

XLSTAT 2014.4.06 - ANCOVA - on 8/11/2014 at 10:52:59 AM

Y / Quantitative: Workbook = statisticasxlsx.xlsx / Sheet = inputdata / Range = inputdata!\$B\$5:\$B\$32

X / Quantitative: Workbook = statisticasxlsx.xlsx / Sheet = inputdata / Range = inputdata!\$C\$5:\$C\$32

X / Qualitative: Workbook = statisticasxlsx.xlsx / Sheet = inputdata / Range = inputdata!\$B\$5:\$B\$32 /

Constraints: an=0

Confidence interval (%): 95

Tolerance: 0.0001

Use least squares means: Yes

Summary statistics:

Variable	Observation	with missing	without missing	Minimum	Maximum	Mean	std. deviation
0.03	27	0	27	0.010	34.000	1.430	6.511
0.03	27	0	27	0.000	0.382	0.175	0.140

Variable	Categories	Frequency	%
0.03	0.01	2	7.407
	0.014	1	3.704
	0.015	2	7.407
	0.02	1	3.704
	0.03	2	7.407
	0.035	1	3.704
	0.05	2	7.407
	0.15	1	3.704
	0.19	1	3.704
	0.24	1	3.704
	0.267	1	3.704
	0.28	2	7.407
	0.281	1	3.704
	0.289	1	3.704
	0.301	1	3.704
	0.31	1	3.704
	0.32	2	7.407
	0.35	1	3.704
	0.36	1	3.704
	0.4	1	3.704
	34	1	3.704

Correlation matrix:

Variables	0.03	0.03-0.01	0.03-0.014	0.03-0.015	0.03-0.02	0.03-0.03	0.03-0.035	0.03-0.05
0.03	1.000	-0.358	-0.235	-0.339	-0.224	-0.308	-0.207	-0.257

0.03-0.01	-0.358	1.000	-0.055	-0.080	-0.055	-0.080	-0.055	-0.080
0.03-0.014	-0.235	-0.055	1.000	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.015	-0.339	-0.080	-0.055	1.000	-0.055	-0.080	-0.055	-0.080
0.03-0.02	-0.224	-0.055	-0.038	-0.055	1.000	-0.055	-0.038	-0.055
0.03-0.03	-0.308	-0.080	-0.055	-0.080	-0.055	1.000	-0.055	-0.080
0.03-0.035	-0.207	-0.055	-0.038	-0.055	-0.038	-0.055	1.000	-0.055
0.03-0.05	-0.257	-0.080	-0.055	-0.080	-0.055	-0.080	-0.055	1.000
0.03-0.15	-0.079	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.19	0.004	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.24	0.075	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.267	0.114	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.28	0.187	-0.080	-0.055	-0.080	-0.055	-0.080	-0.055	-0.080
0.03-0.281	0.131	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.289	0.145	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.301	0.165	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.31	0.165	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.32	0.297	-0.080	-0.055	-0.080	-0.055	-0.080	-0.055	-0.080
0.03-0.35	0.249	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.36	0.263	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-0.4	0.294	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03-34	0.219	-0.055	-0.038	-0.055	-0.038	-0.055	-0.038	-0.055
0.03	0.240	-0.063	-0.043	-0.063	-0.043	-0.062	-0.043	-0.061

Multicollinearity statistics:

Statistic	0.03	0.03-0.01	0.03-0.014	0.03-0.015	0.03-0.02	0.03-0.03	0.03-0.035	0.03-0.05
Tolerance	0.000	0.872	0.945	0.885	0.950	0.905	0.957	0.934
VIF	9129.876	1.147	1.059	1.130	1.053	1.105	1.045	1.071

Regression of variable 0.03:

Goodness of fit statistics:

Observatio	27.000
Sum of we	27.000
DF	5.000
R ²	1.000
Adjusted R	1.000
MSE	0.000
RMSE	0.000
MAPE	0.000
DW	
Cp	22.000
AIC	

SBC	
PC	0.000

Analysis of variance:

Source	DF	Sum of squares	Mean square	F	Pr > F
Model	21	1102.087	52.480		
Error	5	0.000	0.000		
Corrected	26	1102.087			

Computed against model $Y = \text{Mean}(Y)$

Model parameters:

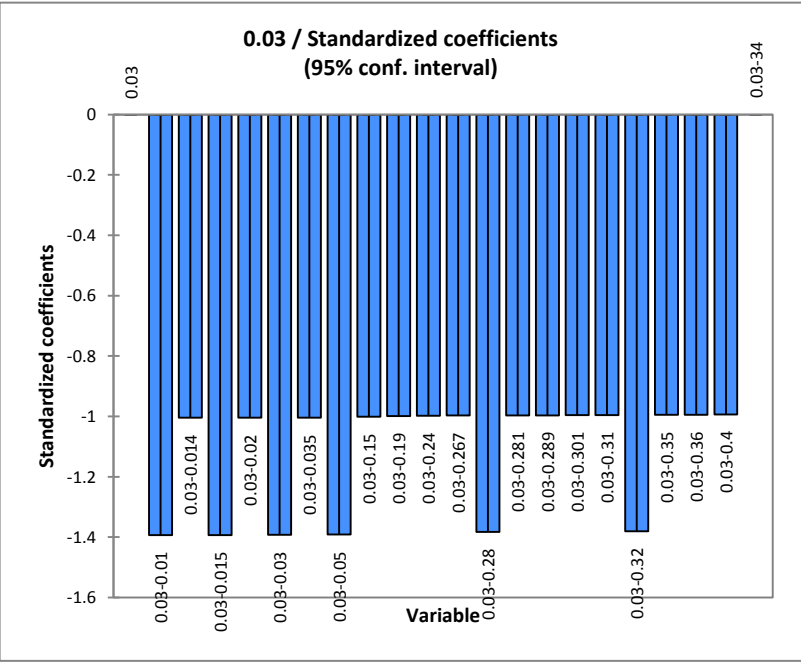
Source	Value	Standard error	t	Pr > t	Lower bound (5%)	Upper bound (95%)
Intercept	34.000	0.000				
0.03	0.000	0.000				
0.03-0.01	-33.990	0.000				
0.03-0.014	-33.986	0.000				
0.03-0.015	-33.985	0.000				
0.03-0.02	-33.980	0.000				
0.03-0.03	-33.970	0.000				
0.03-0.035	-33.965	0.000				
0.03-0.05	-33.950	0.000				
0.03-0.15	-33.850	0.000				
0.03-0.19	-33.810	0.000				
0.03-0.24	-33.760	0.000				
0.03-0.267	-33.733	0.000				
0.03-0.28	-33.720	0.000				
0.03-0.281	-33.719	0.000				
0.03-0.289	-33.711	0.000				
0.03-0.301	-33.699	0.000				
0.03-0.31	-33.690	0.000				
0.03-0.32	-33.680	0.000				
0.03-0.35	-33.650	0.000				
0.03-0.36	-33.640	0.000				
0.03-0.4	-33.600	0.000				
0.03-34	0.000	0.000				

Equation of the model:

$$0.03 = 34.0000000002655 - 8.06353889602984E-10 * 0.03 - 33.9900000002646 * 0.03 - 0.01 - 33.986000000$$

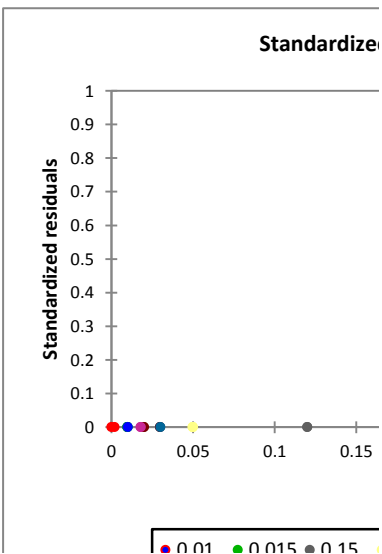
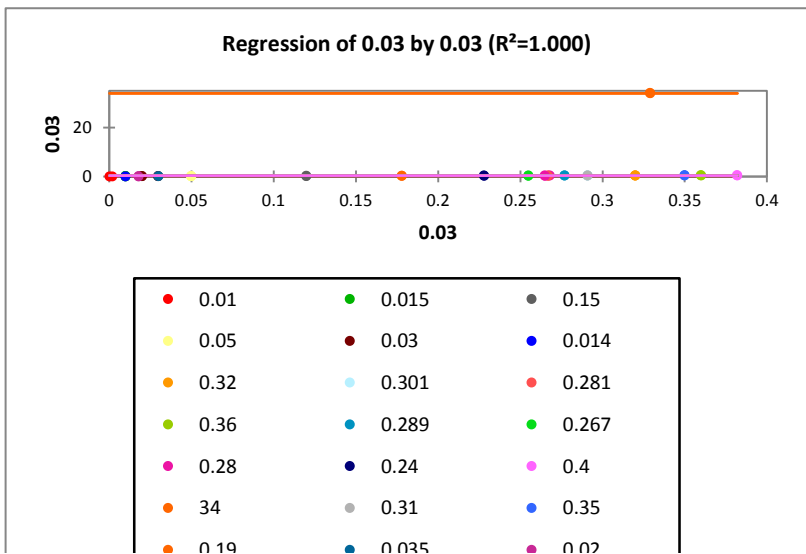
Standardized coefficients:

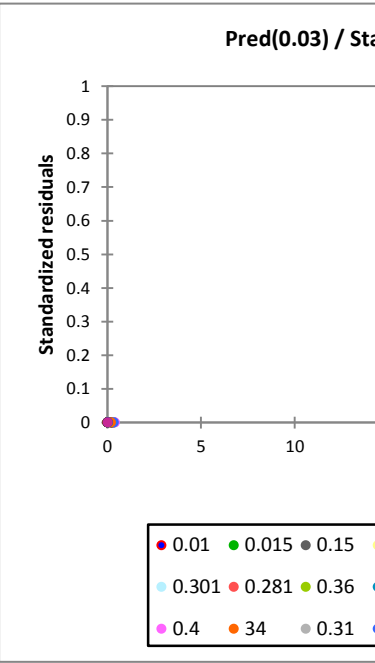
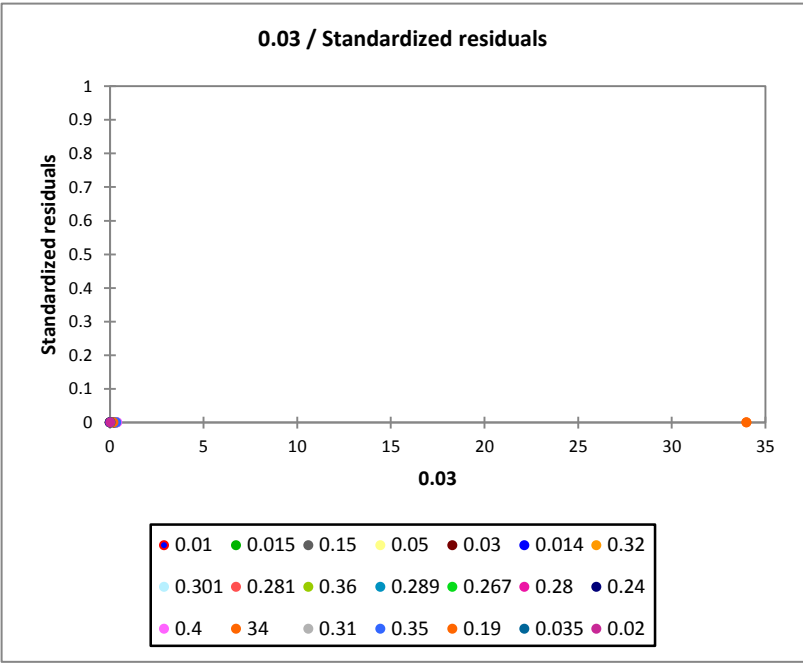
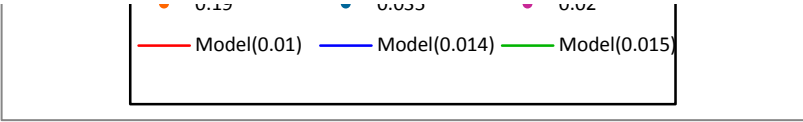
Source	Value	Standard error	t	Pr > t	Lower bound (95%)	Upper bound (95%)
0.03	0.000	0.000				
0.03-0.01	-1.393	0.000				
0.03-0.014	-1.005	0.000				
0.03-0.015	-1.393	0.000				
0.03-0.02	-1.004	0.000				
0.03-0.03	-1.392	0.000				
0.03-0.035	-1.004	0.000				
0.03-0.05	-1.392	0.000				
0.03-0.15	-1.001	0.000				
0.03-0.19	-0.999	0.000				
0.03-0.24	-0.998	0.000				
0.03-0.267	-0.997	0.000				
0.03-0.28	-1.382	0.000				
0.03-0.281	-0.997	0.000				
0.03-0.289	-0.996	0.000				
0.03-0.301	-0.996	0.000				
0.03-0.31	-0.996	0.000				
0.03-0.32	-1.381	0.000				
0.03-0.35	-0.995	0.000				
0.03-0.36	-0.994	0.000				
0.03-0.4	-0.993	0.000				
0.03-34	0.000	0.000				



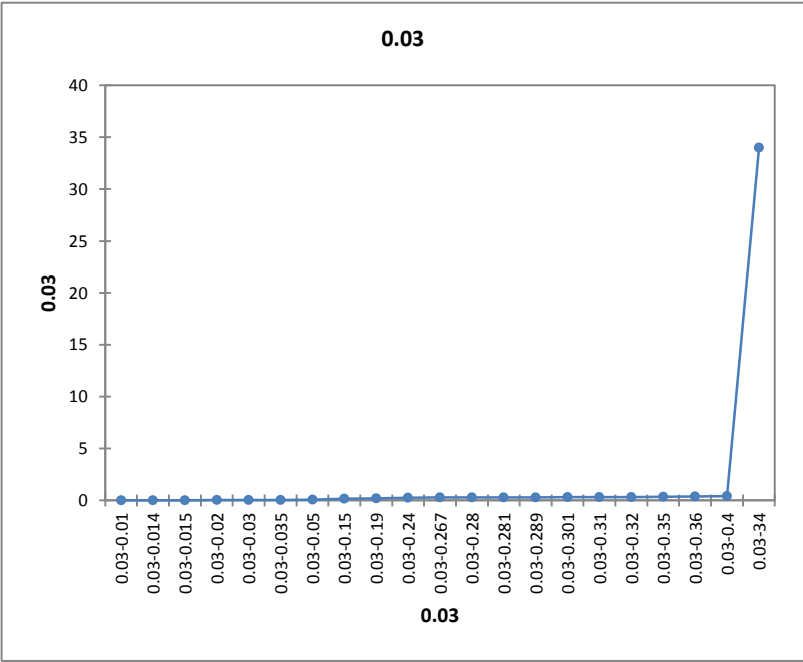
Predictions and residuals:

Observator	Weight	0.03	0.03	Pred(0.03)	Residual	std. residual	antized resiv. on pred.
Obs1	1	0.010	0.015	0.015	0.000	0.000	1.000
Obs2	1	0.002	0.010	0.010	0.000	0.000	1.000
Obs3	1	0.120	0.150	0.150	0.000	0.000	0.000
Obs4	1	0.050	0.050	0.050	0.000	0.000	1.000
Obs5	1	0.020	0.030	0.030	0.000	0.000	1.000
Obs6	1	0.010	0.014	0.014	0.000	0.000	0.000
Obs7	1	0.320	0.320	0.320	0.000	0.000	1.000
Obs8	1	0.291	0.301	0.301	0.000	0.000	0.000
Obs9	1	0.267	0.281	0.281	0.000	0.000	0.000
Obs10	1	0.360	0.360	0.360	0.000	0.000	0.000
Obs11	1	0.277	0.289	0.289	0.000	0.000	0.000
Obs12	1	0.255	0.267	0.267	0.000	0.000	0.000
Obs13	1	0.320	0.320	0.320	0.000	0.000	1.000
Obs14	1	0.265	0.280	0.280	0.000	0.000	1.000
Obs15	1	0.228	0.240	0.240	0.000	0.000	0.000
Obs16	1	0.382	0.400	0.400	0.000	0.000	0.000
Obs17	1	0.329	34.000	34.000	0.000	0.000	0.000
Obs18	1	0.291	0.310	0.310	0.000	0.000	0.000
Obs19	1	0.350	0.350	0.350	0.000	0.000	0.000
Obs20	1	0.268	0.280	0.280	0.000	0.000	1.000
Obs21	1	0.178	0.190	0.190	0.000	0.000	0.000
Obs22	1	0.050	0.050	0.050	0.000	0.000	1.000
Obs23	1	0.030	0.035	0.035	0.000	0.000	0.000
Obs24	1	0.018	0.020	0.020	0.000	0.000	0.000
Obs25	1	0.030	0.030	0.030	0.000	0.000	1.000
Obs26	1	0.010	0.015	0.015	0.000	0.000	1.000
Obs27	1	0.000	0.010	0.010	0.000	0.000	1.000





Means charts:



2 / 27 rows and 1 column

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/ 27 rows and 1 column

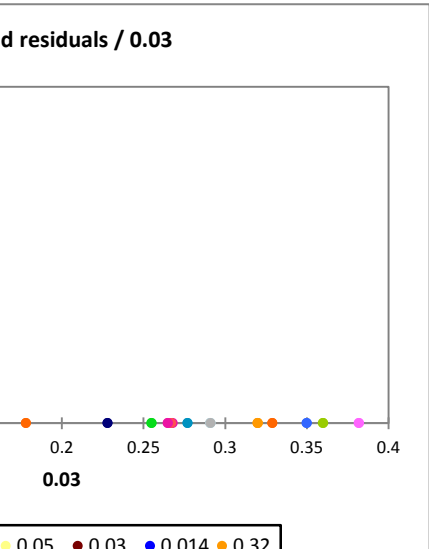
0.03-0.15	0.03-0.19	0.03-0.24	0.03-0.267	0.03-0.28	0.03-0.281	0.03-0.289	0.03-0.301	0.03-0.31	0.03-0.32
-0.079	0.004	0.075	0.114	0.187	0.131	0.145	0.165	0.165	0.297

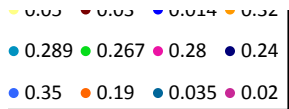
-0.055	-0.055	-0.055	-0.055	-0.080	-0.055	-0.055	-0.055	-0.055	-0.080
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.055	-0.055	-0.055	-0.055	-0.080	-0.055	-0.055	-0.055	-0.055	-0.080
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.055	-0.055	-0.055	-0.055	-0.080	-0.055	-0.055	-0.055	-0.055	-0.080
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.055	-0.055	-0.055	-0.055	-0.080	-0.055	-0.055	-0.055	-0.055	-0.080
1.000	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.038	1.000	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.038	-0.038	1.000	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.038	-0.038	-0.038	1.000	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.055	-0.055	-0.055	-0.055	1.000	-0.055	-0.055	-0.055	-0.055	-0.080
-0.038	-0.038	-0.038	-0.038	-0.055	1.000	-0.038	-0.038	-0.038	-0.055
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	1.000	-0.038	-0.038	-0.055
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	1.000	-0.038	-0.055
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	1.000	-0.055
-0.055	-0.055	-0.055	-0.055	-0.080	-0.055	-0.055	-0.055	-0.055	1.000
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.038	-0.038	-0.038	-0.038	-0.055	-0.038	-0.038	-0.038	-0.038	-0.055
-0.039	-0.038	-0.037	-0.036	-0.051	-0.035	-0.035	-0.035	-0.034	-0.049

0.03-0.15	0.03-0.19	0.03-0.24	0.03-0.267	0.03-0.28	0.03-0.281	0.03-0.289	0.03-0.301	0.03-0.31	0.03-0.32
0.994	1.000	0.994	0.987	0.965	0.983	0.979	0.973	0.973	0.912
1.006	1.000	1.006	1.013	1.036	1.017	1.021	1.028	1.028	1.097

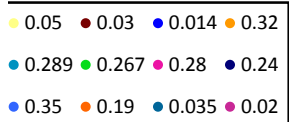
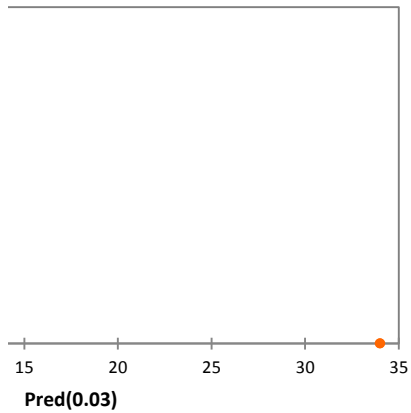
002574*0.03-0.014-33.9850000002574*0.03-0.015-33.980000000251*0.03-0.02-33.9700000002454*0.03-0.03

ound 95%ound 95% n pred. (Oktnd 95% (Oktnd 95% (Observation)

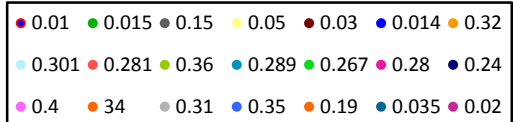
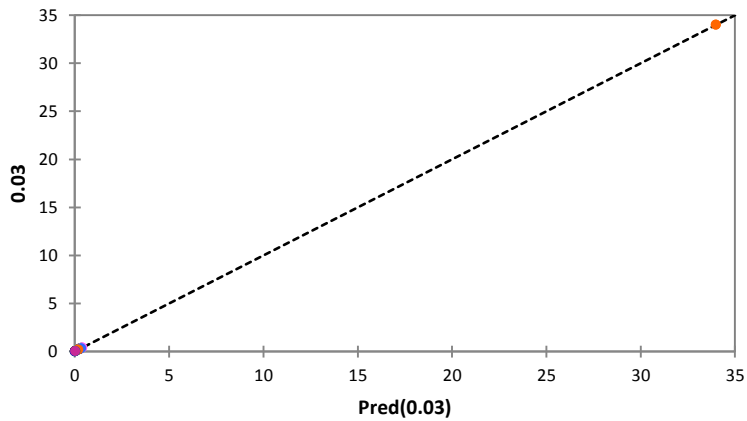




andardized residuals



Pred(0.03) / 0.03



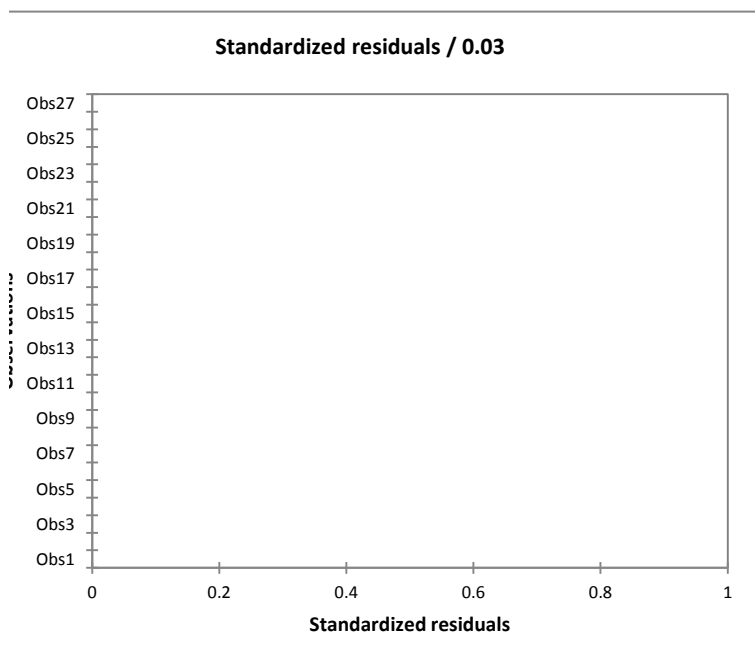
Observations

0.03-0.35	0.03-0.36	0.03-0.4	0.03-34	0.03
0.249	0.263	0.294	0.219	0.240

-0.055	-0.055	-0.055	-0.055	-0.063
-0.038	-0.038	-0.038	-0.038	-0.043
-0.055	-0.055	-0.055	-0.055	-0.063
-0.038	-0.038	-0.038	-0.038	-0.043
-0.055	-0.055	-0.055	-0.055	-0.062
-0.038	-0.038	-0.038	-0.038	-0.043
-0.055	-0.055	-0.055	-0.055	-0.061
-0.038	-0.038	-0.038	-0.038	-0.039
-0.038	-0.038	-0.038	-0.038	-0.038
-0.038	-0.038	-0.038	-0.038	-0.037
-0.038	-0.038	-0.038	-0.038	-0.036
-0.055	-0.055	-0.055	-0.055	-0.051
-0.038	-0.038	-0.038	-0.038	-0.035
-0.038	-0.038	-0.038	-0.038	-0.035
-0.038	-0.038	-0.038	-0.038	-0.035
-0.038	-0.038	-0.038	-0.038	-0.034
-0.055	-0.055	-0.055	-0.055	-0.049
1.000	-0.038	-0.038	-0.038	-0.033
-0.038	1.000	-0.038	-0.038	-0.033
-0.038	-0.038	1.000	-0.038	-0.032
-0.038	-0.038	-0.038	1.000	1.000
-0.033	-0.033	-0.032	1.000	1.000

0.03-0.35	0.03-0.36	0.03-0.4	0.03-34
0.938	0.931	0.913	0.952
1.066	1.074	1.095	1.050

|-33.9650000002413*0.03-0.035-33.9500000002252*0.03-0.05-33.8500000001687*0.03-0.15-33.81000000012



.19*0.03-0.19-33.7600000000816*0.03-0.24-33.7330000000598*0.03-0.267-33.7200000000506*0.03-0.28-33.7

7190000000502*0.03-0.281-33.7110000000421*0.03-0.289-33.6990000000308*0.03-0.301-33.6900000000308

3*0.03-0.31-33.68000000000075*0.03-0.32-33.64999999999832*0.03-0.35-33.63999999999752*0.03-0.36-33.599

