.907	.000 ^b
	Residual	.000	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	32.496	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			

a. Dependent Variable: AvgGL_ud

b. Predictors: (Constant), R_ud

c. Predictors: (Constant), R_ud, PL_TSpudN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.012	.003		-4.024	.000
	R_ud	2.107	.274	.631	7.675	.000
2	(Constant)	-.010	.003		-3.344	.001
	R_ud	1.910	.287	.572	6.656	.000
	PL_TSpudN	.034	.017	.173	2.015	.047

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000
2	(Constant)		
	R_ud	.884	1.131
	PL_TSpudN	.884	1.131

a. Dependent Variable: AvgGL_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	-.078 ^b	-.943	.348	-.100	.992	1.008
	PL_TSpudN	.173 ^b	2.015	.047	.210	.884	1.131
	S_ud	-.067 ^b	-.787	.433	-.084	.943	1.061
	SMSP_ud	-.118 ^b	-1.420	.159	-.150	.968	1.033
2	PL_TpudN	-.072 ^c	-.883	.380	-.094	.991	1.009
	S_ud	-.023 ^c	-.259	.797	-.028	.872	1.147
	SMSP_ud	-.129 ^c	-1.576	.119	-.167	.965	1.037

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpudN		
	PL_TSpudN		
	S_ud		
	SMSP_ud		
2	PL_TpudN		

S_ud	.794
SMSP_ud	.865

- a. Dependent Variable: AvgGL_ud
- b. Predictors in the Model: (Constant), R_ud
- c. Predictors in the Model: (Constant), R_ud, PL_TSpudN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_ud	PL_TSpudN
1	1	1.998	1.000	.00	.00	
	2	.002	31.109	1.00	1.00	
2	1	2.582	1.000	.00	.00	.05
	2	.416	2.490	.00	.00	.85
	3	.002	37.253	1.00	1.00	.10

- a. Dependent Variable: AvgGL_ud

Residuals Statistics^a

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

Predicted Value	.00621528876 9454	.01460389327 2579	.01098901098 9011	.00154720677 5419
Std. Predicted Value	-3.085	2.336	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00586908543 4824	.01408218964 9343	.01097059873 5566	.00154404025 4185
Residual	- .00242870487 2727	.00751224765 5541	.00000000000 0000	.00180035384 1446
Std. Residual	-1.334	4.126	.000	.989
Stud. Residual	-1.346	4.258	.005	1.018
Deleted Residual	- .00247244024 6493	.00800083484 5006	.00001841225 3445	.00191002309 0417
Stud. Deleted Residual	-1.352	4.752	.019	1.068
Mahal. Distance	.137	10.551	1.978	2.012
Cook's Distance	.000	.393	.021	.072
Centered Leverage Value	.002	.117	.022	.022

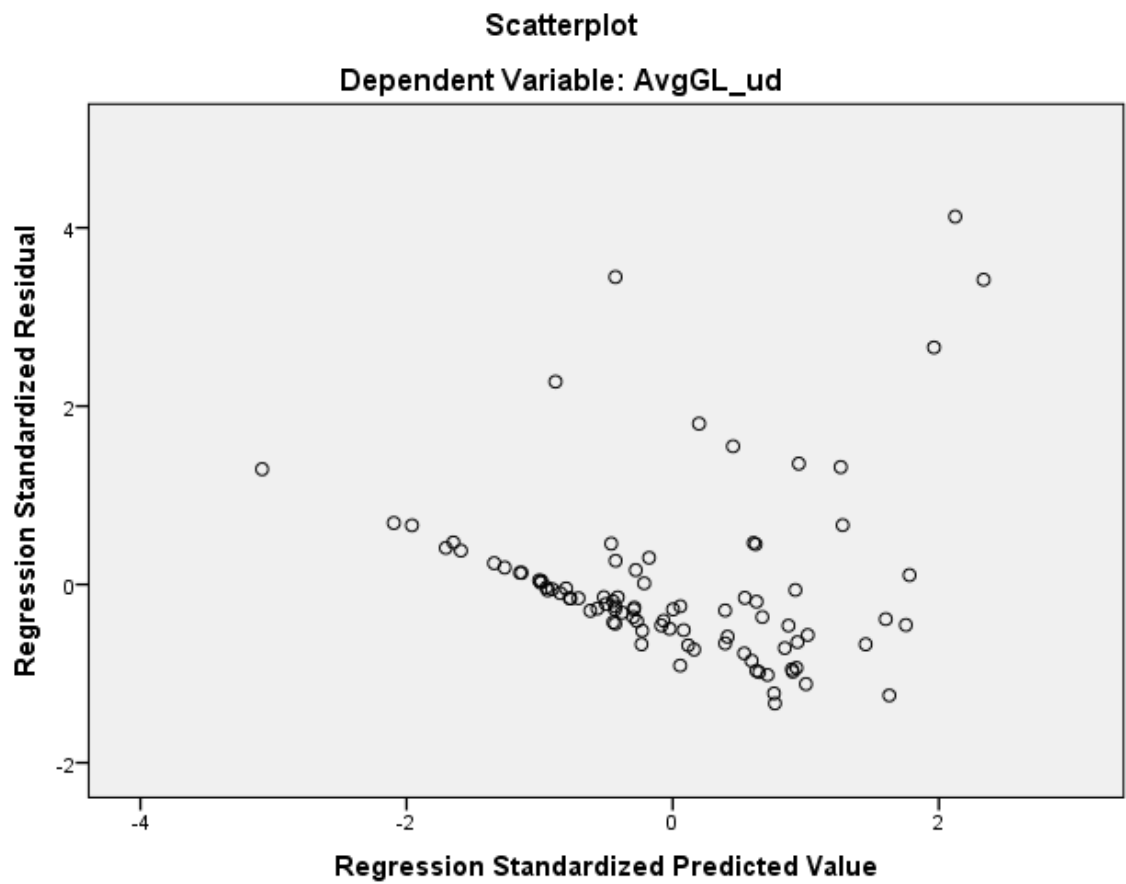
Residuals Statistics^a

	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		05-JUN-2015 18:54:32
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		00:00:00.19
	Elapsed Time		00:00:00.23
	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
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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: ECud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.230 ^a	.053	.042	.00255813474 9272

a. Predictors: (Constant), S_ud

b. Dependent Variable: ECud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	4.978	.028 ^b
	Residual	.001	89	.000		

Total	.001	90			
-------	------	----	--	--	--

a. Dependent Variable: ECud

b. Predictors: (Constant), S_ud

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.008	.001		7.301	.000
S_ud	.229	.103	.230	2.231	.028

Coefficients^a

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

a. Dependent Variable: ECud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	-.078 ^b	-.753	.453	-.080	.999	1.001
	PL_TSpudN	-.013 ^b	-.120	.905	-.013	.971	1.029
	R_ud	.092 ^b	.865	.389	.092	.943	1.061
	SMSP_ud	-.121 ^b	-1.160	.249	-.123	.975	1.025

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpudN	.999	
	PL_TSpudN	.971	
	R_ud	.943	
	SMSP_ud	.975	

a. Dependent Variable: ECud

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

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	S_ud

1	1	1.973	1.000	.01	.01
	2	.027	8.536	.99	.99

a. Dependent Variable: ECud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00950803607 7023	.01247151568 5320	.01098901098 9011	.00060164055 7407
Std. Predicted Value	-2.462	2.464	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00965988636 0168	.01287488732 4870	.01100147270 4052	.00060565674 8631
Residual	- .01081250142 3061	.00193559599 5747	.00000000000 0000	.00254388319 1312
Std. Residual	-4.227	.757	.000	.994
Stud. Residual	-4.251	.779	-.002	1.012
Deleted Residual	- .01093738805 5027	.00205088942 3117	- .00001246171 5041	.00263719751 2565
Stud. Deleted Residual	-4.735	.777	-.021	1.076
Mahal. Distance	.000	6.072	.989	1.402
Cook's Distance	.000	.631	.019	.080

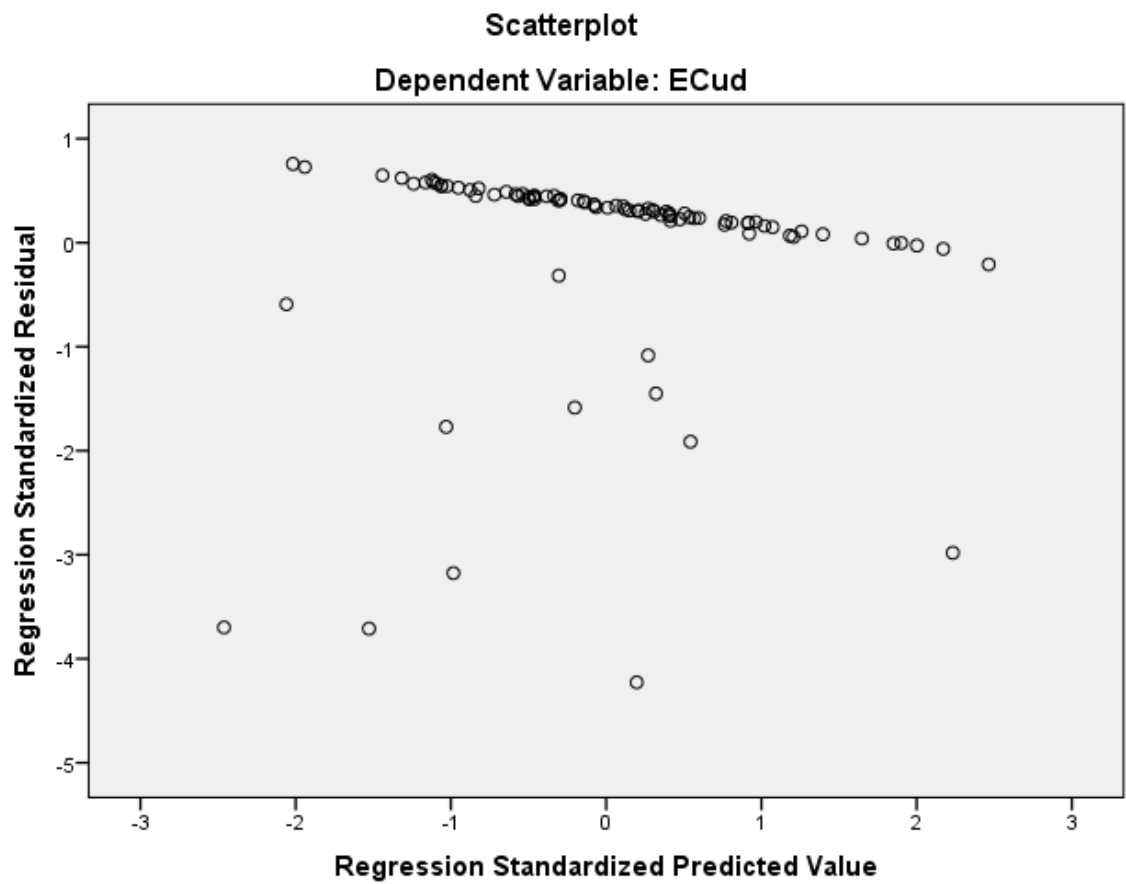
Centered Leverage Value	.000	.067	.011	.016
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Residuals Statistics^a

	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: ECud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

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

/NOORIGIN

/DEPENDENT PL_EVCudN

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		05-JUN-2015 18:54:53
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_EVCudN /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: PL_EVCudN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.344 ^a	.118	.108	.001418673977931
2	.423 ^b	.179	.160	.001376399829760

a. Predictors: (Constant), R_ud

b. Predictors: (Constant), R_ud, S_ud

c. Dependent Variable: PL_EVCudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	11.908	.001 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	9.601	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: PL_EVCudN

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)	.019	.002		8.189	.000

	R_ud	-.726	.210	-.344	-3.451	.001
2	(Constant)	.019	.002		8.353	.000
	R_ud	-.854	.210	-.404	-4.066	.000
	S_ud	.146	.057	.255	2.559	.012

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000
2	(Constant)		
	R_ud	.943	1.061
	S_ud	.943	1.061

a. Dependent Variable: PL_EVCudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	-.080 ^b	-.797	.428	-.085	.992	1.008
	PL_TSpudN	.012 ^b	.116	.908	.012	.884	1.131
	S_ud	.255 ^b	2.559	.012	.263	.943	1.061

	SMSP_ud	.016 ^b	.157	.876	.017	.968	1.033
2	PL_TpudN	-.095 ^c	-.979	.330	-.104	.989	1.011
	PL_TSpudN	.091 ^c	.854	.396	.091	.818	1.223
	SMSP_ud	-.014 ^c	-.144	.886	-.015	.954	1.048

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpudN	.992
	PL_TSpudN	.884
	S_ud	.943
	SMSP_ud	.968
2	PL_TpudN	.933
	PL_TSpudN	.794
	SMSP_ud	.923

a. Dependent Variable: PL_EVCudN

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	31.109	1.00	1.00	
2	1	2.964	1.000	.00	.00	.01
	2	.034	9.286	.02	.02	.98
	3	.002	38.118	.98	.98	.01

a. Dependent Variable: PL_EVCudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00948494393 3785	.01258172374 2187	.01098901098 9011	.00063576118 8459
Std. Predicted Value	-2.366	2.505	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00948330108 0763	.01268515083 9388	.01098899581 3231	.00064133788 7478
Residual	- .00164146150 9280	.00915030576 2887	.00000000000 0000	.00136102057 8014
Std. Residual	-1.193	6.648	.000	.989
Stud. Residual	-1.257	6.776	.000	1.006

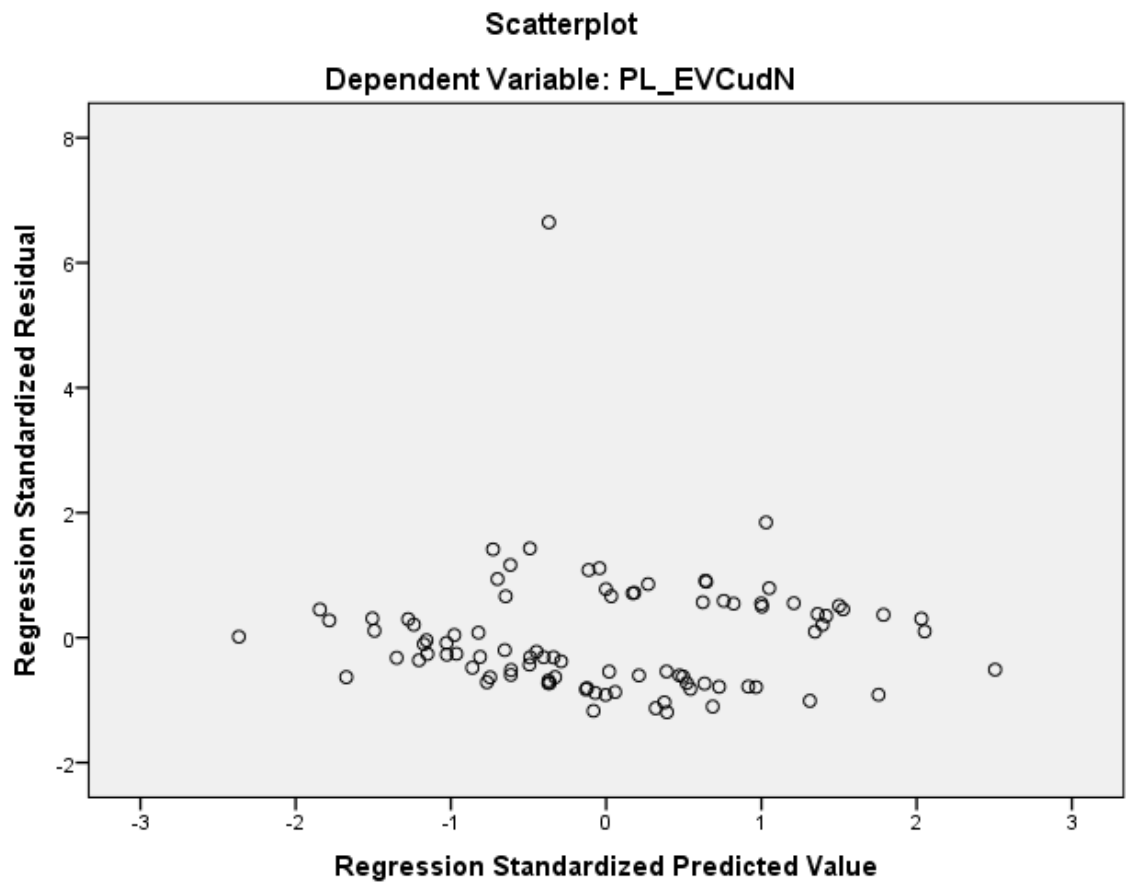
Deleted Residual	- .00182472507 0037	.00950625445 6937	.00000001517 5780	.00140929431 6618
Stud. Deleted Residual	-1.262	9.743	.033	1.248
Mahal. Distance	.061	10.552	1.978	2.090
Cook's Distance	.000	.595	.012	.063
Centered Leverage Value	.001	.117	.022	.023

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: PL_EVCudN

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	05-JUN-2015 18:55:20	
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	00:00:00.23
	Elapsed Time	00:00:00.24
	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).
2	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCud_TpudN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.666 ^a	.444	.437	.00363108224 6815
2	.735 ^b	.541	.531	.00331677972 9580

a. Predictors: (Constant), PL_TpudN

b. Predictors: (Constant), PL_TpudN, R_ud

c. Dependent Variable: EVCud_TpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.001	1	.001	70.948	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			
2	Regression	.001	2	.001	51.849	.000 ^c
	Residual	.001	88	.000		
	Total	.002	90			

a. Dependent Variable: EVCud_TpudN

b. Predictors: (Constant), PL_TpudN

c. Predictors: (Constant), PL_TpudN, R_ud

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	.000	.001		.355	.723
	PL_TpudN	.958	.114	.666	8.423	.000
2	(Constant)	-.023	.006		-4.141	.000
	PL_TpudN	.997	.104	.693	9.564	.000
	R_ud	2.132	.494	.313	4.320	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	PL_TpudN	1.000	1.000
2	(Constant)		
	PL_TpudN	.992	1.008
	R_ud	.992	1.008

a. Dependent Variable: EVCud_TpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TSpudN	.202 ^b	2.635	.010	.270	.996	1.004

	S_ud	-.031 ^b	-.393	.695	-.042	.999	1.001
	R_ud	.313 ^b	4.320	.000	.418	.992	1.008
	SMSP_ud	.057 ^b	.724	.471	.077	1.000	1.000
2	PL_TSpudN	.109 ^c	1.431	.156	.152	.883	1.132
	S_ud	-.114 ^c	-1.543	.126	-.163	.939	1.065
	SMSP_ud	.002 ^c	.022	.983	.002	.968	1.033

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TSpudN	.996
	S_ud	.999
	R_ud	.992
	SMSP_ud	1.000
2	PL_TSpudN	.880
	S_ud	.933
	SMSP_ud	.961

a. Dependent Variable: EVCud_TpudN

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

c. Predictors in the Model: (Constant), PL_TpudN, R_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	PL_TpudN	R_ud
1	1	1.957	1.000	.02	.02	
	2	.043	6.714	.98	.98	
2	1	2.938	1.000	.00	.01	.00
	2	.060	7.027	.01	.95	.01
	3	.002	38.453	.99	.04	.99

a. Dependent Variable: EVCud_TpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00458616577 0888	.01964746788 1441	.01098901098 9011	.00356024420 1775
Std. Predicted Value	-1.798	2.432	.000	1.000
Standard Error of Predicted Value	.000	.001	.001	.000
Adjusted Predicted Value	.00529356813 0583	.01987501047 5516	.01099605076 5671	.00357001614 6392
Residual	- .00458616577 0888	.01189525425 4341	.00000000000 0000	.00327971957 5005
Std. Residual	-1.383	3.586	.000	.989

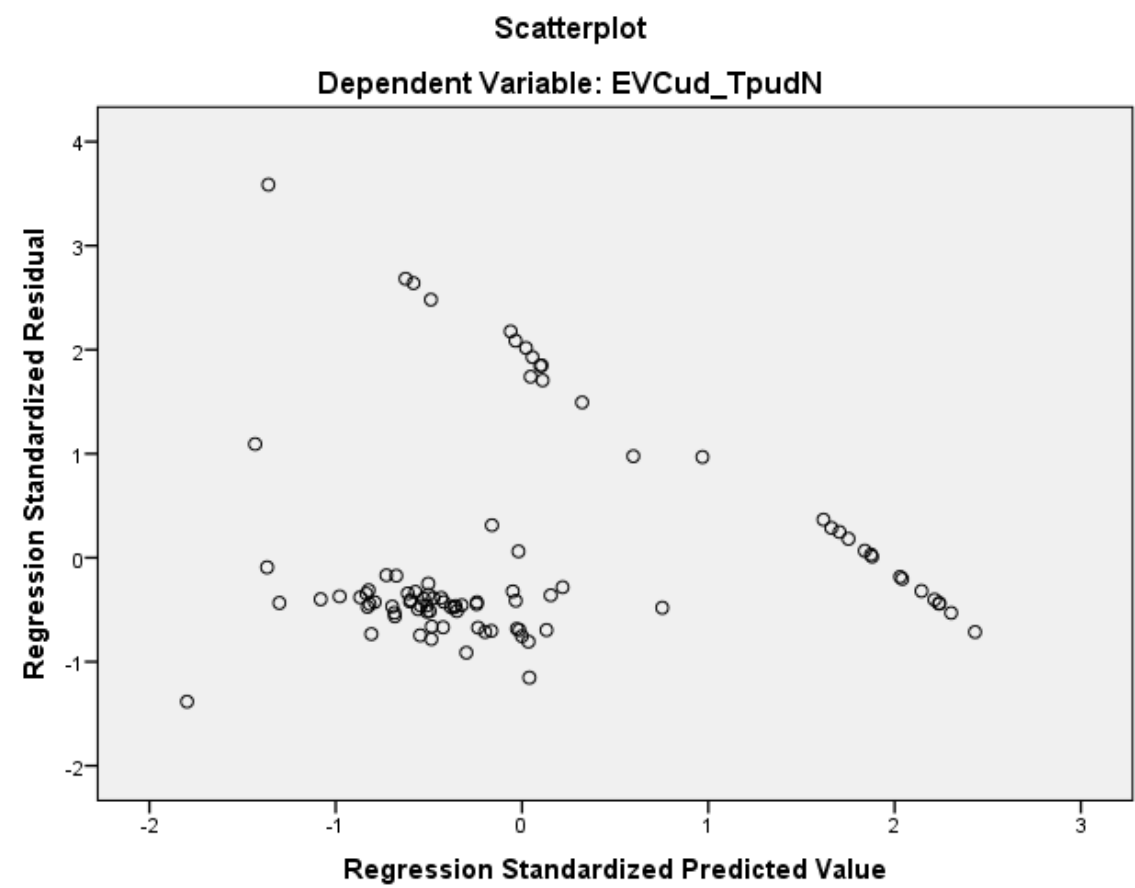
Stud. Residual	-1.486	3.698	-.001	1.004
Deleted Residual	-	-.01264901179	-	.00338260202
	.00529356813	8203	.00000703977	8770
	0583		6660	
Stud. Deleted Residual	-1.496	4.001	.009	1.030
Mahal. Distance	.048	11.038	1.978	2.155
Cook's Distance	.000	.289	.011	.033
Centered Leverage Value	.001	.123	.022	.024

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		05-JUN-2015 18:55:44
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	00:00:00.20
	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: EVCud_TSpudN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.266 ^a	.071	.060	.00044094758 7959

a. Predictors: (Constant), R_ud

b. Dependent Variable: EVCud_TSpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	6.777	.011 ^b
	Residual	.000	89	.000		
	Total	.000	90			

a. Dependent Variable: EVCud_TSpudN

b. Predictors: (Constant), R_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.013	.001		17.866	.000
	R_ud	-.170	.065	-.266	-2.603	.011

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_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	.033 ^b	.322	.749	.034	.992	1.008
	PL_TSpudN	.007 ^b	.060	.953	.006	.884	1.131
	S_ud	-.031 ^b	-.291	.772	-.031	.943	1.061
	SMSP_ud	.030 ^b	.283	.778	.030	.968	1.033

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpudN	.992	
	PL_TSpudN	.884	
	S_ud	.943	
	SMSP_ud	.968	

a. Dependent Variable: EVCud_TSpudN

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	31.109	1.00	1.00

a. Dependent Variable: EVCud_TSpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01068526878 9530	.01138121169 0605	.01098901098 9011	.00012100282 0306
Std. Predicted Value	-2.510	3.241	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01076057367 0268	.01142616476 8636	.01099156636 3294	.00011989761 5447
Residual	- .00202083424 6650	.00201274571 0090	.00000000000 0000	.00043849103 6321
Std. Residual	-4.583	4.565	.000	.994
Stud. Residual	-4.610	4.616	-.003	1.012
Deleted Residual	- .00204442720 8602	.00205793301 5749	- .00000255537 4283	.00045445628 5464

Stud. Deleted Residual	-5.253	5.262	-.011	1.105
Mahal. Distance	.000	10.506	.989	1.573
Cook's Distance	.000	.691	.019	.081
Centered Leverage Value	.000	.117	.011	.017

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

