Data cleaning Methodology:

I used Python to clean my data as follows:

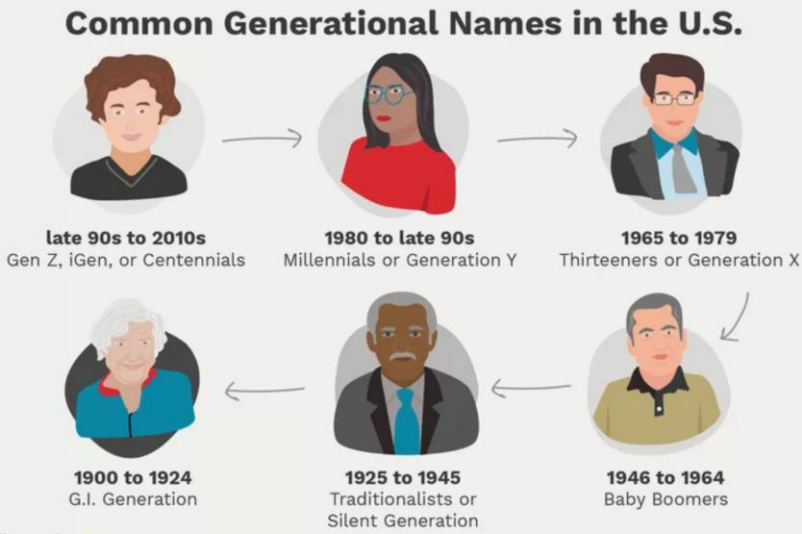
```
# importing libraries
import numpy as np
import pandas as pd

#import data file
data = pd.read_csv('C:\\Users\\rimo\\Desktop\\Term 2 Winter 2019\\DSC 423 Data Analysis and Regression\\Group Project\\suicide-rates-overview-1985-to-2016\\master.csv')

#Checking data
data.head()
data.columns.values

#Changing column names to appropriate names
data.columns = ['country', 'year', 'sex', 'age', 'suicides_no', 'population',
    'suicidesper100kpop', 'country-year', 'HDI for year',
    'gdp_for_year_dollars', 'gdp_per_capita_dollars', 'generation']
data.columns.values

#Remove commas within the gdp_for_year_dollars column observations
data['gdp_for_year_dollars'] = data['gdp_for_year_dollars'].str.replace(',','')

#Check data
data.info()
len(data.country.unique()) #number of the countries 101

#Subset the data to years 2006 to 2010 for the individual analysis
suicide = data[(data['year'] >= 2006) & (data['year'] <= 2010)]

#check the info and years in the new data set
suicide.info()          #5196 observations
suicide.head()
suicide.describe()
suicide.year.unique()

#check number of countries and generations used
len(suicide.country.unique())    #93 countries

#check for null values
suicide.isnull().sum().sort_values(ascending=False)

#since there is 4188 "HDI for year" nulls out of 5196 which is 80.6%, I would drop the column.
#Also, we don't need country-year
suicide = suicide.drop(['HDI for year', 'country-year'], axis=1)

#Import continent data set to create a continent column
#Source: https://www.kaggle.com/statchaitya/country-to-continent#countryContinent.csv
```

```
country = pd.read_csv('C:\\Users\\rimo\\Desktop\\Term 2 Winter 2019\\DSC 423 Data Analysis and Regr
ession\\Group Project\\suicide-rates-overview-1985-to-2016\\countryContinent.csv', encoding = "ISO-88
59-1")

#check data
country.info()
country.continent.unique()

#Drop unneccessary columns
country = country.drop(['code_2', 'code_3', 'country_code', 'iso_3166_2', 'sub_region', 'region_code', 'sub
_region_code'], axis=1)

#Check data and country names
country.info()          # 249 observations
country.country.unique()
suicide.country.unique()

#Compare country names per country in both data sets and check for different standarizations
#After careful checking, there are 4 countries have different names in the data set
#Unify country names to implement the aggregation
replacements = {
  'Saint Vincent and the Grenadines': 'Saint Vincent and Grenadines',
  'United States of America': 'United States',
  'United Kingdom of Great Britain and Northern Ireland': 'United Kingdom',
    'Korea (Republic of)': 'Republic of Korea'
}
country['country'].replace(replacements, inplace=True)

#Aggregate the two data sets using left join to create a continent column using country name as a key
result = pd.merge(suicide, country[['country', 'continent']], on='country',  how='left')

#check the resulted data set
result.info()           #5196 observations
result.head()
result.describe()

#Check how to limit the observations so they are from 2k to 3k obs
#Count the number of observations for each continent
result.groupby('continent').count()                    # Europe has 2124 obs

#I would exclude Europe to reduce the amount of  observations to around 3072 obs.
my_dataframe = result[result.continent != 'Europe']

#I would exclude all the zero suicide rates in case of log transformation and to limit the observations as
well
my_dataframe = my_dataframe[my_dataframe.suicidesper100kpop != 0]

#Check my new and final data frame information
```

my_dataframe.info() *#2139 observations*
my_dataframe.head()

#Check the unique values in the qualitative independant variables to create dummy variables
my_dataframe.continent.unique()
#['Americas', 'Asia', 'Oceania', 'Africa']
my_dataframe.year.unique()
#[2007, 2006, 2008, 2009, 2010]
my_dataframe.sex.unique()
#['male', 'female']
my_dataframe.generation.unique()
#['Boomers', 'Silent', 'Millenials', 'Generation X', 'Generation Z']

#Finally, import the data frame into a csv file
my_dataframe.to_csv(r'C:\\Users\\rimo\\Desktop\\Term 2 Winter 2019\\DSC 423 Data Analysis and Regression\\Group Project\\suicide-rates-overview-1985-to-2016\\finalsuicide.csv', header=True, index=False)



Number of generations = 5
Number of dummy variables = 4
dgeneration1 = 1 if generation = 'Boomers', or otherwise dgeneration1 = 0
dgeneration2 = 1 if generation = 'Generation X', or otherwise dgeneration2 = 0
dgeneration3 = 1 if generation = 'Millenials', or otherwise dgeneration3 = 0
dgeneration4 = 1 if generation = 'Generation Z', or otherwise dgeneration4 = 0

	Z6 dage1	Z7 dage2	Z8 dage3	Z9 dage4	Z10 dage5
5-14 years	0	0	0	0	0
15-24 years	1	0	0	0	0
25-34 years X	0	1	0	0	0
35-54 years	0	0	1	0	0
55-74 years	0	0	0	1	0
75+ years	0	0	0	0	1

Number of genders = 2
Number of dummy variables = 1
dsex = 1 if SEX = male
dsex = 0 if SEX = female

	Z5 dsex
male	1
female	0

Number of age groups = 6
Number of dummy variables = 5
dage1 = 1 if age = '15-24 years', or otherwise dage1 = 0
dage2 = 1 if age = '25-34 years', or otherwise dage2 = 0
dage3 = 1 if age = '35-54 years', or otherwise dage3 = 0
dage4 = 1 if age = '55-74 years', or otherwise dage4 = 0
dage5 = 1 if age = '75+ years', or otherwise dage5 = 0

	Z1 dgeneration1	Z2 dgeneration2	Z3 dgeneration3	Z4 dgeneration4
Silent	0	0	0	0
Boomers	1	0	0	0
Generation X	0	1	0	0
Millenials	0	0	1	0
Generation Z	0	0	0	1

Number of distinct years = 5 [2006, 2007, 2008, 2009,2010]
Number of dummy variables = 4
dyear1 = 1 if year = 2007, or otherwise dyear1 = 0
dyear2 = 1 if year = 2008, or otherwise dyear2 = 0
dyear3 = 1 if year = 2009, or otherwise dyear3 = 0
dyear4 = 1 if year = 2010, or otherwise dyear4 = 0

Number of continents = 4 ['Americas', 'Asia', 'Oceania', 'Africa']
Number of dummy variables = 3
dcontinent1 = 1 if continent = 'Africa', or otherwise dcontinent1 = 0
dcontinent2 = 1 if continent = 'Asia', or otherwise dcontinent2 = 0
dcontinent3 = 1 if continent = ' Oceania ', or otherwise dcontinent3 = 0

	Z11 dyear1	Z12 dyear2	Z13 dyear3	Z14 dyear4
2006	0	0	0	0
2007	1	0	0	0
2008	0	1	0	0
2009	0	0	1	0
2010	0	0	0	1

Reducing the number of variables to leave the more meaningful ones only:
Since I am predicting suicide rates 'suicideper100kpop' and the predictor suicide_no = (100k*population/suicideper100kpop). Therefore, I am not going to use suicide_no feature in my prediction model because it's unnecessary in this case.
The dependent variable is the suicideper100kpop "Y variable".

	Z15 dcontinent1	Z16 dcontinent2	Z17 dcontinent3
Americas	0	0	0
Africa	1	0	0
Asia	0	1	0
Oceania	0	0	1

Methodology:
Note: Ram is a contraction for graphs in the appendix

1. Analyze distribution of suicideper100kpop to see if the distribution is symmetric or skewed. *Ram1*

The distribution is positively skewed to the right as we can see the tail in the histogram graph above. Also, Mean is almost twice the Median which makes it positively skewed. Skewness = 4.1139.
For positive skew, there are the square root transformation, the log transformation, and the inverse/reciprocal transformation (in order of increasing severity).

2. Create scatterplots to visualize the associations between Suicideper100kpop and the other 3 qualitative variables and check the patterns displayed to see if the associations appear to be linear. Also, compute correlation values of suicide rates per 100k population vs the other variables to interpret the correlation values, and discuss which pairs of variables appear to be strongly associated. ***Ram2***

According to the correlation factors and the scatterplots matrix above, there is no linear correlation between suicideper100kpop and any of the quantitative predictors (population, gdp_for_year_dollars, and gdp_per_capita_dollars). Since the other predictors (age, generation, continent, sex, and year) were qualitative variables and then have been changed to dummy variables, they will not show any linear relationship and dots will be scattered around 0 and 1.

3. Regression before Y-transformation:

a. Fit a regression model of suicideper100kpop vs the other variables (model M1) then compute the VIF statistics for each x-variable to analyze whether there is a problem of multicollinearity. ***Ram3***

Using the absolute value of standardized estimate to determine the predictors with significant effect on balance. The strongest predictor is dgeneration3 since the standardized estimate is the highest 0.522. When performing t-test on individual parameters, gdp_per_capita_dollars, dage2, dyear1, dyear2, dyear4, dcontinent1, dcontinent2, and dcontinent3 have p-values that are bigger than 0.05 which make them insignificant X variables. The other variables are significant X variables.

Suicide rate per 100k population = $\beta_o + \beta_1$*population + β_2* gdp_for_year_dollars + β_3*gdp_per_capita_dollars + β_4*dsex + β_5*dgeneration1 + β_6* dgeneration2 +β_7* dgeneration3 + β_8*dgeneration4 +β_9*dage1 +β_{10}*dage2 +β_{11}*dage3 +β_{12}*dage4 +β_{13}*dage5 +β_{14}* dyear1 +β_{15}* dyear2 +β_{16}* dyear3 +β_{17}* dyear4 +β_{18}* dcontinent1 +β_{19}* dcontinent2 +β_{20}* dcontinent3 +e

Where dummy variables have the values described above in the first page for zeros and ones.

b. Diagnosing Multicollinearity:

1. Scatterplot matrix and Pearson correlation matrix for each pair of x variables:
There is no significant collinearity between any of the X variables since all the correlation values are low.
2. Compute Variance Inflation Factor (VIF):
All VIFs < 10. These VIFs suggest no collinearity for any of the independent variables. “The variables with high VIFs are dummy variables that represent a categorical variable with three or more categories. If the proportion of cases in the reference category is small, the indicator variables will necessarily have high VIFs, even if the categorical variable is not associated with other variables in the regression model.” Paul Allison said in his paper “When can you safely ignore multicollinearity”.
3. Compute Tolerance value (TOL):
All TOLs > 0.1. These TOLs suggest no collinearity for any of the independent variables.

4. Regression after the log transformation:

a. Analyze distribution of lnsuicideper100kpop to see if the distribution is symmetric or skewed.

After we applied log transformation, the distribution became almost normal since the mean is approximately equal to the median. Also, the histogram curve looks symmetrical. The skewness is -0.32 which is very small and can create a normal distribution. ***Ram4***

b. Create scatterplots to visualize the associations between lnsuicideper100kpop and the other 3 qualitative variables and check the patterns displayed to see if the associations appear to be linear. Ram5

Collinearity does not change much after the transformation and there is no significant linear correlation between lnsuicideper100kpop and any of the quantitative predictors.

c. Build boxplots to evaluate if suicide rates vary by (age, generation, continent, year, and sex). Ram6

According to the boxplots above, suicide rates do vary by age, generation, continent, and gender. However, suicide rates do not vary much by year. The mean and the median of suicide rates in different years from 2006 to 2010 do quite similar and do not vary much. Males committed suicide more than females. Furthermore, silent generation and people who are older than 75 years old committed suicide the most. On the other hand, Z-generation and kids who are 5-14 years old committed suicide the least. Africa had the least suicide rates among the 4 continents while Americas and Oceania have the most.

d. Fit a regression model of lnsuicideper100kpop vs the other variables (model M2) then compute the VIF statistics for each x-variable to analyze whether there is a problem of multicollinearity. Ram7

e. Comparing both models before and after the Y-variable transformation:

R^2 and Adj-R^2 increased from (0.2495 – 0.2438) to (0.5225 – 0.5188).

RMSE reduced from 14.482 to 0.9683.

The F-value has increased from 43.80 to 114.18, indicating a stronger support to this model. This indicates that there is at least one independent variable that has a strong influence on suicide rates.

f. Diagnosing Multicollinearity: They do not seem to have changed much.

1. Scatterplot matrix and Pearson correlation matrix for each pair of x variables:
There is no collinearity between any of the X variables because all the correlation values are low.
2. Compute Variance Inflation Factor (VIF):
All VIFs < 10. These VIFs suggest no collinearity for any of the independent variables.
3. Compute Tolerance value (TOL):
All TOLs > 0.1. These TOLs suggest no collinearity for any of the independent variables.

g. Fit a full model (with all independent variables) to predict Suicide rates. Discuss the parameter estimates, significance, goodness-of-fit and AdjR2 values.

lnsuicideper100kpopulation = $\beta_0 + \beta_1$*population + β_2* gdp_for_year_dollars + β_3*gdp_per_capita_dollars + β_4*dsex + β_5*dgeneration1 + β_6* dgeneration2 +β_7* dgeneration3 + β_8*dgeneration4 +β_9*dage1 +β_{10}*dage2 +β_{11}*dage3 +β_{12}*dage4 +β_{13}*dage5 +β_{14}* dyear1 +β_{15}* dyear2 +β_{16}* dyear3 +β_{17}* dyear4 +β_{18}* dcontinent1 +β_{19}* dcontinent2 +β_{20}* dcontinent3 +e

Where dummy variables have the values described above in the first page for zeros and ones

h. Goodness of Fit:

Null hypothesis Ho: $\beta_1 = \beta_2 = \beta_3 = \beta_4 = \ldots = 0$. No association between Y and x-variables

Alternative hypothesis Ha: At least one coefficient. F = 144.18 and with p-value less than 0.05.

The null hypothesis of no association between y and x is rejected and the F-test gives strong support to the fitted model. Linear regression explains variation in Y because SSR >>SSE, thus F statistic is large.

Using the absolute value of standardized estimate to determine the predictors with significant effect on lnsuicideper100kpop. The strongest predictor is dgeneration3 since the standardized estimate is the highest 0.76. When performing t-test on individual parameters, gdp_per_capita_dollars, dage2, dyear1, dyear2, dyear3, dyear4, and dcontinent3 have p-values that are higher than 0.05 which make them insignificant X-variables. The other variables' p-values (population, gdp_for_year_dollars, dsex, dgeneration1, dgeneration2, dgeneration3, dgeneration4, dage1, dage3, dage4, dage5, dcontinent1 dcontinent2) are less than 0.05 which make them significant X-variables.

The coefficient value of the parameter of X measures the predicted change in Y "log(suicideper100kpop" for any unit increase in X while the other independent variables stay constant. For example, if the gender variable changed from a female to a male, the logarithmic transformation of the suicide rates per 100k population will increase by 1.12.

Adj-R2 0.5188 does not show a very good model and a higher Adj-R2 will give a better model.

i. Model assumptions:

Create residual plots for M2 (standardized residuals vs predicted; standardized residuals vs x-variables; and normal plot of residuals) to analyze the residual plots and check if the regression model assumptions are met by the data.

i-a. Assumptions of Constant Variance and Independence:

1. Plot residuals vs predicted values. **Ram8**

Points are randomly scattered, and residual analysis show no concern for the model fit.

2. Plot residuals vs each x-variable. **Ram9**

There is no linearity shown in all scatterplots where Y-variable is plotted against each X-variable as it's shown in the next matrix scatterplot.

i-b. Assumptions for linearity:

1. Scatterplot for each x-variable.

There is no linear association shown in the scatterplots. ***Ram10***

2. Plot residuals vs each x-variable.

None of them show a straight line as it was shown in the residuals vs each x-variable graphs in the first part above. Therefore, there is no linearity.

i-c. Assumptions for Normality:

Plot the normal probability plot of the residuals. It's almost straight which means it's normal. ***Ram11***

j. Analyze if there are any outliers and/or influential points for M2 model.

Yes, there are multiple outliers and influential points as they are shown in the figures below.
I would exclude all the outliers and influential points and rerun the model again.
Outliers are the observation numbers (2020, 2153, 2179)
Influential points are the observation numbers (84, 218, 667, 1051, 1132, 1384, 1562, 1631, 1812, 2020, 2153, 2179)
Ram12

After removing all these 12 observations and rerun the model, there will be no outliers or influential points in the new dataset. We can also see improvements as R^2 and Adj-R^2 increased from (0.5225 – 0.5188) to (0.5336 – 0.5301) and RMSE decreased from 0.9683 to 0.9484.

5. Split the new data set to create Test and Training sets. 70% data for training and 30% data set for testing. *Ram13*

Create a new variable that's equal to dependent variable for training set.

6. Apply two variable selection procedures to find an optimal subset of independent variables to predict suicide rates per 100k population.

The first selection is cp method: **Ram14**

The best model is the first one with cp = 7.569 and 9 X-variables. Good model contains as few variables as possible.
The second selection is stepwise: **Ram15**

The best model is the one that has the lowest number of independent variables which was suggested by both stepwise and cp selection.

7. Fit a regression model M3 for Suicide rates per 100k population based on the selection results. Ram16

a. Regression Model M3:

lnsuicideper100kpopulation = 1.4862 + -2.18E-8*population + 6.163E-14* gdp_for_year_dollars + 1.151*dsex - 2.2276* dgeneration3 – 2.2128*dgeneration4 + 2.0511*dage1 + .31566*dage5 – 0.83* dcontinent1 - 0.3211* dcontinent2

b. Diagnosing Multicollinearity:

1. Scatterplot matrix and Pearson correlation matrix for each pair of x variables:
There is a significant collinearity between dage1 and dgeneration3 and the correlation coefficient is 0.91687. As it's mentioned above, these variables with high collinearity and VIFs are dummy variables

that represent a categorical variable with three or more categories. We can ignore them. Otherwise, there is no any other collinearity between other X variables because all the correlation values are low. **Ram17**

2. Compute Variance Inflation Factor (VIF):
All VIFs < 10. These VIFs suggest no collinearity for any of the independent variables.
3. Compute Tolerance value (TOL):
All TOLs > 0.1. These TOLs suggest no collinearity for any of the independent variables.

c. Model assumptions:

Create residual plots for M3 (standardized residuals vs predicted; standardized residuals vs x-variables; and normal plot of residuals) to analyze the residual plots and check if the regression model assumptions are met by the data.

c-a. Assumptions of Constant Variance and Independence:

1. Plot residuals vs predicted values. **Ram18**

Points are randomly scattered, and residual analysis show no concern for the model fit.

2. Plot residuals vs each x-variable. **Ram19**

Points are randomly scattered, and residual analysis show no concern for the model fit.

c-b. Assumptions for linearity:

1. Scatterplot for each x-variable.

There is no linear association shown in the scatterplots. **Ram20**

2. Plot residuals vs each x-variable.

None of them show a straight line as it was shown in the residuals vs each x-variable graphs in the first part above. Therefore, there is no linearity.

c-c. Assumptions for Normality:

Plot the normal probability plot of the residuals. It's almost straight which means it's normal. **Ram21**

d. Analyze if there are any outliers and/or influential points for M3 model.

Yes, there are multiple influential points and an outlier as they are shown in the figures below.
I would exclude all the influential points and rerun the model again.
The only outlier is the observation numbers (2274)
Influential points are the observation numbers (7, 74, 81, 87, 174, 217, 231, 955, 1127, 1207, 1314)

After removing all these 12 observations and rerun the model, there will be no outliers or influential points in the new dataset. Our model improved as R^2 and Adj-R^2 increased from (0.532 – 0.5295) to (0.5438 – 0.5413) and RMSE decreased from 0.9465 to 0.9338. **Ram22**

e. Final Fitted regression Model M4:

lnsuicideper100kpopulation = 1.47489 + -2.04877E-8*population + 6.1142E-14* gdp_for_year_dollars + 1.17262*dsex - 2.48734* dgeneration3 – 2.23228*dgeneration4 + 2.3005*dage1 + .30628*dage5 – 0.88739* dcontinent1 - 0.31239* dcontinent2

Where dsex = 1 if sex=male, and dsex=0 if sex=female
dgeneration3 = 1 if generation = 'Millenials', or otherwise dgeneration3 = 0
dgeneration4 = 1 if generation = 'Generation Z', or otherwise dgeneration4 = 0
dage1 = 1 if age = '15-24 years', or otherwise dage1 = 0
dage5 = 1 if age = '75+ years', or otherwise dage5 = 0
dcontinent1 = 1 if continent = 'Africa', or otherwise dcontinent1 = 0
dcontinent2 = 1 if continent = 'Asia', or otherwise dcontinent2 = 0

f. Test performance for the new model M4:
Compute performance statistics – Root Mean Square Error (RMSE), Mean Absolute Error (MAE) and R^2 for Test set. **Ram23**

For Test set: RMSE = 0.95536, MAE = 0.7516, R^2 = (yhat^2) = 0.72762^2= 0.529
For Training set: RMSE = 0.93381, R^2 = 0.5438
Abs(model R^2 - R^2_{cv}) = 0.529 - 0.5438 = 0.0148

g. Use SAS to compute the predicted suicide rates per 100k population and the confidence interval for:

g-a. 100000 male population who are Millennials 15-24 years old in Africa, and have GDP = $150000000000.
Predicted lnsuicidesper100kpop = 1.6654 with confidential intervals (-0.2427 – 3.5735).
That means 95% of the time, the predicted lnsuicidesper100kpop would fall within this range.
Suicide rate per 100k population = e(1.6654)-1= 4.2877
confidential intervals [(e(-0.2427)-1) – (e(3.5735)-1)] = (0 - 34.64)

g-b. 100000 female population who are Millennials 15-24 years old in Asia, and have GDP = $150000000000.

Predicted lnsuicidesper100kpop = 1.036 with confidential intervals (-0.8657 – 2.9377).
That means 95% of the time, the predicted lnsuicidesper100kpop would fall within this range.
Suicide rate per 100k population = e(1.036)-1= 1.81792
confidential intervals [(e(-0.8657)-1) – (e(2.9377)-1)] = (0 – 18.872)

Ram24

8. Fitting a Model with an interaction term:
An interaction occurs when an independent variable has a different effect on the outcome depending on

the values of another independent variable. Thus, I am going to use the product of population and gdp_for_year_dollars.

Check Multicollinearity using Pearson Correlation Coefficients. Then, center the data for of population and gdp_for_year_dollars. **Ram25**

a. Run Model Selection
Ram26

b. The new model with interaction terms M5:
Ram27

c. Model equation with centered data:

lnsuicideper100kpop = 1.61545 + 2.1787E-20 ((2569528-population)*gdp_for_year_dollars) – 2.4786E-20 ((7.26759E11- gdp_for_year_dollars)*population) + 4.31323E-8(2569528-population)

β_1 = 2.1787E-20
β_2 = 2.4786E-20
β_3 = 4.31323E-8

d. Compute the predicted suicide rates per 100k population:
d-a. 100000 population who have GDP for year = $150000000000.
lnsuicideper100kpop = 1.61545 + 2.1787E-20 ((2569528-**100000**)* **150000000000**) – 2.4786E-20 ((7.26759E11- **150000000000**)* **100000**) + 4.31323E-8(2569528-**100000**)
lnsuicideper100kpop = 1.61545 + 0.00807 - 0.001429555 + 0.106516 = 1.728606445

Suicide rates per 100k population = e(1.728606445) – 1 = 4.6327988

d-b. 200000 population who have GDP for year = $300000000000.

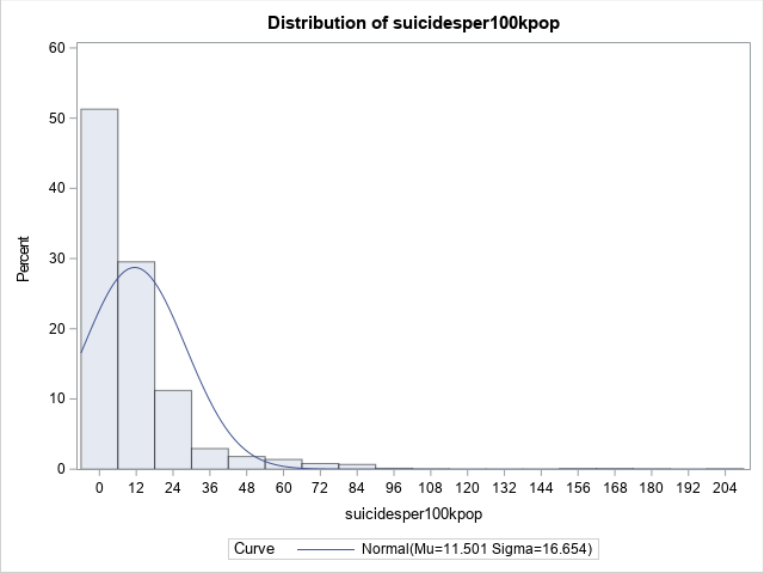
lnsuicideper100kpop = 1.61545 + 2.1787E-20 ((2569528-**200000**)* **300000000000**) – 2.4786E-20 ((7.26759E11- **300000000000**)* **200000**) + 4.31323E-8(2569528-**200000**)

lnsuicideper100kpop = 1.61545 + 0.015487472 + 0.00148716 + 0.102203 = 1.734627632

Suicide rates per 100k population = e(1.734627632) – 1 = 4.66681

Appendix

Ram1



The UNIVARIATE Procedure
Variable: suicidesper100kpop

Moments			
N	2391	Sum Weights	2391
Mean	11.5010163	Sum Observations	27498.93
Std Deviation	16.6535166	Variance	277.339617
Skewness	4.11398499	Kurtosis	27.9044005
Uncorrected SS	979107.326	Corrected SS	662841.684
Coeff Variation	144.800392	Std Error Mean	0.34057767

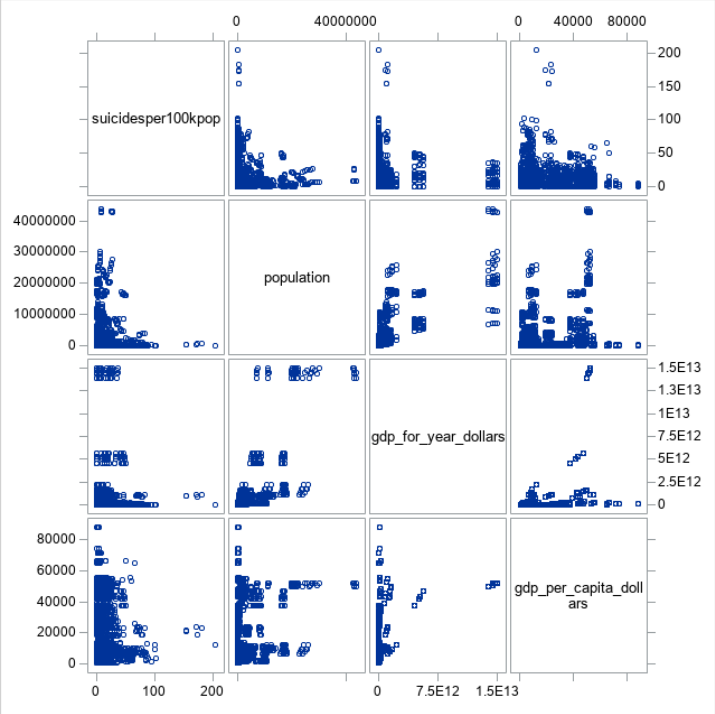
Basic Statistical Measures			
Location		Variability	
Mean	11.50102	Std Deviation	16.65352
Median	5.63000	Variance	277.33962
Mode	0.29000	Range	204.88000
		Interquartile Range	12.93000

Tests for Normality				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.245662	Pr > D	<0.0100
Cramer-von Mises	W-Sq	41.38562	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	227.606	Pr > A-Sq	<0.0050

Quantiles (Definition 5)	
Level	Quantile
100% Max	204.92
99%	79.39
95%	42.37
90%	26.19
75% Q3	14.89
50% Median	5.63
25% Q1	1.96
10%	0.75
5%	0.41
1%	0.20
0% Min	0.04

Ram2

Pearson Correlation Coefficients, N = 2391 Prob > |r| under H0: Rho=0				
	suicidesper100kpop	population	gdp_for_year_dollars	gdp_per_capita_dollars
suicidesper100kpop	1.00000	-0.03458 0.0910	0.04420 0.0307	0.01281 0.5314
population	-0.03458 0.0910	1.00000	0.75403 <.0001	0.20618 <.0001
gdp_for_year_dollars	0.04420 0.0307	0.75403 <.0001	1.00000	0.42895 <.0001
gdp_per_capita_dollars	0.01281 0.5314	0.20618 <.0001	0.42895 <.0001	1.00000



Ram3

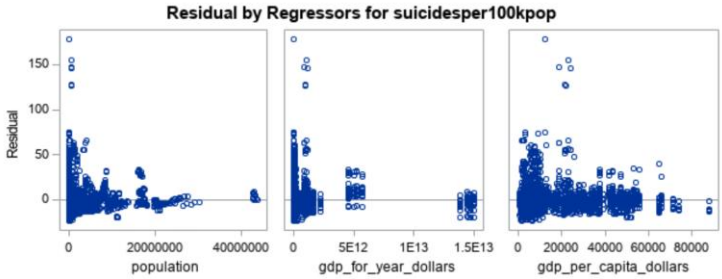
The REG Procedure
Model: MODEL1
Dependent Variable: suicidesper100kpop

Number of Observations Read	2391
Number of Observations Used	2391

Analysis of Variance

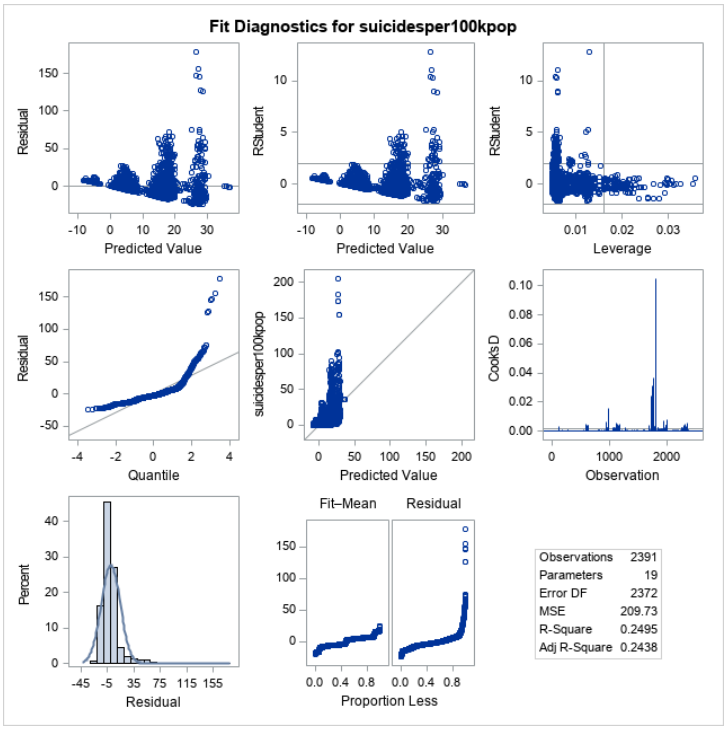
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	18	165363	9186.83257	43.80	<.0001
Error	2372	497479	209.72964		
Corrected Total	2390	662842			

Root MSE	14.48205	R-Square	0.2495
Dependent Mean	11.50102	Adj R-Sq	0.2438
Coeff Var	125.91970		

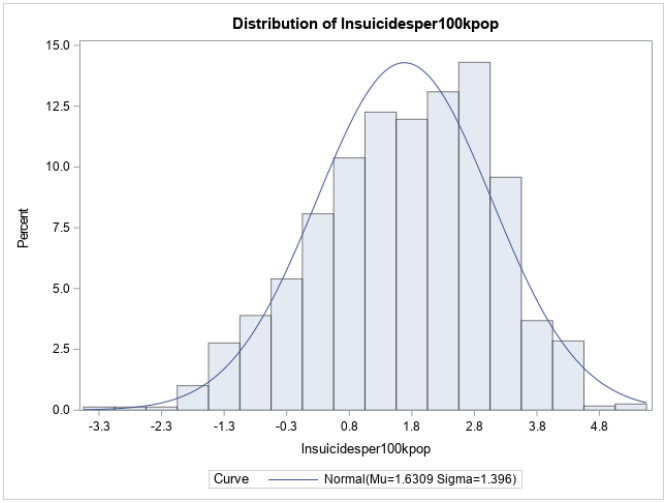


Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Standardized Estimate	Tolerance	Variance Inflation
Intercept	B	17.46356	1.12029	15.59	<.0001	0	.	0
population	1	-1.86191E-7	9.308322E-8	-2.00	0.0456	-0.05801	0.37618	2.65827
gdp_for_year_dollars	1	7.35842E-13	2.2121E-13	3.33	0.0009	0.10461	0.31996	3.12535
gdp_per_capita_dollars	1	-0.00002697	0.00002152	-1.25	0.2101	-0.02767	0.64947	1.53971
dsex	1	11.76773	0.59455	19.79	<.0001	0.35264	0.99676	1.00325
dgeneration1	B	-9.61350	1.15412	-8.33	<.0001	-0.20578	0.51846	1.92878
dgeneration2	B	-9.52091	1.84429	-5.16	<.0001	-0.23752	0.14947	6.69026
dgeneration3	B	-21.51656	2.06251	-10.43	<.0001	-0.52282	0.12598	7.93773
dgeneration4	B	-20.24836	1.22524	-16.53	<.0001	-0.37667	0.60908	1.64183
dage1	1	9.17208	2.02353	4.53	<.0001	0.21099	0.14603	6.84778
dage2	B	-0.41815	1.78659	-0.23	0.8150	-0.00971	0.18398	5.43524
dage3	0	0	.	.	.	.	.	.
dage4	B	-9.24097	1.07246	-8.62	<.0001	-0.20940	0.53576	1.86649
dage5	0	0	.	.	.	.	.	.
dyear1	1	-1.31230	0.98250	-1.34	0.1818	-0.03147	0.56990	1.75468
dyear2	1	-0.98567	0.99989	-0.99	0.3243	-0.02312	0.57522	1.73846
dyear3	1	-2.10420	0.97373	-2.16	0.0308	-0.05136	0.56019	1.78510
dyear4	1	-1.66732	1.04803	-1.59	0.1118	-0.04039	0.49088	2.03718
dcontinent1	1	-2.52446	1.36005	-1.86	0.0636	-0.03388	0.94993	1.05271
dcontinent2	1	-0.67810	0.66794	-1.02	0.3101	-0.01969	0.84138	1.18853
dcontinent3	1	-0.64698	1.33514	-0.48	0.6280	-0.00942	0.83686	1.19495



Ram4



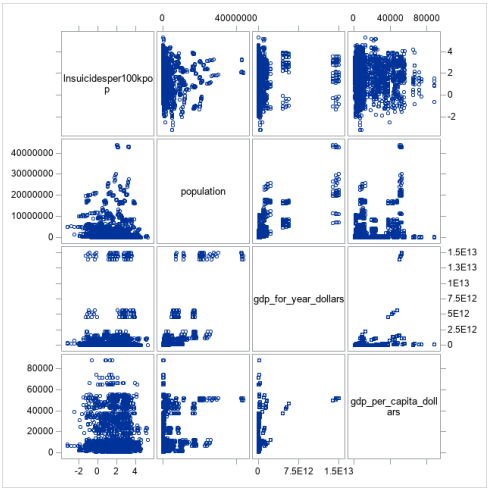
The UNIVARIATE Procedure
Variable: Insuicidesper100kpop

Moments			
N	2391	Sum Weights	2391
Mean	1.63087662	Sum Observations	3899.42601
Std Deviation	1.39597129	Variance	1.94873585
Skewness	-0.3296606	Kurtosis	-0.3110549
Uncorrected SS	11016.9614	Corrected SS	4657.47868
Coeff Variation	85.5963764	Std Error Mean	0.02854872

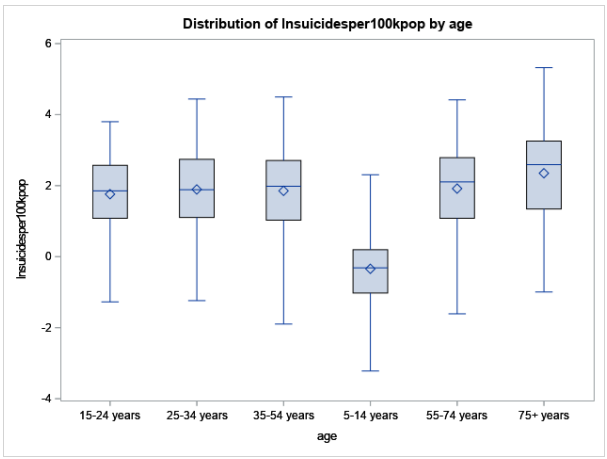
Basic Statistical Measures			
Location		Variability	
Mean	1.63088	Std Deviation	1.39597
Median	1.72811	Variance	1.94874
Mode	-1.23787	Range	8.54150
		Interquartile Range	2.02775

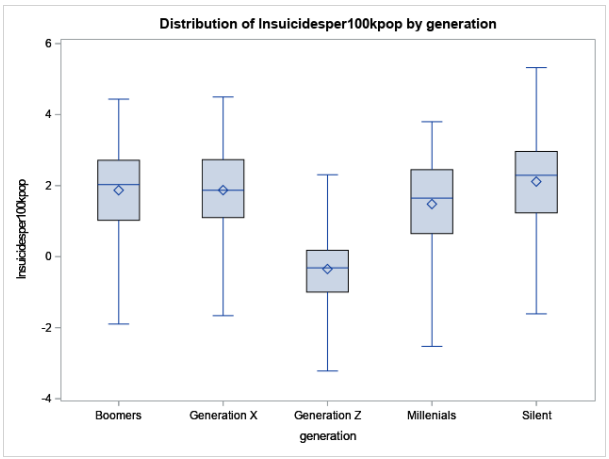
Ram5

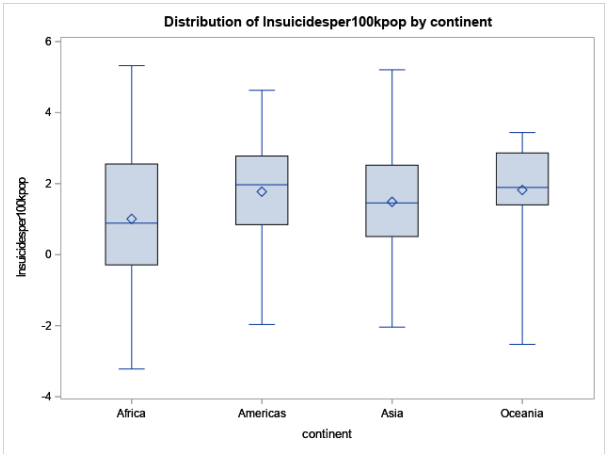
Pearson Correlation Coefficients, N = 2391 Prob > |r| under H0: Rho=0				
	Insuicidesper100kpop	population	gdp_for_year_dollars	gdp_per_capita_dollars
Insuicidesper100kpop	1.00000	-0.03964 0.0526	0.05480 0.0074	0.05283 0.0098
population	-0.03964 0.0526	1.00000	0.75403 <.0001	0.20618 <.0001
gdp_for_year_dollars	0.05480 0.0074	0.75403 <.0001	1.00000	0.42895 <.0001
gdp_per_capita_dollars	0.05283 0.0098	0.20618 <.0001	0.42895 <.0001	1.00000

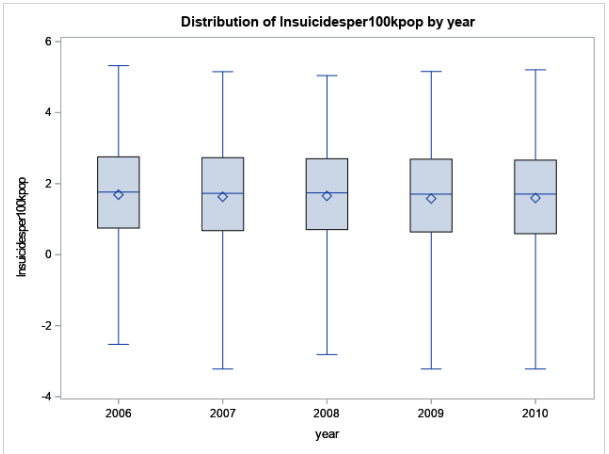


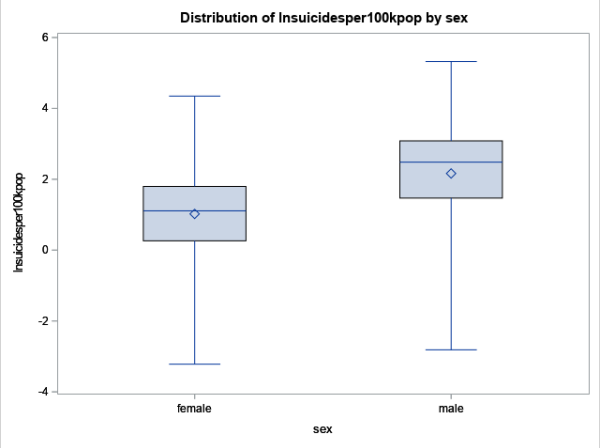
Ram6










Distribution of lnsuicidesper100kpop by sex
6
4
2
0
-2
-4
lnsuicidesper100kpop
female
male
sex

Ram7

The REG Procedure
Model: MODEL1
Dependent Variable: Insuicidesper100kpop

Number of Observations Read	2391
Number of Observations Used	2391

Analysis of Variance

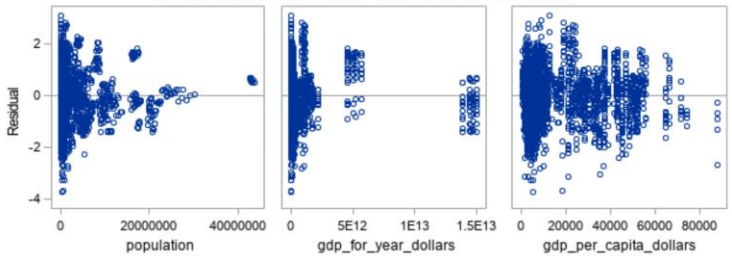
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	18	2433.39107	135.18839	144.18	<.0001
Error	2372	2224.08761	0.93764		
Corrected Total	2390	4657.47868			

Root MSE	0.96832	R-Square	0.5225
Dependent Mean	1.63088	Adj R-Sq	0.5188
Coeff Var	59.37416		

Quantiles (Definition 5)

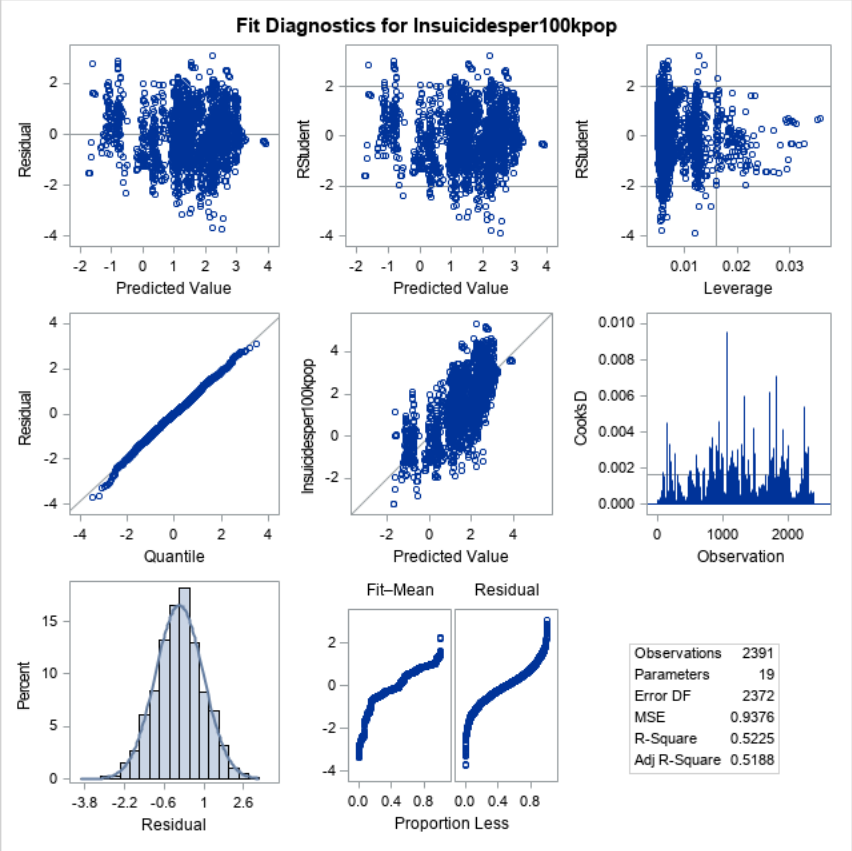
Level	Quantile
100% Max	5.322620
99%	4.374372
95%	3.746441
90%	3.265378
75% Q3	2.700690
50% Median	1.728109
25% Q1	0.672944
10%	-0.287682
5%	-0.891598
1%	-1.609438
0% Min	-3.218876

Residual by Regressors for Insuicidesper100kpop

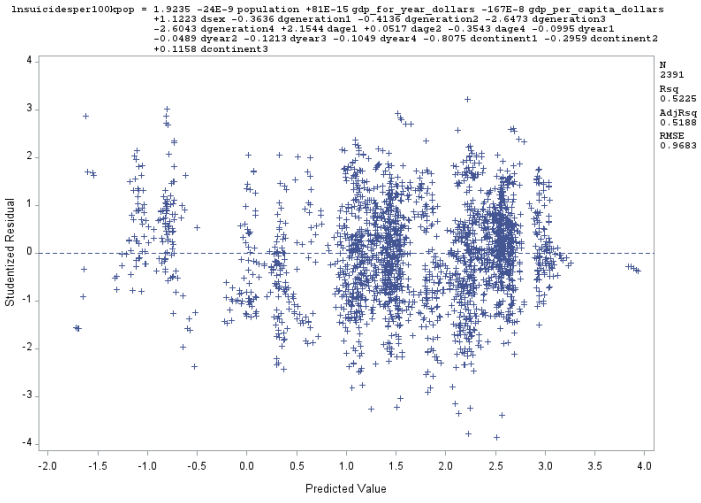


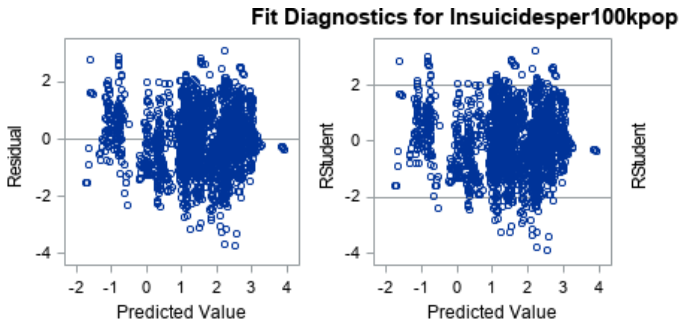
Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Standardized Estimate	Tolerance	Variance Inflation
Intercept	B	1.92352	0.07491	25.68	<.0001	0	.	0
population	1	-2.40457E-8	6.223864E-9	-3.86	0.0001	-0.08938	0.37618	2.65827
gdp_for_year_dollars	1	8.0893E-14	1.47909E-14	5.47	<.0001	0.13719	0.31996	3.12535
gdp_per_capita_dollars	1	-0.00000167	0.00000144	-1.16	0.2465	-0.02041	0.64947	1.53971
dsex	1	1.12233	0.03975	28.23	<.0001	0.40123	0.99676	1.00325
dgeneration1	B	-0.36360	0.07717	-4.71	<.0001	-0.09285	0.51846	1.92878
dgeneration2	B	-0.41357	0.12332	-3.35	0.0008	-0.12308	0.14947	6.69026
dgeneration3	B	-2.64732	0.13791	-19.20	<.0001	-0.76738	0.12598	7.93773
dgeneration4	B	-2.60432	0.08192	-31.79	<.0001	-0.57795	0.60908	1.64183
dage1	1	2.15443	0.13530	15.92	<.0001	0.59122	0.14603	6.84778
dage2	B	0.05168	0.11946	0.43	0.6653	0.01431	0.18398	5.43524
dage3	0	0	.	.	.	.	.	.
dage4	B	-0.35426	0.07171	-4.94	<.0001	-0.09577	0.53576	1.86649
dage5	0	0	.	.	.	.	.	.
dyear1	1	-0.09950	0.06569	-1.51	0.1300	-0.02847	0.56990	1.75468
dyear2	1	-0.04890	0.06686	-0.73	0.4646	-0.01368	0.57522	1.73846
dyear3	1	-0.12130	0.06511	-1.86	0.0626	-0.03532	0.56019	1.78510
dyear4	1	-0.10493	0.07007	-1.50	0.1344	-0.03032	0.49088	2.03718
dcontinent1	1	-0.80749	0.09094	-8.88	<.0001	-0.12927	0.94993	1.05271
dcontinent2	1	-0.29588	0.04466	-6.63	<.0001	-0.10248	0.84138	1.18853
dcontinent3	1	0.11580	0.08927	1.30	0.1947	0.02012	0.83686	1.19495

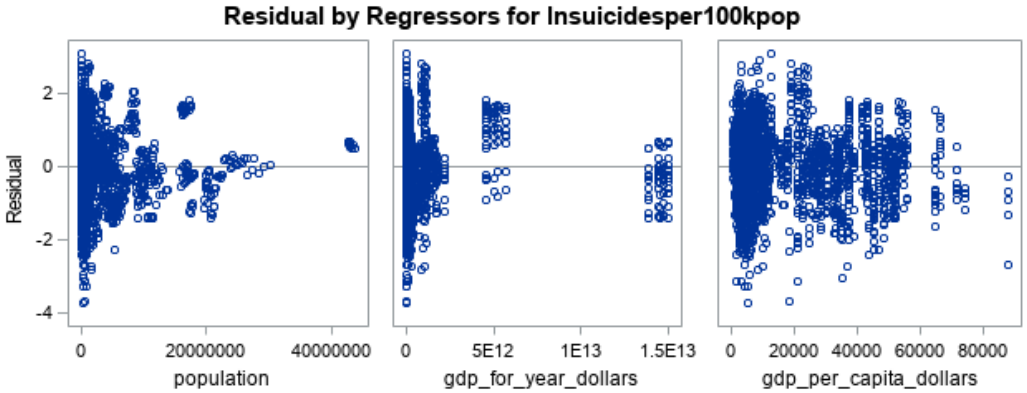

Fit Diagnostics for Insuicidesper100kpop
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
Insuicidesper100kpop
Predicted Value
Cooks D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 2391
Parameters 19
Error DF 2372
MSE 0.9376
R-Square 0.5225
Adj R-Square 0.5188

Ram8

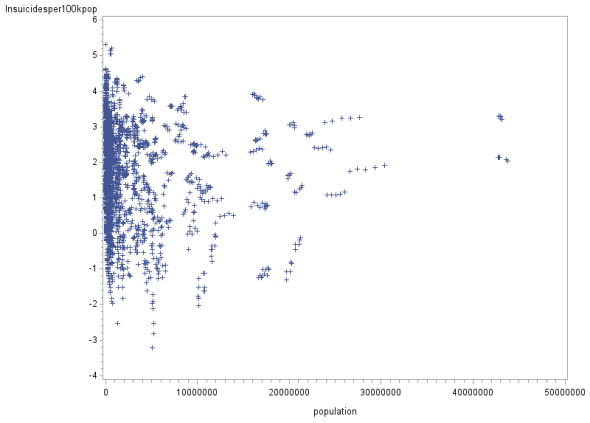

lnsuicidesper100kpop = 1.9235 -24E-9 population +81E-15 gdp_for_year_dollars -167E-8 gdp_per_capita_dollars
+1.1223 dsex -0.3636 dgeneration1 -0.4136 dgeneration2 -2.6473 dgeneration3
-2.6043 dgeneration4 +2.1544 dage1 +0.0517 dage2 -0.3543 dage4 -0.0995 dyear1
-0.0489 dyear2 -0.1213 dyear3 -0.1049 dyear4 -0.8075 dcontinent1 -0.2959 dcontinent2
+0.1158 dcontinent3
N
2391
Rsq
0.5225
AdjRsq
0.5188
RMSE
0.9683
Studentized Residual
Predicted Value

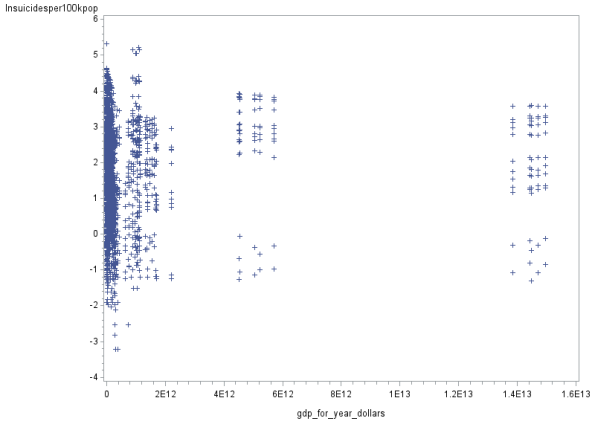

Fit Diagnostics for Insuicidesper100kpop
Residual
RStudent
RStudent
Predicted Value
Predicted Value

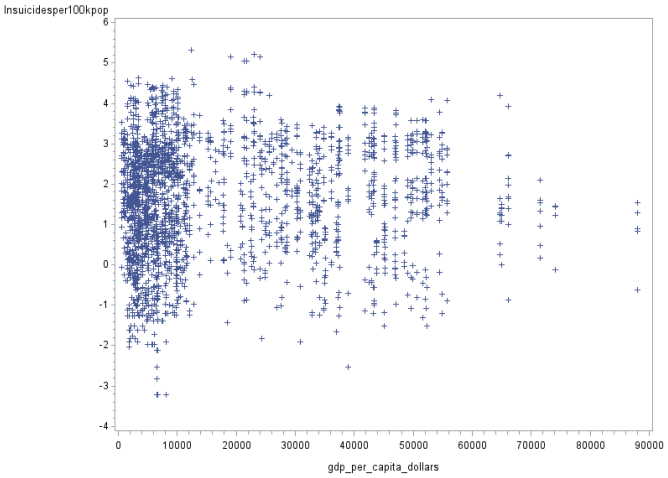
Ram9

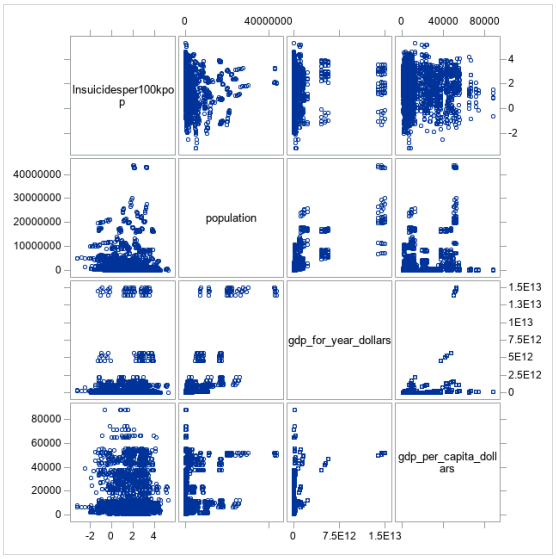

Residual by Regressors for Insuicidesper100kpop
Residual
population
gdp_for_year_dollars
gdp_per_capita_dollars

Ram10


Insuicidesper100kpop
population

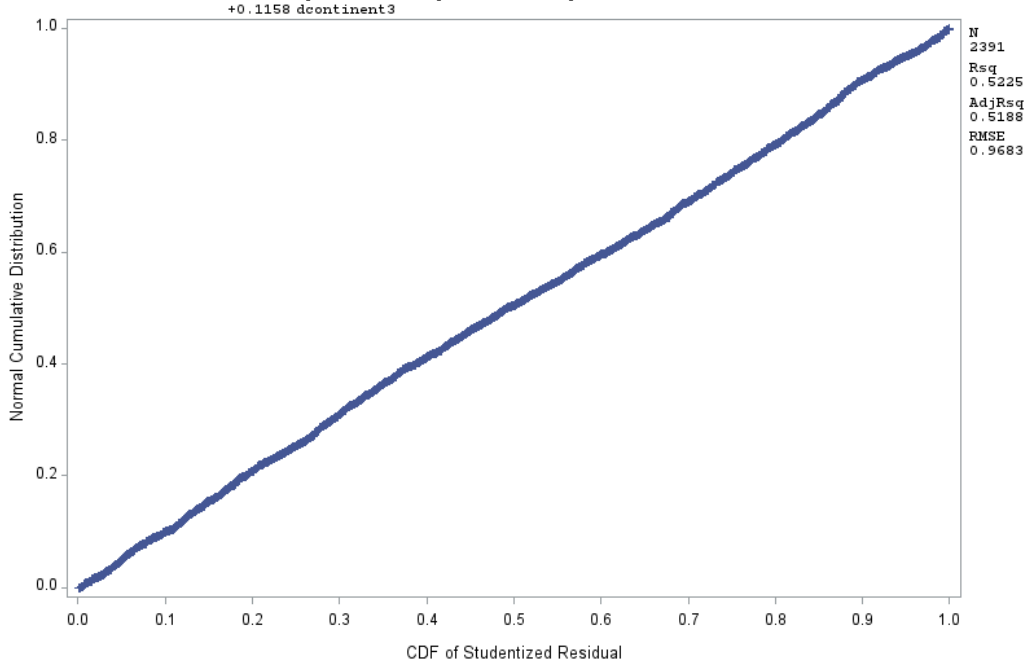

Insuicidesper100kpop
gdp_for_year_dollars



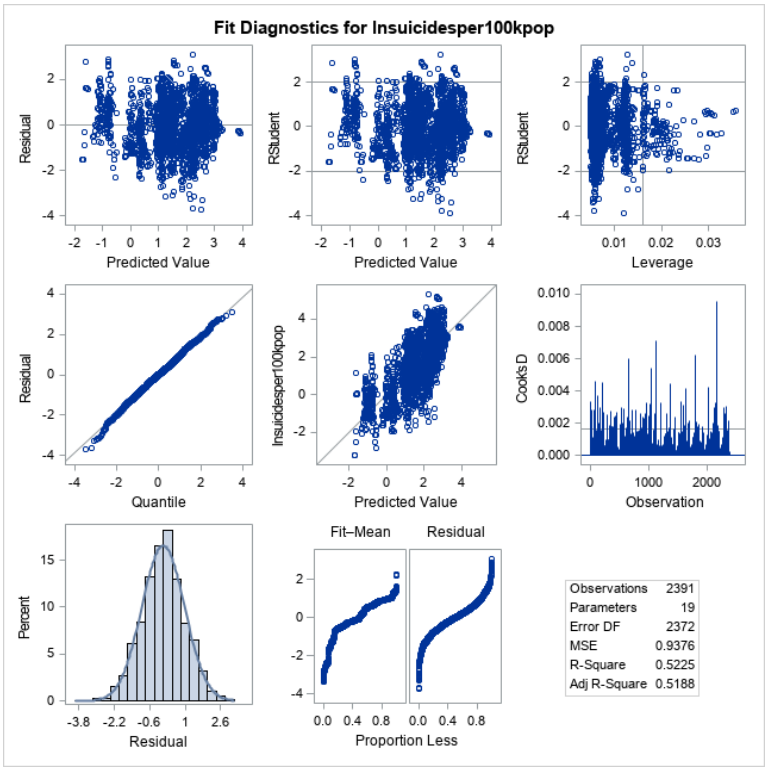


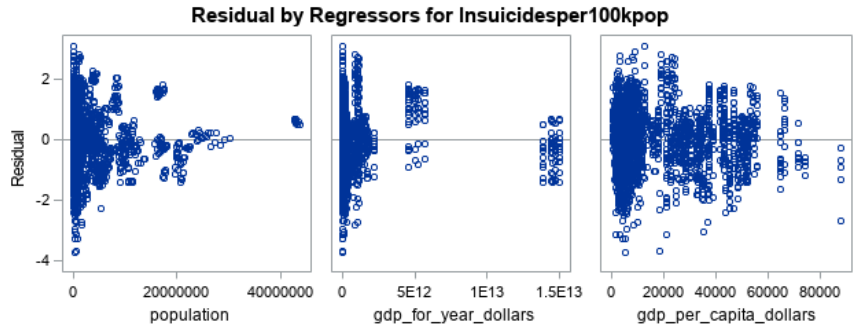
Ram11

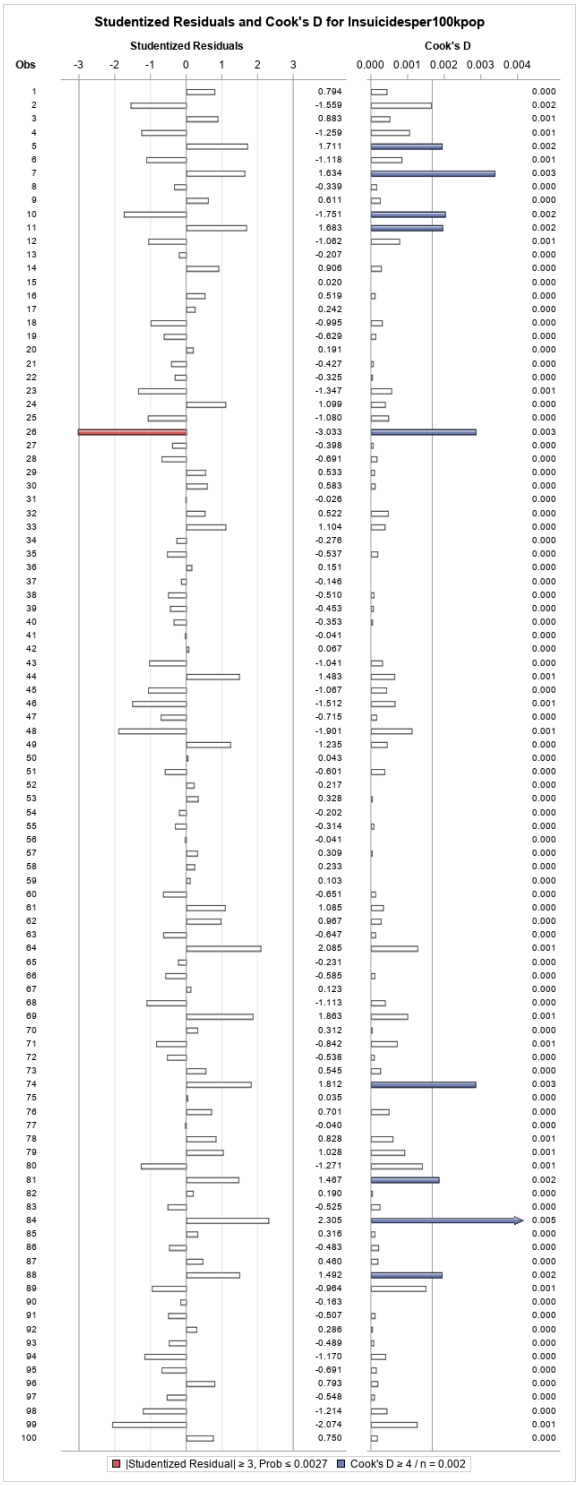
lnsuicidesper100kpop = 1.9235 -24E-9 population +81E-15 gdp_for_year_dollars -167E-8 gdp_per_capita_dollars
+1.1223 dsex -0.3636 dgeneration1 -0.4136 dgeneration2 -2.6473 dgeneration3
-2.6043 dgeneration4 +2.1544 dage1 +0.0517 dage2 -0.3543 dage4 -0.0995 dyear1
-0.0489 dyear2 -0.1213 dyear3 -0.1049 dyear4 -0.8075 dcontinent1 -0.2959 dcontinent2
+0.1158 dcontinent3

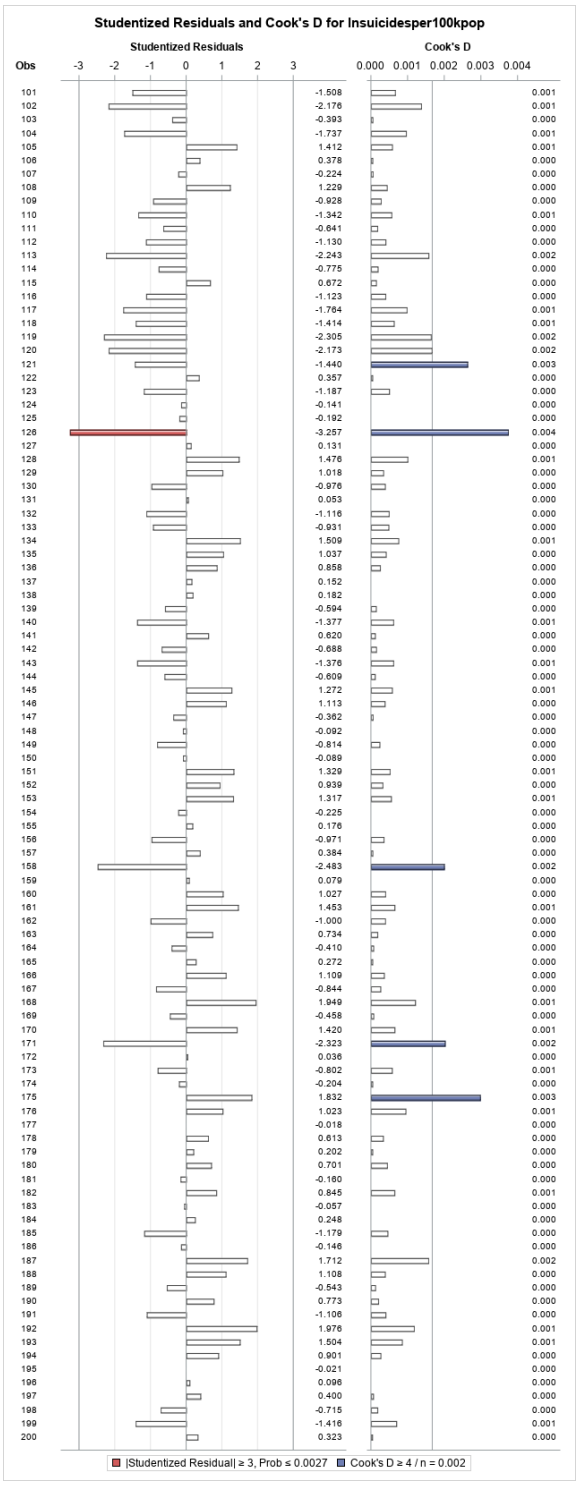


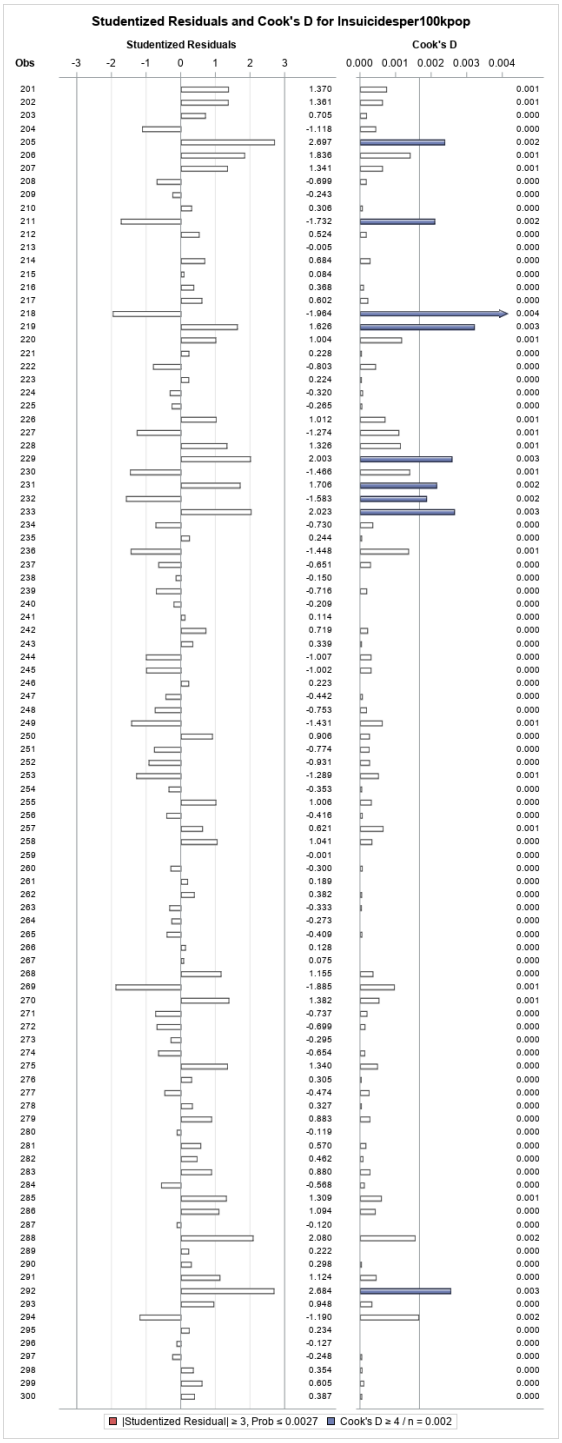
Ram12

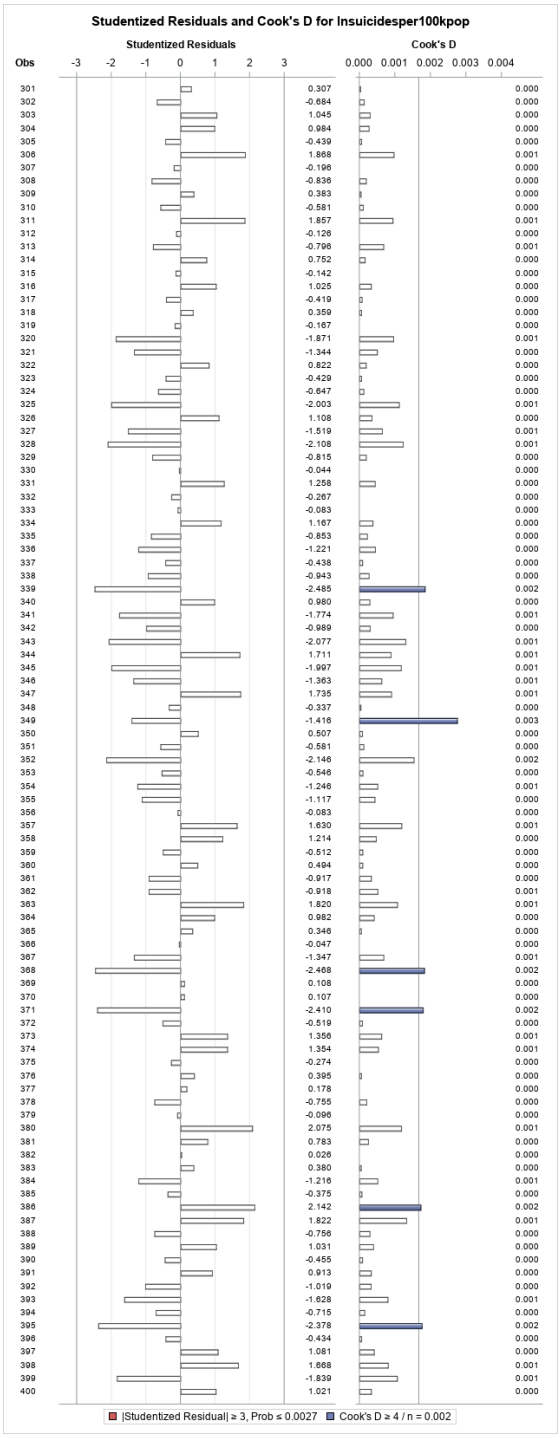

Fit Diagnostics for Insuicidesper100kpop
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
Insuicidesper100kpop
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 2391
Parameters 19
Error DF 2372
MSE 0.9376
R-Square 0.5225
Adj R-Square 0.5188

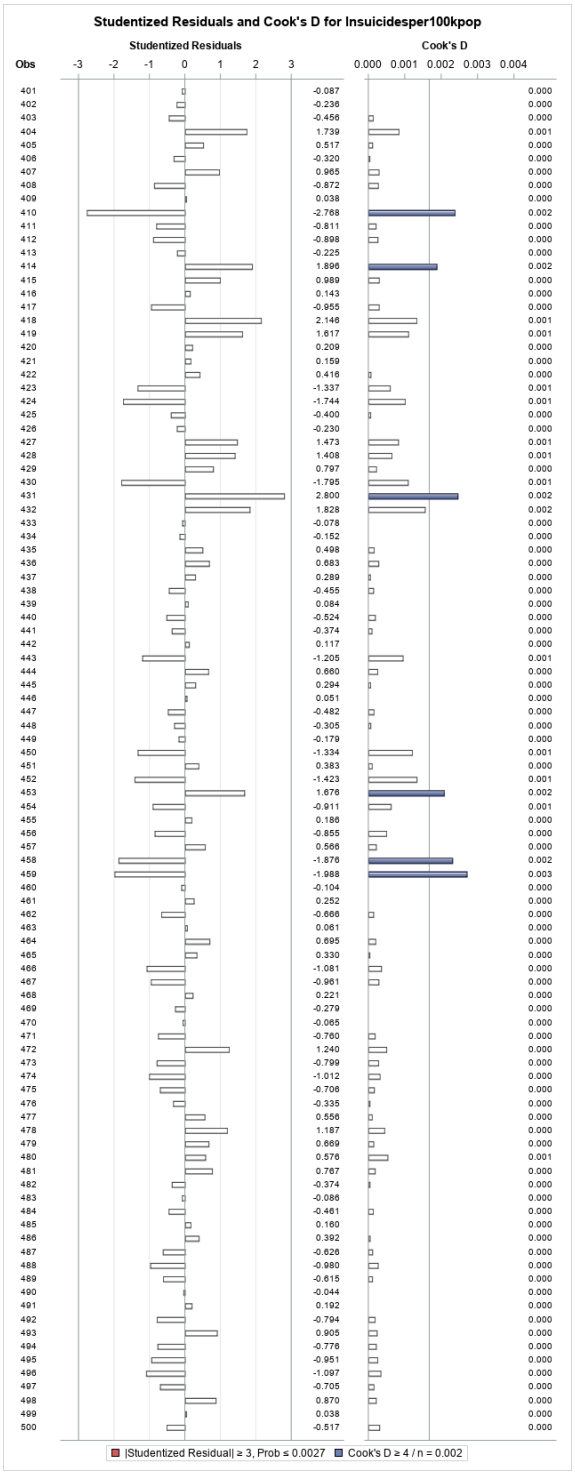

Residual by Regressors for Insuicidesper100kpop
Residual
population
gdp_for_year_dollars
gdp_per_capita_dollars

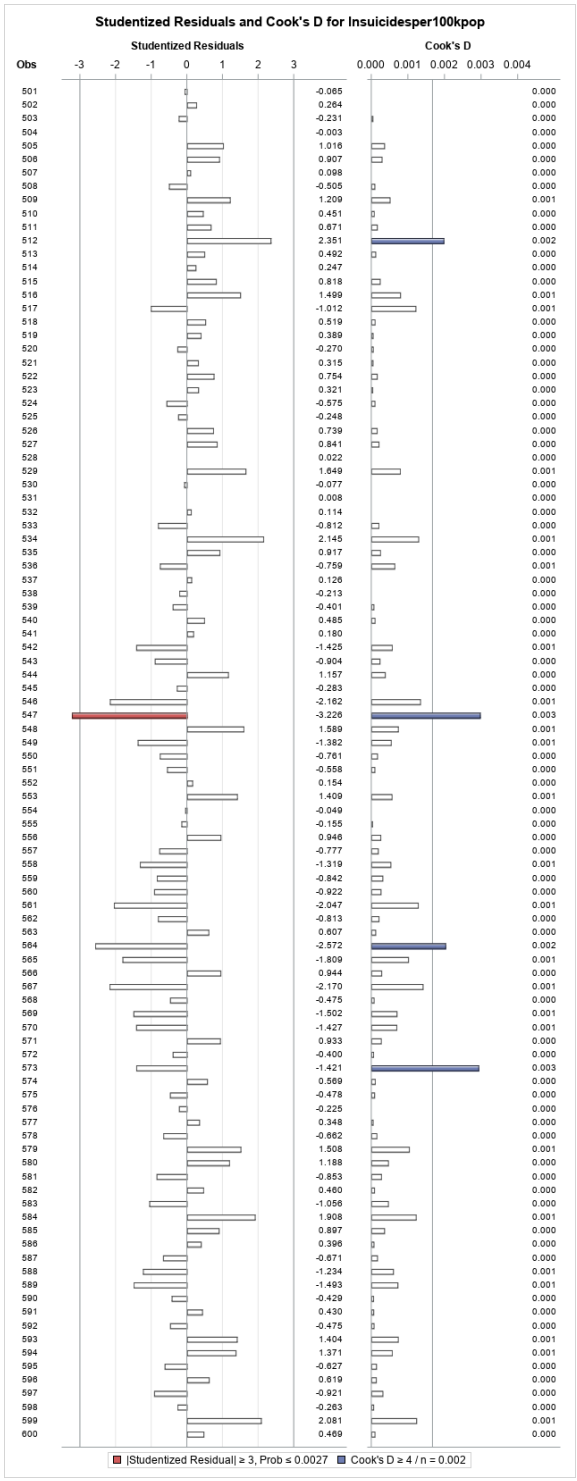

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

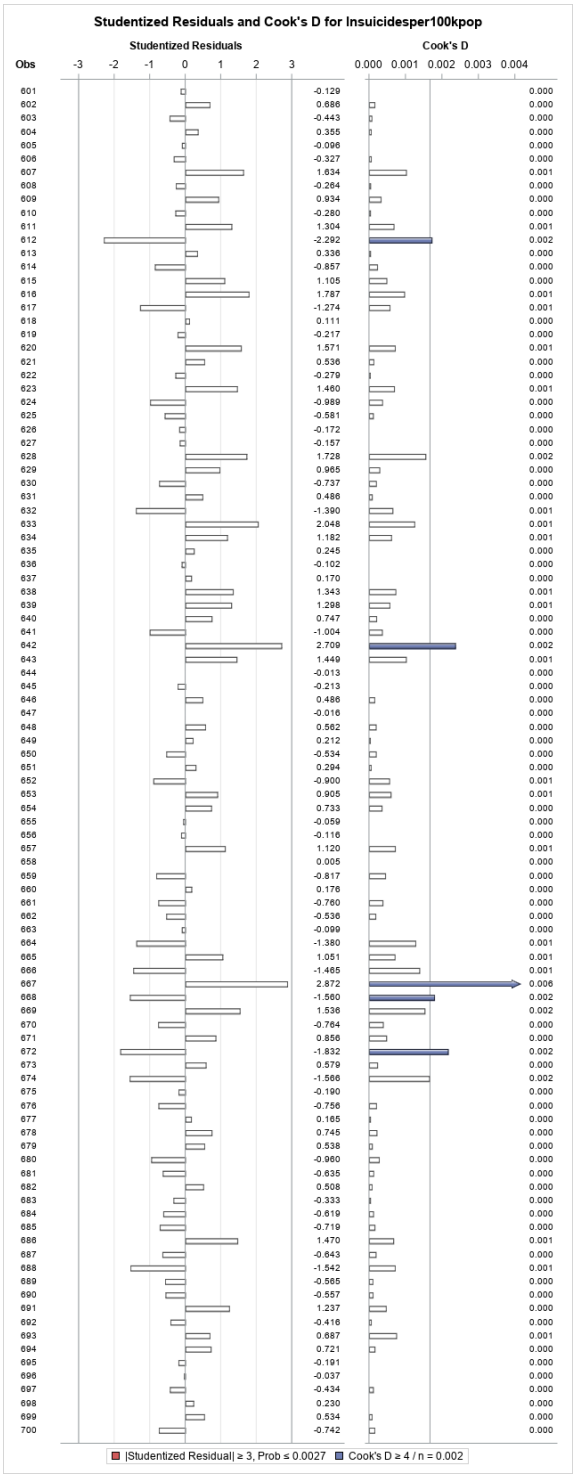

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

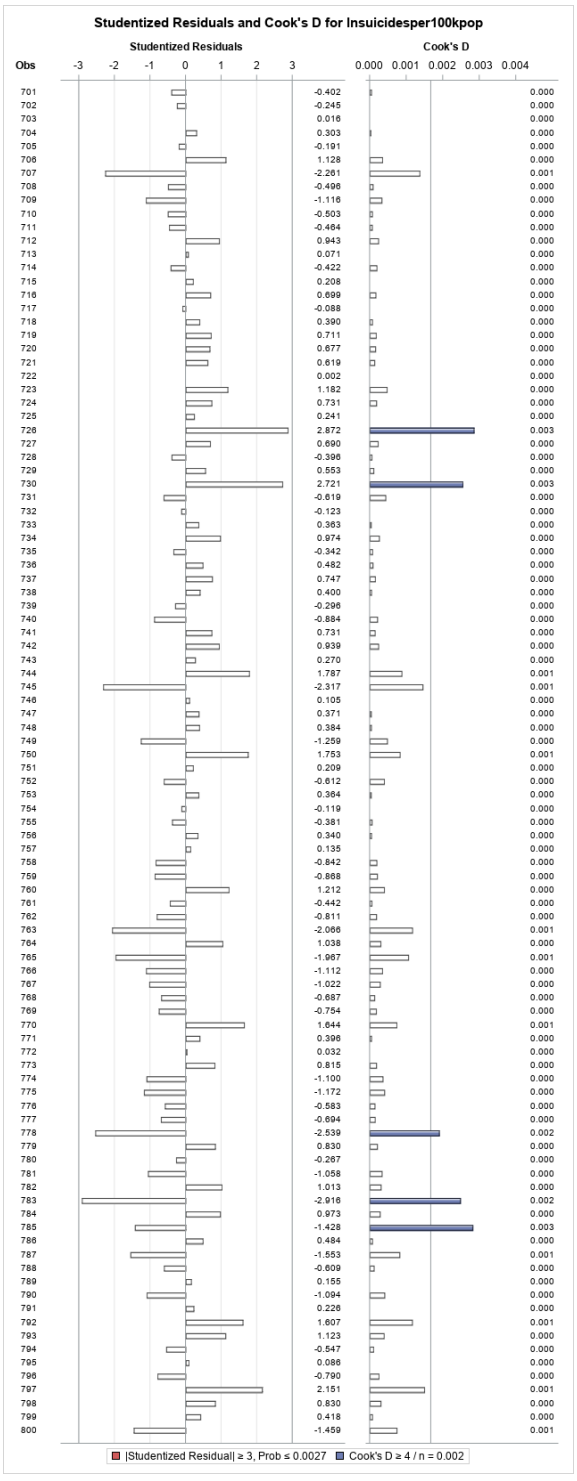

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
201 1.370 0.001
202 1.361 0.001
203 0.705 0.000
204 -1.118 0.000
205 2.697 0.002
206 1.836 0.001
207 1.341 0.001
208 -0.699 0.000
209 -0.243 0.000
210 0.306 0.000
211 -1.732 0.002
212 0.524 0.000
213 -0.005 0.000
214 0.684 0.000
215 0.084 0.000
216 0.368 0.000
217 0.602 0.000
218 -1.984 0.004
219 1.626 0.003
220 1.004 0.001
221 0.228 0.000
222 -0.803 0.000
223 0.224 0.000
224 -0.320 0.000
225 -0.265 0.000
226 1.012 0.001
227 -1.274 0.001
228 1.326 0.001
229 2.003 0.003
230 -1.466 0.001
231 1.706 0.002
232 -1.583 0.002
233 2.023 0.003
234 -0.730 0.000
235 0.244 0.000
236 -1.448 0.001
237 -0.651 0.000
238 -0.150 0.000
239 -0.716 0.000
240 -0.209 0.000
241 0.114 0.000
242 0.719 0.000
243 0.339 0.000
244 -1.007 0.000
245 -1.002 0.000
246 0.223 0.000
247 -0.442 0.000
248 -0.753 0.000
249 -1.431 0.001
250 0.906 0.000
251 -0.774 0.000
252 -0.931 0.000
253 -1.289 0.001
254 -0.353 0.000
255 1.006 0.000
256 -0.416 0.000
257 0.621 0.001
258 1.041 0.000
259 -0.001 0.000
260 -0.300 0.000
261 0.189 0.000
262 0.382 0.000
263 -0.333 0.000
264 -0.273 0.000
265 -0.409 0.000
266 0.128 0.000
267 0.075 0.000
268 1.155 0.000
269 -1.885 0.001
270 1.382 0.001
271 -0.737 0.000
272 -0.699 0.000
273 -0.295 0.000
274 -0.654 0.000
275 1.340 0.000
276 0.305 0.000
277 -0.474 0.000
278 0.327 0.000
279 0.883 0.000
280 -0.119 0.000
281 0.570 0.000
282 0.462 0.000
283 0.880 0.000
284 -0.568 0.000
285 1.309 0.001
286 1.094 0.000
287 -0.120 0.000
288 2.080 0.002
289 0.222 0.000
290 0.298 0.000
291 1.124 0.000
292 2.684 0.003
293 0.948 0.000
294 -1.190 0.002
295 0.234 0.000
296 -0.127 0.000
297 -0.248 0.000
298 0.354 0.000
299 0.605 0.000
300 0.387 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

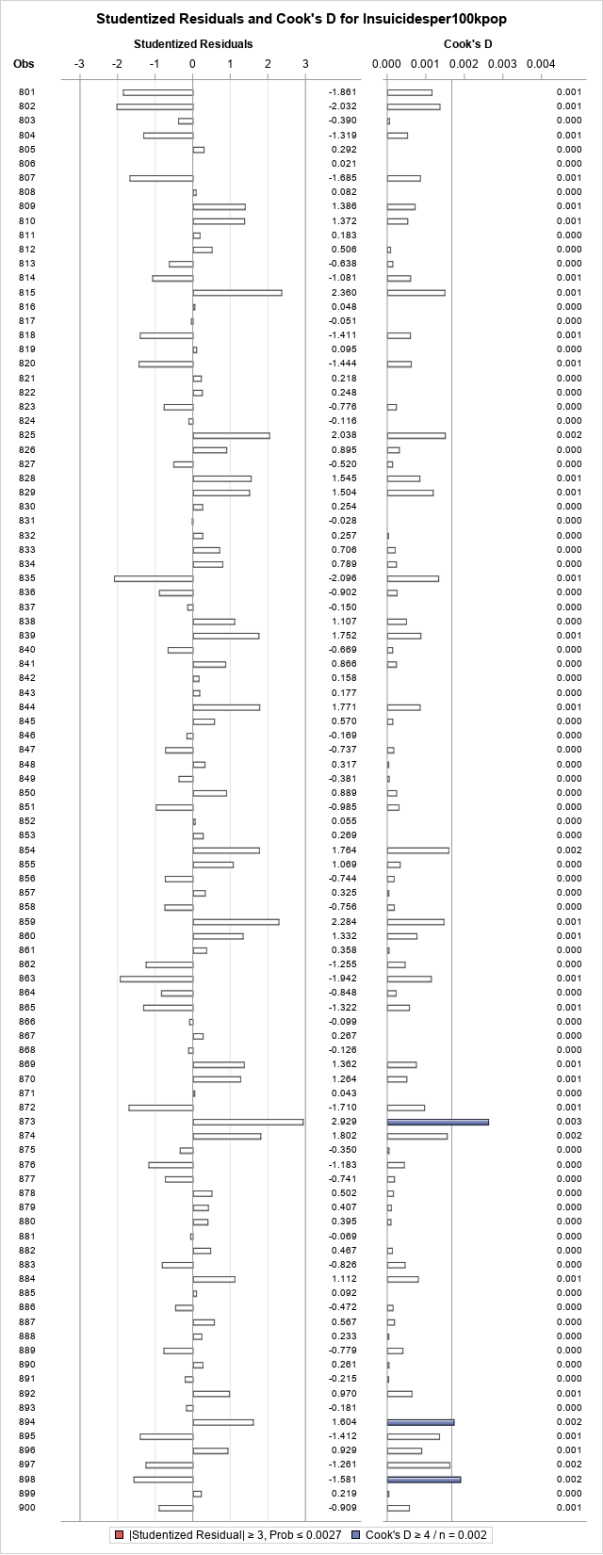

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
301 0.307 0.000
302 -0.684 0.000
303 1.045 0.000
304 0.984 0.000
305 -0.439 0.000
306 1.868 0.001
307 -0.196 0.000
308 -0.836 0.000
309 0.383 0.000
310 -0.581 0.000
311 1.857 0.001
312 -0.126 0.000
313 -0.796 0.001
314 0.752 0.000
315 -0.142 0.000
316 1.025 0.000
317 -0.419 0.000
318 0.359 0.000
319 -0.167 0.000
320 -1.871 0.001
321 -1.344 0.000
322 0.822 0.000
323 -0.429 0.000
324 -0.647 0.000
325 -2.003 0.001
326 1.108 0.000
327 -1.519 0.001
328 -2.108 0.001
329 -0.815 0.000
330 -0.044 0.000
331 1.258 0.000
332 -0.267 0.000
333 -0.083 0.000
334 1.167 0.000
335 -0.853 0.000
336 -1.221 0.000
337 -0.438 0.000
338 -0.943 0.000
339 -2.485 0.002
340 0.980 0.000
341 -1.774 0.001
342 -0.989 0.000
343 -2.077 0.001
344 1.711 0.001
345 -1.997 0.001
346 -1.363 0.001
347 1.735 0.001
348 -0.337 0.000
349 -1.416 0.003
350 0.507 0.000
351 -0.581 0.000
352 -2.148 0.002
353 -0.546 0.000
354 -1.246 0.001
355 -1.117 0.000
356 -0.083 0.000
357 1.630 0.001
358 1.214 0.000
359 -0.512 0.000
360 0.494 0.000
361 -0.917 0.000
362 -0.918 0.001
363 1.820 0.001
364 0.982 0.000
365 0.346 0.000
366 -0.047 0.000
367 -1.347 0.001
368 -2.468 0.002
369 0.108 0.000
370 0.107 0.000
371 -2.410 0.002
372 -0.519 0.000
373 1.356 0.001
374 1.354 0.001
375 -0.274 0.000
376 0.395 0.000
377 0.178 0.000
378 -0.755 0.000
379 -0.096 0.000
380 2.075 0.001
381 0.783 0.000
382 0.026 0.000
383 0.380 0.000
384 -1.216 0.001
385 -0.375 0.000
386 2.142 0.002
387 1.822 0.001
388 -0.756 0.000
389 1.031 0.000
390 -0.455 0.000
391 0.913 0.000
392 -1.019 0.000
393 -1.628 0.001
394 -0.715 0.000
395 -2.378 0.002
396 -0.434 0.000
397 1.081 0.000
398 1.668 0.001
399 -1.839 0.001
400 1.021 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

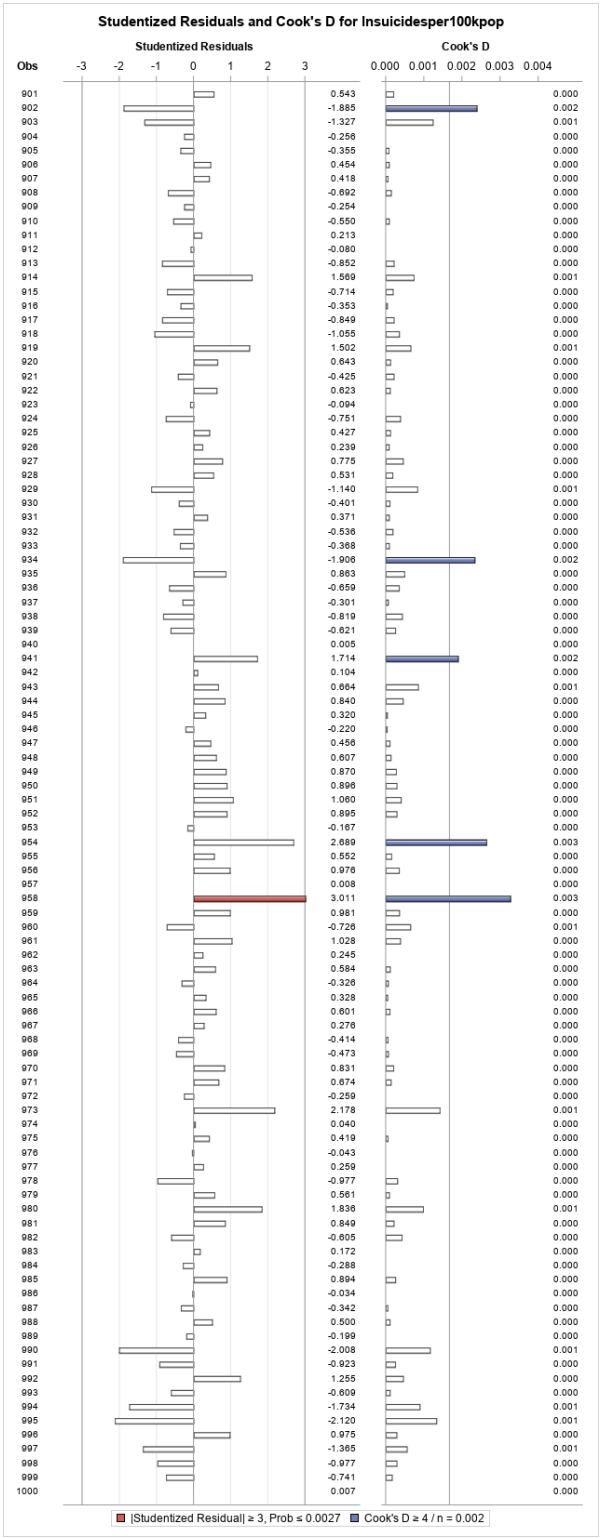

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
401 -0.087 0.000
402 -0.236 0.000
403 -0.456 0.000
404 1.739 0.001
405 0.517 0.000
406 -0.320 0.000
407 0.965 0.000
408 -0.872 0.000
409 0.038 0.000
410 -2.768 0.002
411 -0.811 0.000
412 -0.898 0.000
413 -0.225 0.000
414 1.896 0.002
415 0.989 0.000
416 0.143 0.000
417 -0.955 0.000
418 2.146 0.001
419 1.617 0.001
420 0.209 0.000
421 0.159 0.000
422 0.416 0.000
423 -1.337 0.001
424 -1.744 0.001
425 -0.400 0.000
426 -0.230 0.000
427 1.473 0.001
428 1.408 0.001
429 0.797 0.000
430 -1.795 0.001
431 2.800 0.002
432 1.828 0.002
433 -0.078 0.000
434 -0.152 0.000
435 0.498 0.000
436 0.683 0.000
437 0.289 0.000
438 -0.455 0.000
439 0.084 0.000
440 -0.524 0.000
441 -0.374 0.000
442 0.117 0.000
443 -1.205 0.001
444 0.660 0.000
445 0.294 0.000
446 0.051 0.000
447 -0.482 0.000
448 -0.305 0.000
449 -0.179 0.000
450 -1.334 0.001
451 0.383 0.000
452 -1.423 0.001
453 1.676 0.002
454 -0.911 0.001
455 0.186 0.000
456 -0.855 0.000
457 0.566 0.000
458 -1.876 0.002
459 -1.988 0.003
460 -0.104 0.000
461 0.252 0.000
462 -0.666 0.000
463 0.061 0.000
464 0.695 0.000
465 0.330 0.000
466 -1.081 0.000
467 -0.961 0.000
468 0.221 0.000
469 -0.279 0.000
470 -0.065 0.000
471 -0.760 0.000
472 1.240 0.000
473 -0.799 0.000
474 -1.012 0.000
475 -0.706 0.000
476 -0.335 0.000
477 0.556 0.000
478 1.187 0.000
479 0.669 0.000
480 0.576 0.001
481 0.767 0.000
482 -0.374 0.000
483 -0.086 0.000
484 -0.461 0.000
485 0.160 0.000
486 0.392 0.000
487 -0.626 0.000
488 -0.980 0.000
489 -0.615 0.000
490 -0.044 0.000
491 0.192 0.000
492 -0.794 0.000
493 0.905 0.000
494 -0.776 0.000
495 -0.951 0.000
496 -1.097 0.000
497 -0.705 0.000
498 0.870 0.000
499 0.038 0.000
500 -0.517 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

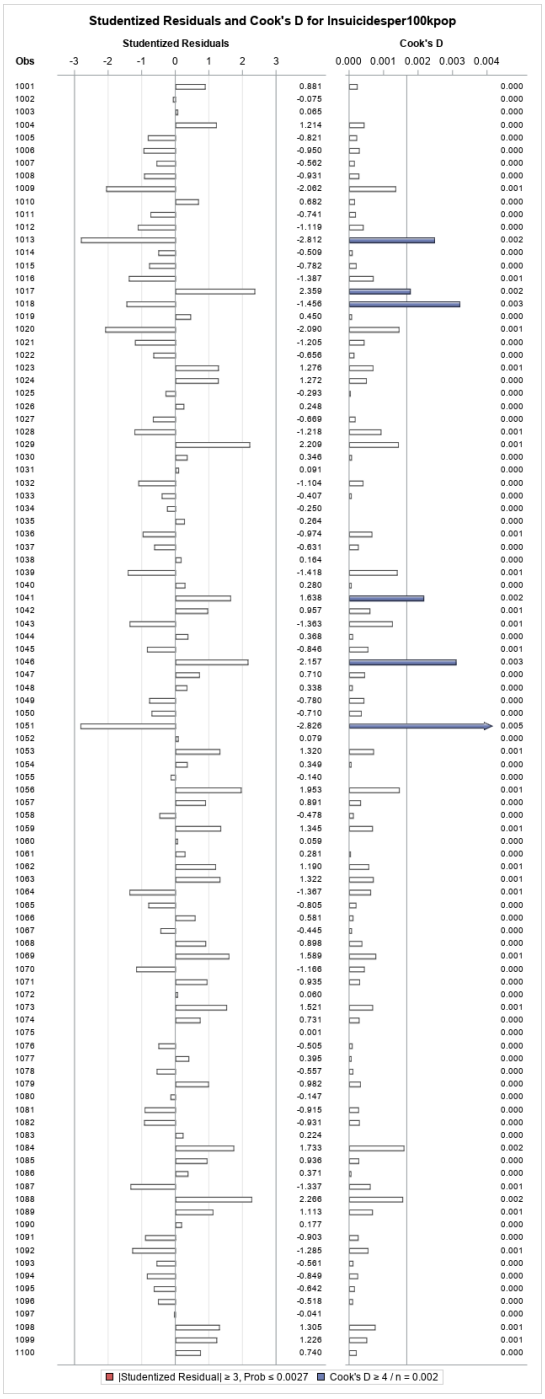

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
501 -0.065 0.000
502 0.264 0.000
503 -0.231 0.000
504 -0.003 0.000
505 1.016 0.000
506 0.907 0.000
507 0.098 0.000
508 -0.505 0.000
509 1.209 0.001
510 0.451 0.000
511 0.671 0.000
512 2.351 0.002
513 0.492 0.000
514 0.247 0.000
515 0.818 0.000
516 1.499 0.001
517 -1.012 0.001
518 0.519 0.000
519 0.389 0.000
520 -0.270 0.000
521 0.315 0.000
522 0.754 0.000
523 0.321 0.000
524 -0.575 0.000
525 -0.248 0.000
526 0.739 0.000
527 0.841 0.000
528 0.022 0.000
529 1.649 0.001
530 -0.077 0.000
531 0.008 0.000
532 0.114 0.000
533 -0.812 0.000
534 2.145 0.001
535 0.917 0.000
536 -0.759 0.001
537 0.126 0.000
538 -0.213 0.000
539 -0.401 0.000
540 0.485 0.000
541 0.180 0.000
542 -1.425 0.001
543 -0.904 0.000
544 1.157 0.000
545 -0.283 0.000
546 -2.162 0.001
547 -3.226 0.003
548 1.589 0.001
549 -1.382 0.001
550 -0.761 0.000
551 -0.558 0.000
552 0.154 0.000
553 1.409 0.001
554 -0.049 0.000
555 -0.155 0.000
556 0.946 0.000
557 -0.777 0.000
558 -1.319 0.001
559 -0.842 0.000
560 -0.922 0.000
561 -2.047 0.001
562 -0.813 0.000
563 0.607 0.000
564 -2.572 0.002
565 -1.809 0.001
566 0.944 0.000
567 -2.170 0.001
568 -0.475 0.000
569 -1.502 0.001
570 -1.427 0.001
571 0.933 0.000
572 -0.400 0.000
573 -1.421 0.003
574 0.569 0.000
575 -0.478 0.000
576 -0.225 0.000
577 0.348 0.000
578 -0.662 0.000
579 1.508 0.001
580 1.188 0.000
581 -0.853 0.000
582 0.460 0.000
583 -1.056 0.000
584 1.908 0.001
585 0.897 0.000
586 0.396 0.000
587 -0.671 0.000
588 -1.234 0.001
589 -1.493 0.001
590 -0.429 0.000
591 0.430 0.000
592 -0.475 0.000
593 1.404 0.001
594 1.371 0.001
595 -0.627 0.000
596 0.819 0.000
597 -0.921 0.000
598 -0.263 0.000
599 2.081 0.001
600 0.469 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

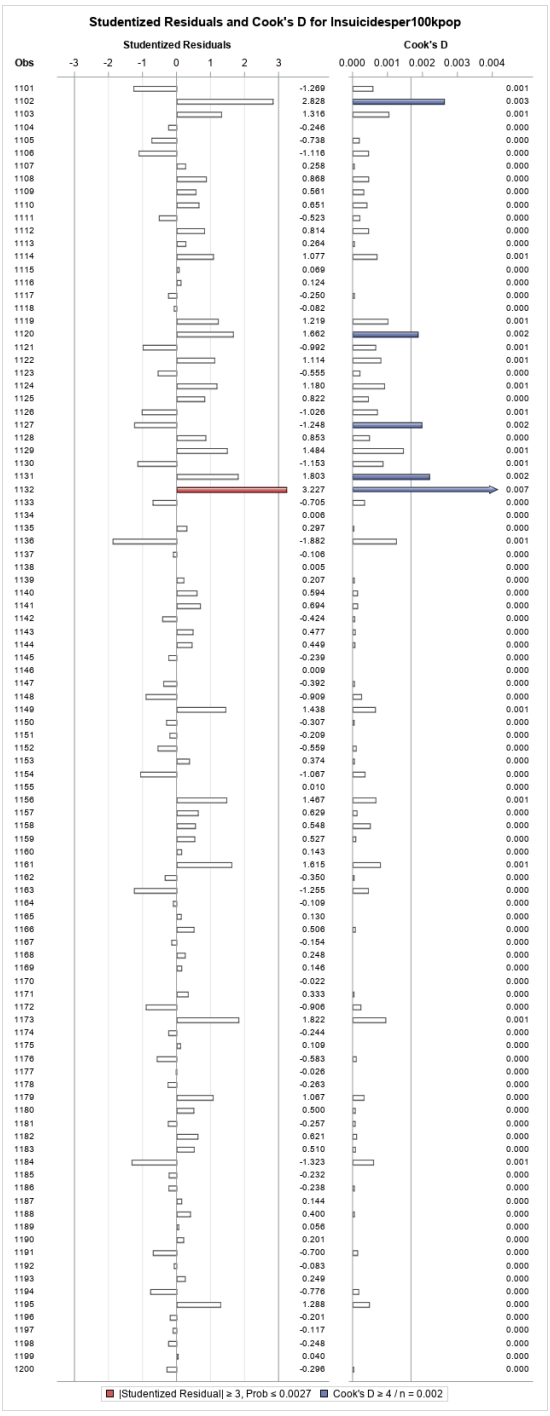

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
601 -0.129 0.000
602 0.886 0.000
603 -0.443 0.000
604 0.355 0.000
605 -0.096 0.000
606 -0.327 0.000
607 1.634 0.001
608 -0.264 0.000
609 0.934 0.000
610 -0.280 0.000
611 1.304 0.001
612 -2.292 0.002
613 0.336 0.000
614 -0.857 0.000
615 1.105 0.000
616 1.787 0.001
617 -1.274 0.001
618 0.111 0.000
619 -0.217 0.000
620 1.571 0.001
621 0.536 0.000
622 -0.279 0.000
623 1.460 0.001
624 -0.989 0.000
625 -0.581 0.000
626 -0.172 0.000
627 -0.157 0.000
628 1.728 0.002
629 0.965 0.000
630 -0.737 0.000
631 0.486 0.000
632 -1.390 0.001
633 2.048 0.001
634 1.182 0.001
635 0.245 0.000
636 -0.102 0.000
637 0.170 0.000
638 1.343 0.001
639 1.298 0.001
640 0.747 0.000
641 -1.004 0.000
642 2.709 0.002
643 1.449 0.001
644 -0.013 0.000
645 -0.213 0.000
646 0.486 0.000
647 -0.016 0.000
648 0.562 0.000
649 0.212 0.000
650 -0.534 0.000
651 0.294 0.000
652 -0.900 0.001
653 0.905 0.001
654 0.733 0.000
655 -0.059 0.000
656 -0.116 0.000
657 1.120 0.001
658 0.005 0.000
659 -0.817 0.000
660 0.176 0.000
661 -0.760 0.000
662 -0.536 0.000
663 -0.099 0.000
664 -1.380 0.001
665 1.051 0.001
666 -1.465 0.001
667 2.872 0.006
668 -1.560 0.002
669 1.536 0.002
670 -0.764 0.000
671 0.856 0.000
672 -1.832 0.002
673 0.579 0.000
674 -1.566 0.002
675 -0.190 0.000
676 -0.756 0.000
677 0.165 0.000
678 0.745 0.000
679 0.538 0.000
680 -0.960 0.000
681 -0.635 0.000
682 0.508 0.000
683 -0.333 0.000
684 -0.619 0.000
685 -0.719 0.000
686 1.470 0.001
687 -0.643 0.000
688 -1.542 0.001
689 -0.565 0.000
690 -0.557 0.000
691 1.237 0.000
692 -0.416 0.000
693 0.887 0.001
694 0.721 0.000
695 -0.191 0.000
696 -0.037 0.000
697 -0.434 0.000
698 0.230 0.000
699 0.534 0.000
700 -0.742 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

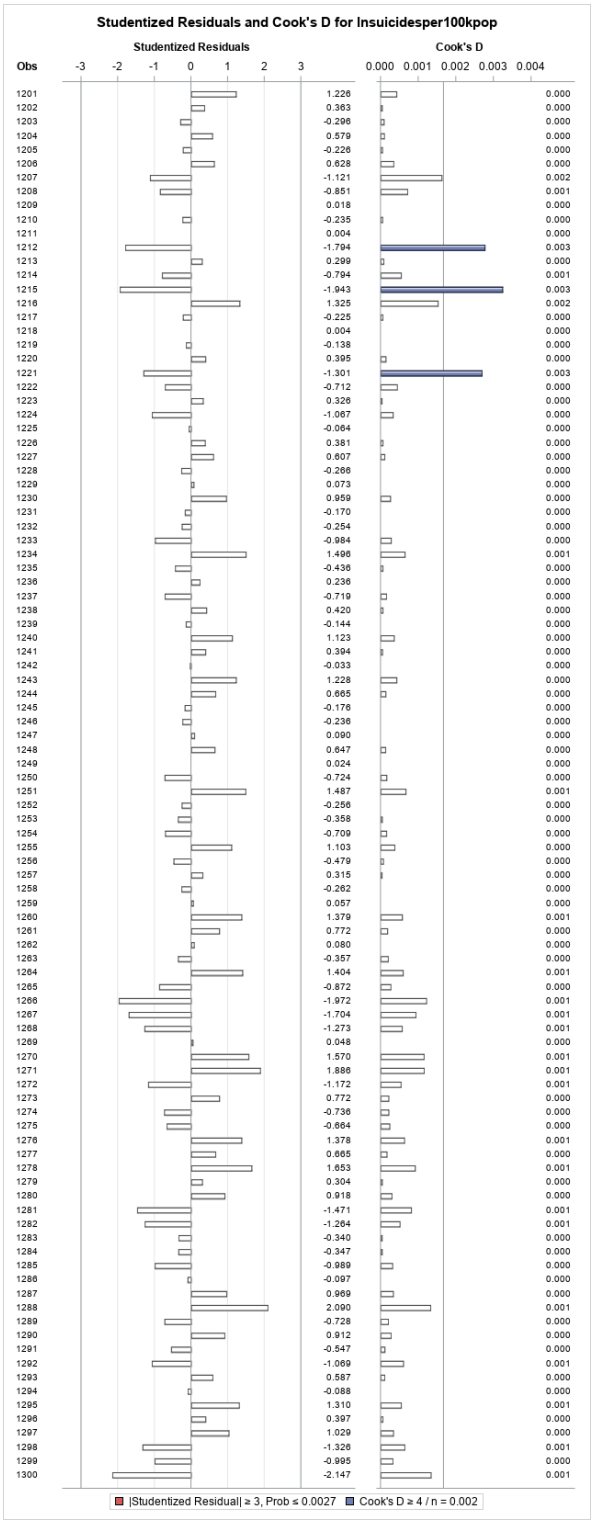

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
701 -0.402 0.000
702 -0.245 0.000
703 0.016 0.000
704 0.303 0.000
705 -0.191 0.000
706 1.128 0.000
707 -2.261 0.001
708 -0.498 0.000
709 -1.116 0.000
710 -0.503 0.000
711 -0.464 0.000
712 0.943 0.000
713 0.071 0.000
714 -0.422 0.000
715 0.208 0.000
716 0.699 0.000
717 -0.088 0.000
718 0.390 0.000
719 0.711 0.000
720 0.677 0.000
721 0.619 0.000
722 0.002 0.000
723 1.182 0.000
724 0.731 0.000
725 0.241 0.000
726 2.872 0.003
727 0.690 0.000
728 -0.396 0.000
729 0.553 0.000
730 2.721 0.003
731 -0.619 0.000
732 -0.123 0.000
733 0.363 0.000
734 0.974 0.000
735 -0.342 0.000
736 0.482 0.000
737 0.747 0.000
738 0.400 0.000
739 -0.296 0.000
740 -0.884 0.000
741 0.731 0.000
742 0.939 0.000
743 0.270 0.000
744 1.787 0.001
745 -2.317 0.001
746 0.105 0.000
747 0.371 0.000
748 0.384 0.000
749 -1.259 0.000
750 1.753 0.001
751 0.209 0.000
752 -0.612 0.000
753 0.364 0.000
754 -0.119 0.000
755 -0.381 0.000
756 0.340 0.000
757 0.135 0.000
758 -0.842 0.000
759 -0.868 0.000
760 1.212 0.000
761 -0.442 0.000
762 -0.811 0.000
763 -2.066 0.001
764 1.038 0.000
765 -1.967 0.001
766 -1.112 0.000
767 -1.022 0.000
768 -0.687 0.000
769 -0.754 0.000
770 1.644 0.001
771 0.396 0.000
772 0.032 0.000
773 0.815 0.000
774 -1.100 0.000
775 -1.172 0.000
776 -0.583 0.000
777 -0.694 0.000
778 -2.539 0.002
779 0.830 0.000
780 -0.267 0.000
781 -1.058 0.000
782 1.013 0.000
783 -2.916 0.002
784 0.973 0.000
785 -1.428 0.003
786 0.484 0.000
787 -1.553 0.001
788 -0.609 0.000
789 0.155 0.000
790 -1.094 0.000
791 0.226 0.000
792 1.607 0.001
793 1.123 0.000
794 -0.547 0.000
795 0.086 0.000
796 -0.790 0.000
797 2.151 0.001
798 0.830 0.000
799 0.418 0.000
800 -1.459 0.001
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

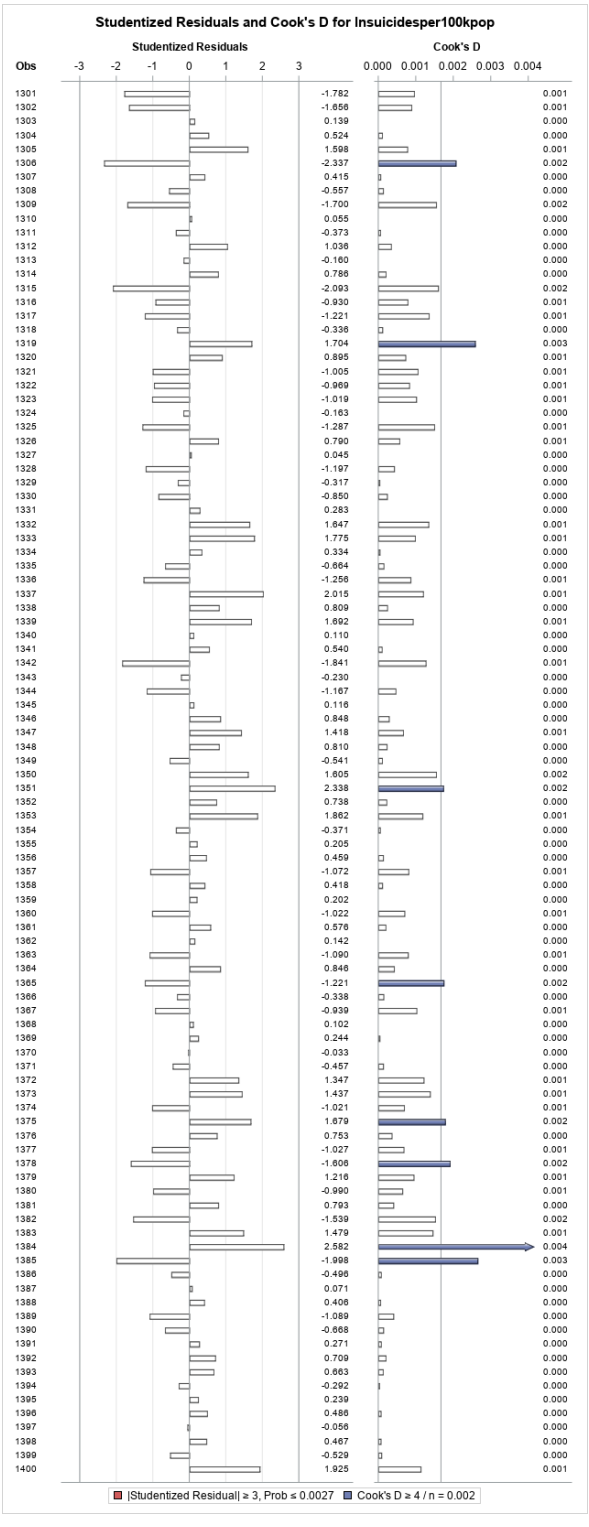

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
801 -1.861 0.001
802 -2.032 0.001
803 -0.390 0.000
804 -1.319 0.001
805 0.292 0.000
806 0.021 0.000
807 -1.685 0.001
808 0.082 0.000
809 1.386 0.001
810 1.372 0.001
811 0.183 0.000
812 0.506 0.000
813 -0.638 0.000
814 -1.081 0.001
815 2.360 0.001
816 0.048 0.000
817 -0.051 0.000
818 -1.411 0.001
819 0.095 0.000
820 -1.444 0.001
821 0.218 0.000
822 0.248 0.000
823 -0.776 0.000
824 -0.116 0.000
825 2.038 0.002
826 0.895 0.000
827 -0.520 0.000
828 1.545 0.001
829 1.504 0.001
830 0.254 0.000
831 -0.028 0.000
832 0.257 0.000
833 0.708 0.000
834 0.789 0.000
835 -2.096 0.001
836 -0.902 0.000
837 -0.150 0.000
838 1.107 0.000
839 1.752 0.001
840 -0.669 0.000
841 0.866 0.000
842 0.158 0.000
843 0.177 0.000
844 1.771 0.001
845 0.570 0.000
846 -0.169 0.000
847 -0.737 0.000
848 0.317 0.000
849 -0.381 0.000
850 0.889 0.000
851 -0.985 0.000
852 0.055 0.000
853 0.269 0.000
854 1.764 0.002
855 1.069 0.000
856 -0.744 0.000
857 0.325 0.000
858 -0.756 0.000
859 2.284 0.001
860 1.332 0.001
861 0.358 0.000
862 -1.255 0.000
863 -1.942 0.001
864 -0.848 0.000
865 -1.322 0.001
866 -0.099 0.000
867 0.267 0.000
868 -0.126 0.000
869 1.362 0.001
870 1.264 0.001
871 0.043 0.000
872 -1.710 0.001
873 2.929 0.003
874 1.802 0.002
875 -0.350 0.000
876 -1.183 0.000
877 -0.741 0.000
878 0.502 0.000
879 0.407 0.000
880 0.395 0.000
881 -0.069 0.000
882 0.467 0.000
883 -0.826 0.000
884 1.112 0.001
885 0.092 0.000
886 -0.472 0.000
887 0.567 0.000
888 0.233 0.000
889 -0.779 0.000
890 0.261 0.000
891 -0.215 0.000
892 0.970 0.001
893 -0.181 0.000
894 1.604 0.002
895 -1.412 0.001
896 0.929 0.001
897 -1.261 0.002
898 -1.581 0.002
899 0.219 0.000
900 -0.909 0.001
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

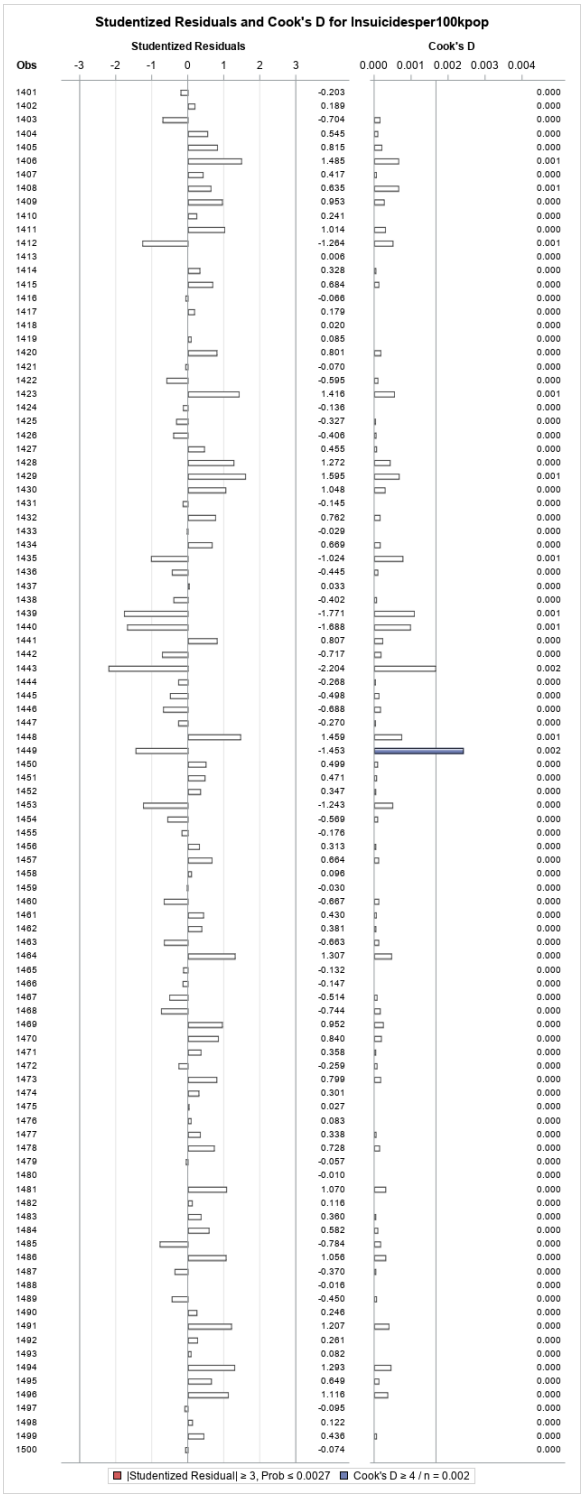

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
901 0.543 0.000
902 -1.885 0.002
903 -1.327 0.001
904 -0.258 0.000
905 -0.355 0.000
906 0.454 0.000
907 0.418 0.000
908 -0.692 0.000
909 -0.254 0.000
910 -0.550 0.000
911 0.213 0.000
912 -0.080 0.000
913 -0.852 0.000
914 1.569 0.001
915 -0.714 0.000
916 -0.353 0.000
917 -0.849 0.000
918 -1.055 0.000
919 1.502 0.001
920 0.643 0.000
921 -0.425 0.000
922 0.623 0.000
923 -0.094 0.000
924 -0.751 0.000
925 0.427 0.000
926 0.239 0.000
927 0.775 0.000
928 0.531 0.000
929 -1.140 0.001
930 -0.401 0.000
931 0.371 0.000
932 -0.536 0.000
933 -0.368 0.000
934 -1.906 0.002
935 0.863 0.000
936 -0.659 0.000
937 -0.301 0.000
938 -0.819 0.000
939 -0.621 0.000
940 0.005 0.000
941 1.714 0.002
942 0.104 0.000
943 0.664 0.001
944 0.840 0.000
945 0.320 0.000
946 -0.220 0.000
947 0.456 0.000
948 0.607 0.000
949 0.870 0.000
950 0.896 0.000
951 1.060 0.000
952 0.895 0.000
953 -0.167 0.000
954 2.689 0.003
955 0.552 0.000
956 0.976 0.000
957 0.008 0.000
958 3.011 0.003
959 0.981 0.000
960 -0.726 0.001
961 1.028 0.000
962 0.245 0.000
963 0.584 0.000
964 -0.326 0.000
965 0.328 0.000
966 0.601 0.000
967 0.276 0.000
968 -0.414 0.000
969 -0.473 0.000
970 0.831 0.000
971 0.674 0.000
972 -0.259 0.000
973 2.178 0.001
974 0.040 0.000
975 0.419 0.000
976 -0.043 0.000
977 0.259 0.000
978 -0.977 0.000
979 0.561 0.000
980 1.836 0.001
981 0.849 0.000
982 -0.605 0.000
983 0.172 0.000
984 -0.288 0.000
985 0.894 0.000
986 -0.034 0.000
987 -0.342 0.000
988 0.500 0.000
989 -0.199 0.000
990 -2.008 0.001
991 -0.923 0.000
992 1.255 0.000
993 -0.609 0.000
994 -1.734 0.001
995 -2.120 0.001
996 0.975 0.000
997 -1.365 0.001
998 -0.977 0.000
999 -0.741 0.000
1000 0.007 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

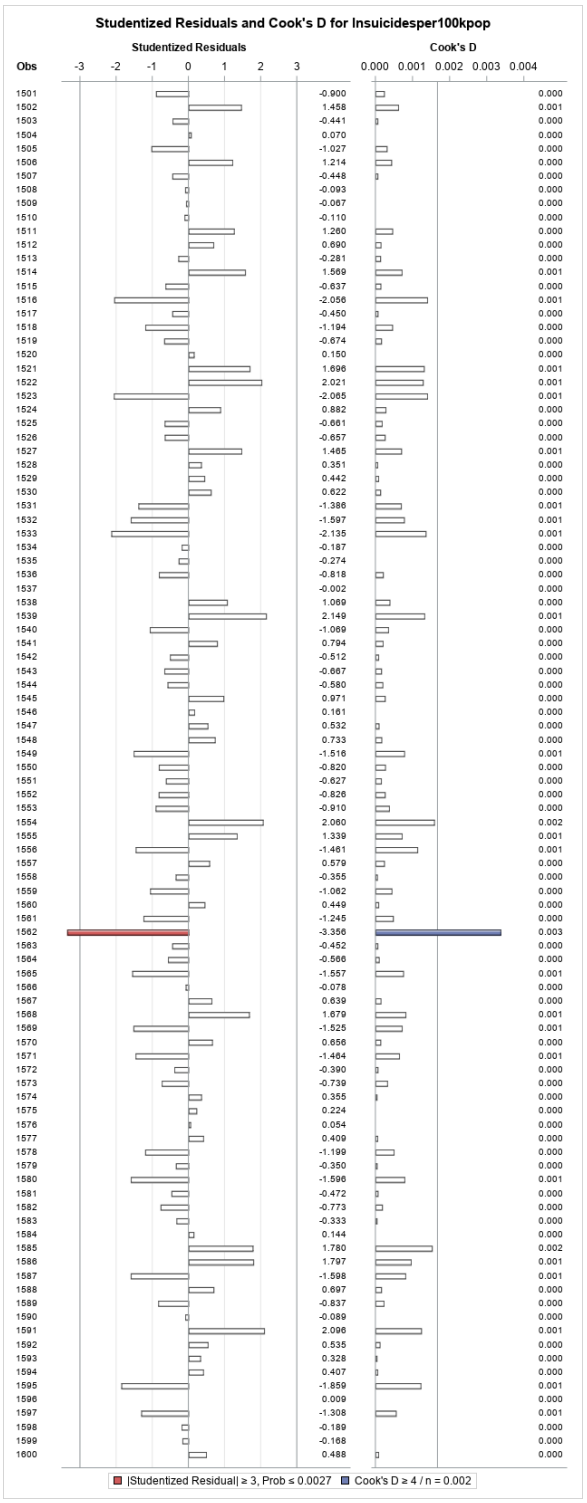

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

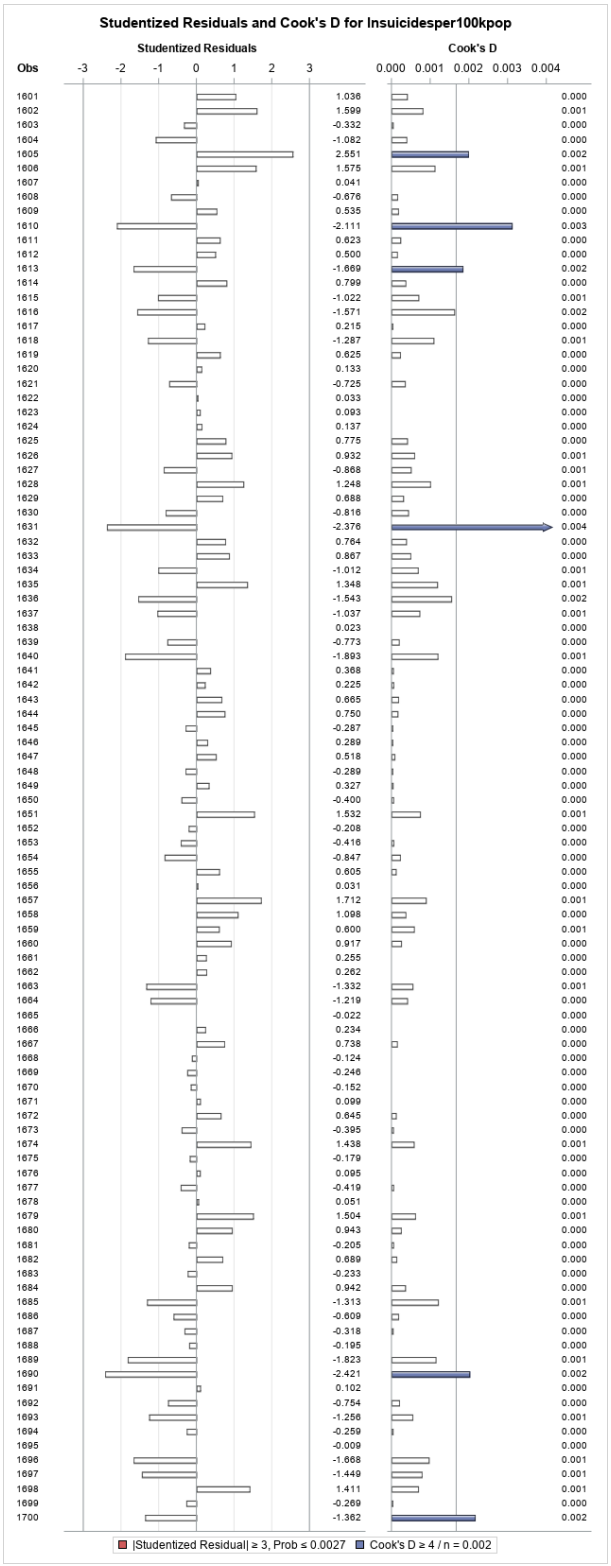

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

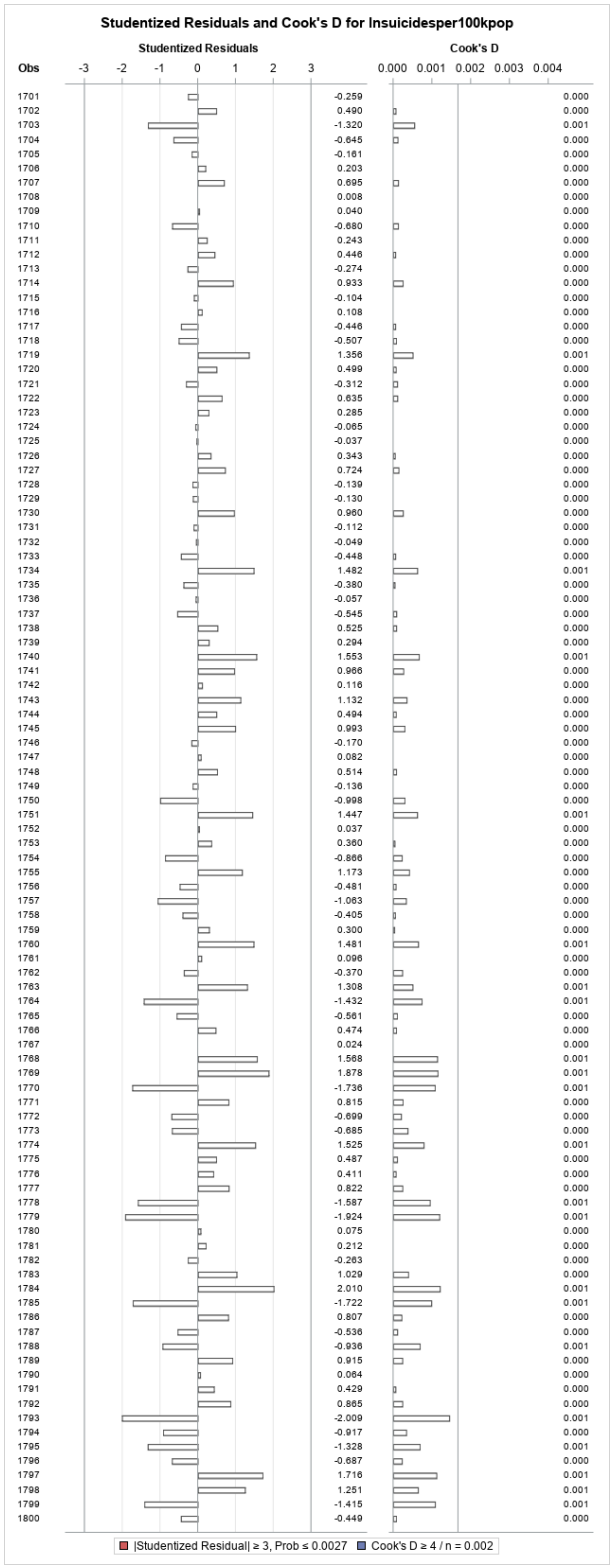

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
1201 1.226 0.000
1202 0.363 0.000
1203 -0.296 0.000
1204 0.579 0.000
1205 -0.226 0.000
1206 0.628 0.000
1207 -1.121 0.002
1208 -0.851 0.001
1209 0.018 0.000
1210 -0.235 0.000
1211 0.004 0.000
1212 -1.794 0.003
1213 0.299 0.000
1214 -0.794 0.001
1215 -1.943 0.003
1216 1.325 0.002
1217 -0.225 0.000
1218 0.004 0.000
1219 -0.138 0.000
1220 0.395 0.000
1221 -1.301 0.003
1222 -0.712 0.000
1223 0.326 0.000
1224 -1.067 0.000
1225 -0.064 0.000
1226 0.381 0.000
1227 0.607 0.000
1228 -0.266 0.000
1229 0.073 0.000
1230 0.959 0.000
1231 -0.170 0.000
1232 -0.254 0.000
1233 -0.984 0.000
1234 1.496 0.001
1235 -0.436 0.000
1236 0.236 0.000
1237 -0.719 0.000
1238 0.420 0.000
1239 -0.144 0.000
1240 1.123 0.000
1241 0.394 0.000
1242 -0.033 0.000
1243 1.228 0.000
1244 0.665 0.000
1245 -0.176 0.000
1246 -0.236 0.000
1247 0.090 0.000
1248 0.847 0.000
1249 0.024 0.000
1250 -0.724 0.000
1251 1.487 0.001
1252 -0.256 0.000
1253 -0.358 0.000
1254 -0.709 0.000
1255 1.103 0.000
1256 -0.479 0.000
1257 0.315 0.000
1258 -0.262 0.000
1259 0.057 0.000
1260 1.379 0.001
1261 0.772 0.000
1262 0.080 0.000
1263 -0.357 0.000
1264 1.404 0.001
1265 -0.872 0.000
1266 -1.972 0.001
1267 -1.704 0.001
1268 -1.273 0.001
1269 0.048 0.000
1270 1.570 0.001
1271 1.886 0.001
1272 -1.172 0.001
1273 0.772 0.000
1274 -0.736 0.000
1275 -0.664 0.000
1276 1.378 0.001
1277 0.665 0.000
1278 1.653 0.001
1279 0.304 0.000
1280 0.918 0.000
1281 -1.471 0.001
1282 -1.264 0.001
1283 -0.340 0.000
1284 -0.347 0.000
1285 -0.989 0.000
1286 -0.097 0.000
1287 0.969 0.000
1288 2.090 0.001
1289 -0.728 0.000
1290 0.912 0.000
1291 -0.547 0.000
1292 -1.069 0.001
1293 0.587 0.000
1294 -0.088 0.000
1295 1.310 0.001
1296 0.397 0.000
1297 1.029 0.000
1298 -1.326 0.001
1299 -0.995 0.000
1300 -2.147 0.001
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

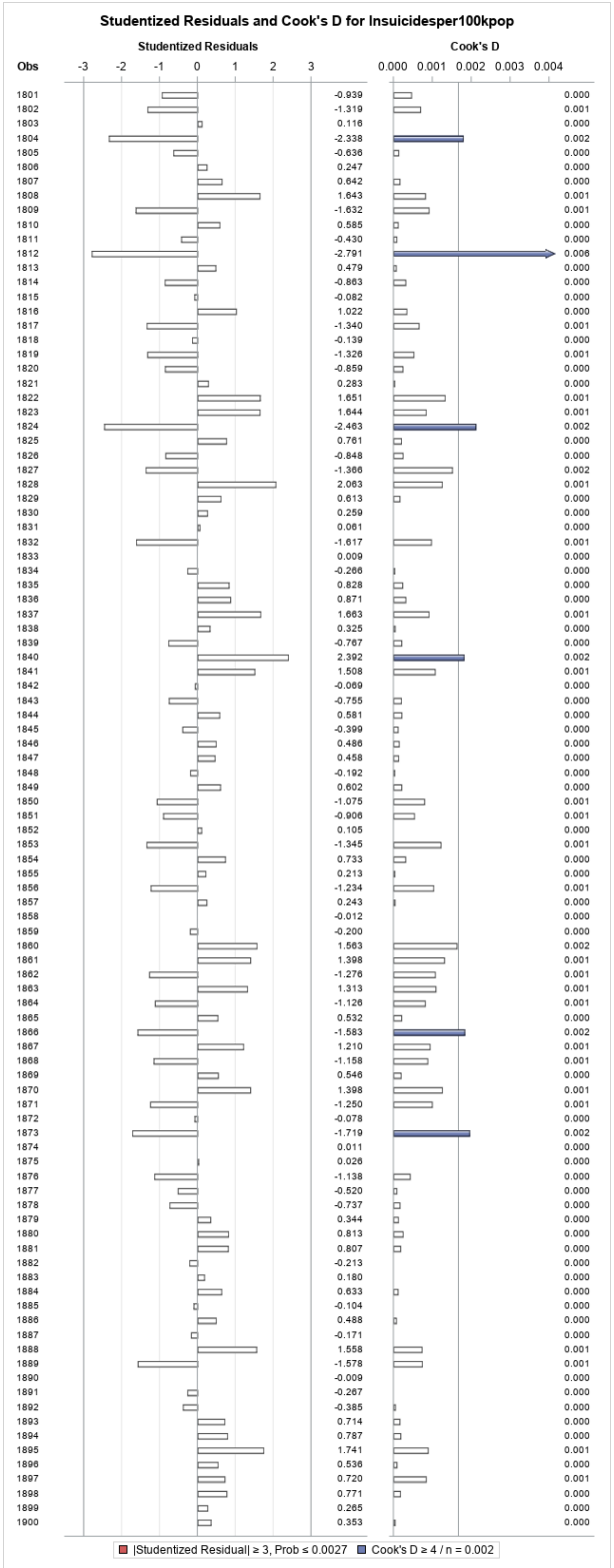

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
1301 -1.782 0.001
1302 -1.656 0.001
1303 0.139 0.000
1304 0.524 0.000
1305 1.598 0.001
1306 -2.337 0.002
1307 0.415 0.000
1308 -0.557 0.000
1309 -1.700 0.002
1310 0.055 0.000
1311 -0.373 0.000
1312 1.036 0.000
1313 -0.160 0.000
1314 0.786 0.000
1315 -2.093 0.002
1316 -0.930 0.001
1317 -1.221 0.001
1318 -0.336 0.000
1319 1.704 0.003
1320 0.895 0.001
1321 -1.005 0.001
1322 -0.969 0.001
1323 -1.019 0.001
1324 -0.163 0.000
1325 -1.287 0.001
1326 0.790 0.001
1327 0.045 0.000
1328 -1.197 0.000
1329 -0.317 0.000
1330 -0.850 0.000
1331 0.283 0.000
1332 1.647 0.001
1333 1.775 0.001
1334 0.334 0.000
1335 -0.664 0.000
1336 -1.256 0.001
1337 2.015 0.001
1338 0.809 0.000
1339 1.692 0.001
1340 0.110 0.000
1341 0.540 0.000
1342 -1.841 0.001
1343 -0.230 0.000
1344 -1.167 0.000
1345 0.116 0.000
1346 0.848 0.000
1347 1.418 0.001
1348 0.810 0.000
1349 -0.541 0.000
1350 1.605 0.002
1351 2.338 0.002
1352 0.738 0.000
1353 1.862 0.001
1354 -0.371 0.000
1355 0.205 0.000
1356 0.459 0.000
1357 -1.072 0.001
1358 0.418 0.000
1359 0.202 0.000
1360 -1.022 0.001
1361 0.576 0.000
1362 0.142 0.000
1363 -1.090 0.001
1364 0.846 0.000
1365 -1.221 0.002
1366 -0.338 0.000
1367 -0.939 0.001
1368 0.102 0.000
1369 0.244 0.000
1370 -0.033 0.000
1371 -0.457 0.000
1372 1.347 0.001
1373 1.437 0.001
1374 -1.021 0.001
1375 1.879 0.002
1376 0.753 0.000
1377 -1.027 0.001
1378 -1.808 0.002
1379 1.216 0.001
1380 -0.990 0.001
1381 0.793 0.000
1382 -1.539 0.002
1383 1.479 0.001
1384 2.582 0.004
1385 -1.998 0.003
1386 -0.496 0.000
1387 0.071 0.000
1388 0.408 0.000
1389 -1.089 0.000
1390 -0.668 0.000
1391 0.271 0.000
1392 0.709 0.000
1393 0.663 0.000
1394 -0.292 0.000
1395 0.239 0.000
1396 0.486 0.000
1397 -0.056 0.000
1398 0.467 0.000
1399 -0.529 0.000
1400 1.925 0.001
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

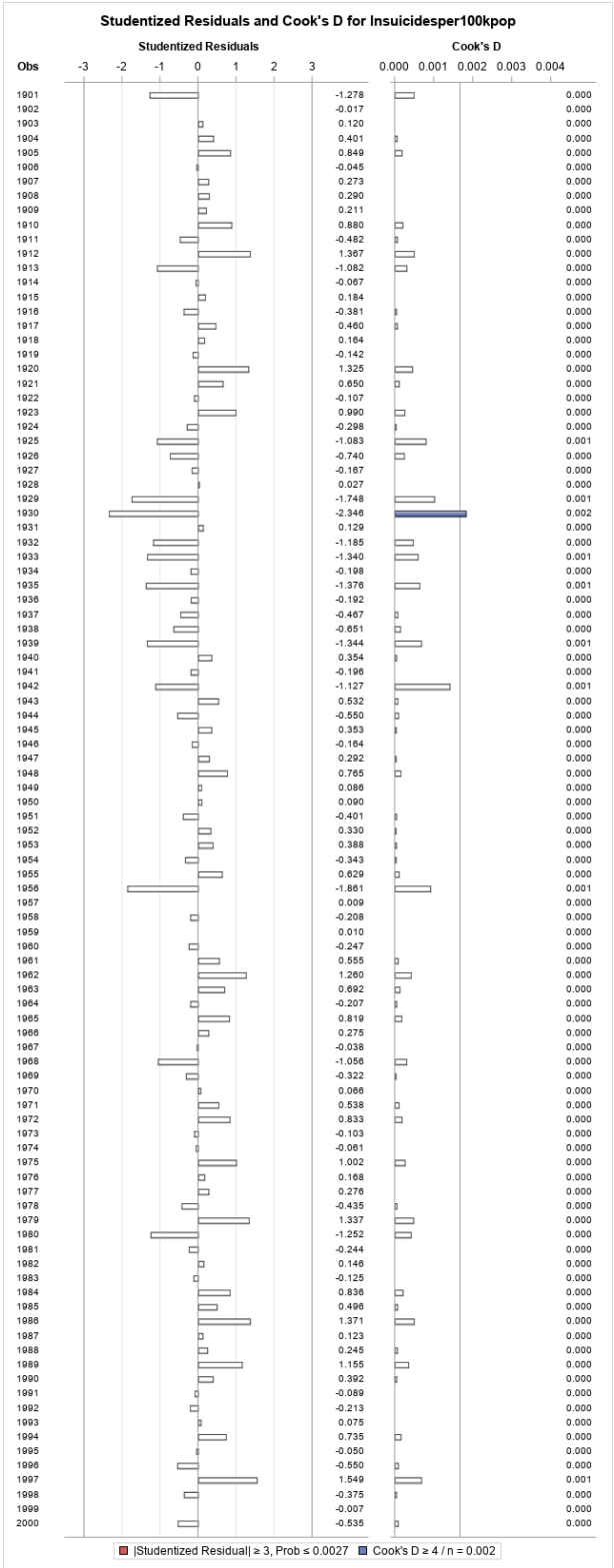

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
1401 -0.203 0.000
1402 0.189 0.000
1403 -0.704 0.000
1404 0.545 0.000
1405 0.815 0.000
1406 1.485 0.001
1407 0.417 0.000
1408 0.635 0.001
1409 0.953 0.000
1410 0.241 0.000
1411 1.014 0.000
1412 -1.264 0.001
1413 0.006 0.000
1414 0.328 0.000
1415 0.684 0.000
1416 -0.066 0.000
1417 0.179 0.000
1418 0.020 0.000
1419 0.085 0.000
1420 0.801 0.000
1421 -0.070 0.000
1422 -0.595 0.000
1423 1.416 0.001
1424 -0.136 0.000
1425 -0.327 0.000
1426 -0.408 0.000
1427 0.455 0.000
1428 1.272 0.000
1429 1.595 0.001
1430 1.048 0.000
1431 -0.145 0.000
1432 0.762 0.000
1433 -0.029 0.000
1434 0.669 0.000
1435 -1.024 0.001
1436 -0.445 0.000
1437 0.033 0.000
1438 -0.402 0.000
1439 -1.771 0.001
1440 -1.688 0.001
1441 0.807 0.000
1442 -0.717 0.000
1443 -2.204 0.002
1444 -0.268 0.000
1445 -0.498 0.000
1446 -0.688 0.000
1447 -0.270 0.000
1448 1.459 0.001
1449 -1.453 0.002
1450 0.499 0.000
1451 0.471 0.000
1452 0.347 0.000
1453 -1.243 0.000
1454 -0.569 0.000
1455 -0.176 0.000
1456 0.313 0.000
1457 0.664 0.000
1458 0.096 0.000
1459 -0.030 0.000
1460 -0.667 0.000
1461 0.430 0.000
1462 0.381 0.000
1463 -0.663 0.000
1464 1.307 0.000
1465 -0.132 0.000
1466 -0.147 0.000
1467 -0.514 0.000
1468 -0.744 0.000
1469 0.952 0.000
1470 0.840 0.000
1471 0.358 0.000
1472 -0.259 0.000
1473 0.799 0.000
1474 0.301 0.000
1475 0.027 0.000
1476 0.083 0.000
1477 0.338 0.000
1478 0.728 0.000
1479 -0.057 0.000
1480 -0.010 0.000
1481 1.070 0.000
1482 0.116 0.000
1483 0.360 0.000
1484 0.582 0.000
1485 -0.784 0.000
1486 1.056 0.000
1487 -0.370 0.000
1488 -0.016 0.000
1489 -0.450 0.000
1490 0.246 0.000
1491 1.207 0.000
1492 0.261 0.000
1493 0.082 0.000
1494 1.293 0.000
1495 0.649 0.000
1496 1.116 0.000
1497 -0.095 0.000
1498 0.122 0.000
1499 0.436 0.000
1500 -0.074 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

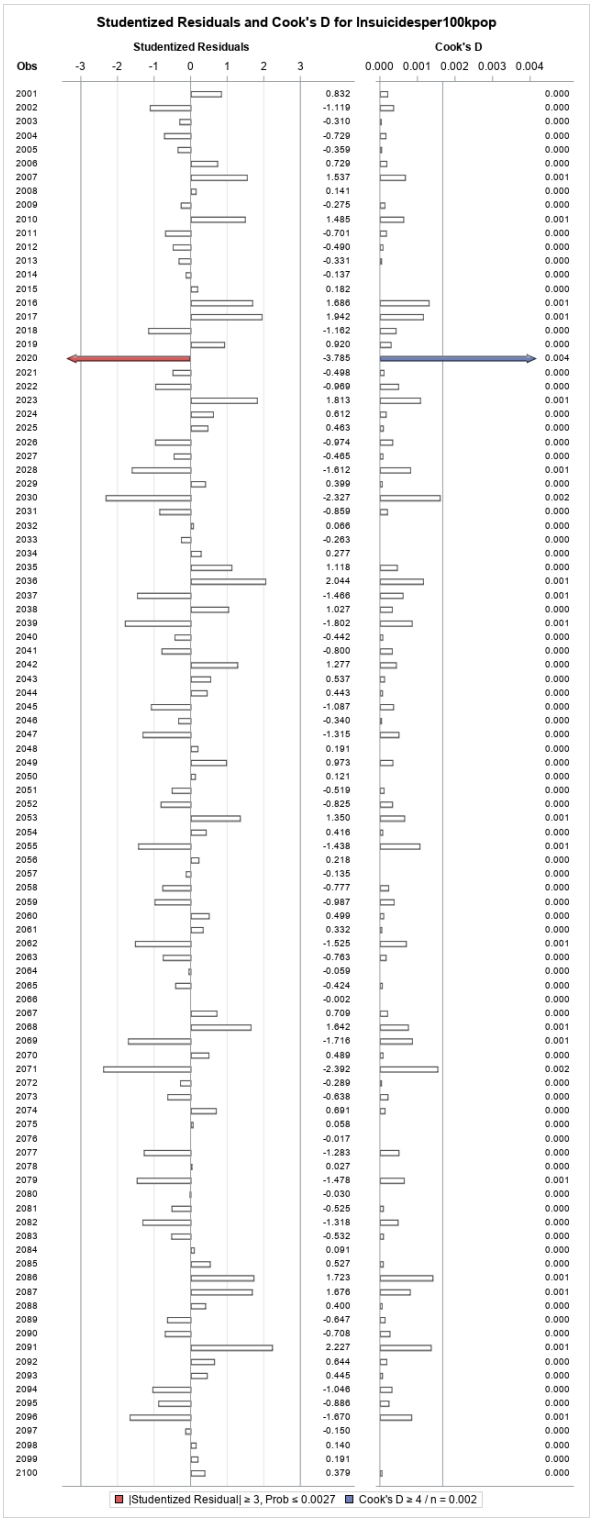

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
1501 -0.900 0.000
1502 1.458 0.001
1503 -0.441 0.000
1504 0.070 0.000
1505 -1.027 0.000
1506 1.214 0.000
1507 -0.448 0.000
1508 -0.093 0.000
1509 -0.067 0.000
1510 -0.110 0.000
1511 1.260 0.000
1512 0.690 0.000
1513 -0.281 0.000
1514 1.569 0.001
1515 -0.637 0.000
1516 -2.056 0.001
1517 -0.450 0.000
1518 -1.194 0.000
1519 -0.674 0.000
1520 0.150 0.000
1521 1.696 0.001
1522 2.021 0.001
1523 -2.065 0.001
1524 0.882 0.000
1525 -0.661 0.000
1526 -0.657 0.000
1527 1.465 0.001
1528 0.351 0.000
1529 0.442 0.000
1530 0.622 0.000
1531 -1.386 0.001
1532 -1.597 0.001
1533 -2.135 0.001
1534 -0.187 0.000
1535 -0.274 0.000
1536 -0.818 0.000
1537 -0.002 0.000
1538 1.089 0.000
1539 2.149 0.001
1540 -1.089 0.000
1541 0.794 0.000
1542 -0.512 0.000
1543 -0.667 0.000
1544 -0.580 0.000
1545 0.971 0.000
1546 0.161 0.000
1547 0.532 0.000
1548 0.733 0.000
1549 -1.516 0.001
1550 -0.820 0.000
1551 -0.627 0.000
1552 -0.826 0.000
1553 -0.910 0.000
1554 2.060 0.002
1555 1.339 0.001
1556 -1.461 0.001
1557 0.579 0.000
1558 -0.355 0.000
1559 -1.082 0.000
1560 0.449 0.000
1561 -1.245 0.000
1562 -3.356 0.003
1563 -0.452 0.000
1564 -0.566 0.000
1565 -1.557 0.001
1566 -0.078 0.000
1567 0.639 0.000
1568 1.679 0.001
1569 -1.525 0.001
1570 0.656 0.000
1571 -1.464 0.001
1572 -0.390 0.000
1573 -0.739 0.000
1574 0.355 0.000
1575 0.224 0.000
1576 0.054 0.000
1577 0.409 0.000
1578 -1.199 0.000
1579 -0.350 0.000
1580 -1.596 0.001
1581 -0.472 0.000
1582 -0.773 0.000
1583 -0.333 0.000
1584 0.144 0.000
1585 1.780 0.002
1586 1.797 0.001
1587 -1.598 0.001
1588 0.697 0.000
1589 -0.837 0.000
1590 -0.089 0.000
1591 2.096 0.001
1592 0.535 0.000
1593 0.328 0.000
1594 0.407 0.000
1595 -1.859 0.001
1596 0.009 0.000
1597 -1.308 0.001
1598 -0.189 0.000
1599 -0.168 0.000
1600 0.488 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

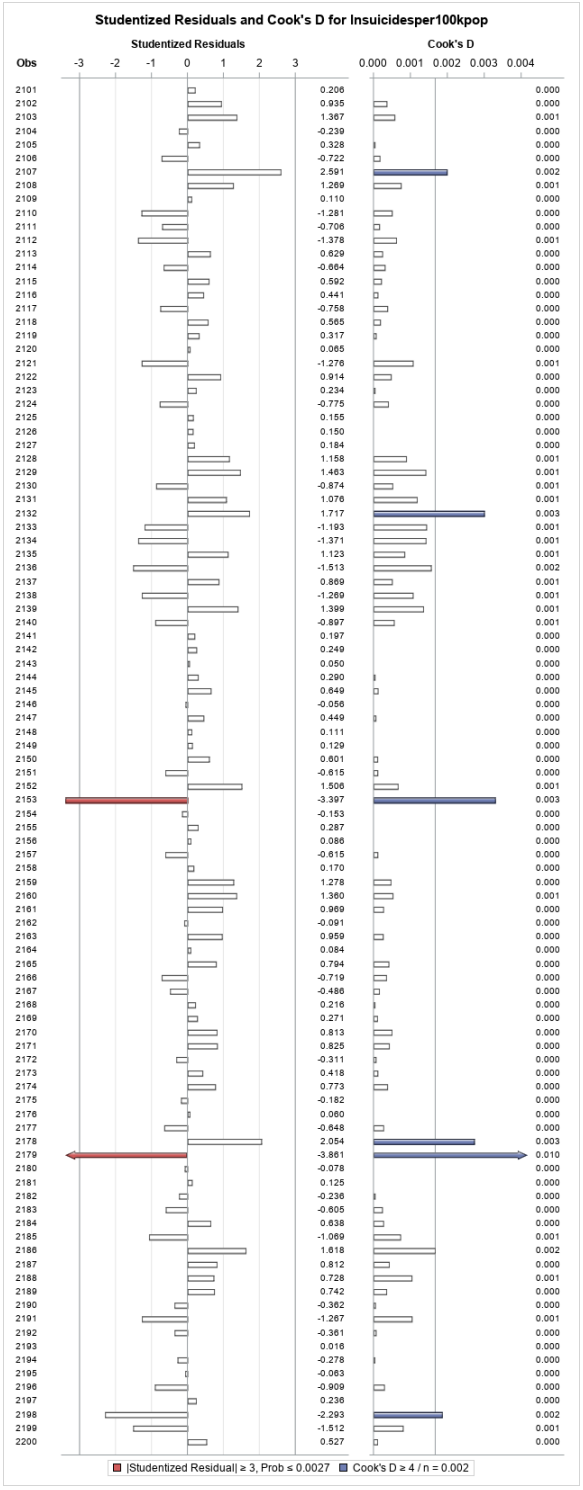

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
1601 1.036 0.000
1602 1.599 0.001
1603 -0.332 0.000
1604 -1.082 0.000
1605 2.551 0.002
1606 1.575 0.001
1607 0.041 0.000
1608 -0.676 0.000
1609 0.535 0.000
1610 -2.111 0.003
1611 0.623 0.000
1612 0.500 0.000
1613 -1.669 0.002
1614 0.799 0.000
1615 -1.022 0.001
1616 -1.571 0.002
1617 0.215 0.000
1618 -1.287 0.001
1619 0.625 0.000
1620 0.133 0.000
1621 -0.725 0.000
1622 0.033 0.000
1623 0.093 0.000
1624 0.137 0.000
1625 0.775 0.000
1626 0.932 0.001
1627 -0.868 0.001
1628 1.248 0.001
1629 0.688 0.000
1630 -0.816 0.000
1631 -2.376 0.004
1632 0.764 0.000
1633 0.867 0.000
1634 -1.012 0.001
1635 1.348 0.001
1636 -1.543 0.002
1637 -1.037 0.001
1638 0.023 0.000
1639 -0.773 0.000
1640 -1.893 0.001
1641 0.368 0.000
1642 0.225 0.000
1643 0.665 0.000
1644 0.750 0.000
1645 -0.287 0.000
1646 0.289 0.000
1647 0.518 0.000
1648 -0.289 0.000
1649 0.327 0.000
1650 -0.400 0.000
1651 1.532 0.001
1652 -0.208 0.000
1653 -0.416 0.000
1654 -0.847 0.000
1655 0.605 0.000
1656 0.031 0.000
1657 1.712 0.001
1658 1.098 0.000
1659 0.600 0.001
1660 0.917 0.000
1661 0.255 0.000
1662 0.262 0.000
1663 -1.332 0.001
1664 -1.219 0.000
1665 -0.022 0.000
1666 0.234 0.000
1667 0.738 0.000
1668 -0.124 0.000
1669 -0.246 0.000
1670 -0.152 0.000
1671 0.099 0.000
1672 0.645 0.000
1673 -0.395 0.000
1674 1.438 0.001
1675 -0.179 0.000
1676 0.095 0.000
1677 -0.419 0.000
1678 0.051 0.000
1679 1.504 0.001
1680 0.943 0.000
1681 -0.205 0.000
1682 0.689 0.000
1683 -0.233 0.000
1684 0.942 0.000
1685 -1.313 0.001
1686 -0.609 0.000
1687 -0.318 0.000
1688 -0.195 0.000
1689 -1.823 0.001
1690 -2.421 0.002
1691 0.102 0.000
1692 -0.754 0.000
1693 -1.256 0.001
1694 -0.259 0.000
1695 -0.009 0.000
1696 -1.668 0.001
1697 -1.449 0.001
1698 1.411 0.001
1699 -0.269 0.000
1700 -1.362 0.002
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

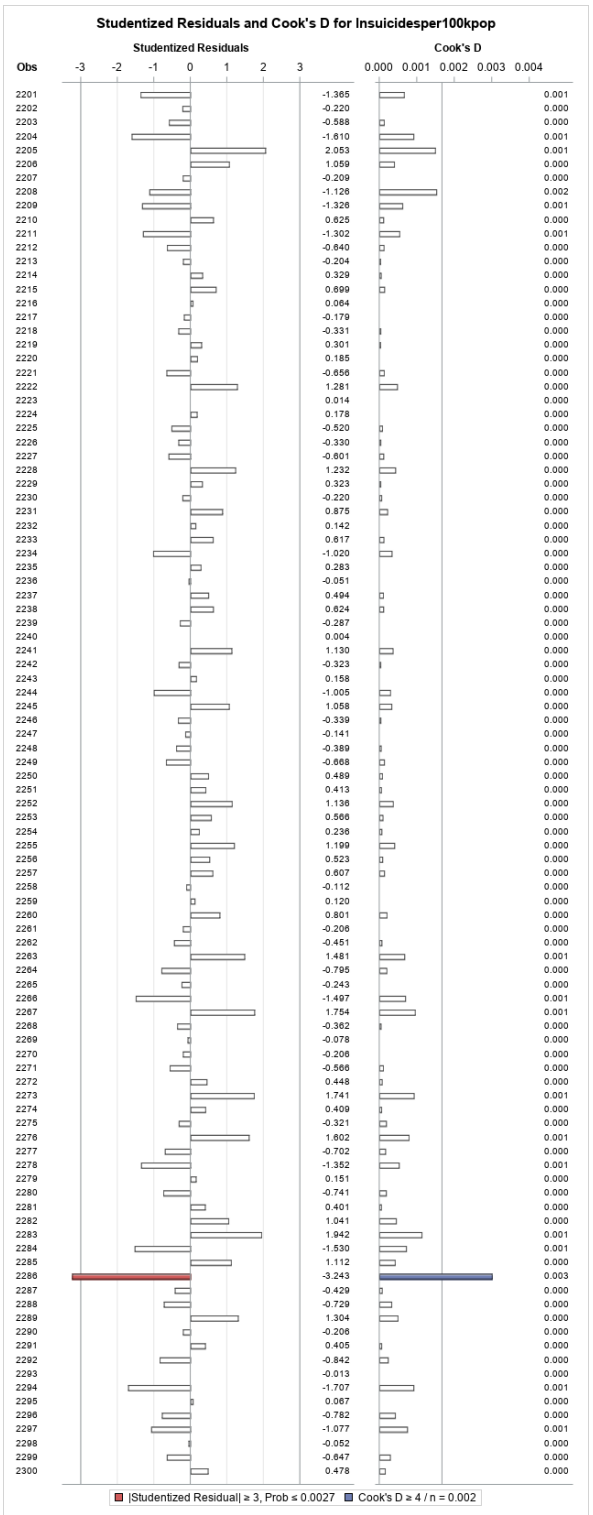

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
1701 -0.259 0.000
1702 0.490 0.000
1703 -1.320 0.001
1704 -0.645 0.000
1705 -0.161 0.000
1706 0.203 0.000
1707 0.695 0.000
1708 0.008 0.000
1709 0.040 0.000
1710 -0.680 0.000
1711 0.243 0.000
1712 0.446 0.000
1713 -0.274 0.000
1714 0.933 0.000
1715 -0.104 0.000
1716 0.108 0.000
1717 -0.446 0.000
1718 -0.507 0.000
1719 1.356 0.001
1720 0.499 0.000
1721 -0.312 0.000
1722 0.635 0.000
1723 0.285 0.000
1724 -0.065 0.000
1725 -0.037 0.000
1726 0.343 0.000
1727 0.724 0.000
1728 -0.139 0.000
1729 -0.130 0.000
1730 0.960 0.000
1731 -0.112 0.000
1732 -0.049 0.000
1733 -0.448 0.000
1734 1.482 0.001
1735 -0.380 0.000
1736 -0.057 0.000
1737 -0.545 0.000
1738 0.525 0.000
1739 0.294 0.000
1740 1.553 0.001
1741 0.966 0.000
1742 0.116 0.000
1743 1.132 0.000
1744 0.494 0.000
1745 0.993 0.000
1746 -0.170 0.000
1747 0.082 0.000
1748 0.514 0.000
1749 -0.136 0.000
1750 -0.998 0.000
1751 1.447 0.001
1752 0.037 0.000
1753 0.360 0.000
1754 -0.866 0.000
1755 1.173 0.000
1756 -0.481 0.000
1757 -1.063 0.000
1758 -0.405 0.000
1759 0.300 0.000
1760 1.481 0.001
1761 0.096 0.000
1762 -0.370 0.000
1763 1.308 0.001
1764 -1.432 0.001
1765 -0.561 0.000
1766 0.474 0.000
1767 0.024 0.000
1768 1.568 0.001
1769 1.878 0.001
1770 -1.736 0.001
1771 0.815 0.000
1772 -0.699 0.000
1773 -0.685 0.000
1774 1.525 0.001
1775 0.487 0.000
1776 0.411 0.000
1777 0.822 0.000
1778 -1.587 0.001
1779 -1.924 0.001
1780 0.075 0.000
1781 0.212 0.000
1782 -0.263 0.000
1783 1.029 0.000
1784 2.010 0.001
1785 -1.722 0.001
1786 0.807 0.000
1787 -0.536 0.000
1788 -0.936 0.001
1789 0.915 0.000
1790 0.064 0.000
1791 0.429 0.000
1792 0.865 0.000
1793 -2.009 0.001
1794 -0.917 0.000
1795 -1.328 0.001
1796 -0.687 0.000
1797 1.716 0.001
1798 1.251 0.001
1799 -1.415 0.001
1800 -0.449 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

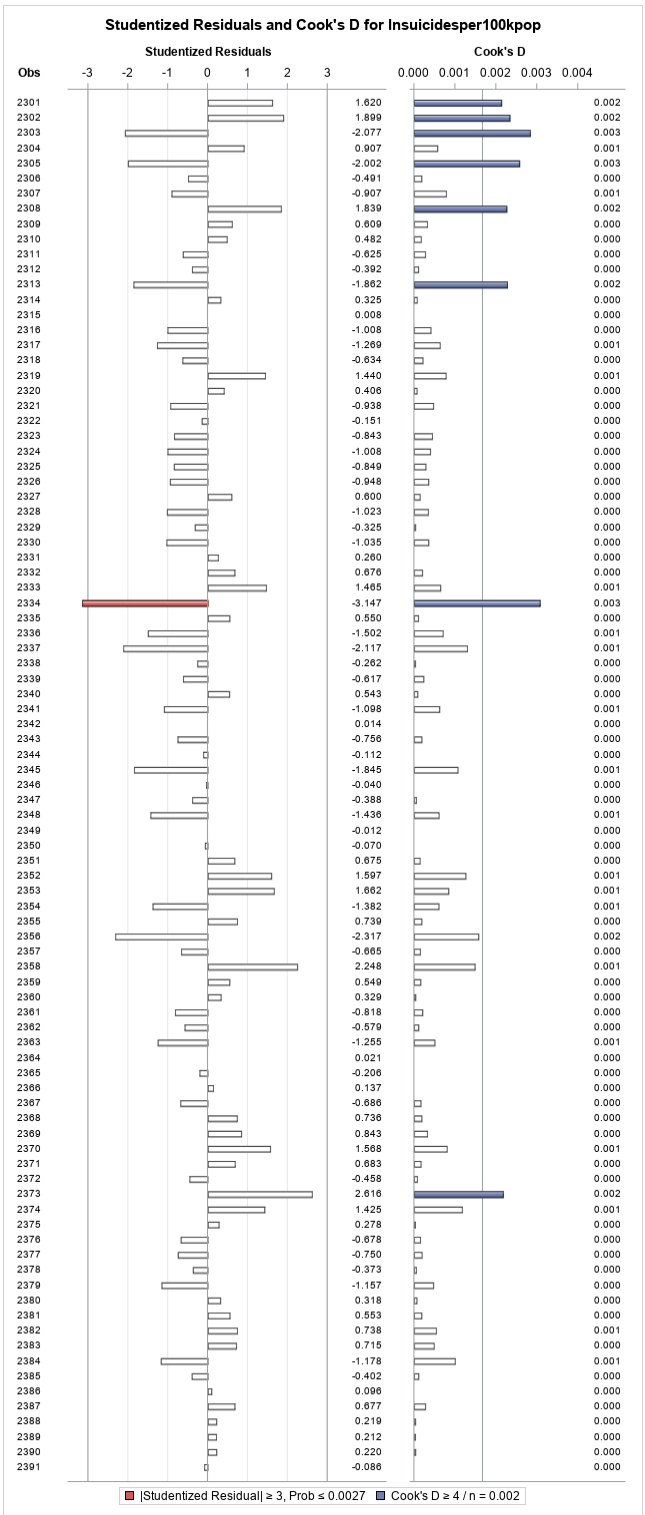

Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
1801 -0.939 0.000
1802 -1.319 0.001
1803 0.116 0.000
1804 -2.338 0.002
1805 -0.636 0.000
1806 0.247 0.000
1807 0.642 0.000
1808 1.643 0.001
1809 -1.632 0.001
1810 0.585 0.000
1811 -0.430 0.000
1812 -2.791 0.006
1813 0.479 0.000
1814 -0.863 0.000
1815 -0.082 0.000
1816 1.022 0.000
1817 -1.340 0.001
1818 -0.139 0.000
1819 -1.326 0.001
1820 -0.859 0.000
1821 0.283 0.000
1822 1.651 0.001
1823 1.644 0.001
1824 -2.463 0.002
1825 0.761 0.000
1826 -0.848 0.000
1827 -1.366 0.002
1828 2.083 0.001
1829 0.613 0.000
1830 0.259 0.000
1831 0.061 0.000
1832 -1.617 0.001
1833 0.009 0.000
1834 -0.266 0.000
1835 0.828 0.000
1836 0.871 0.000
1837 1.663 0.001
1838 0.325 0.000
1839 -0.767 0.000
1840 2.392 0.002
1841 1.508 0.001
1842 -0.069 0.000
1843 -0.755 0.000
1844 0.581 0.000
1845 -0.399 0.000
1846 0.486 0.000
1847 0.458 0.000
1848 -0.192 0.000
1849 0.602 0.000
1850 -1.075 0.001
1851 -0.906 0.001
1852 0.105 0.000
1853 -1.345 0.001
1854 0.733 0.000
1855 0.213 0.000
1856 -1.234 0.001
1857 0.243 0.000
1858 -0.012 0.000
1859 -0.200 0.000
1860 1.563 0.002
1861 1.398 0.001
1862 -1.276 0.001
1863 1.313 0.001
1864 -1.126 0.001
1865 0.532 0.000
1866 -1.583 0.002
1867 1.210 0.001
1868 -1.158 0.001
1869 0.546 0.000
1870 1.398 0.001
1871 -1.250 0.001
1872 -0.078 0.000
1873 -1.719 0.002
1874 0.011 0.000
1875 0.026 0.000
1876 -1.138 0.000
1877 -0.520 0.000
1878 -0.737 0.000
1879 0.344 0.000
1880 0.813 0.000
1881 0.807 0.000
1882 -0.213 0.000
1883 0.180 0.000
1884 0.633 0.000
1885 -0.104 0.000
1886 0.488 0.000
1887 -0.171 0.000
1888 1.558 0.001
1889 -1.578 0.001
1890 -0.009 0.000
1891 -0.267 0.000
1892 -0.385 0.000
1893 0.714 0.000
1894 0.787 0.000
1895 1.741 0.001
1896 0.536 0.000
1897 0.720 0.001
1898 0.771 0.000
1899 0.265 0.000
1900 0.353 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002


Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
1901 -1.278 0.000
1902 -0.017 0.000
1903 0.120 0.000
1904 0.401 0.000
1905 0.849 0.000
1906 -0.045 0.000
1907 0.273 0.000
1908 0.290 0.000
1909 0.211 0.000
1910 0.880 0.000
1911 -0.482 0.000
1912 1.367 0.000
1913 -1.082 0.000
1914 -0.067 0.000
1915 0.184 0.000
1916 -0.381 0.000
1917 0.460 0.000
1918 0.164 0.000
1919 -0.142 0.000
1920 1.325 0.000
1921 0.650 0.000
1922 -0.107 0.000
1923 0.990 0.000
1924 -0.298 0.000
1925 -1.083 0.001
1926 -0.740 0.000
1927 -0.167 0.000
1928 0.027 0.000
1929 -1.748 0.001
1930 -2.346 0.002
1931 0.129 0.000
1932 -1.185 0.000
1933 -1.340 0.001
1934 -0.198 0.000
1935 -1.376 0.001
1936 -0.192 0.000
1937 -0.467 0.000
1938 -0.651 0.000
1939 -1.344 0.001
1940 0.354 0.000
1941 -0.196 0.000
1942 -1.127 0.001
1943 0.532 0.000
1944 -0.550 0.000
1945 0.353 0.000
1946 -0.164 0.000
1947 0.292 0.000
1948 0.765 0.000
1949 0.086 0.000
1950 0.090 0.000
1951 -0.401 0.000
1952 0.330 0.000
1953 0.388 0.000
1954 -0.343 0.000
1955 0.629 0.000
1956 -1.861 0.001
1957 0.009 0.000
1958 -0.208 0.000
1959 0.010 0.000
1960 -0.247 0.000
1961 0.555 0.000
1962 1.260 0.000
1963 0.692 0.000
1964 -0.207 0.000
1965 0.819 0.000
1966 0.275 0.000
1967 -0.038 0.000
1968 -1.056 0.000
1969 -0.322 0.000
1970 0.066 0.000
1971 0.538 0.000
1972 0.833 0.000
1973 -0.103 0.000
1974 -0.061 0.000
1975 1.002 0.000
1976 0.168 0.000
1977 0.276 0.000
1978 -0.435 0.000
1979 1.337 0.000
1980 -1.252 0.000
1981 -0.244 0.000
1982 0.146 0.000
1983 -0.125 0.000
1984 0.836 0.000
1985 0.496 0.000
1986 1.371 0.000
1987 0.123 0.000
1988 0.245 0.000
1989 1.155 0.000
1990 0.392 0.000
1991 -0.089 0.000
1992 -0.213 0.000
1993 0.075 0.000
1994 0.735 0.000
1995 -0.050 0.000
1996 -0.550 0.000
1997 1.549 0.001
1998 -0.375 0.000
1999 -0.007 0.000
2000 -0.535 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002


Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
2001 0.832 0.000
2002 -1.119 0.000
2003 -0.310 0.000
2004 -0.729 0.000
2005 -0.359 0.000
2006 0.729 0.000
2007 1.537 0.001
2008 0.141 0.000
2009 -0.275 0.000
2010 1.485 0.001
2011 -0.701 0.000
2012 -0.490 0.000
2013 -0.331 0.000
2014 -0.137 0.000
2015 0.182 0.000
2016 1.686 0.001
2017 1.942 0.001
2018 -1.162 0.000
2019 0.920 0.000
2020 -3.785 0.004
2021 -0.498 0.000
2022 -0.989 0.000
2023 1.813 0.001
2024 0.612 0.000
2025 0.463 0.000
2026 -0.974 0.000
2027 -0.465 0.000
2028 -1.612 0.001
2029 0.399 0.000
2030 -2.327 0.002
2031 -0.859 0.000
2032 0.066 0.000
2033 -0.263 0.000
2034 0.277 0.000
2035 1.118 0.000
2036 2.044 0.001
2037 -1.466 0.001
2038 1.027 0.000
2039 -1.802 0.001
2040 -0.442 0.000
2041 -0.800 0.000
2042 1.277 0.000
2043 0.537 0.000
2044 0.443 0.000
2045 -1.087 0.000
2046 -0.340 0.000
2047 -1.315 0.000
2048 0.191 0.000
2049 0.973 0.000
2050 0.121 0.000
2051 -0.519 0.000
2052 -0.825 0.000
2053 1.350 0.001
2054 0.416 0.000
2055 -1.438 0.001
2056 0.218 0.000
2057 -0.135 0.000
2058 -0.777 0.000
2059 -0.987 0.000
2060 0.499 0.000
2061 0.332 0.000
2062 -1.525 0.001
2063 -0.763 0.000
2064 -0.059 0.000
2065 -0.424 0.000
2066 -0.002 0.000
2067 0.709 0.000
2068 1.642 0.001
2069 -1.716 0.001
2070 0.489 0.000
2071 -2.392 0.002
2072 -0.289 0.000
2073 -0.638 0.000
2074 0.691 0.000
2075 0.058 0.000
2076 -0.017 0.000
2077 -1.283 0.000
2078 0.027 0.000
2079 -1.478 0.001
2080 -0.030 0.000
2081 -0.525 0.000
2082 -1.318 0.000
2083 -0.532 0.000
2084 0.091 0.000
2085 0.527 0.000
2086 1.723 0.001
2087 1.676 0.001
2088 0.400 0.000
2089 -0.647 0.000
2090 -0.708 0.000
2091 2.227 0.001
2092 0.644 0.000
2093 0.445 0.000
2094 -1.046 0.000
2095 -0.886 0.000
2096 -1.670 0.001
2097 -0.150 0.000
2098 0.140 0.000
2099 0.191 0.000
2100 0.379 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002


Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
2101 0.206 0.000
2102 0.935 0.000
2103 1.367 0.001
2104 -0.239 0.000
2105 0.328 0.000
2106 -0.722 0.000
2107 2.591 0.002
2108 1.269 0.001
2109 0.110 0.000
2110 -1.281 0.000
2111 -0.706 0.000
2112 -1.378 0.001
2113 0.629 0.000
2114 -0.664 0.000
2115 0.592 0.000
2116 0.441 0.000
2117 -0.758 0.000
2118 0.565 0.000
2119 0.317 0.000
2120 0.065 0.000
2121 -1.276 0.001
2122 0.914 0.000
2123 0.234 0.000
2124 -0.775 0.000
2125 0.155 0.000
2126 0.150 0.000
2127 0.184 0.000
2128 1.158 0.001
2129 1.463 0.001
2130 -0.874 0.001
2131 1.076 0.001
2132 1.717 0.003
2133 -1.193 0.001
2134 -1.371 0.001
2135 1.123 0.001
2136 -1.513 0.002
2137 0.869 0.001
2138 -1.269 0.001
2139 1.399 0.001
2140 -0.897 0.001
2141 0.197 0.000
2142 0.249 0.000
2143 0.050 0.000
2144 0.290 0.000
2145 0.649 0.000
2146 -0.056 0.000
2147 0.449 0.000
2148 0.111 0.000
2149 0.129 0.000
2150 0.601 0.000
2151 -0.615 0.000
2152 1.506 0.001
2153 -3.397 0.003
2154 -0.153 0.000
2155 0.287 0.000
2156 0.086 0.000
2157 -0.615 0.000
2158 0.170 0.000
2159 1.278 0.000
2160 1.360 0.001
2161 0.969 0.000
2162 -0.091 0.000
2163 0.959 0.000
2164 0.084 0.000
2165 0.794 0.000
2166 -0.719 0.000
2167 -0.486 0.000
2168 0.216 0.000
2169 0.271 0.000
2170 0.813 0.000
2171 0.825 0.000
2172 -0.311 0.000
2173 0.418 0.000
2174 0.773 0.000
2175 -0.182 0.000
2176 0.060 0.000
2177 -0.648 0.000
2178 2.054 0.003
2179 -3.861 0.010
2180 -0.078 0.000
2181 0.125 0.000
2182 -0.236 0.000
2183 -0.605 0.000
2184 0.638 0.000
2185 -1.069 0.001
2186 1.618 0.002
2187 0.812 0.000
2188 0.728 0.001
2189 0.742 0.000
2190 -0.362 0.000
2191 -1.267 0.001
2192 -0.361 0.000
2193 0.016 0.000
2194 -0.278 0.000
2195 -0.063 0.000
2196 -0.909 0.000
2197 0.236 0.000
2198 -2.293 0.002
2199 -1.512 0.001
2200 0.527 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002


Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
2201 -1.365 0.001
2202 -0.220 0.000
2203 -0.588 0.000
2204 -1.610 0.001
2205 2.053 0.001
2206 1.059 0.000
2207 -0.209 0.000
2208 -1.126 0.002
2209 -1.326 0.001
2210 0.625 0.000
2211 -1.302 0.001
2212 -0.640 0.000
2213 -0.204 0.000
2214 0.329 0.000
2215 0.699 0.000
2216 0.064 0.000
2217 -0.179 0.000
2218 -0.331 0.000
2219 0.301 0.000
2220 0.185 0.000
2221 -0.656 0.000
2222 1.281 0.000
2223 0.014 0.000
2224 0.178 0.000
2225 -0.520 0.000
2226 -0.330 0.000
2227 -0.601 0.000
2228 1.232 0.000
2229 0.323 0.000
2230 -0.220 0.000
2231 0.875 0.000
2232 0.142 0.000
2233 0.617 0.000
2234 -1.020 0.000
2235 0.283 0.000
2236 -0.051 0.000
2237 0.494 0.000
2238 0.624 0.000
2239 -0.287 0.000
2240 0.004 0.000
2241 1.130 0.000
2242 -0.323 0.000
2243 0.158 0.000
2244 -1.005 0.000
2245 1.058 0.000
2246 -0.339 0.000
2247 -0.141 0.000
2248 -0.389 0.000
2249 -0.668 0.000
2250 0.489 0.000
2251 0.413 0.000
2252 1.136 0.000
2253 0.566 0.000
2254 0.236 0.000
2255 1.199 0.000
2256 0.523 0.000
2257 0.607 0.000
2258 -0.112 0.000
2259 0.120 0.000
2260 0.801 0.000
2261 -0.206 0.000
2262 -0.451 0.000
2263 1.481 0.001
2264 -0.795 0.000
2265 -0.243 0.000
2266 -1.497 0.001
2267 1.754 0.001
2268 -0.362 0.000
2269 -0.078 0.000
2270 -0.206 0.000
2271 -0.566 0.000
2272 0.448 0.000
2273 1.741 0.001
2274 0.409 0.000
2275 -0.321 0.000
2276 1.602 0.001
2277 -0.702 0.000
2278 -1.352 0.001
2279 0.151 0.000
2280 -0.741 0.000
2281 0.401 0.000
2282 1.041 0.000
2283 1.942 0.001
2284 -1.530 0.001
2285 1.112 0.000
2286 -3.243 0.003
2287 -0.429 0.000
2288 -0.729 0.000
2289 1.304 0.000
2290 -0.206 0.000
2291 0.405 0.000
2292 -0.842 0.000
2293 -0.013 0.000
2294 -1.707 0.001
2295 0.067 0.000
2296 -0.782 0.000
2297 -1.077 0.001
2298 -0.052 0.000
2299 -0.647 0.000
2300 0.478 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002


Studentized Residuals and Cook's D for Insuicidesper100kpop
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.001 0.002 0.003 0.004
2301 1.620 0.002
2302 1.899 0.002
2303 -2.077 0.003
2304 0.907 0.001
2305 -2.002 0.003
2306 -0.491 0.000
2307 -0.907 0.001
2308 1.839 0.002
2309 0.609 0.000
2310 0.482 0.000
2311 -0.625 0.000
2312 -0.392 0.000
2313 -1.862 0.002
2314 0.325 0.000
2315 0.008 0.000
2316 -1.008 0.000
2317 -1.269 0.001
2318 -0.634 0.000
2319 1.440 0.001
2320 0.406 0.000
2321 -0.938 0.000
2322 -0.151 0.000
2323 -0.843 0.000
2324 -1.008 0.000
2325 -0.849 0.000
2326 -0.948 0.000
2327 0.600 0.000
2328 -1.023 0.000
2329 -0.325 0.000
2330 -1.035 0.000
2331 0.260 0.000
2332 0.676 0.000
2333 1.465 0.001
2334 -3.147 0.003
2335 0.550 0.000
2336 -1.502 0.001
2337 -2.117 0.001
2338 -0.262 0.000
2339 -0.617 0.000
2340 0.543 0.000
2341 -1.098 0.001
2342 0.014 0.000
2343 -0.756 0.000
2344 -0.112 0.000
2345 -1.845 0.001
2346 -0.040 0.000
2347 -0.388 0.000
2348 -1.436 0.001
2349 -0.012 0.000
2350 -0.070 0.000
2351 0.675 0.000
2352 1.597 0.001
2353 1.662 0.001
2354 -1.382 0.001
2355 0.739 0.000
2356 -2.317 0.002
2357 -0.665 0.000
2358 2.248 0.001
2359 0.549 0.000
2360 0.329 0.000
2361 -0.818 0.000
2362 -0.579 0.000
2363 -1.255 0.001
2364 0.021 0.000
2365 -0.206 0.000
2366 0.137 0.000
2367 -0.686 0.000
2368 0.736 0.000
2369 0.843 0.000
2370 1.568 0.001
2371 0.683 0.000
2372 -0.458 0.000
2373 2.616 0.002
2374 1.425 0.001
2375 0.278 0.000
2376 -0.678 0.000
2377 -0.750 0.000
2378 -0.373 0.000
2379 -1.157 0.000
2380 0.318 0.000
2381 0.553 0.000
2382 0.738 0.001
2383 0.715 0.000
2384 -1.178 0.001
2385 -0.402 0.000
2386 0.096 0.000
2387 0.677 0.000
2388 0.219 0.000
2389 0.212 0.000
2390 0.220 0.000
2391 -0.086 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

Ram13

The SURVEYSELECT Procedure

Selection Method	Simple Random Sampling

Input Data Set	NEW_SUICIDE
Random Number Seed	12345
Sampling Rate	0.7
Sample Size	1666
Selection Probability	0.700294
Sampling Weight	0
Output Data Set	ALL_SUICIDE

Ram14

Number in Model	C(p)	R-Square	Variables in Model
9	7.5690	0.5320	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage5 dcontinent1 dcontinent2
10	8.1279	0.5324	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage5 dyear4 dcontinent1 dcontinent2
10	9.0365	0.5322	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage5 dcontinent1 dcontinent2 dcontinent3
11	9.0489	0.5328	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage5 dyear1 dyear4 dcontinent1 dcontinent2
10	9.0920	0.5322	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage5 dyear1 dcontinent1 dcontinent2
10	9.1302	0.5322	population gdp_for_year_dollars gdp_per_capita_dollars dsex dgeneration3 dgeneration4 dage1 dage5 dcontinent1 dcontinent2
10	9.2867	0.5321	population gdp_for_year_dollars dsex dage1 dage2 dage3 dage4 dage5 dcontinent1 dcontinent2
10	9.3160	0.5321	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage2 dage5 dcontinent1 dcontinent2
10	9.3855	0.5321	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage3 dage5 dcontinent1 dcontinent2
10	9.5383	0.5321	population gdp_for_year_dollars dsex dgeneration2 dgeneration3 dgeneration4 dage1 dage5 dcontinent1 dcontinent2
10	9.5454	0.5320	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage5 dyear3 dcontinent1 dcontinent2
10	9.5464	0.5320	population gdp_for_year_dollars dsex dgeneration1 dgeneration2 dage1 dage4 dage5 dcontinent1 dcontinent2
10	9.5464	0.5320	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage5 dyear2 dcontinent1 dcontinent2
10	9.5558	0.5320	population gdp_for_year_dollars dsex dgeneration1 dgeneration3 dgeneration4 dage1 dage5 dcontinent1 dcontinent2
10	9.5633	0.5320	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage4 dage5 dcontinent1 dcontinent2
11	9.6565	0.5326	population gdp_for_year_dollars dsex dgeneration3 dgeneration4 dage1 dage5 dyear4 dcontinent1 dcontinent2 dcontinent3

Ram15

Summary of Stepwise Selection

Step	Variable Entered	Variable Removed	Number Vars In	Partial R-Square	Model R-Square	C(p)	F Value	Pr > F
1	dgeneration4		1	0.2352	0.2352	1040.40	511.80	<.0001
2	dsex		2	0.1800	0.4152	406.353	511.89	<.0001
3	dgeneration3		3	0.0226	0.4378	328.597	66.72	<.0001
4	dage1		4	0.0528	0.4906	143.926	172.26	<.0001
5	dcontinent1		5	0.0141	0.5047	96.0257	47.33	<.0001
6	dcontinent2		6	0.0136	0.5184	49.8132	47.00	<.0001
7	dage5		7	0.0086	0.5270	21.2490	30.32	<.0001
8	gdp_for_year_dollars		8	0.0024	0.5294	14.9215	8.30	0.0040
9	population		9	0.0026	0.5320	7.5690	9.37	0.0022

Variable population Entered: R-Square = 0.5320 and C(p) = 7.5690

Analysis of Variance

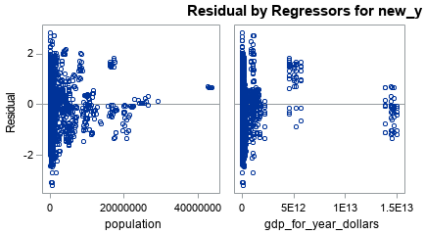
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	1686.82013	187.42446	209.20	<.0001
Error	1656	1483.64772	0.89592		
Corrected Total	1665	3170.46785			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	1.48623	0.04766	871.39685	972.63	<.0001
population	-2.18082E-8	7.125849E-9	8.39148	9.37	0.0022
gdp_for_year_dollars	6.16337E-14	1.46516E-14	15.85382	17.70	<.0001
dsex	1.15099	0.04655	547.70381	611.33	<.0001
dgeneration3	-2.22765	0.14313	217.02900	242.24	<.0001
dgeneration4	-2.21285	0.07864	709.44153	791.86	<.0001
dage1	2.05111	0.15025	166.95630	186.35	<.0001
dage5	0.31566	0.07011	18.16334	20.27	<.0001
dcontinent1	-0.83026	0.10470	56.33860	62.88	<.0001
dcontinent2	-0.32115	0.04890	38.63597	43.12	<.0001

Ram16

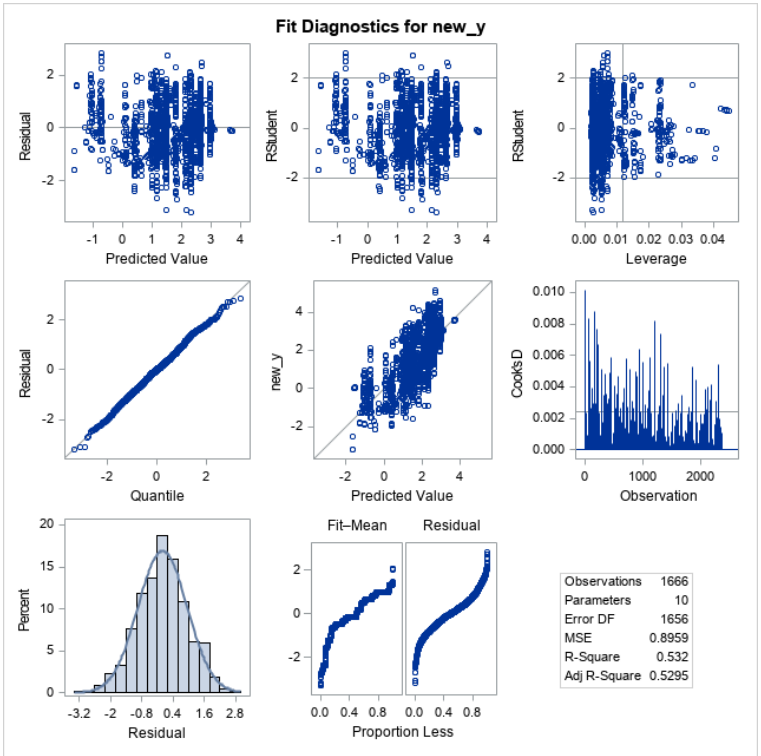
Parameter Estimates								
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Standardized Estimate	Tolerance	Variance Inflation
Intercept	1	1.48623	0.04766	31.19	<.0001	0	.	0
population	1	-2.18082E-8	7.125849E-9	-3.06	0.0022	-0.07793	0.43583	2.29449
gdp_for_year_dollars	1	6.16337E-14	1.46516E-14	4.21	<.0001	0.10658	0.44019	2.27173
dsex	1	1.15099	0.04655	24.73	<.0001	0.41651	0.99581	1.00421
dgeneration3	1	-2.22765	0.14313	-15.56	<.0001	-0.64939	0.16232	6.16052
dgeneration4	1	-2.21285	0.07864	-28.14	<.0001	-0.48933	0.93451	1.07008
dage1	1	2.05111	0.15025	13.65	<.0001	0.56529	0.16479	6.06832
dage5	1	0.31566	0.07011	4.50	<.0001	0.08118	0.86939	1.15023
dcontinent1	1	-0.83026	0.10470	-7.93	<.0001	-0.13605	0.95997	1.04170
dcontinent2	1	-0.32115	0.04890	-6.57	<.0001	-0.11286	0.95678	1.04517

Number of Observations Read	2379
Number of Observations Used	1666
Number of Observations with Missing Values	713



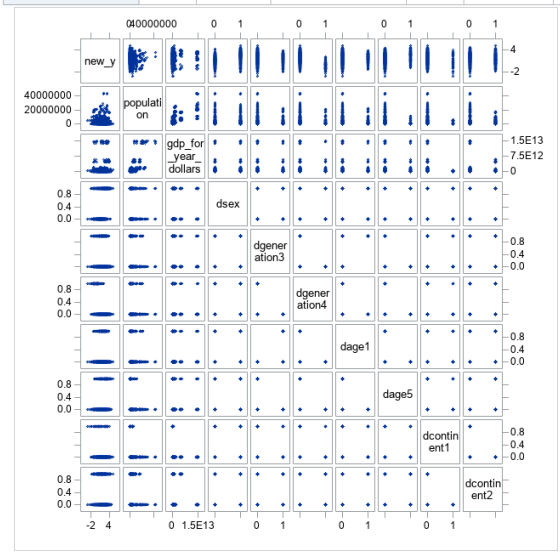
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	1686.82013	187.42446	209.20	<.0001
Error	1656	1483.64772	0.89592		
Corrected Total	1665	3170.46785			

Root MSE	0.94653	R-Square	0.5320
Dependent Mean	1.64352	Adj R-Sq	0.5295
Coeff Var	57.59169		

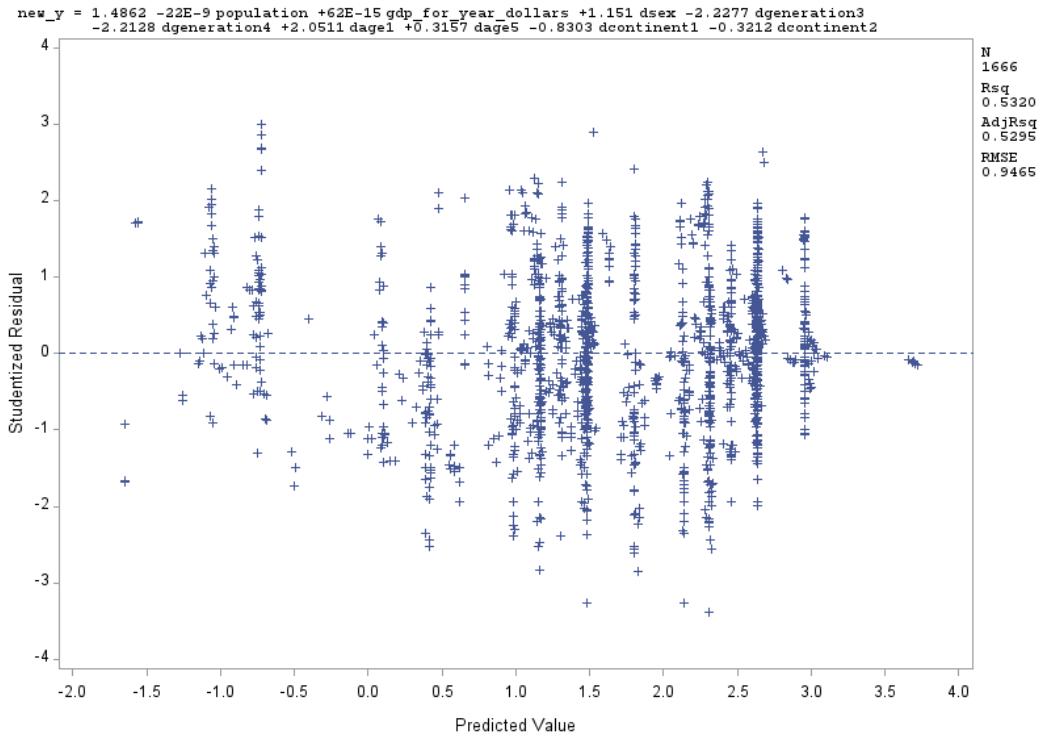


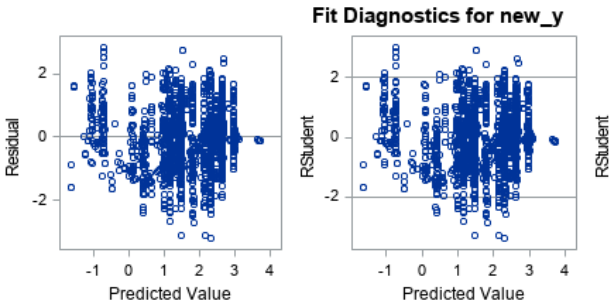
Ram17

Pearson Correlation Coefficients Prob > |r| under H0: Rho=0 Number of Observations	new_y	population	gdp_for_year_dollars	dsex	dgeneration3	dgeneration4	dage1	dage5	dcontinent1	dcontinent2
new_y	1.00000 1666	-0.05436 0.0265 1666	0.04252 0.0827 1666	0.43633 <.0001 1666	-0.07228 0.0032 1666	-0.48500 <.0001 1666	0.02823 0.2495 1666	0.20374 <.0001 1666	-0.11154 <.0001 1666	-0.08510 0.0005 1666
population	-0.05436 0.0265 1666	1.00000 2379	0.75405 <.0001 2379	-0.03615 0.0780 2379	0.00589 0.7741 2379	0.04796 0.0193 2379	-0.00236 0.9084 2379	-0.13742 <.0001 2379	-0.03231 0.1152 2379	-0.04598 0.0249 2379
gdp_for_year_dollars	0.04252 0.0827 1666	0.75405 <.0001 2379	1.00000 2379	-0.01869 0.3622 2379	-0.00632 0.7582 2379	0.02631 0.1995 2379	-0.00841 0.6819 2379	0.01902 0.3539 2379	-0.05599 0.0063 2379	-0.06715 0.0010 2379
dsex	0.43633 <.0001 1666	-0.03615 0.0780 2379	-0.01869 0.3622 2379	1.00000 2379	-0.01046 0.6100 2379	-0.00434 0.8326 2379	-0.00877 0.6690 2379	0.01846 0.3682 2379	0.00431 0.8336 2379	-0.00718 0.7265 2379
dgeneration3	-0.07228 0.0032 1666	0.00589 0.7741 2379	-0.00632 0.7582 2379	-0.01046 0.6100 2379	1.00000 2379	-0.17624 <.0001 2379	0.91687 <.0001 2379	-0.20806 <.0001 2379	-0.00036 0.9859 2379	0.00405 0.8433 2379
dgeneration4	-0.48500 <.0001 1666	0.04796 0.0193 2379	0.02631 0.1995 2379	-0.00434 0.8326 2379	-0.17624 <.0001 2379	1.00000 2379	-0.16159 <.0001 2379	-0.14173 <.0001 2379	-0.01895 0.3554 2379	-0.02521 0.2191 2379
dage1	0.02823 0.2495 1666	-0.00236 0.9084 2379	-0.00841 0.6819 2379	-0.00877 0.6690 2379	0.91687 <.0001 2379	-0.16159 <.0001 2379	1.00000 2379	-0.19077 <.0001 2379	0.00102 0.9603 2379	0.00844 0.6807 2379
dage5	0.20374 <.0001 1666	-0.13742 <.0001 2379	0.01902 0.3539 2379	0.01846 0.3682 2379	-0.20806 <.0001 2379	-0.14173 <.0001 2379	-0.19077 <.0001 2379	1.00000 2379	-0.00809 0.6934 2379	-0.00496 0.8091 2379
dcontinent1	-0.11154 <.0001 1666	-0.03231 0.1152 2379	-0.05599 0.0063 2379	0.00431 0.8336 2379	-0.00036 0.9859 2379	-0.01895 0.3554 2379	0.00102 0.9603 2379	-0.00809 0.6934 2379	1.00000 2379	-0.17910 <.0001 2379
dcontinent2	-0.08510 0.0005 1666	-0.04598 0.0249 2379	-0.06715 0.0010 2379	-0.00718 0.7265 2379	0.00405 0.8433 2379	-0.02521 0.2191 2379	0.00844 0.6807 2379	-0.00496 0.8091 2379	-0.17910 <.0001 2379	1.00000 2379

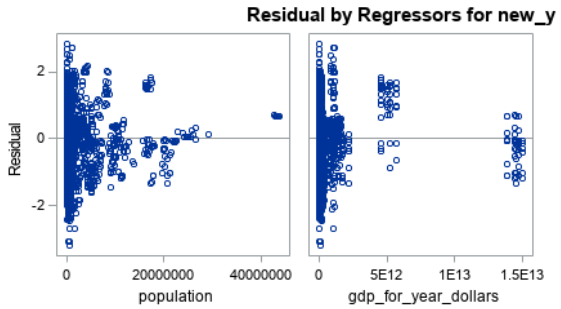


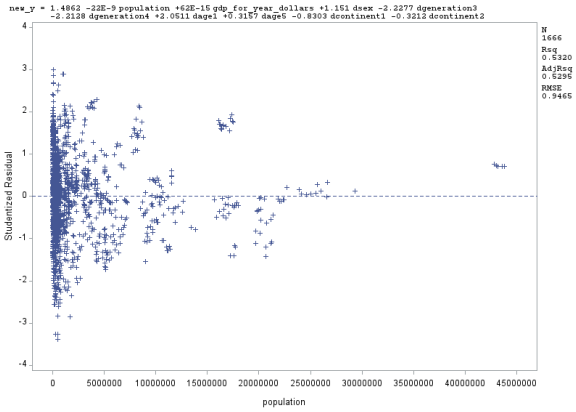
Ram18

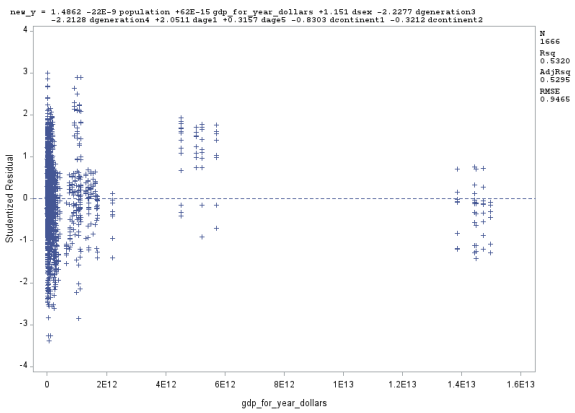

new_y = 1.4862 -22E-9 population +62E-15 gdp_for_year_dollars +1.151 dsex -2.2277 dgeneration3
-2.2128 dgeneration4 +2.0511 dage1 +0.3157 dage5 -0.8303 dcontinent1 -0.3212 dcontinent2
N
1666
Rsq
0.5320
AdjRsq
0.5295
RMSE
0.9465
Studentized Residual
Predicted Value


Fit Diagnostics for new_y
Residual
RStudent
RStudent
Predicted Value
Predicted Value

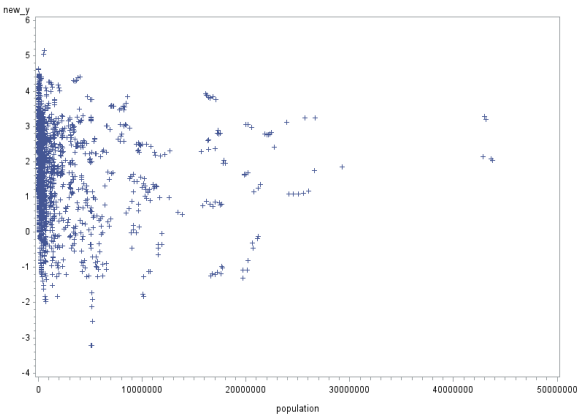
Ram19

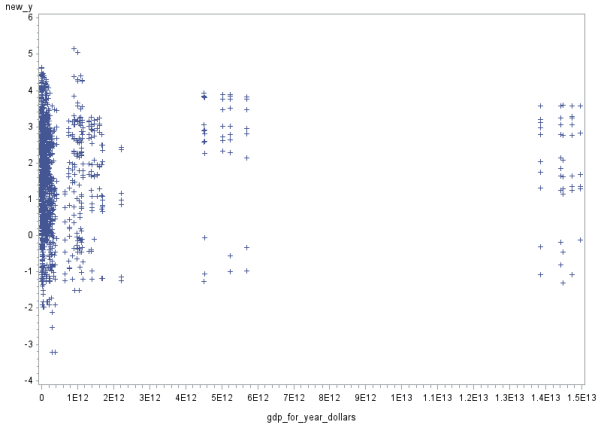

Residual by Regressors for new_y
Residual
population
gdp_for_year_dollars


new_y = 1.4862 -22E-9 population +62E-15 gdp_for_year_dollars +1.151 dsex -2.2277 dgeneration3
-2.2128 dgeneration4 +2.0511 dage1 +0.3157 dage5 -0.8303 dcontinent1 -0.3212 dcontinent2
N
1666
Rsq
0.5320
AdjRsq
0.5295
RMSE
0.9465
Studentized Residual
population

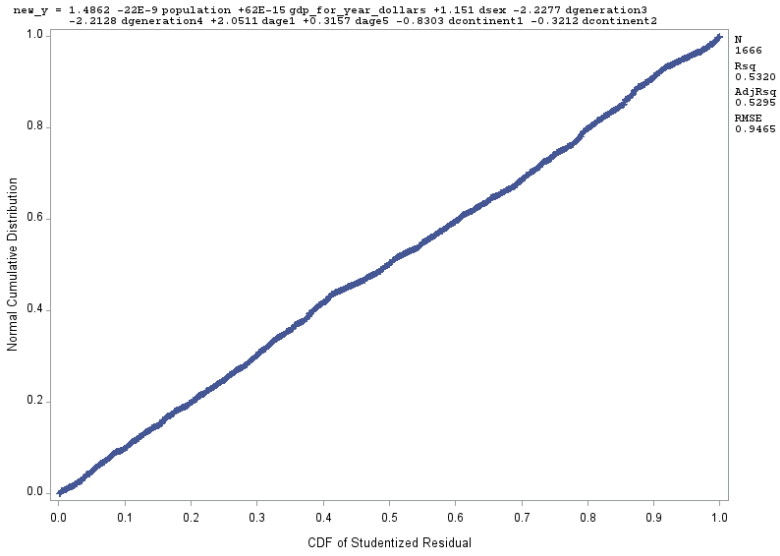

new_y = 1.4862 -22E-9 population +62E-15 gdp_for_year_dollars +1.151 dsex -2.2277 dgeneration3
-2.2128 dgeneration4 +2.0511 dage1 +0.3157 dage5 -0.8303 dcontinent1 -0.3212 dcontinent2
N
1666
Rsq
0.5320
AdjRsq
0.5295
RMSE
0.9465
Studentized Residual
gdp_for_year_dollars

Ram20

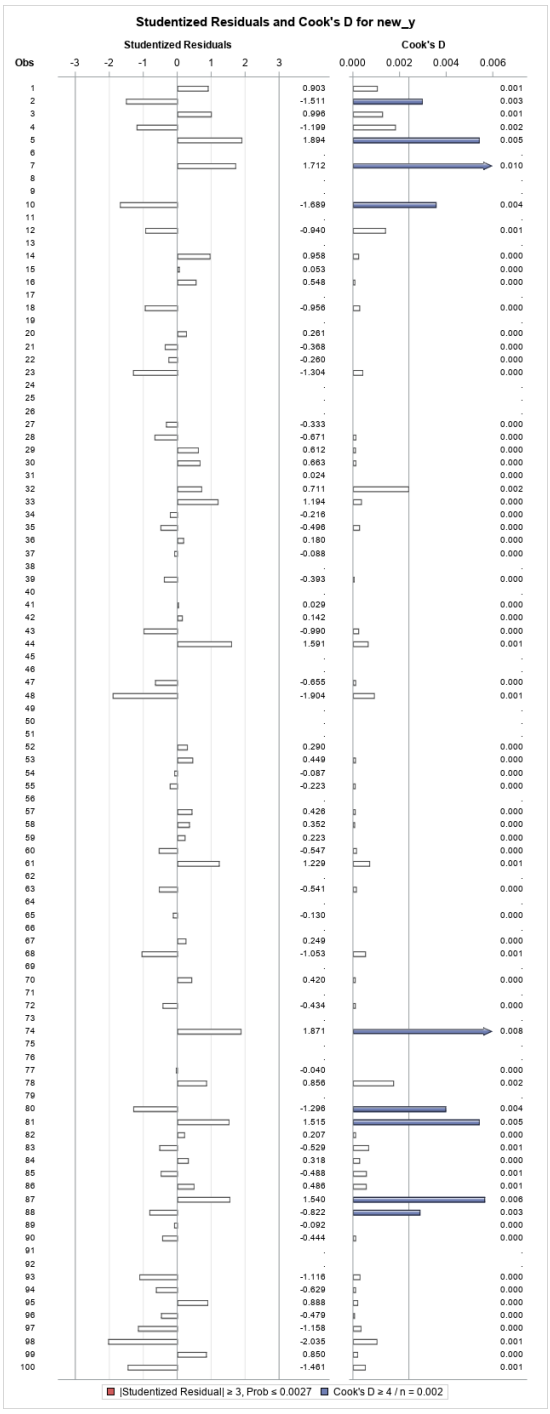

new_y
population

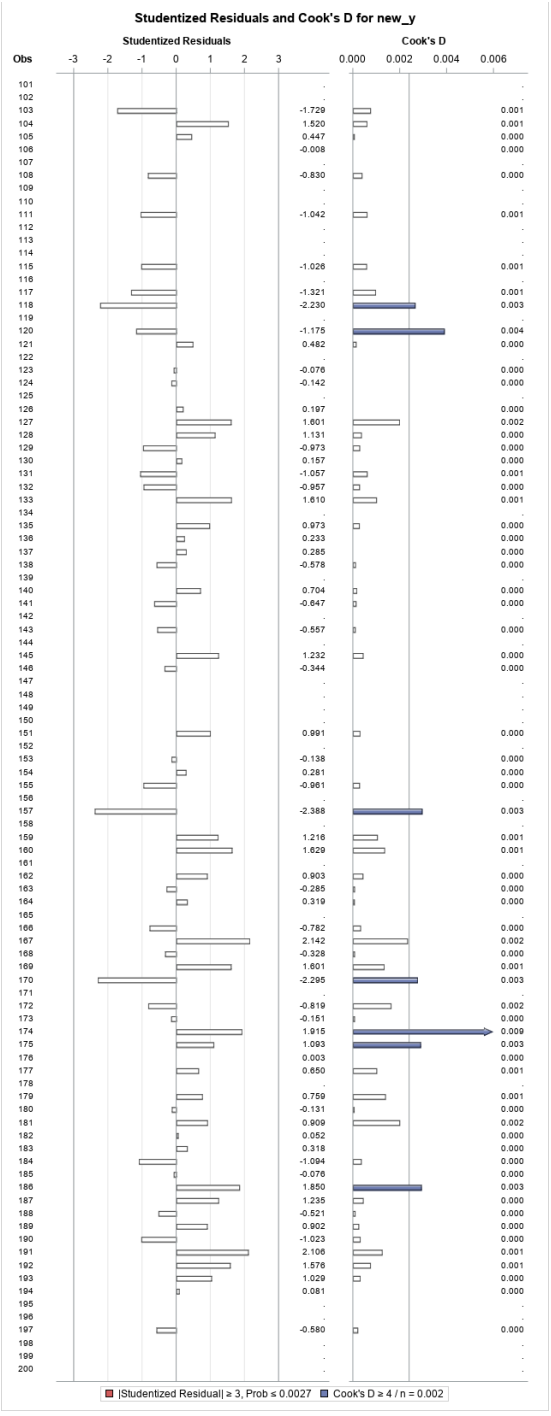

new_y
gdp_for_year_dollars

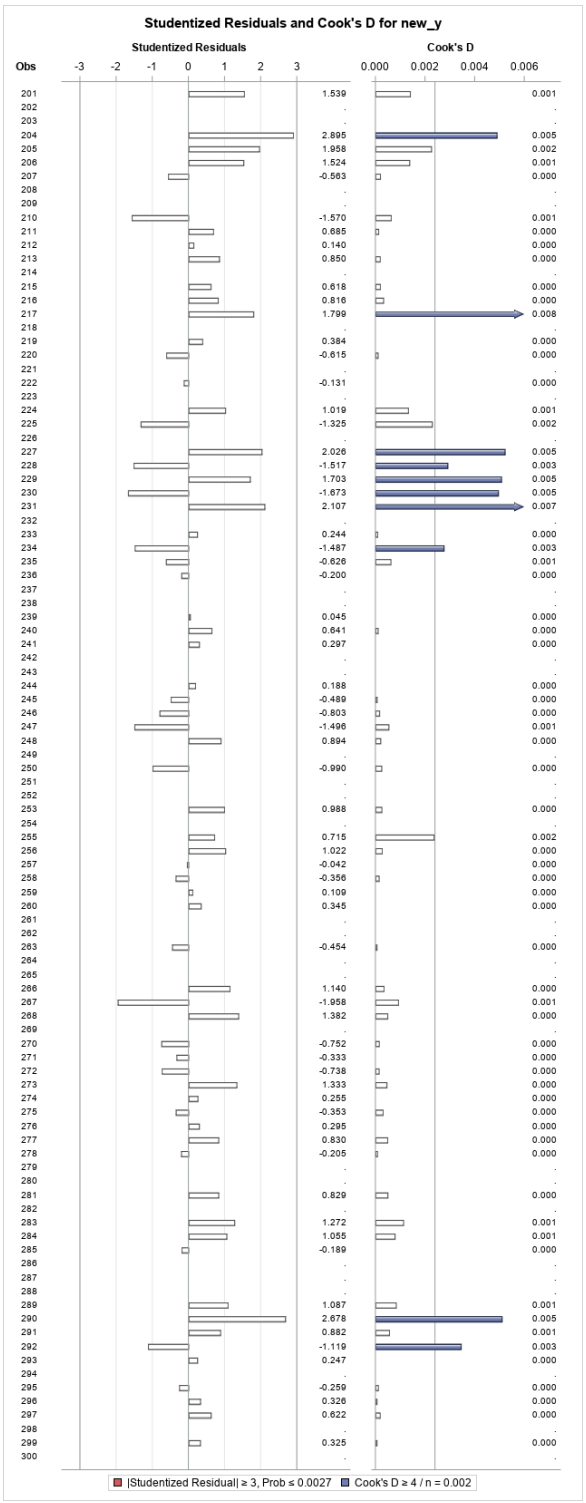
Ram21

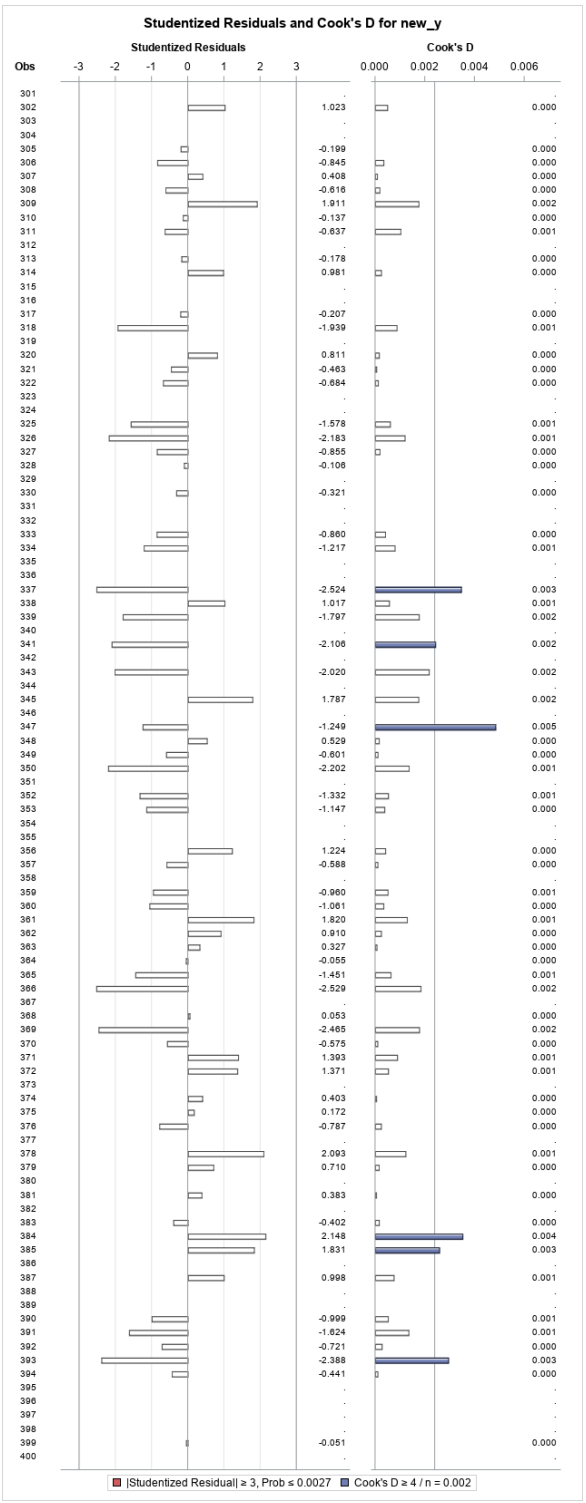

new_y = 1.4862 -22E-9 population +62E-15 gdp_for_year_dollars +1.151 dsex -2.2277 dgeneration3
-2.2128 dgeneration4 +2.0511 dage1 +0.3157 dage5 -0.8303 dcontinent1 -0.3212 dcontinent2
N
1666
Rsq
0.5320
AdjRsq
0.5295
RMSE
0.9465
Normal Cumulative Distribution
CDF of Studentized Residual

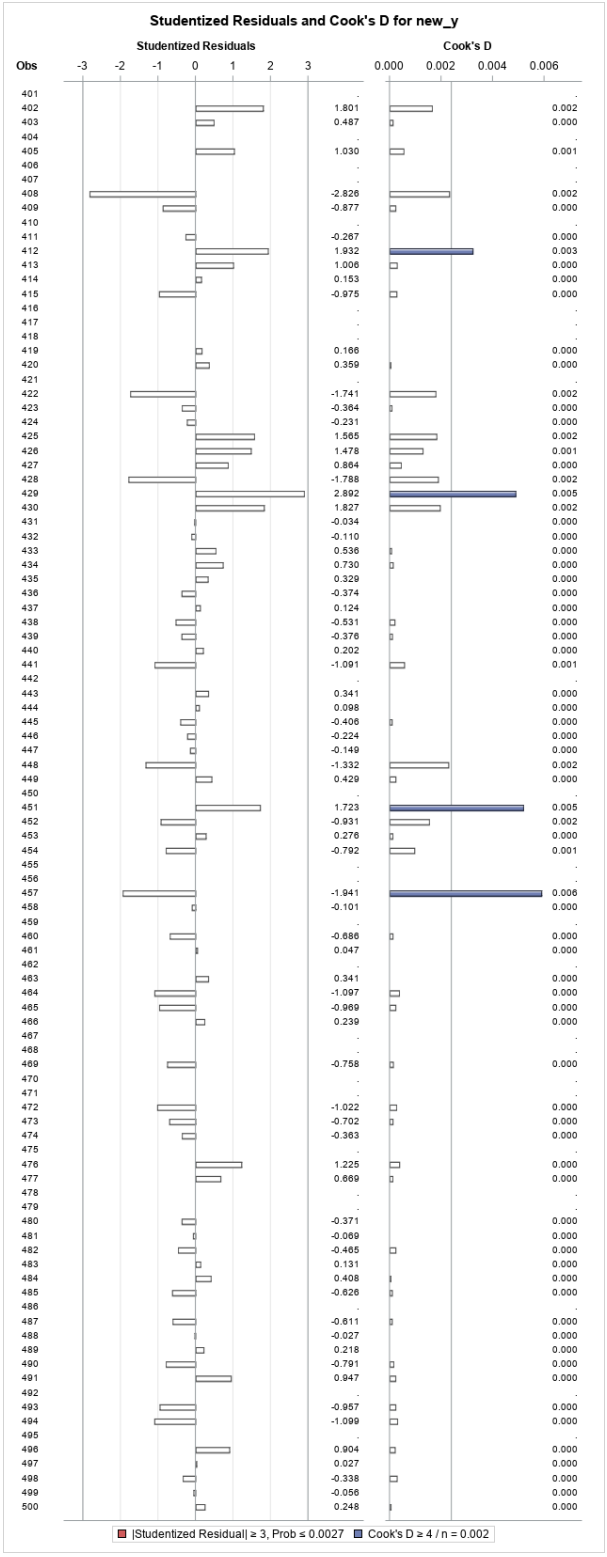
Ram22

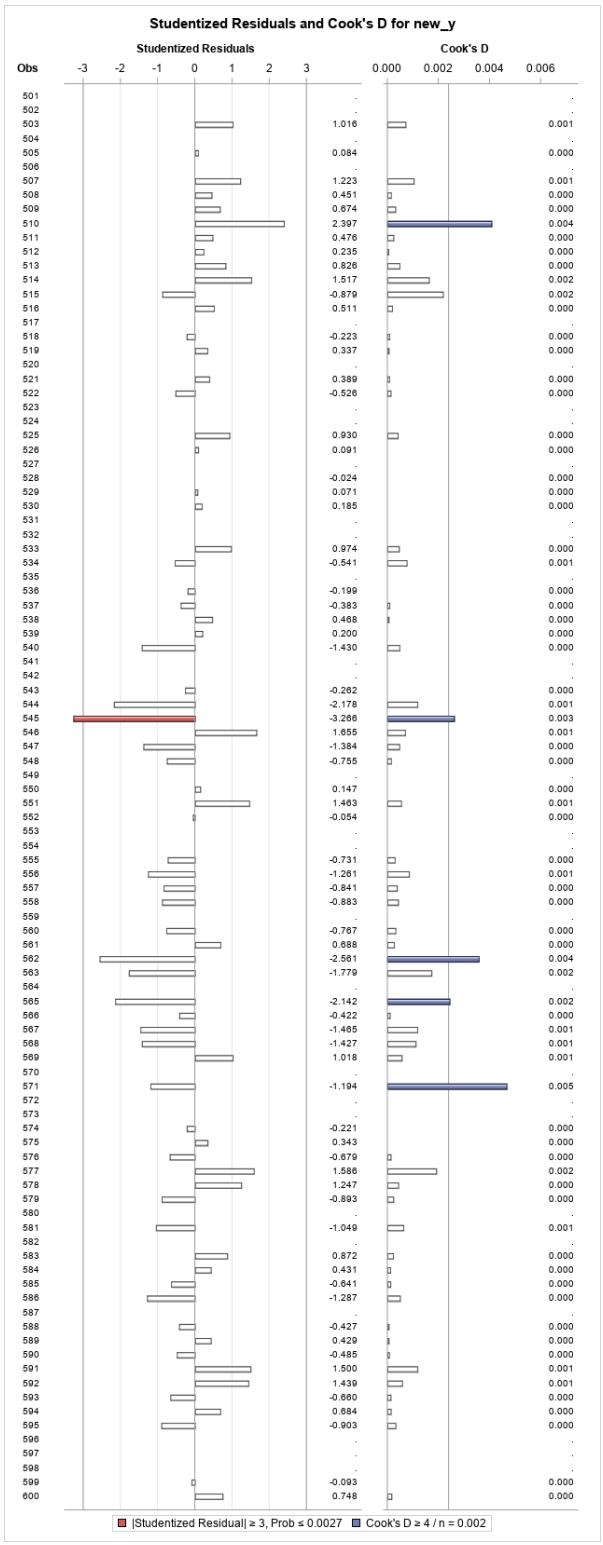

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1 0.903 0.001
2 -1.511 0.003
3 0.996 0.001
4 -1.199 0.002
5 1.894 0.005
6 .
7 1.712 0.010
8 .
9 .
10 -1.689 0.004
11 .
12 -0.940 0.001
13 .
14 0.958 0.000
15 0.053 0.000
16 0.548 0.000
17 .
18 -0.956 0.000
19 .
20 0.261 0.000
21 -0.368 0.000
22 -0.260 0.000
23 -1.304 0.000
24 .
25 .
26 .
27 -0.333 0.000
28 -0.671 0.000
29 0.612 0.000
30 0.663 0.000
31 0.024 0.000
32 0.711 0.002
33 1.194 0.000
34 -0.216 0.000
35 -0.496 0.000
36 0.180 0.000
37 -0.088 0.000
38 .
39 -0.393 0.000
40 .
41 0.029 0.000
42 0.142 0.000
43 -0.990 0.000
44 1.591 0.001
45 .
46 .
47 -0.655 0.000
48 -1.904 0.001
49 .
50 .
51 .
52 0.290 0.000
53 0.449 0.000
54 -0.087 0.000
55 -0.223 0.000
56 .
57 0.426 0.000
58 0.352 0.000
59 0.223 0.000
60 -0.547 0.000
61 1.229 0.001
62 .
63 -0.541 0.000
64 .
65 -0.130 0.000
66 .
67 0.249 0.000
68 -1.053 0.001
69 .
70 0.420 0.000
71 .
72 -0.434 0.000
73 .
74 1.871 0.008
75 .
76 .
77 -0.040 0.000
78 0.856 0.002
79 .
80 -1.296 0.004
81 1.515 0.005
82 0.207 0.000
83 -0.529 0.001
84 0.318 0.000
85 -0.488 0.001
86 0.486 0.001
87 1.540 0.006
88 -0.822 0.003
89 -0.092 0.000
90 -0.444 0.000
91 .
92 .
93 -1.116 0.000
94 -0.629 0.000
95 0.888 0.000
96 -0.479 0.000
97 -1.158 0.000
98 -2.035 0.001
99 0.850 0.000
100 -1.461 0.001
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

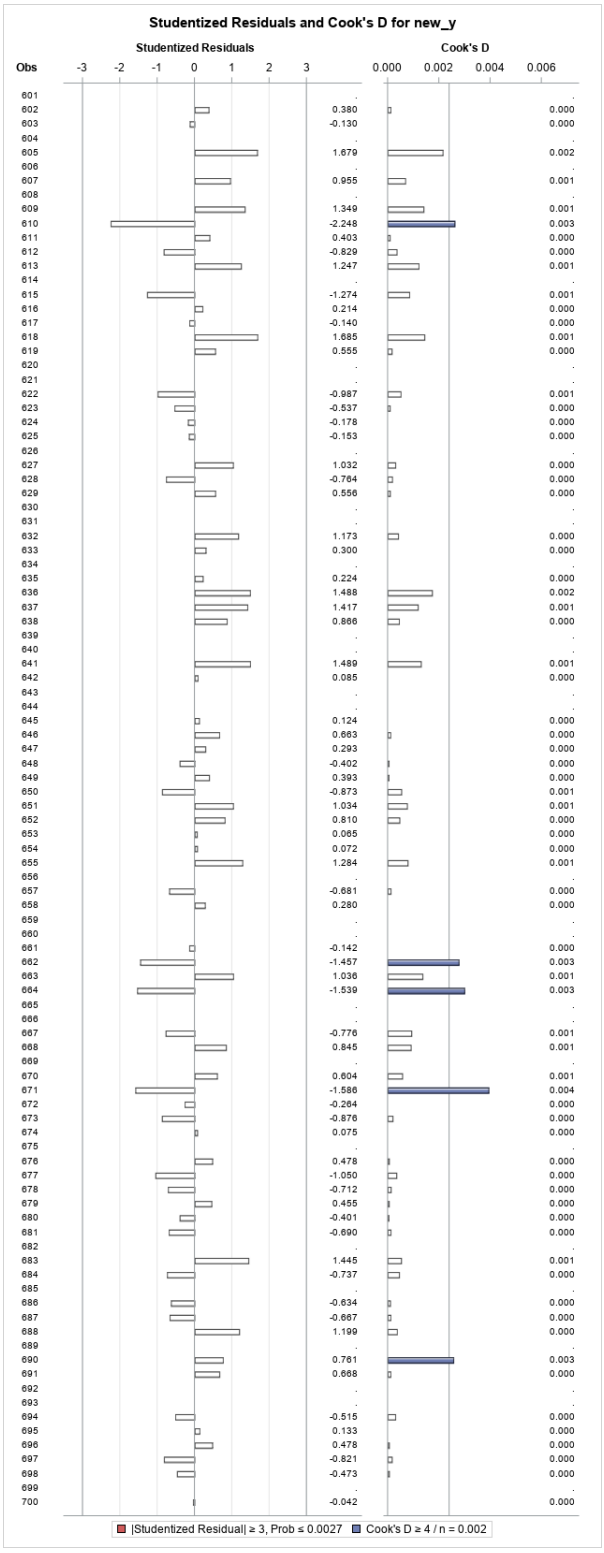

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
101 .
102 .
103 -1.729 0.001
104 1.520 0.001
105 0.447 0.000
106 -0.008 0.000
107 .
108 -0.830 0.000
109 .
110 .
111 -1.042 0.001
112 .
113 .
114 .
115 -1.026 0.001
116 .
117 -1.321 0.001
118 -2.230 0.003
119 .
120 -1.175 0.004
121 0.482 0.000
122 .
123 -0.076 0.000
124 -0.142 0.000
125 .
126 0.197 0.000
127 1.601 0.002
128 1.131 0.000
129 -0.973 0.000
130 0.157 0.000
131 -1.057 0.001
132 -0.957 0.000
133 1.610 0.001
134 .
135 0.973 0.000
136 0.233 0.000
137 0.285 0.000
138 -0.578 0.000
139 .
140 0.704 0.000
141 -0.647 0.000
142 .
143 -0.557 0.000
144 .
145 1.232 0.000
146 -0.344 0.000
147 .
148 .
149 .
150 .
151 0.991 0.000
152 .
153 -0.138 0.000
154 0.281 0.000
155 -0.961 0.000
156 .
157 -2.388 0.003
158 .
159 1.216 0.001
160 1.629 0.001
161 .
162 0.903 0.000
163 -0.285 0.000
164 0.319 0.000
165 .
166 -0.782 0.000
167 2.142 0.002
168 -0.328 0.000
169 1.601 0.001
170 -2.295 0.003
171 .
172 -0.819 0.002
173 -0.151 0.000
174 1.915 0.009
175 1.093 0.003
176 0.003 0.000
177 0.650 0.001
178 .
179 0.759 0.001
180 -0.131 0.000
181 0.909 0.002
182 0.052 0.000
183 0.318 0.000
184 -1.094 0.000
185 -0.076 0.000
186 1.850 0.003
187 1.235 0.000
188 -0.521 0.000
189 0.902 0.000
190 -1.023 0.000
191 2.106 0.001
192 1.576 0.001
193 1.029 0.000
194 0.081 0.000
195 .
196 .
197 -0.580 0.000
198 .
199 .
200 .
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

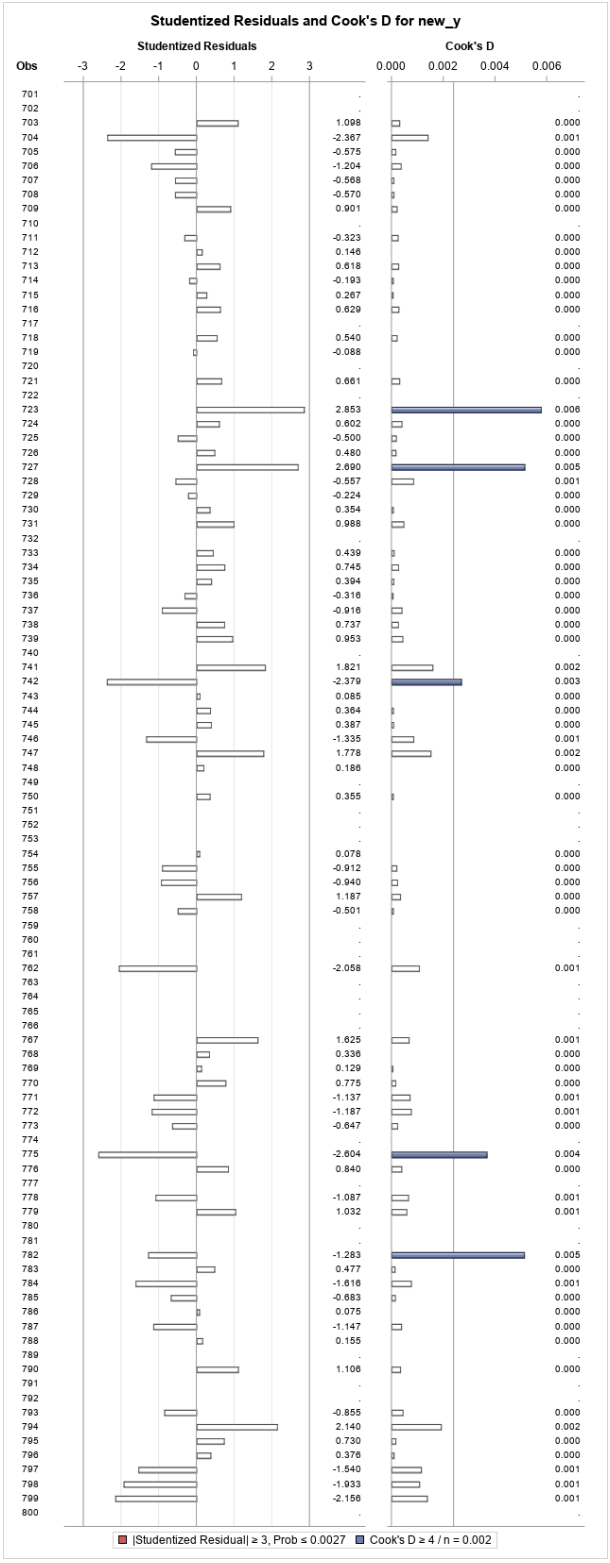

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
201 1.539 0.001
202 . .
203 . .
204 2.895 0.005
205 1.958 0.002
206 1.524 0.001
207 -0.563 0.000
208 . .
209 . .
210 -1.570 0.001
211 0.685 0.000
212 0.140 0.000
213 0.850 0.000
214 . .
215 0.618 0.000
216 0.816 0.000
217 1.799 0.008
218 . .
219 0.384 0.000
220 -0.615 0.000
221 . .
222 -0.131 0.000
223 . .
224 1.019 0.001
225 -1.325 0.002
226 . .
227 2.026 0.005
228 -1.517 0.003
229 1.703 0.005
230 -1.673 0.005
231 2.107 0.007
232 . .
233 0.244 0.000
234 -1.487 0.003
235 -0.626 0.001
236 -0.200 0.000
237 . .
238 . .
239 0.045 0.000
240 0.641 0.000
241 0.297 0.000
242 . .
243 . .
244 0.188 0.000
245 -0.489 0.000
246 -0.803 0.000
247 -1.496 0.001
248 0.894 0.000
249 . .
250 -0.990 0.000
251 . .
252 . .
253 0.988 0.000
254 . .
255 0.715 0.002
256 1.022 0.000
257 -0.042 0.000
258 -0.356 0.000
259 0.109 0.000
260 0.345 0.000
261 . .
262 . .
263 -0.454 0.000
264 . .
265 . .
266 1.140 0.000
267 -1.958 0.001
268 1.382 0.000
269 . .
270 -0.752 0.000
271 -0.333 0.000
272 -0.738 0.000
273 1.333 0.000
274 0.255 0.000
275 -0.353 0.000
276 0.295 0.000
277 0.830 0.000
278 -0.205 0.000
279 . .
280 . .
281 0.829 0.000
282 . .
283 1.272 0.001
284 1.055 0.001
285 -0.189 0.000
286 . .
287 . .
288 . .
289 1.087 0.001
290 2.678 0.005
291 0.882 0.001
292 -1.119 0.003
293 0.247 0.000
294 . .
295 -0.259 0.000
296 0.326 0.000
297 0.622 0.000
298 . .
299 0.325 0.000
300 . .
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

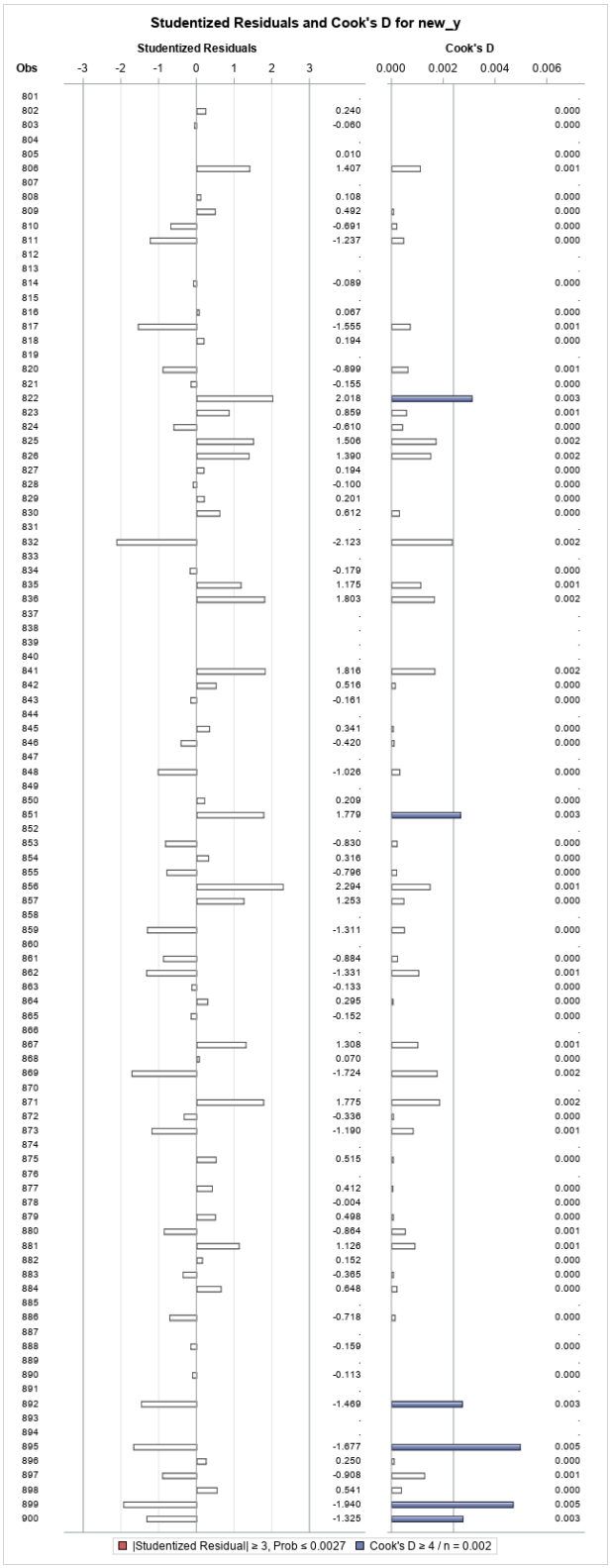

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
301 . .
302 1.023 0.000
303 . .
304 . .
305 -0.199 0.000
306 -0.845 0.000
307 0.408 0.000
308 -0.616 0.000
309 1.911 0.002
310 -0.137 0.000
311 -0.637 0.001
312 . .
313 -0.178 0.000
314 0.981 0.000
315 . .
316 . .
317 -0.207 0.000
318 -1.939 0.001
319 . .
320 0.811 0.000
321 -0.463 0.000
322 -0.684 0.000
323 . .
324 . .
325 -1.578 0.001
326 -2.183 0.001
327 -0.855 0.000
328 -0.106 0.000
329 . .
330 -0.321 0.000
331 . .
332 . .
333 -0.860 0.000
334 -1.217 0.001
335 . .
336 . .
337 -2.524 0.003
338 1.017 0.001
339 -1.797 0.002
340 . .
341 -2.106 0.002
342 . .
343 -2.020 0.002
344 . .
345 1.787 0.002
346 . .
347 -1.249 0.005
348 0.529 0.000
349 -0.601 0.000
350 -2.202 0.001
351 . .
352 -1.332 0.001
353 -1.147 0.000
354 . .
355 . .
356 1.224 0.000
357 -0.588 0.000
358 . .
359 -0.960 0.001
360 -1.061 0.000
361 1.820 0.001
362 0.910 0.000
363 0.327 0.000
364 -0.055 0.000
365 -1.451 0.001
366 -2.529 0.002
367 . .
368 0.053 0.000
369 -2.465 0.002
370 -0.575 0.000
371 1.393 0.001
372 1.371 0.001
373 . .
374 0.403 0.000
375 0.172 0.000
376 -0.787 0.000
377 . .
378 2.093 0.001
379 0.710 0.000
380 . .
381 0.383 0.000
382 . .
383 -0.402 0.000
384 2.148 0.004
385 1.831 0.003
386 . .
387 0.998 0.001
388 . .
389 . .
390 -0.999 0.001
391 -1.624 0.001
392 -0.721 0.000
393 -2.388 0.003
394 -0.441 0.000
395 . .
396 . .
397 . .
398 . .
399 -0.051 0.000
400 . .
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

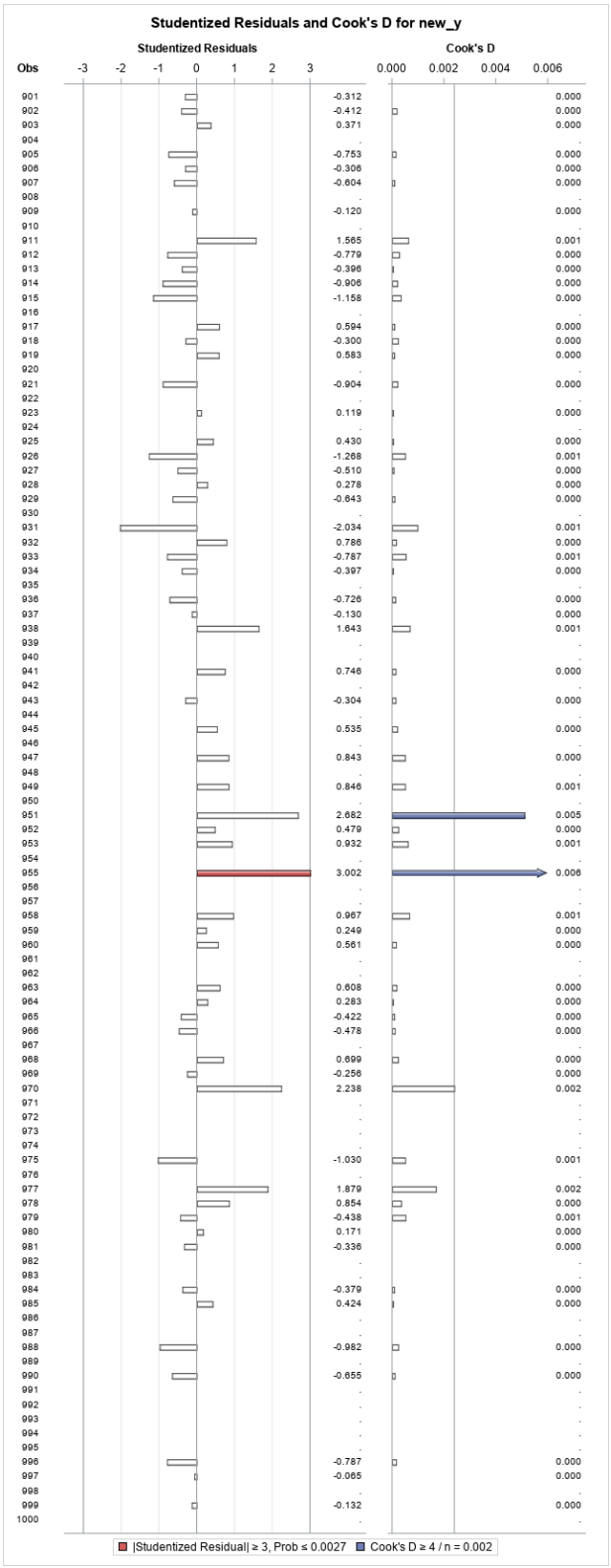

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
401 . .
402 1.801 0.002
403 0.487 0.000
404 . .
405 1.030 0.001
406 . .
407 . .
408 -2.826 0.002
409 -0.877 0.000
410 . .
411 -0.267 0.000
412 1.932 0.003
413 1.006 0.000
414 0.153 0.000
415 -0.975 0.000
416 . .
417 . .
418 . .
419 0.166 0.000
420 0.359 0.000
421 . .
422 -1.741 0.002
423 -0.364 0.000
424 -0.231 0.000
425 1.565 0.002
426 1.478 0.001
427 0.864 0.000
428 -1.788 0.002
429 2.892 0.005
430 1.827 0.002
431 -0.034 0.000
432 -0.110 0.000
433 0.536 0.000
434 0.730 0.000
435 0.329 0.000
436 -0.374 0.000
437 0.124 0.000
438 -0.531 0.000
439 -0.376 0.000
440 0.202 0.000
441 -1.091 0.001
442 . .
443 0.341 0.000
444 0.098 0.000
445 -0.406 0.000
446 -0.224 0.000
447 -0.149 0.000
448 -1.332 0.002
449 0.429 0.000
450 . .
451 1.723 0.005
452 -0.931 0.002
453 0.276 0.000
454 -0.792 0.001
455 . .
456 . .
457 -1.941 0.006
458 -0.101 0.000
459 . .
460 -0.686 0.000
461 0.047 0.000
462 . .
463 0.341 0.000
464 -1.097 0.000
465 -0.969 0.000
466 0.239 0.000
467 . .
468 . .
469 -0.758 0.000
470 . .
471 . .
472 -1.022 0.000
473 -0.702 0.000
474 -0.363 0.000
475 . .
476 1.225 0.000
477 0.669 0.000
478 . .
479 . .
480 -0.371 0.000
481 -0.069 0.000
482 -0.465 0.000
483 0.131 0.000
484 0.408 0.000
485 -0.626 0.000
486 . .
487 -0.611 0.000
488 -0.027 0.000
489 0.218 0.000
490 -0.791 0.000
491 0.947 0.000
492 . .
493 -0.957 0.000
494 -1.099 0.000
495 . .
496 0.904 0.000
497 0.027 0.000
498 -0.338 0.000
499 -0.056 0.000
500 0.248 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

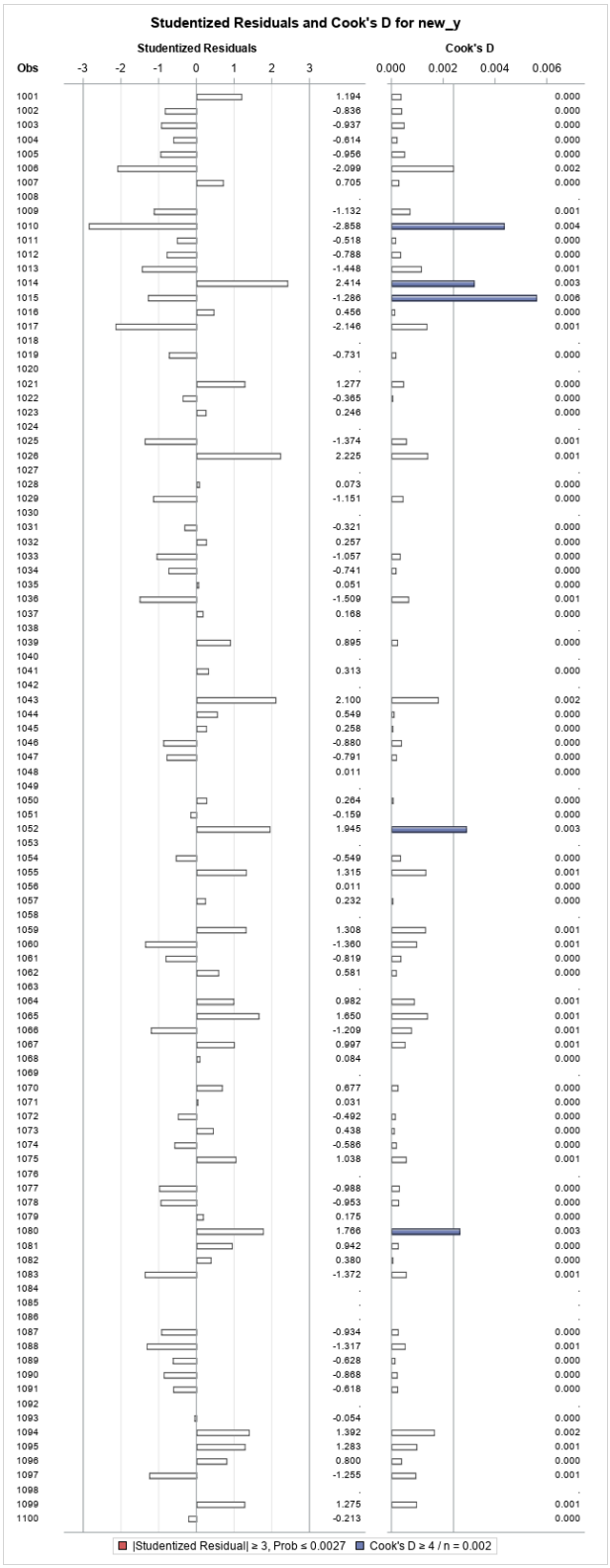

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
501 . .
502 . .
503 1.016 0.001
504 . .
505 0.084 0.000
506 . .
507 1.223 0.001
508 0.451 0.000
509 0.674 0.000
510 2.397 0.004
511 0.476 0.000
512 0.235 0.000
513 0.826 0.000
514 1.517 0.002
515 -0.879 0.002
516 0.511 0.000
517 . .
518 -0.223 0.000
519 0.337 0.000
520 . .
521 0.389 0.000
522 -0.526 0.000
523 . .
524 . .
525 0.930 0.000
526 0.091 0.000
527 . .
528 -0.024 0.000
529 0.071 0.000
530 0.185 0.000
531 . .
532 . .
533 0.974 0.000
534 -0.541 0.001
535 . .
536 -0.199 0.000
537 -0.383 0.000
538 0.468 0.000
539 0.200 0.000
540 -1.430 0.000
541 . .
542 . .
543 -0.262 0.000
544 -2.178 0.001
545 -3.266 0.003
546 1.655 0.001
547 -1.384 0.000
548 -0.755 0.000
549 . .
550 0.147 0.000
551 1.463 0.001
552 -0.054 0.000
553 . .
554 . .
555 -0.731 0.000
556 -1.261 0.001
557 -0.841 0.000
558 -0.883 0.000
559 . .
560 -0.767 0.000
561 0.688 0.000
562 -2.561 0.004
563 -1.779 0.002
564 . .
565 -2.142 0.002
566 -0.422 0.000
567 -1.485 0.001
568 -1.427 0.001
569 1.018 0.001
570 . .
571 -1.194 0.005
572 . .
573 . .
574 -0.221 0.000
575 0.343 0.000
576 -0.679 0.000
577 1.586 0.002
578 1.247 0.000
579 -0.893 0.000
580 . .
581 -1.049 0.001
582 . .
583 0.872 0.000
584 0.431 0.000
585 -0.641 0.000
586 -1.287 0.000
587 . .
588 -0.427 0.000
589 0.429 0.000
590 -0.485 0.000
591 1.500 0.001
592 1.439 0.001
593 -0.660 0.000
594 0.684 0.000
595 -0.903 0.000
596 . .
597 . .
598 . .
599 -0.093 0.000
600 0.748 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

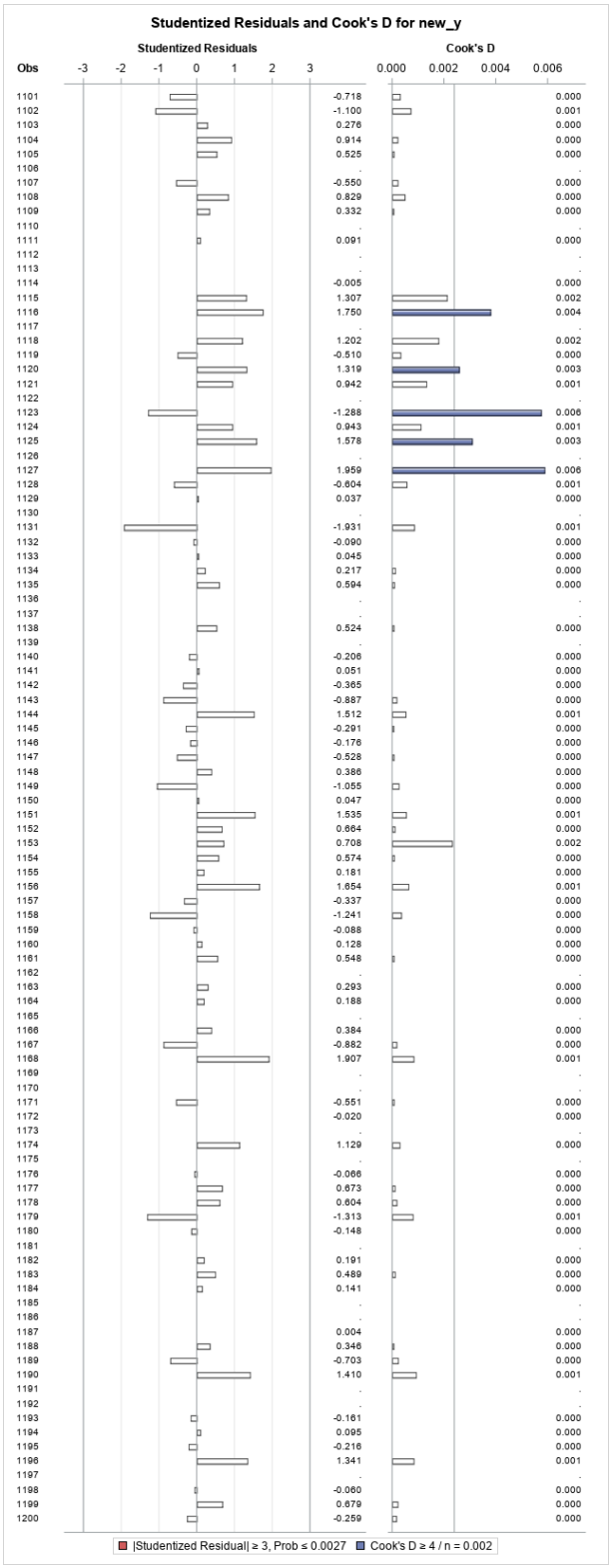

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
601 .
602 0.380 0.000
603 -0.130 0.000
604 . .
605 1.679 0.002
606 . .
607 0.955 0.001
608 . .
609 1.349 0.001
610 -2.248 0.003
611 0.403 0.000
612 -0.829 0.000
613 1.247 0.001
614 . .
615 -1.274 0.001
616 0.214 0.000
617 -0.140 0.000
618 1.685 0.001
619 0.555 0.000
620 . .
621 . .
622 -0.987 0.001
623 -0.537 0.000
624 -0.178 0.000
625 -0.153 0.000
626 . .
627 1.032 0.000
628 -0.764 0.000
629 0.556 0.000
630 . .
631 . .
632 1.173 0.000
633 0.300 0.000
634 . .
635 0.224 0.000
636 1.488 0.002
637 1.417 0.001
638 0.866 0.000
639 . .
640 . .
641 1.489 0.001
642 0.085 0.000
643 . .
644 . .
645 0.124 0.000
646 0.663 0.000
647 0.293 0.000
648 -0.402 0.000
649 0.393 0.000
650 -0.873 0.001
651 1.034 0.001
652 0.810 0.000
653 0.065 0.000
654 0.072 0.000
655 1.284 0.001
656 . .
657 -0.681 0.000
658 0.280 0.000
659 . .
660 . .
661 -0.142 0.000
662 -1.457 0.003
663 1.036 0.001
664 -1.539 0.003
665 . .
666 . .
667 -0.776 0.001
668 0.845 0.001
669 . .
670 0.604 0.001
671 -1.586 0.004
672 -0.264 0.000
673 -0.876 0.000
674 0.075 0.000
675 . .
676 0.478 0.000
677 -1.050 0.000
678 -0.712 0.000
679 0.455 0.000
680 -0.401 0.000
681 -0.690 0.000
682 . .
683 1.445 0.001
684 -0.737 0.000
685 . .
686 -0.634 0.000
687 -0.667 0.000
688 1.199 0.000
689 . .
690 0.761 0.003
691 0.668 0.000
692 . .
693 . .
694 -0.515 0.000
695 0.133 0.000
696 0.478 0.000
697 -0.821 0.000
698 -0.473 0.000
699 . .
700 -0.042 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

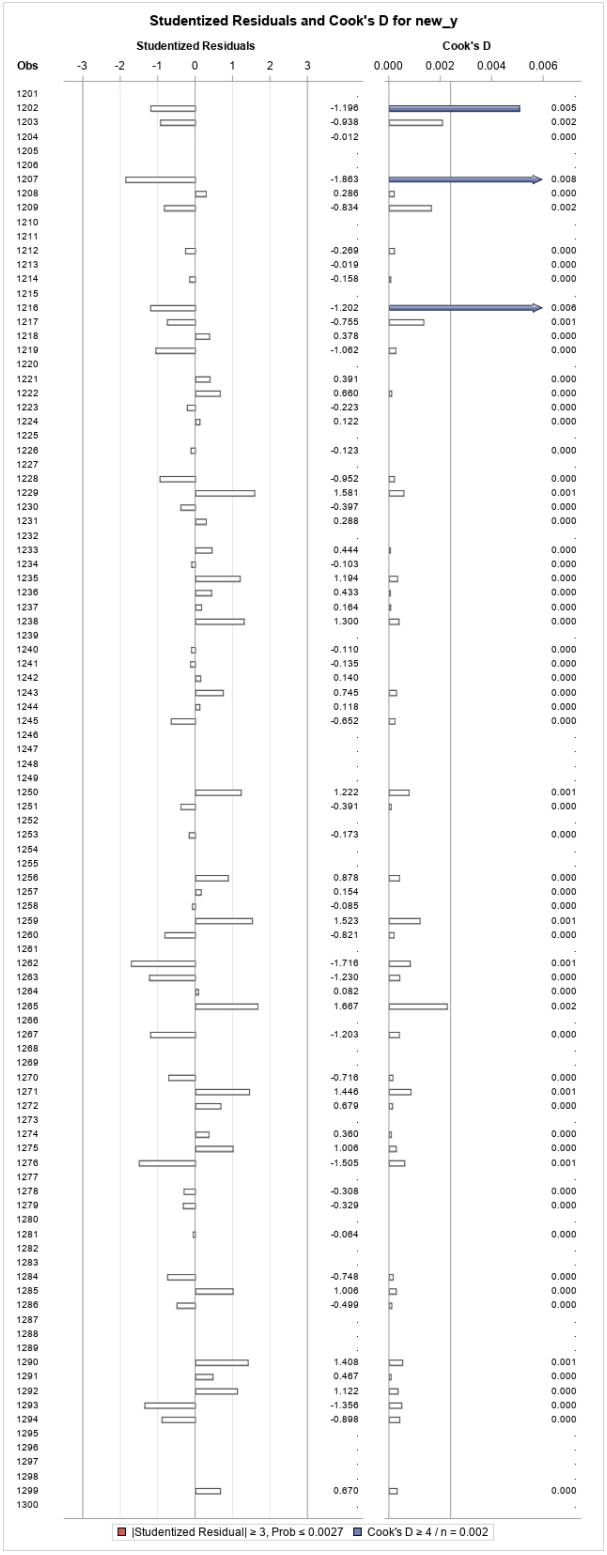

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
701 . .
702 . .
703 1.098 0.000
704 -2.367 0.001
705 -0.575 0.000
706 -1.204 0.000
707 -0.568 0.000
708 -0.570 0.000
709 0.901 0.000
710 . .
711 -0.323 0.000
712 0.146 0.000
713 0.618 0.000
714 -0.193 0.000
715 0.267 0.000
716 0.629 0.000
717 . .
718 0.540 0.000
719 -0.088 0.000
720 . .
721 0.661 0.000
722 . .
723 2.853 0.006
724 0.602 0.000
725 -0.500 0.000
726 0.480 0.000
727 2.690 0.005
728 -0.557 0.001
729 -0.224 0.000
730 0.354 0.000
731 0.988 0.000
732 . .
733 0.439 0.000
734 0.745 0.000
735 0.394 0.000
736 -0.316 0.000
737 -0.916 0.000
738 0.737 0.000
739 0.953 0.000
740 . .
741 1.821 0.002
742 -2.379 0.003
743 0.085 0.000
744 0.364 0.000
745 0.387 0.000
746 -1.335 0.001
747 1.778 0.002
748 0.186 0.000
749 . .
750 0.355 0.000
751 . .
752 . .
753 . .
754 0.078 0.000
755 -0.912 0.000
756 -0.940 0.000
757 1.187 0.000
758 -0.501 0.000
759 . .
760 . .
761 . .
762 -2.058 0.001
763 . .
764 . .
765 . .
766 . .
767 1.625 0.001
768 0.336 0.000
769 0.129 0.000
770 0.775 0.000
771 -1.137 0.001
772 -1.187 0.001
773 -0.647 0.000
774 . .
775 -2.604 0.004
776 0.840 0.000
777 . .
778 -1.087 0.001
779 1.032 0.001
780 . .
781 . .
782 -1.283 0.005
783 0.477 0.000
784 -1.616 0.001
785 -0.683 0.000
786 0.075 0.000
787 -1.147 0.000
788 0.155 0.000
789 . .
790 1.106 0.000
791 . .
792 . .
793 -0.855 0.000
794 2.140 0.002
795 0.730 0.000
796 0.376 0.000
797 -1.540 0.001
798 -1.933 0.001
799 -2.156 0.001
800 . .
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

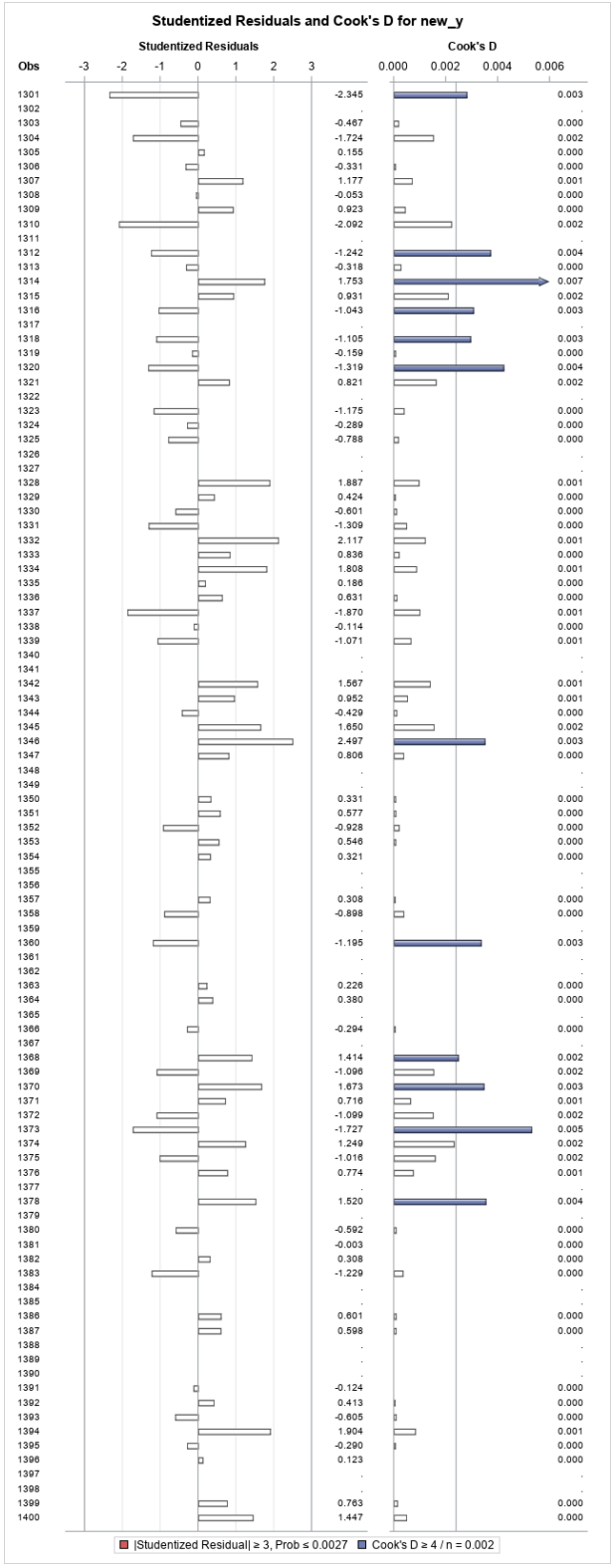

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
801 . .
802 0.240 0.000
803 -0.060 0.000
804 . .
805 0.010 0.000
806 1.407 0.001
807 . .
808 0.108 0.000
809 0.492 0.000
810 -0.691 0.000
811 -1.237 0.000
812 . .
813 . .
814 -0.089 0.000
815 . .
816 0.067 0.000
817 -1.555 0.001
818 0.194 0.000
819 . .
820 -0.899 0.001
821 -0.155 0.000
822 2.018 0.003
823 0.859 0.001
824 -0.610 0.000
825 1.506 0.002
826 1.390 0.002
827 0.194 0.000
828 -0.100 0.000
829 0.201 0.000
830 0.612 0.000
831 . .
832 -2.123 0.002
833 . .
834 -0.179 0.000
835 1.175 0.001
836 1.803 0.002
837 . .
838 . .
839 . .
840 . .
841 1.816 0.002
842 0.516 0.000
843 -0.161 0.000
844 . .
845 0.341 0.000
846 -0.420 0.000
847 . .
848 -1.026 0.000
849 . .
850 0.209 0.000
851 1.779 0.003
852 . .
853 -0.830 0.000
854 0.316 0.000
855 -0.796 0.000
856 2.294 0.001
857 1.253 0.000
858 . .
859 -1.311 0.000
860 . .
861 -0.884 0.000
862 -1.331 0.001
863 -0.133 0.000
864 0.295 0.000
865 -0.152 0.000
866 . .
867 1.308 0.001
868 0.070 0.000
869 -1.724 0.002
870 . .
871 1.775 0.002
872 -0.336 0.000
873 -1.190 0.001
874 . .
875 0.515 0.000
876 . .
877 0.412 0.000
878 -0.004 0.000
879 0.498 0.000
880 -0.864 0.001
881 1.126 0.001
882 0.152 0.000
883 -0.365 0.000
884 0.648 0.000
885 . .
886 -0.718 0.000
887 . .
888 -0.159 0.000
889 . .
890 -0.113 0.000
891 . .
892 -1.469 0.003
893 . .
894 . .
895 -1.677 0.005
896 0.250 0.000
897 -0.908 0.001
898 0.541 0.000
899 -1.940 0.005
900 -1.325 0.003
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

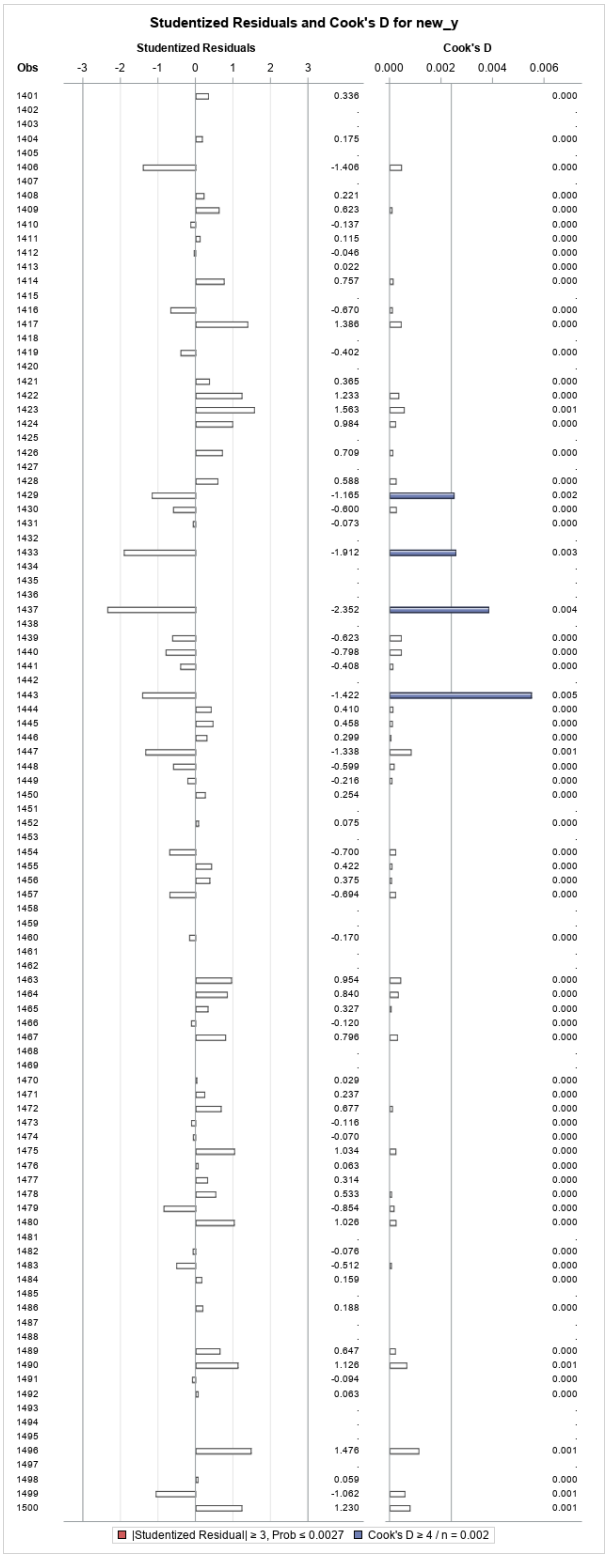

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
901 -0.312 0.000
902 -0.412 0.000
903 0.371 0.000
904 . .
905 -0.753 0.000
906 -0.306 0.000
907 -0.604 0.000
908 . .
909 -0.120 0.000
910 . .
911 1.565 0.001
912 -0.779 0.000
913 -0.396 0.000
914 -0.906 0.000
915 -1.158 0.000
916 . .
917 0.594 0.000
918 -0.300 0.000
919 0.583 0.000
920 . .
921 -0.904 0.000
922 . .
923 0.119 0.000
924 . .
925 0.430 0.000
926 -1.268 0.001
927 -0.510 0.000
928 0.278 0.000
929 -0.643 0.000
930 . .
931 -2.034 0.001
932 0.786 0.000
933 -0.787 0.001
934 -0.397 0.000
935 . .
936 -0.726 0.000
937 -0.130 0.000
938 1.643 0.001
939 . .
940 . .
941 0.746 0.000
942 . .
943 -0.304 0.000
944 . .
945 0.535 0.000
946 . .
947 0.843 0.000
948 . .
949 0.846 0.001
950 . .
951 2.682 0.005
952 0.479 0.000
953 0.932 0.001
954 . .
955 3.002 0.006
956 . .
957 . .
958 0.967 0.001
959 0.249 0.000
960 0.561 0.000
961 . .
962 . .
963 0.608 0.000
964 0.283 0.000
965 -0.422 0.000
966 -0.478 0.000
967 . .
968 0.699 0.000
969 -0.256 0.000
970 2.238 0.002
971 . .
972 . .
973 . .
974 . .
975 -1.030 0.001
976 . .
977 1.879 0.002
978 0.854 0.000
979 -0.438 0.001
980 0.171 0.000
981 -0.336 0.000
982 . .
983 . .
984 -0.379 0.000
985 0.424 0.000
986 . .
987 . .
988 -0.982 0.000
989 . .
990 -0.655 0.000
991 . .
992 . .
993 . .
994 . .
995 . .
996 -0.787 0.000
997 -0.065 0.000
998 . .
999 -0.132 0.000
1000 . .
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

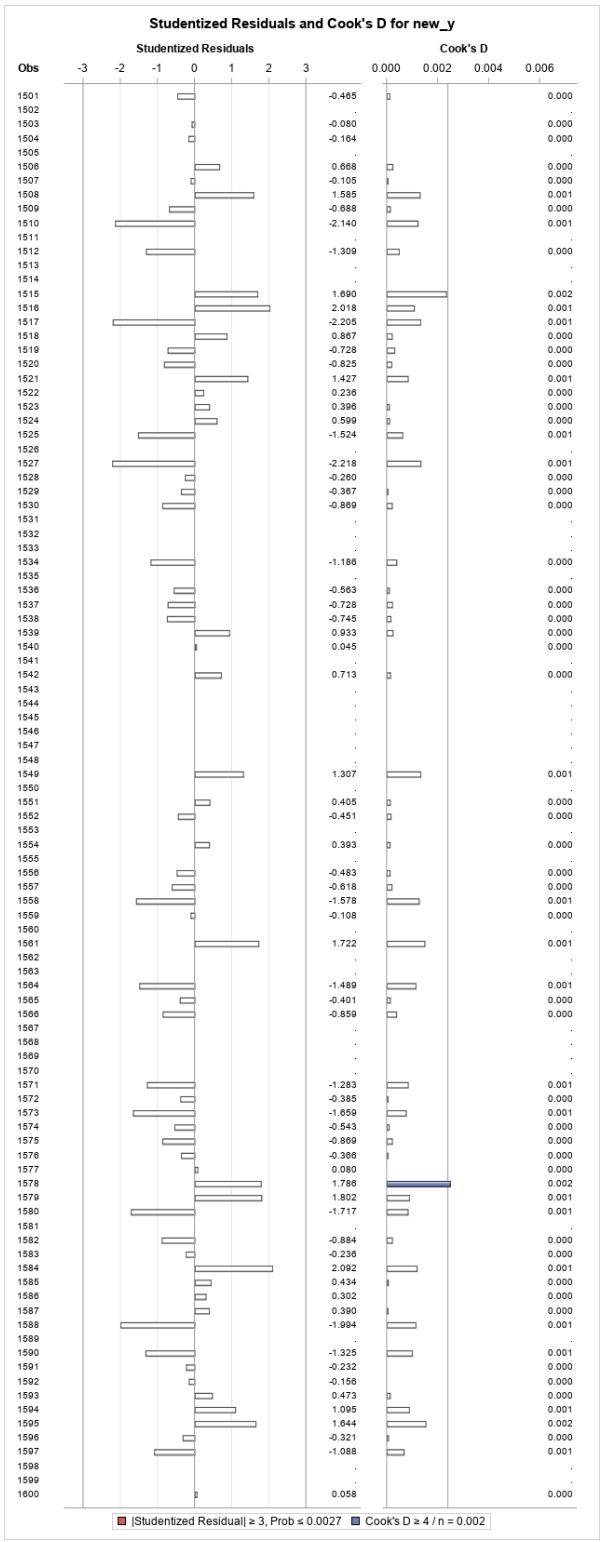

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1001 1.194 0.000
1002 -0.836 0.000
1003 -0.937 0.000
1004 -0.614 0.000
1005 -0.956 0.000
1006 -2.099 0.002
1007 0.705 0.000
1008 . .
1009 -1.132 0.001
1010 -2.858 0.004
1011 -0.518 0.000
1012 -0.788 0.000
1013 -1.448 0.001
1014 2.414 0.003
1015 -1.286 0.006
1016 0.456 0.000
1017 -2.146 0.001
1018 . .
1019 -0.731 0.000
1020 . .
1021 1.277 0.000
1022 -0.365 0.000
1023 0.246 0.000
1024 . .
1025 -1.374 0.001
1026 2.225 0.001
1027 . .
1028 0.073 0.000
1029 -1.151 0.000
1030 . .
1031 -0.321 0.000
1032 0.257 0.000
1033 -1.057 0.000
1034 -0.741 0.000
1035 0.051 0.000
1036 -1.509 0.001
1037 0.168 0.000
1038 . .
1039 0.895 0.000
1040 . .
1041 0.313 0.000
1042 . .
1043 2.100 0.002
1044 0.549 0.000
1045 0.258 0.000
1046 -0.880 0.000
1047 -0.791 0.000
1048 0.011 0.000
1049 . .
1050 0.264 0.000
1051 -0.159 0.000
1052 1.945 0.003
1053 . .
1054 -0.549 0.000
1055 1.315 0.001
1056 0.011 0.000
1057 0.232 0.000
1058 . .
1059 1.308 0.001
1060 -1.360 0.001
1061 -0.819 0.000
1062 0.581 0.000
1063 . .
1064 0.982 0.001
1065 1.650 0.001
1066 -1.209 0.001
1067 0.997 0.001
1068 0.084 0.000
1069 . .
1070 0.677 0.000
1071 0.031 0.000
1072 -0.492 0.000
1073 0.438 0.000
1074 -0.586 0.000
1075 1.038 0.001
1076 . .
1077 -0.988 0.000
1078 -0.953 0.000
1079 0.175 0.000
1080 1.766 0.003
1081 0.942 0.000
1082 0.380 0.000
1083 -1.372 0.001
1084 . .
1085 . .
1086 . .
1087 -0.934 0.000
1088 -1.317 0.001
1089 -0.628 0.000
1090 -0.868 0.000
1091 -0.618 0.000
1092 . .
1093 -0.054 0.000
1094 1.392 0.002
1095 1.283 0.001
1096 0.800 0.000
1097 -1.255 0.001
1098 . .
1099 1.275 0.001
1100 -0.213 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

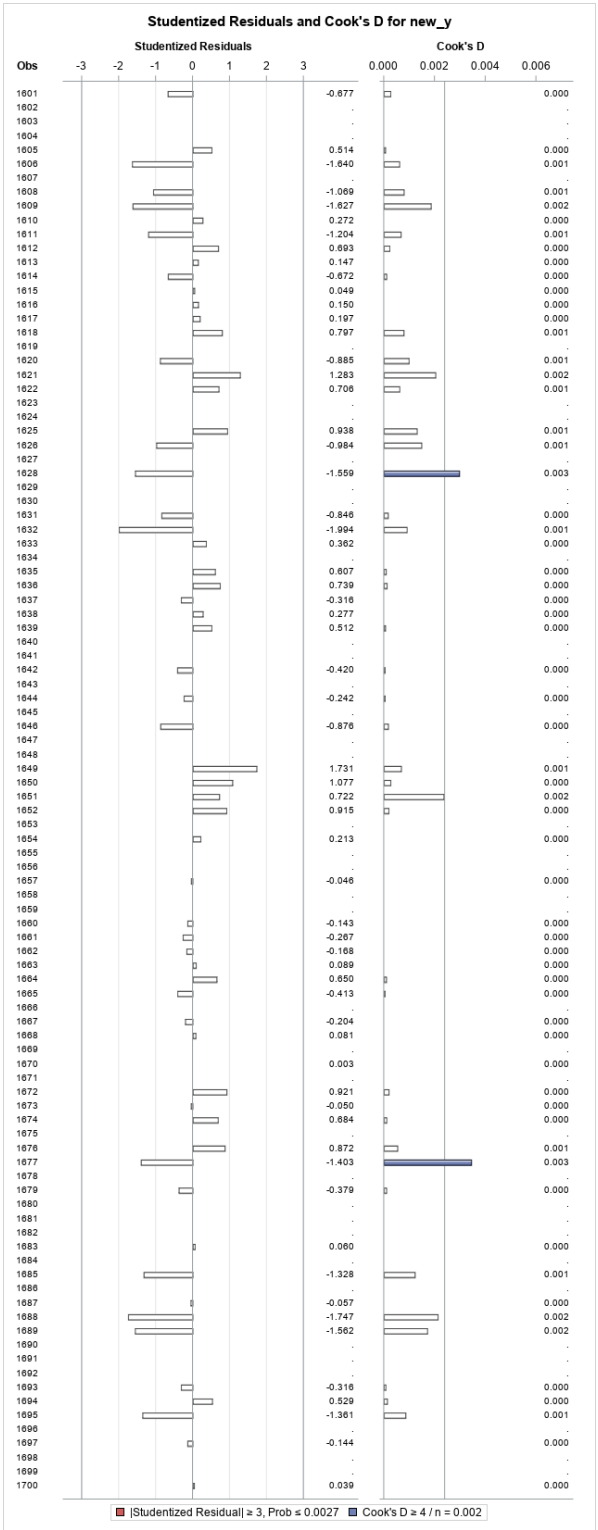

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1101 -0.718 0.000
1102 -1.100 0.001
1103 0.276 0.000
1104 0.914 0.000
1105 0.525 0.000
1106 . .
1107 -0.550 0.000
1108 0.829 0.000
1109 0.332 0.000
1110 . .
1111 0.091 0.000
1112 . .
1113 . .
1114 -0.005 0.000
1115 1.307 0.002
1116 1.750 0.004
1117 . .
1118 1.202 0.002
1119 -0.510 0.000
1120 1.319 0.003
1121 0.942 0.001
1122 . .
1123 -1.288 0.006
1124 0.943 0.001
1125 1.578 0.003
1126 . .
1127 1.959 0.006
1128 -0.604 0.001
1129 0.037 0.000
1130 . .
1131 -1.931 0.001
1132 -0.090 0.000
1133 0.045 0.000
1134 0.217 0.000
1135 0.594 0.000
1136 . .
1137 . .
1138 0.524 0.000
1139 . .
1140 -0.206 0.000
1141 0.051 0.000
1142 -0.365 0.000
1143 -0.887 0.000
1144 1.512 0.001
1145 -0.291 0.000
1146 -0.176 0.000
1147 -0.528 0.000
1148 0.386 0.000
1149 -1.055 0.000
1150 0.047 0.000
1151 1.535 0.001
1152 0.664 0.000
1153 0.708 0.002
1154 0.574 0.000
1155 0.181 0.000
1156 1.654 0.001
1157 -0.337 0.000
1158 -1.241 0.000
1159 -0.088 0.000
1160 0.128 0.000
1161 0.548 0.000
1162 . .
1163 0.293 0.000
1164 0.188 0.000
1165 . .
1166 0.384 0.000
1167 -0.882 0.000
1168 1.907 0.001
1169 . .
1170 . .
1171 -0.551 0.000
1172 -0.020 0.000
1173 . .
1174 1.129 0.000
1175 . .
1176 -0.066 0.000
1177 0.673 0.000
1178 0.604 0.000
1179 -1.313 0.001
1180 -0.148 0.000
1181 . .
1182 0.191 0.000
1183 0.489 0.000
1184 0.141 0.000
1185 . .
1186 . .
1187 0.004 0.000
1188 0.346 0.000
1189 -0.703 0.000
1190 1.410 0.001
1191 . .
1192 . .
1193 -0.161 0.000
1194 0.095 0.000
1195 -0.216 0.000
1196 1.341 0.001
1197 . .
1198 -0.060 0.000
1199 0.679 0.000
1200 -0.259 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

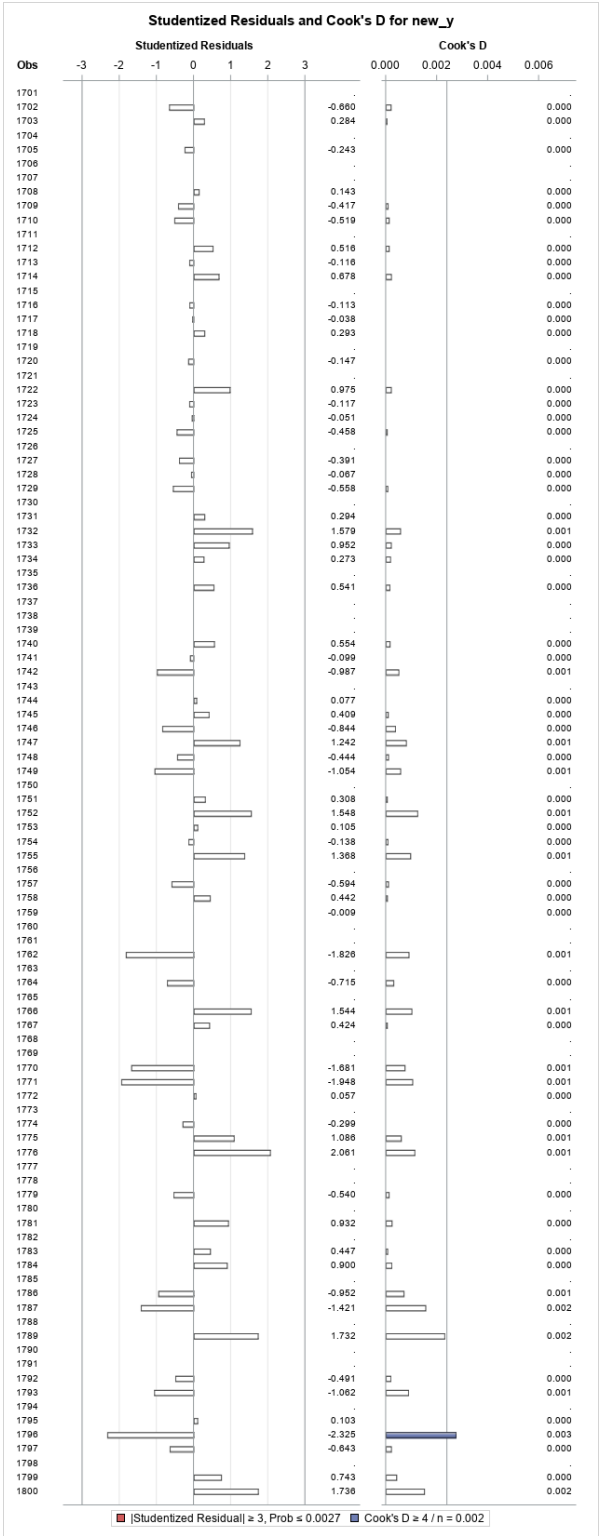

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1201 .
1202 -1.196 0.005
1203 -0.938 0.002
1204 -0.012 0.000
1205 .
1206 .
1207 -1.863 0.008
1208 0.286 0.000
1209 -0.834 0.002
1210 .
1211 .
1212 -0.269 0.000
1213 -0.019 0.000
1214 -0.158 0.000
1215 .
1216 -1.202 0.006
1217 -0.755 0.001
1218 0.378 0.000
1219 -1.062 0.000
1220 .
1221 0.391 0.000
1222 0.660 0.000
1223 -0.223 0.000
1224 0.122 0.000
1225 .
1226 -0.123 0.000
1227 .
1228 -0.952 0.000
1229 1.581 0.001
1230 -0.397 0.000
1231 0.288 0.000
1232 .
1233 0.444 0.000
1234 -0.103 0.000
1235 1.194 0.000
1236 0.433 0.000
1237 0.164 0.000
1238 1.300 0.000
1239 .
1240 -0.110 0.000
1241 -0.135 0.000
1242 0.140 0.000
1243 0.745 0.000
1244 0.118 0.000
1245 -0.652 0.000
1246 .
1247 .
1248 .
1249 .
1250 1.222 0.001
1251 -0.391 0.000
1252 .
1253 -0.173 0.000
1254 .
1255 .
1256 0.878 0.000
1257 0.154 0.000
1258 -0.085 0.000
1259 1.523 0.001
1260 -0.821 0.000
1261 .
1262 -1.716 0.001
1263 -1.230 0.000
1264 0.082 0.000
1265 1.667 0.002
1266 .
1267 -1.203 0.000
1268 .
1269 .
1270 -0.716 0.000
1271 1.446 0.001
1272 0.679 0.000
1273 .
1274 0.360 0.000
1275 1.006 0.000
1276 -1.505 0.001
1277 .
1278 -0.308 0.000
1279 -0.329 0.000
1280 .
1281 -0.064 0.000
1282 .
1283 .
1284 -0.748 0.000
1285 1.006 0.000
1286 -0.499 0.000
1287 .
1288 .
1289 .
1290 1.408 0.001
1291 0.467 0.000
1292 1.122 0.000
1293 -1.356 0.000
1294 -0.898 0.000
1295 .
1296 .
1297 .
1298 .
1299 0.670 0.000
1300 .
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

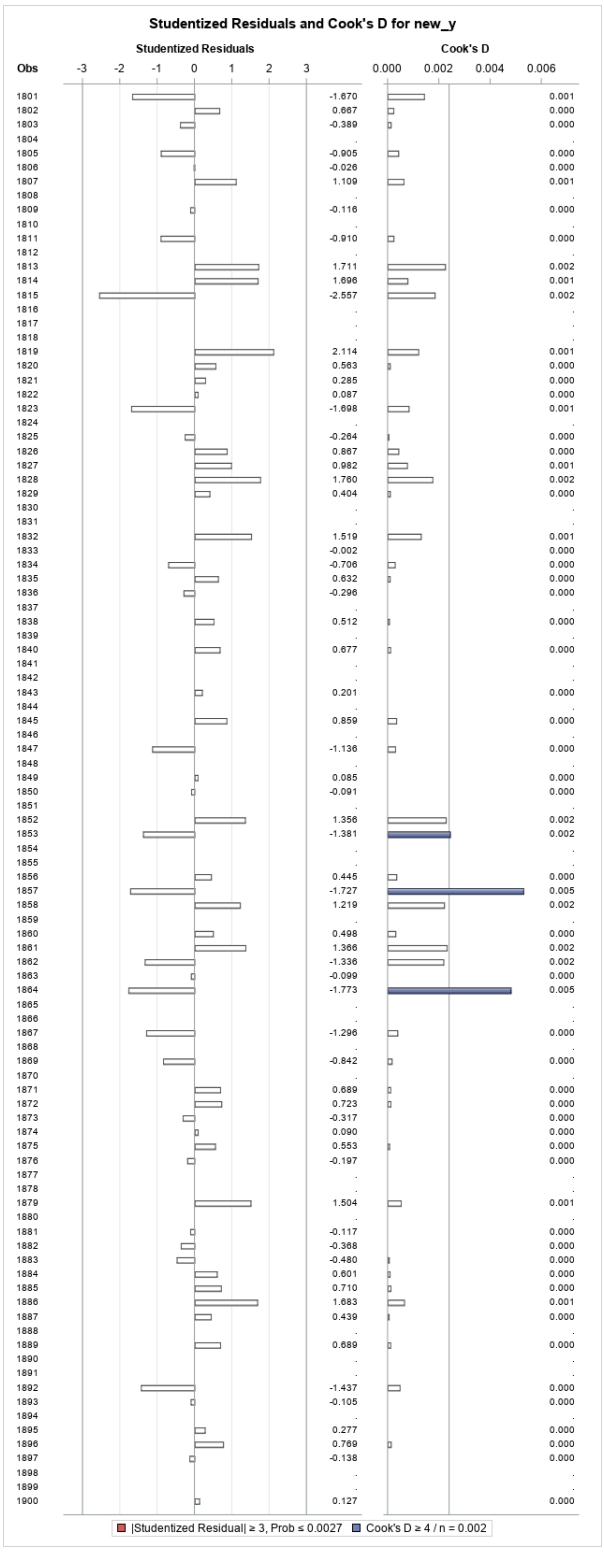

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1301 -2.345 0.003
1302 .
1303 -0.467 0.000
1304 -1.724 0.002
1305 0.155 0.000
1306 -0.331 0.000
1307 1.177 0.001
1308 -0.053 0.000
1309 0.923 0.000
1310 -2.092 0.002
1311 .
1312 -1.242 0.004
1313 -0.318 0.000
1314 1.753 0.007
1315 0.931 0.002
1316 -1.043 0.003
1317 .
1318 -1.105 0.003
1319 -0.159 0.000
1320 -1.319 0.004
1321 0.821 0.002
1322 .
1323 -1.175 0.000
1324 -0.289 0.000
1325 -0.788 0.000
1326 .
1327 .
1328 1.887 0.001
1329 0.424 0.000
1330 -0.601 0.000
1331 -1.309 0.000
1332 2.117 0.001
1333 0.836 0.000
1334 1.808 0.001
1335 0.186 0.000
1336 0.631 0.000
1337 -1.870 0.001
1338 -0.114 0.000
1339 -1.071 0.001
1340 .
1341 .
1342 1.567 0.001
1343 0.952 0.001
1344 -0.429 0.000
1345 1.650 0.002
1346 2.497 0.003
1347 0.806 0.000
1348 .
1349 .
1350 0.331 0.000
1351 0.577 0.000
1352 -0.928 0.000
1353 0.546 0.000
1354 0.321 0.000
1355 .
1356 .
1357 0.308 0.000
1358 -0.898 0.000
1359 .
1360 -1.195 0.003
1361 .
1362 .
1363 0.226 0.000
1364 0.380 0.000
1365 .
1366 -0.294 0.000
1367 .
1368 1.414 0.002
1369 -1.096 0.002
1370 1.673 0.003
1371 0.716 0.001
1372 -1.099 0.002
1373 -1.727 0.005
1374 1.249 0.002
1375 -1.016 0.002
1376 0.774 0.001
1377 .
1378 1.520 0.004
1379 .
1380 -0.592 0.000
1381 -0.003 0.000
1382 0.308 0.000
1383 -1.229 0.000
1384 .
1385 .
1386 0.601 0.000
1387 0.598 0.000
1388 .
1389 .
1390 .
1391 -0.124 0.000
1392 0.413 0.000
1393 -0.605 0.000
1394 1.904 0.001
1395 -0.290 0.000
1396 0.123 0.000
1397 .
1398 .
1399 0.763 0.000
1400 1.447 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

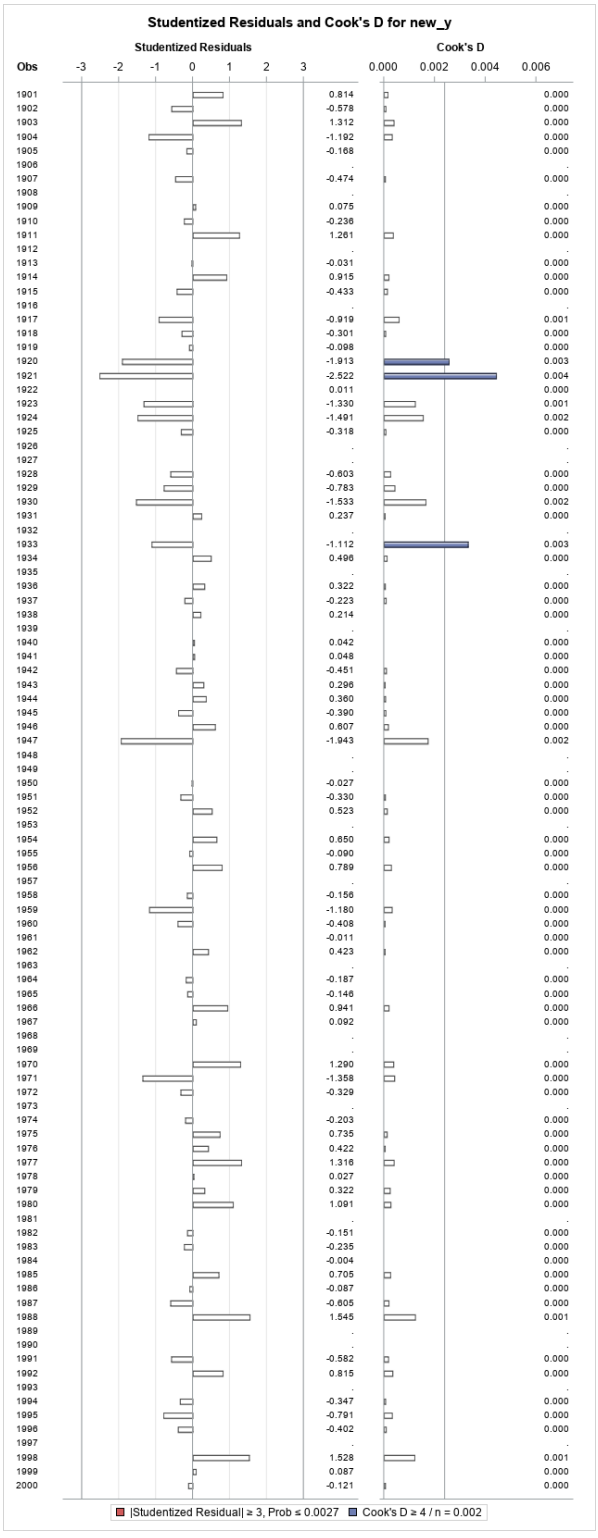

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1401 0.336 0.000
1402 . .
1403 . .
1404 0.175 0.000
1405 . .
1406 -1.406 0.000
1407 . .
1408 0.221 0.000
1409 0.823 0.000
1410 -0.137 0.000
1411 0.115 0.000
1412 -0.046 0.000
1413 0.022 0.000
1414 0.757 0.000
1415 . .
1416 -0.670 0.000
1417 1.386 0.000
1418 . .
1419 -0.402 0.000
1420 . .
1421 0.365 0.000
1422 1.233 0.000
1423 1.563 0.001
1424 0.984 0.000
1425 . .
1426 0.709 0.000
1427 . .
1428 0.588 0.000
1429 -1.165 0.002
1430 -0.600 0.000
1431 -0.073 0.000
1432 . .
1433 -1.912 0.003
1434 . .
1435 . .
1436 . .
1437 -2.352 0.004
1438 . .
1439 -0.623 0.000
1440 -0.798 0.000
1441 -0.408 0.000
1442 . .
1443 -1.422 0.005
1444 0.410 0.000
1445 0.458 0.000
1446 0.299 0.000
1447 -1.338 0.001
1448 -0.599 0.000
1449 -0.216 0.000
1450 0.254 0.000
1451 . .
1452 0.075 0.000
1453 . .
1454 -0.700 0.000
1455 0.422 0.000
1456 0.375 0.000
1457 -0.694 0.000
1458 . .
1459 . .
1460 -0.170 0.000
1461 . .
1462 . .
1463 0.954 0.000
1464 0.840 0.000
1465 0.327 0.000
1466 -0.120 0.000
1467 0.796 0.000
1468 . .
1469 . .
1470 0.029 0.000
1471 0.237 0.000
1472 0.677 0.000
1473 -0.116 0.000
1474 -0.070 0.000
1475 1.034 0.000
1476 0.063 0.000
1477 0.314 0.000
1478 0.533 0.000
1479 -0.854 0.000
1480 1.026 0.000
1481 . .
1482 -0.076 0.000
1483 -0.512 0.000
1484 0.159 0.000
1485 . .
1486 0.188 0.000
1487 . .
1488 . .
1489 0.647 0.000
1490 1.126 0.001
1491 -0.094 0.000
1492 0.063 0.000
1493 . .
1494 . .
1495 . .
1496 1.476 0.001
1497 . .
1498 0.059 0.000
1499 -1.062 0.001
1500 1.230 0.001
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

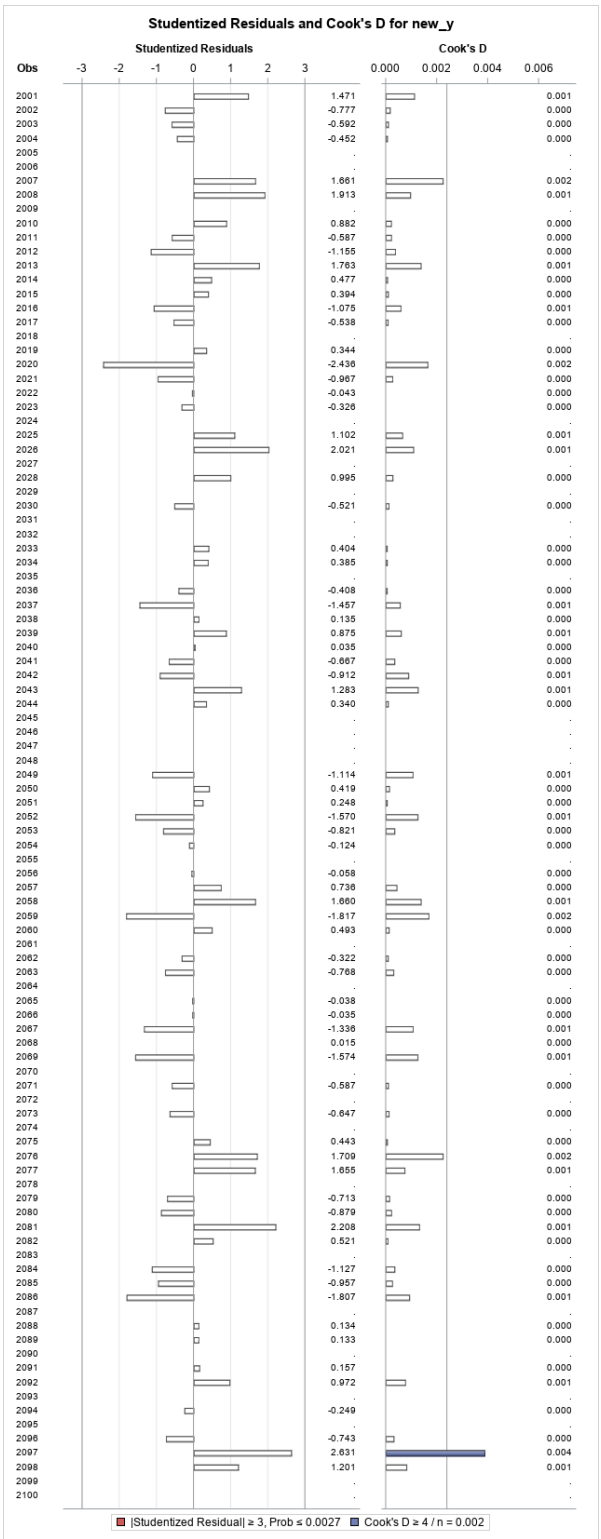

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1501 -0.465 0.000
1502 . .
1503 -0.080 0.000
1504 -0.164 0.000
1505 . .
1506 0.668 0.000
1507 -0.105 0.000
1508 1.585 0.001
1509 -0.688 0.000
1510 -2.140 0.001
1511 . .
1512 -1.309 0.000
1513 . .
1514 . .
1515 1.690 0.002
1516 2.018 0.001
1517 -2.205 0.001
1518 0.867 0.000
1519 -0.728 0.000
1520 -0.825 0.000
1521 1.427 0.001
1522 0.236 0.000
1523 0.396 0.000
1524 0.599 0.000
1525 -1.524 0.001
1526 . .
1527 -2.218 0.001
1528 -0.260 0.000
1529 -0.367 0.000
1530 -0.869 0.000
1531 . .
1532 . .
1533 . .
1534 -1.186 0.000
1535 . .
1536 -0.563 0.000
1537 -0.728 0.000
1538 -0.745 0.000
1539 0.933 0.000
1540 0.045 0.000
1541 . .
1542 0.713 0.000
1543 . .
1544 . .
1545 . .
1546 . .
1547 . .
1548 . .
1549 1.307 0.001
1550 . .
1551 0.405 0.000
1552 -0.451 0.000
1553 . .
1554 0.393 0.000
1555 . .
1556 -0.483 0.000
1557 -0.618 0.000
1558 -1.578 0.001
1559 -0.108 0.000
1560 . .
1561 1.722 0.001
1562 . .
1563 . .
1564 -1.489 0.001
1565 -0.401 0.000
1566 -0.859 0.000
1567 . .
1568 . .
1569 . .
1570 . .
1571 -1.283 0.001
1572 -0.385 0.000
1573 -1.659 0.001
1574 -0.543 0.000
1575 -0.869 0.000
1576 -0.366 0.000
1577 0.080 0.000
1578 1.786 0.002
1579 1.802 0.001
1580 -1.717 0.001
1581 . .
1582 -0.884 0.000
1583 -0.236 0.000
1584 2.092 0.001
1585 0.434 0.000
1586 0.302 0.000
1587 0.390 0.000
1588 -1.994 0.001
1589 . .
1590 -1.325 0.001
1591 -0.232 0.000
1592 -0.156 0.000
1593 0.473 0.000
1594 1.095 0.001
1595 1.644 0.002
1596 -0.321 0.000
1597 -1.088 0.001
1598 . .
1599 . .
1600 0.058 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

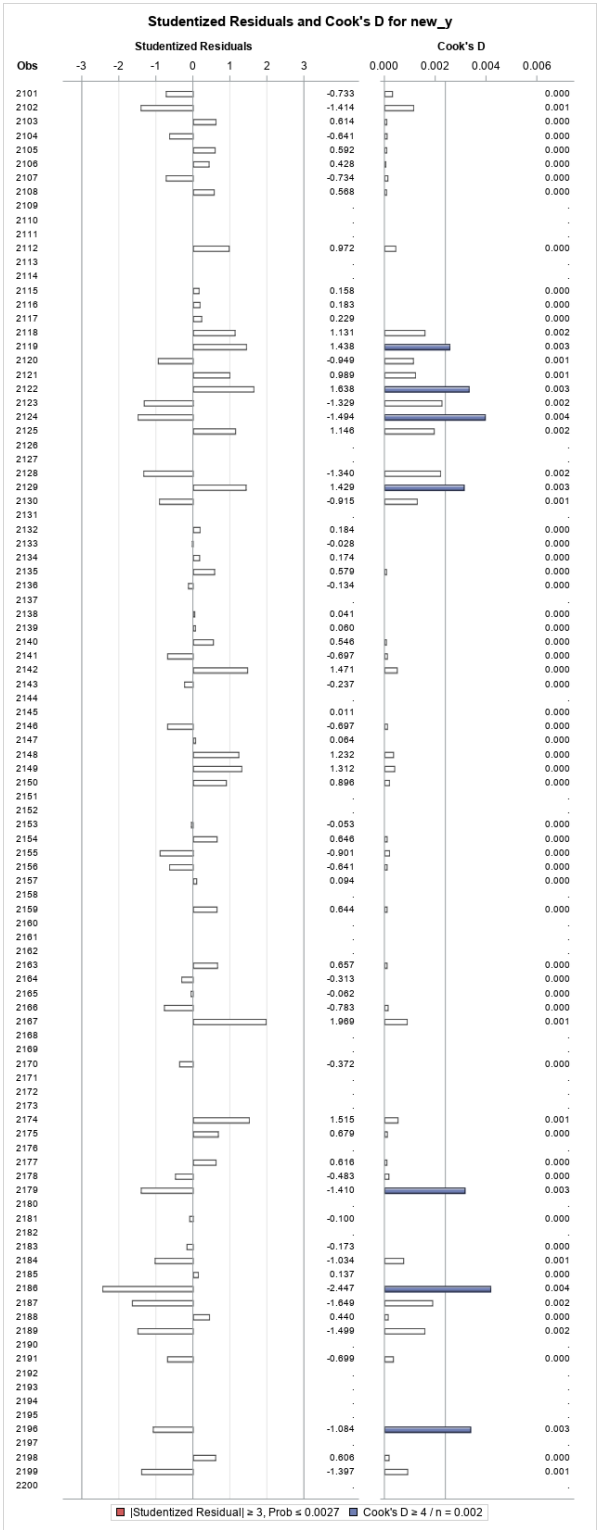

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1601 -0.877 0.000
1602 . .
1603 . .
1604 . .
1605 0.514 0.000
1606 -1.640 0.001
1607 . .
1608 -1.069 0.001
1609 -1.627 0.002
1610 0.272 0.000
1611 -1.204 0.001
1612 0.693 0.000
1613 0.147 0.000
1614 -0.672 0.000
1615 0.049 0.000
1616 0.150 0.000
1617 0.197 0.000
1618 0.797 0.001
1619 . .
1620 -0.885 0.001
1621 1.283 0.002
1622 0.706 0.001
1623 . .
1624 . .
1625 0.938 0.001
1626 -0.984 0.001
1627 . .
1628 -1.559 0.003
1629 . .
1630 . .
1631 -0.846 0.000
1632 -1.994 0.001
1633 0.362 0.000
1634 . .
1635 0.807 0.000
1636 0.739 0.000
1637 -0.316 0.000
1638 0.277 0.000
1639 0.512 0.000
1640 . .
1641 . .
1642 -0.420 0.000
1643 . .
1644 -0.242 0.000
1645 . .
1646 -0.876 0.000
1647 . .
1648 . .
1649 1.731 0.001
1650 1.077 0.000
1651 0.722 0.002
1652 0.915 0.000
1653 . .
1654 0.213 0.000
1655 . .
1656 . .
1657 -0.046 0.000
1658 . .
1659 . .
1660 -0.143 0.000
1661 -0.267 0.000
1662 -0.168 0.000
1663 0.089 0.000
1664 0.650 0.000
1665 -0.413 0.000
1666 . .
1667 -0.204 0.000
1668 0.081 0.000
1669 . .
1670 0.003 0.000
1671 . .
1672 0.921 0.000
1673 -0.050 0.000
1674 0.684 0.000
1675 . .
1676 0.872 0.001
1677 -1.403 0.003
1678 . .
1679 -0.379 0.000
1680 . .
1681 . .
1682 . .
1683 0.060 0.000
1684 . .
1685 -1.328 0.001
1686 . .
1687 -0.057 0.000
1688 -1.747 0.002
1689 -1.562 0.002
1690 . .
1691 . .
1692 . .
1693 -0.316 0.000
1694 0.529 0.000
1695 -1.361 0.001
1696 . .
1697 -0.144 0.000
1698 . .
1699 . .
1700 0.039 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

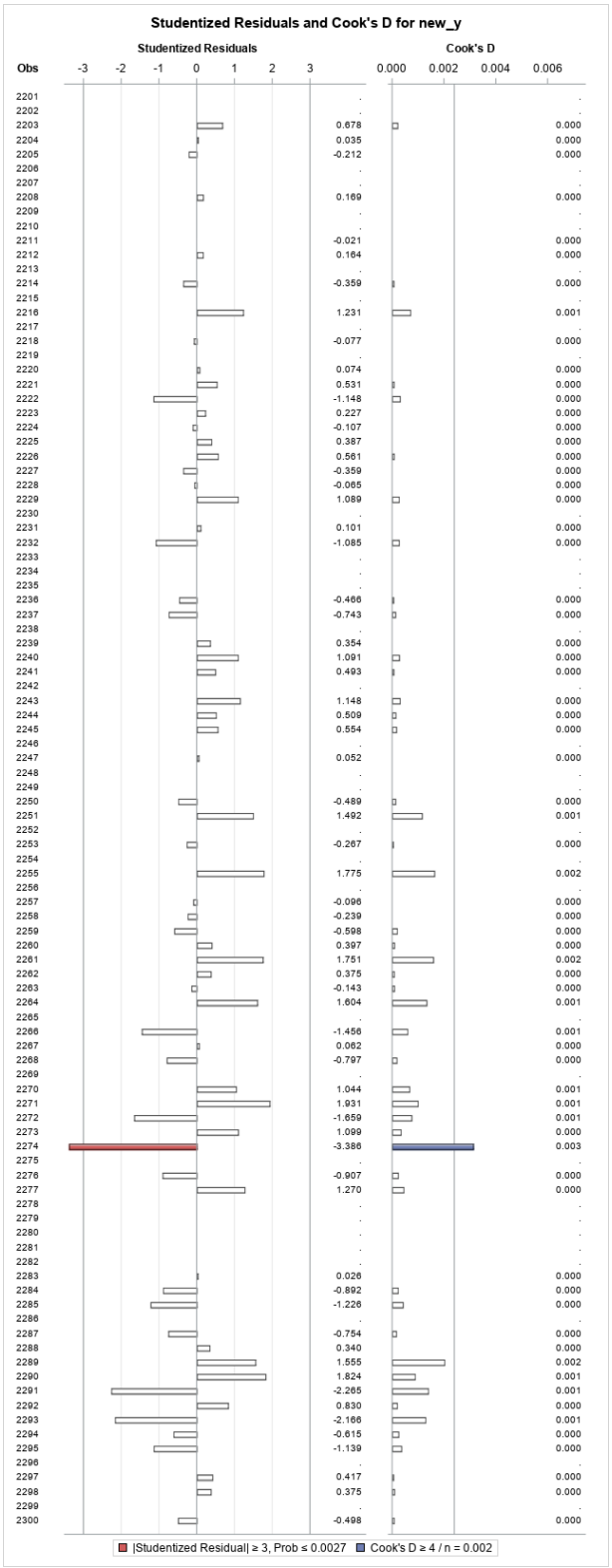

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1701 . .
1702 -0.660 0.000
1703 0.284 0.000
1704 . .
1705 -0.243 0.000
1706 . .
1707 . .
1708 0.143 0.000
1709 -0.417 0.000
1710 -0.519 0.000
1711 . .
1712 0.516 0.000
1713 -0.116 0.000
1714 0.678 0.000
1715 . .
1716 -0.113 0.000
1717 -0.038 0.000
1718 0.293 0.000
1719 . .
1720 -0.147 0.000
1721 . .
1722 0.975 0.000
1723 -0.117 0.000
1724 -0.051 0.000
1725 -0.458 0.000
1726 . .
1727 -0.391 0.000
1728 -0.067 0.000
1729 -0.558 0.000
1730 . .
1731 0.294 0.000
1732 1.579 0.001
1733 0.952 0.000
1734 0.273 0.000
1735 . .
1736 0.541 0.000
1737 . .
1738 . .
1739 . .
1740 0.554 0.000
1741 -0.099 0.000
1742 -0.987 0.001
1743 . .
1744 0.077 0.000
1745 0.409 0.000
1746 -0.844 0.000
1747 1.242 0.001
1748 -0.444 0.000
1749 -1.054 0.001
1750 . .
1751 0.308 0.000
1752 1.548 0.001
1753 0.105 0.000
1754 -0.138 0.000
1755 1.368 0.001
1756 . .
1757 -0.594 0.000
1758 0.442 0.000
1759 -0.009 0.000
1760 . .
1761 . .
1762 -1.826 0.001
1763 . .
1764 -0.715 0.000
1765 . .
1766 1.544 0.001
1767 0.424 0.000
1768 . .
1769 . .
1770 -1.681 0.001
1771 -1.948 0.001
1772 0.057 0.000
1773 . .
1774 -0.299 0.000
1775 1.088 0.001
1776 2.061 0.001
1777 . .
1778 . .
1779 -0.540 0.000
1780 . .
1781 0.932 0.000
1782 . .
1783 0.447 0.000
1784 0.900 0.000
1785 . .
1786 -0.952 0.001
1787 -1.421 0.002
1788 . .
1789 1.732 0.002
1790 . .
1791 . .
1792 -0.491 0.000
1793 -1.062 0.001
1794 . .
1795 0.103 0.000
1796 -2.325 0.003
1797 -0.643 0.000
1798 . .
1799 0.743 0.000
1800 1.736 0.002
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

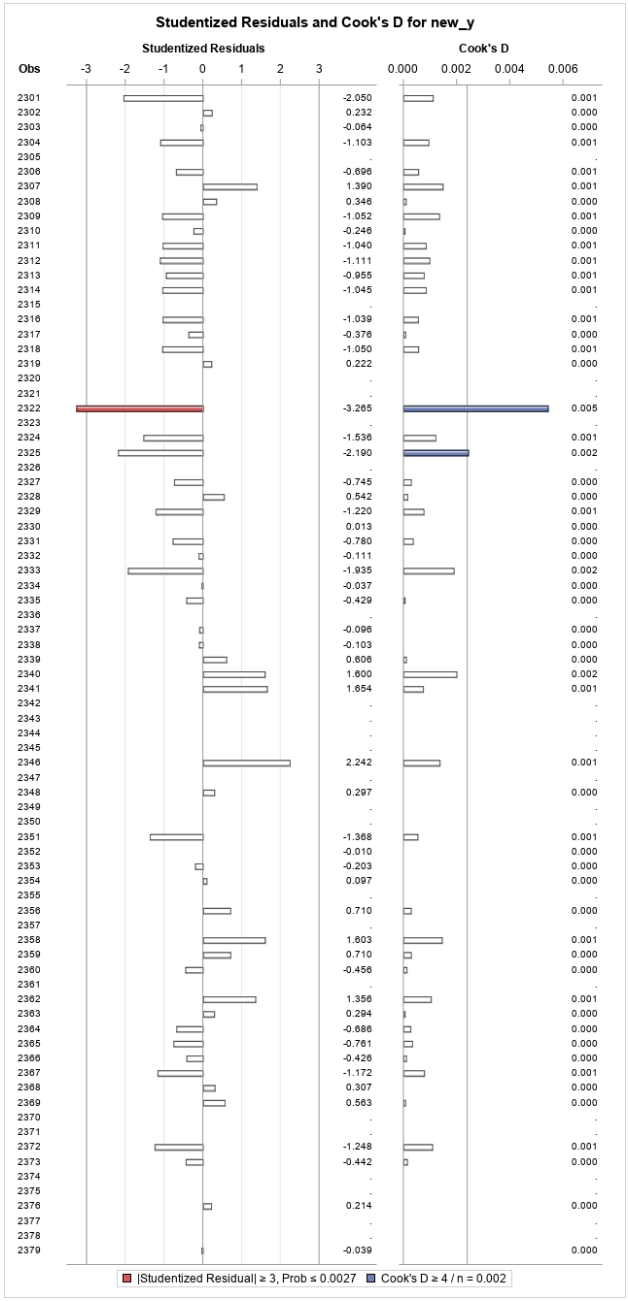

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1801 -1.670 0.001
1802 0.667 0.000
1803 -0.389 0.000
1804 . .
1805 -0.905 0.000
1806 -0.026 0.000
1807 1.109 0.001
1808 . .
1809 -0.116 0.000
1810 . .
1811 -0.910 0.000
1812 . .
1813 1.711 0.002
1814 1.696 0.001
1815 -2.557 0.002
1816 . .
1817 . .
1818 . .
1819 2.114 0.001
1820 0.563 0.000
1821 0.285 0.000
1822 0.087 0.000
1823 -1.698 0.001
1824 . .
1825 -0.264 0.000
1826 0.867 0.000
1827 0.982 0.001
1828 1.760 0.002
1829 0.404 0.000
1830 . .
1831 . .
1832 1.519 0.001
1833 -0.002 0.000
1834 -0.706 0.000
1835 0.632 0.000
1836 -0.296 0.000
1837 . .
1838 0.512 0.000
1839 . .
1840 0.677 0.000
1841 . .
1842 . .
1843 0.201 0.000
1844 . .
1845 0.859 0.000
1846 . .
1847 -1.136 0.000
1848 . .
1849 0.085 0.000
1850 -0.091 0.000
1851 . .
1852 1.356 0.002
1853 -1.381 0.002
1854 . .
1855 . .
1856 0.445 0.000
1857 -1.727 0.005
1858 1.219 0.002
1859 . .
1860 0.498 0.000
1861 1.366 0.002
1862 -1.336 0.002
1863 -0.099 0.000
1864 -1.773 0.005
1865 . .
1866 . .
1867 -1.296 0.000
1868 . .
1869 -0.842 0.000
1870 . .
1871 0.689 0.000
1872 0.723 0.000
1873 -0.317 0.000
1874 0.090 0.000
1875 0.553 0.000
1876 -0.197 0.000
1877 . .
1878 . .
1879 1.504 0.001
1880 . .
1881 -0.117 0.000
1882 -0.368 0.000
1883 -0.480 0.000
1884 0.601 0.000
1885 0.710 0.000
1886 1.683 0.001
1887 0.439 0.000
1888 . .
1889 0.689 0.000
1890 . .
1891 . .
1892 -1.437 0.000
1893 -0.105 0.000
1894 . .
1895 0.277 0.000
1896 0.769 0.000
1897 -0.138 0.000
1898 . .
1899 . .
1900 0.127 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002

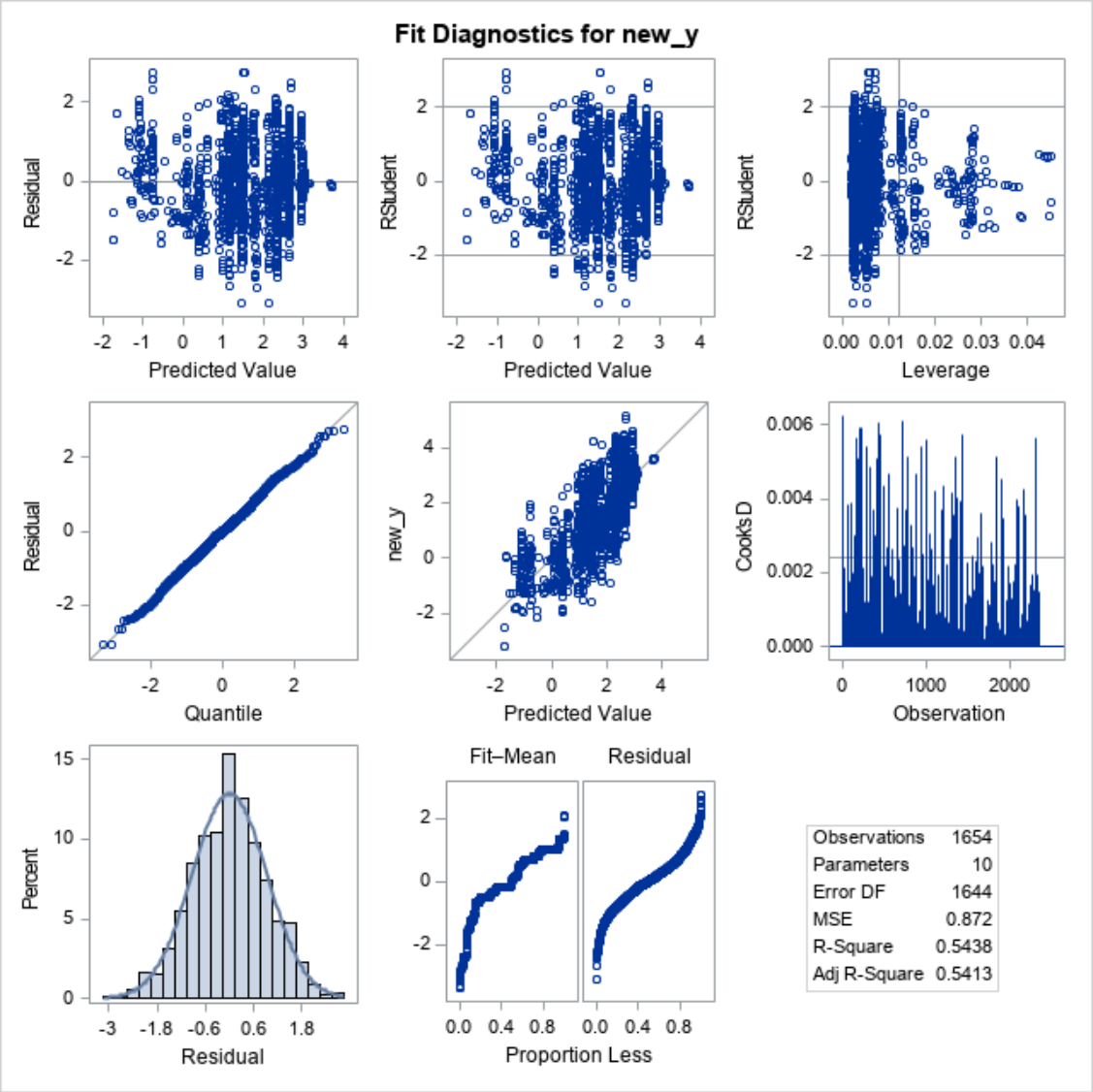

Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
1901 0.814 0.000
1902 -0.578 0.000
1903 1.312 0.000
1904 -1.192 0.000
1905 -0.168 0.000
1906 . .
1907 -0.474 0.000
1908 . .
1909 0.075 0.000
1910 -0.236 0.000
1911 1.261 0.000
1912 . .
1913 -0.031 0.000
1914 0.915 0.000
1915 -0.433 0.000
1916 . .
1917 -0.919 0.001
1918 -0.301 0.000
1919 -0.098 0.000
1920 -1.913 0.003
1921 -2.522 0.004
1922 0.011 0.000
1923 -1.330 0.001
1924 -1.491 0.002
1925 -0.318 0.000
1926 . .
1927 . .
1928 -0.603 0.000
1929 -0.783 0.000
1930 -1.533 0.002
1931 0.237 0.000
1932 . .
1933 -1.112 0.003
1934 0.496 0.000
1935 . .
1936 0.322 0.000
1937 -0.223 0.000
1938 0.214 0.000
1939 . .
1940 0.042 0.000
1941 0.048 0.000
1942 -0.451 0.000
1943 0.296 0.000
1944 0.360 0.000
1945 -0.390 0.000
1946 0.607 0.000
1947 -1.943 0.002
1948 . .
1949 . .
1950 -0.027 0.000
1951 -0.330 0.000
1952 0.523 0.000
1953 . .
1954 0.650 0.000
1955 -0.090 0.000
1956 0.789 0.000
1957 . .
1958 -0.156 0.000
1959 -1.180 0.000
1960 -0.408 0.000
1961 -0.011 0.000
1962 0.423 0.000
1963 . .
1964 -0.187 0.000
1965 -0.146 0.000
1966 0.941 0.000
1967 0.092 0.000
1968 . .
1969 . .
1970 1.290 0.000
1971 -1.358 0.000
1972 -0.329 0.000
1973 . .
1974 -0.203 0.000
1975 0.735 0.000
1976 0.422 0.000
1977 1.316 0.000
1978 0.027 0.000
1979 0.322 0.000
1980 1.091 0.000
1981 . .
1982 -0.151 0.000
1983 -0.235 0.000
1984 -0.004 0.000
1985 0.705 0.000
1986 -0.087 0.000
1987 -0.605 0.000
1988 1.545 0.001
1989 . .
1990 . .
1991 -0.582 0.000
1992 0.815 0.000
1993 . .
1994 -0.347 0.000
1995 -0.791 0.000
1996 -0.402 0.000
1997 . .
1998 1.528 0.001
1999 0.087 0.000
2000 -0.121 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002


Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
2001 1.471 0.001
2002 -0.777 0.000
2003 -0.592 0.000
2004 -0.452 0.000
2005 . .
2006 . .
2007 1.661 0.002
2008 1.913 0.001
2009 . .
2010 0.882 0.000
2011 -0.587 0.000
2012 -1.155 0.000
2013 1.763 0.001
2014 0.477 0.000
2015 0.394 0.000
2016 -1.075 0.001
2017 -0.538 0.000
2018 . .
2019 0.344 0.000
2020 -2.436 0.002
2021 -0.967 0.000
2022 -0.043 0.000
2023 -0.326 0.000
2024 . .
2025 1.102 0.001
2026 2.021 0.001
2027 . .
2028 0.995 0.000
2029 . .
2030 -0.521 0.000
2031 . .
2032 . .
2033 0.404 0.000
2034 0.385 0.000
2035 . .
2036 -0.408 0.000
2037 -1.457 0.001
2038 0.135 0.000
2039 0.875 0.001
2040 0.035 0.000
2041 -0.667 0.000
2042 -0.912 0.001
2043 1.283 0.001
2044 0.340 0.000
2045 . .
2046 . .
2047 . .
2048 . .
2049 -1.114 0.001
2050 0.419 0.000
2051 0.248 0.000
2052 -1.570 0.001
2053 -0.821 0.000
2054 -0.124 0.000
2055 . .
2056 -0.058 0.000
2057 0.736 0.000
2058 1.660 0.001
2059 -1.817 0.002
2060 0.493 0.000
2061 . .
2062 -0.322 0.000
2063 -0.768 0.000
2064 . .
2065 -0.038 0.000
2066 -0.035 0.000
2067 -1.336 0.001
2068 0.015 0.000
2069 -1.574 0.001
2070 . .
2071 -0.587 0.000
2072 . .
2073 -0.647 0.000
2074 . .
2075 0.443 0.000
2076 1.709 0.002
2077 1.655 0.001
2078 . .
2079 -0.713 0.000
2080 -0.879 0.000
2081 2.208 0.001
2082 0.521 0.000
2083 . .
2084 -1.127 0.000
2085 -0.957 0.000
2086 -1.807 0.001
2087 . .
2088 0.134 0.000
2089 0.133 0.000
2090 . .
2091 0.157 0.000
2092 0.972 0.001
2093 . .
2094 -0.249 0.000
2095 . .
2096 -0.743 0.000
2097 2.631 0.004
2098 1.201 0.001
2099 . .
2100 . .
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002


Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
2101 -0.733 0.000
2102 -1.414 0.001
2103 0.614 0.000
2104 -0.641 0.000
2105 0.592 0.000
2106 0.428 0.000
2107 -0.734 0.000
2108 0.568 0.000
2109 . .
2110 . .
2111 . .
2112 0.972 0.000
2113 . .
2114 . .
2115 0.158 0.000
2116 0.183 0.000
2117 0.229 0.000
2118 1.131 0.002
2119 1.438 0.003
2120 -0.949 0.001
2121 0.989 0.001
2122 1.638 0.003
2123 -1.329 0.002
2124 -1.494 0.004
2125 1.146 0.002
2126 . .
2127 . .
2128 -1.340 0.002
2129 1.429 0.003
2130 -0.915 0.001
2131 . .
2132 0.184 0.000
2133 -0.028 0.000
2134 0.174 0.000
2135 0.579 0.000
2136 -0.134 0.000
2137 . .
2138 0.041 0.000
2139 0.060 0.000
2140 0.546 0.000
2141 -0.697 0.000
2142 1.471 0.000
2143 -0.237 0.000
2144 . .
2145 0.011 0.000
2146 -0.697 0.000
2147 0.064 0.000
2148 1.232 0.000
2149 1.312 0.000
2150 0.896 0.000
2151 . .
2152 . .
2153 -0.053 0.000
2154 0.646 0.000
2155 -0.901 0.000
2156 -0.641 0.000
2157 0.094 0.000
2158 . .
2159 0.644 0.000
2160 . .
2161 . .
2162 . .
2163 0.657 0.000
2164 -0.313 0.000
2165 -0.062 0.000
2166 -0.783 0.000
2167 1.969 0.001
2168 . .
2169 . .
2170 -0.372 0.000
2171 . .
2172 . .
2173 . .
2174 1.515 0.001
2175 0.679 0.000
2176 . .
2177 0.616 0.000
2178 -0.483 0.000
2179 -1.410 0.003
2180 . .
2181 -0.100 0.000
2182 . .
2183 -0.173 0.000
2184 -1.034 0.001
2185 0.137 0.000
2186 -2.447 0.004
2187 -1.649 0.002
2188 0.440 0.000
2189 -1.499 0.002
2190 . .
2191 -0.699 0.000
2192 . .
2193 . .
2194 . .
2195 . .
2196 -1.084 0.003
2197 . .
2198 0.606 0.000
2199 -1.397 0.001
2200 . .
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002


Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
2201 .
2202 .
2203 0.678 0.000
2204 0.035 0.000
2205 -0.212 0.000
2206 .
2207 .
2208 0.169 0.000
2209 .
2210 .
2211 -0.021 0.000
2212 0.164 0.000
2213 .
2214 -0.359 0.000
2215 .
2216 1.231 0.001
2217 .
2218 -0.077 0.000
2219 .
2220 0.074 0.000
2221 0.531 0.000
2222 -1.148 0.000
2223 0.227 0.000
2224 -0.107 0.000
2225 0.387 0.000
2226 0.561 0.000
2227 -0.359 0.000
2228 -0.065 0.000
2229 1.089 0.000
2230 .
2231 0.101 0.000
2232 -1.085 0.000
2233 .
2234 .
2235 .
2236 -0.466 0.000
2237 -0.743 0.000
2238 .
2239 0.354 0.000
2240 1.091 0.000
2241 0.493 0.000
2242 .
2243 1.148 0.000
2244 0.509 0.000
2245 0.554 0.000
2246 .
2247 0.052 0.000
2248 .
2249 .
2250 -0.489 0.000
2251 1.492 0.001
2252 .
2253 -0.267 0.000
2254 .
2255 1.775 0.002
2256 .
2257 -0.096 0.000
2258 -0.239 0.000
2259 -0.598 0.000
2260 0.397 0.000
2261 1.751 0.002
2262 0.375 0.000
2263 -0.143 0.000
2264 1.604 0.001
2265 .
2266 -1.456 0.001
2267 0.062 0.000
2268 -0.797 0.000
2269 .
2270 1.044 0.001
2271 1.931 0.001
2272 -1.659 0.001
2273 1.099 0.000
2274 -3.386 0.003
2275 .
2276 -0.907 0.000
2277 1.270 0.000
2278 .
2279 .
2280 .
2281 .
2282 .
2283 0.026 0.000
2284 -0.892 0.000
2285 -1.226 0.000
2286 .
2287 -0.754 0.000
2288 0.340 0.000
2289 1.555 0.002
2290 1.824 0.001
2291 -2.265 0.001
2292 0.830 0.000
2293 -2.166 0.001
2294 -0.615 0.000
2295 -1.139 0.000
2296 .
2297 0.417 0.000
2298 0.375 0.000
2299 .
2300 -0.498 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002


Studentized Residuals and Cook's D for new_y
Studentized Residuals
Cook's D
Obs
-3 -2 -1 0 1 2 3
0.000 0.002 0.004 0.006
2301 -2.050 0.001
2302 0.232 0.000
2303 -0.064 0.000
2304 -1.103 0.001
2305 .
2306 -0.696 0.001
2307 1.390 0.001
2308 0.346 0.000
2309 -1.052 0.001
2310 -0.246 0.000
2311 -1.040 0.001
2312 -1.111 0.001
2313 -0.955 0.001
2314 -1.045 0.001
2315 .
2316 -1.039 0.001
2317 -0.376 0.000
2318 -1.050 0.001
2319 0.222 0.000
2320 .
2321 .
2322 -3.265 0.005
2323 .
2324 -1.536 0.001
2325 -2.190 0.002
2326 .
2327 -0.745 0.000
2328 0.542 0.000
2329 -1.220 0.001
2330 0.013 0.000
2331 -0.780 0.000
2332 -0.111 0.000
2333 -1.935 0.002
2334 -0.037 0.000
2335 -0.429 0.000
2336 .
2337 -0.096 0.000
2338 -0.103 0.000
2339 0.606 0.000
2340 1.600 0.002
2341 1.654 0.001
2342 .
2343 .
2344 .
2345 .
2346 2.242 0.001
2347 .
2348 0.297 0.000
2349 .
2350 .
2351 -1.368 0.001
2352 -0.010 0.000
2353 -0.203 0.000
2354 0.097 0.000
2355 .
2356 0.710 0.000
2357 .
2358 1.603 0.001
2359 0.710 0.000
2360 -0.456 0.000
2361 .
2362 1.356 0.001
2363 0.294 0.000
2364 -0.686 0.000
2365 -0.761 0.000
2366 -0.426 0.000
2367 -1.172 0.001
2368 0.307 0.000
2369 0.563 0.000
2370 .
2371 .
2372 -1.248 0.001
2373 -0.442 0.000
2374 .
2375 .
2376 0.214 0.000
2377 .
2378 .
2379 -0.039 0.000
|Studentized Residual| ≥ 3, Prob ≤ 0.0027
Cook's D ≥ 4 / n = 0.002



Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	1.47489	0.04714	31.29	<.0001
population	1	-2.04877E-8	7.037048E-9	-2.91	0.0036
gdp_for_year_dollars	1	6.11426E-14	1.44567E-14	4.23	<.0001
dsex	1	1.17262	0.04610	25.43	<.0001
dgeneration3	1	-2.48734	0.15483	-16.06	<.0001
dgeneration4	1	-2.23228	0.07777	-28.70	<.0001
dage1	1	2.30050	0.16132	14.26	<.0001
dage5	1	0.30628	0.06929	4.42	<.0001
dcontinent1	1	-0.88739	0.10494	-8.46	<.0001
dcontinent2	1	-0.31239	0.04838	-6.46	<.0001

The REG Procedure
Model: MODEL1
Dependent Variable: new_y

Number of Observations Read	2367
Number of Observations Used	1654
Number of Observations with Missing Values	713

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	1708.93825	189.88203	217.75	<.0001
Error	1644	1433.56599	0.87200		
Corrected Total	1653	3142.50424			

Root MSE	0.93381	R-Square	0.5438
Dependent Mean	1.64818	Adj R-Sq	0.5413
Coeff Var	56.65689		

Ram23

The CORR Procedure

2 Variables:	Insuicidesper100kpop yhat

Simple Statistics

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
Insuicidesper100kpop	713	1.62811	1.39255	1161	-3.21888	5.20576	
yhat	713	1.62890	1.00018	1161	-1.98710	3.14432	Predicted Value of new_y

Pearson Correlation Coefficients, N = 713
Prob > |r| under H0: Rho=0

	Insuicidesper100kpop	yhat
Insuicidesper100kpop	1.00000	0.72762 <.0001
yhat Predicted Value of new_y	0.72762 <.0001	1.00000

The SAS System

Obs	_TYPE_	_FREQ_	rmse	mae
1	0	713	0.95536	0.75161

Ram24

The REG Procedure
Model: MODEL1
Dependent Variable: Insuicidesper100kpop

Output Statistics

Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	95% CL Mean		95% CL Predict		Residual
1	.	1.6654	0.0985	1.4723	1.8584	-0.2427	3.5735	.
2	.	1.0360	0.0580	0.9222	1.1498	-0.8657	2.9377	.
3	1.50185	0.6619	0.0913	0.4829	0.8410	-1.2448	2.5687	0.8399
4	-0.86750	0.5568	0.0923	0.3757	0.7378	-1.3501	2.4637	-1.4243
5	1.59127	0.6637	0.0914	0.4846	0.8429	-1.2430	2.5705	0.9275
6	-0.54473	0.5885	0.0911	0.4098	0.7672	-1.3182	2.4951	-1.1332
7	2.25759	0.5353	0.0991	0.3410	0.7296	-1.3729	2.4435	1.7223
8	-0.56212	0.4382	0.1001	0.2420	0.6344	-1.4702	2.3466	-1.0003
9	0.01980	-1.5326	0.1481	-1.8230	-1.2422	-3.4530	0.3878	1.5524
10	-1.96611	-1.6302	0.1483	-1.9209	-1.3394	-3.5506	0.2903	-0.3360
11	1.33763	0.6643	0.0914	0.4851	0.8435	-1.2424	2.5710	0.6733
12	-0.96758	0.6306	0.0906	0.4529	0.8083	-1.2760	2.5372	-1.5982

Ram25

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
new_y	1654	1.64818	1.37880	2726	-3.21888	5.15825
population	2367	2569528	5210182	6082072935	1269	43805214
gdp_for_year_dollars	2367	7.26759E11	2.37846E12	1.72024E15	610930037	1.49644E13
dsex	2367	0.53274	0.49903	1261	0	1.00000
dgeneration3	2367	0.20279	0.40216	480.00000	0	1.00000
dgeneration4	2367	0.10731	0.30957	254.00000	0	1.00000
dage1	2367	0.17913	0.38354	424.00000	0	1.00000
dage5	2367	0.14364	0.35080	340.00000	0	1.00000
dcontinent1	2367	0.05027	0.21856	119.00000	0	1.00000
dcontinent2	2367	0.37305	0.48372	883.00000	0	1.00000
pop_gdp	2367	1.12064E19	5.91921E19	2.65256E22	7.7527E11	6.40453E20

Pearson Correlation Coefficients
Prob > |r| under H0: Rho=0
Number of Observations

	new_y	population	gdp_for_year_dollars	dsex	dgeneration3	dgeneration4	dage1	dage5	dcontinent1	dcontinent2	pop_gdp
new_y	1.00000 1654	-0.05576 0.0233 1654	0.04178 0.0894 1654	0.43910 <.0001 1654	-0.06635 0.0070 1654	-0.49042 <.0001 1654	0.02591 0.2922 1654	0.20085 <.0001 1654	-0.11763 <.0001 1654	-0.08531 0.0005 1654	0.03308 0.1787 1654
population	-0.05576 0.0233 1654	1.00000 2367	0.75394 <.0001 2367	-0.03718 0.0705 2367	0.00854 0.6779 2367	0.04803 0.0194 2367	-0.00280 0.8919 2367	-0.13796 <.0001 2367	-0.03041 0.1392 2367	-0.04687 0.0226 2367	0.79583 <.0001 2367
gdp_for_year_dollars	0.04178 0.0894 1654	0.75394 <.0001 2367	1.00000 2367	-0.01936 0.3463 2367	-0.00436 0.8321 2367	0.02627 0.2014 2367	-0.00878 0.6694 2367	0.01881 0.3604 2367	-0.05527 0.0072 2367	-0.06774 0.0010 2367	0.89186 <.0001 2367
dsex	0.43910 <.0001 1654	-0.03718 0.0705 2367	-0.01936 0.3463 2367	1.00000 2367	-0.00572 0.7809 2367	-0.00360 0.8610 2367	-0.00857 0.6767 2367	0.01658 0.4201 2367	0.00621 0.7625 2367	-0.00947 0.6450 2367	-0.01557 0.4489 2367
dgeneration3	-0.06635 0.0070 1654	0.00854 0.6779 2367	-0.00436 0.8321 2367	-0.00572 0.7809 2367	1.00000 2367	-0.17486 <.0001 2367	0.92622 <.0001 2367	-0.20656 <.0001 2367	-0.00544 0.7913 2367	0.00638 0.7563 2367	-0.01168 0.5701 2367
dgeneration4	-0.49042 <.0001 1654	0.04803 0.0194 2367	0.02627 0.2014 2367	-0.00360 0.8610 2367	-0.17486 <.0001 2367	1.00000 2367	-0.16196 <.0001 2367	-0.14200 <.0001 2367	-0.01730 0.4001 2367	-0.02471 0.2295 2367	0.00626 0.7610 2367
dage1	0.02591 0.2922 1654	-0.00280 0.8919 2367	-0.00878 0.6694 2367	-0.00857 0.6767 2367	0.92622 <.0001 2367	-0.16196 <.0001 2367	1.00000 2367	-0.19132 <.0001 2367	-0.00160 0.9382 2367	0.00872 0.6715 2367	-0.01357 0.5095 2367
dage5	0.20085 <.0001 1654	-0.13796 <.0001 2367	0.01881 0.3604 2367	0.01658 0.4201 2367	-0.20656 <.0001 2367	-0.14200 <.0001 2367	-0.19132 <.0001 2367	1.00000 2367	-0.01154 0.5747 2367	-0.00457 0.8241 2367	-0.04190 0.0415 2367
dcontinent1	-0.11763 <.0001 1654	-0.03041 0.1392 2367	-0.05527 0.0072 2367	0.00621 0.7625 2367	-0.00544 0.7913 2367	-0.01730 0.4001 2367	-0.00160 0.9382 2367	-0.01154 0.5747 2367	1.00000 2367	-0.17748 <.0001 2367	-0.04137 0.0442 2367
dcontinent2	-0.08531 0.0005 1654	-0.04687 0.0226 2367	-0.06774 0.0010 2367	-0.00947 0.6450 2367	0.00638 0.7563 2367	-0.02471 0.2295 2367	0.00872 0.6715 2367	-0.00457 0.8241 2367	-0.17748 <.0001 2367	1.00000 2367	-0.09388 <.0001 2367
pop_gdp	0.03308 0.1787 1654	0.79583 <.0001 2367	0.89186 <.0001 2367	-0.01557 0.4489 2367	-0.01168 0.5701 2367	0.00626 0.7610 2367	-0.01357 0.5095 2367	-0.04190 0.0415 2367	-0.04137 0.0442 2367	-0.09388 <.0001 2367	1.00000 2367

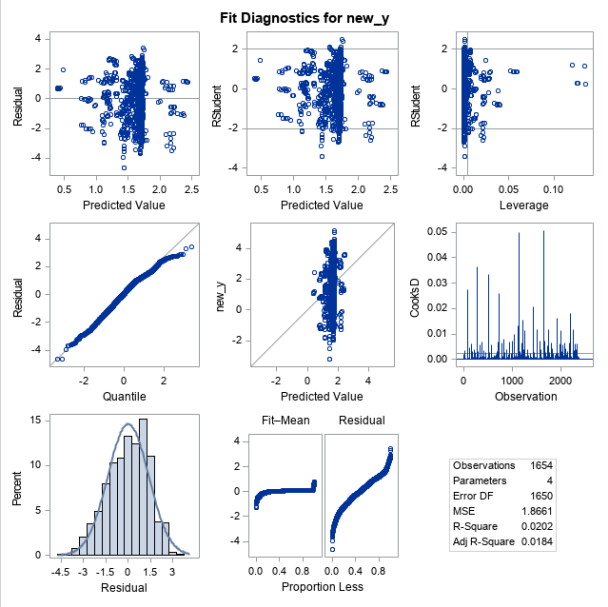
Ram26

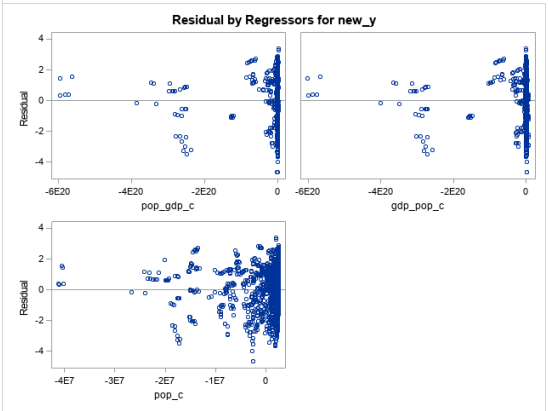
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	63.48780	21.16260	11.34	<.0001
Error	1650	3079.01644	1.86607		
Corrected Total	1653	3142.50424			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	1.61545	0.03618	3720.56284	1993.80	<.0001
gdp_pop_c	-2.4786E-20	1.09432E-20	9.57316	5.13	0.0236
pop_gdp_c	2.17877E-20	1.20045E-20	6.14696	3.29	0.0697
pop_c	4.313237E-8	1.222008E-8	23.24804	12.46	0.0004

Summary of Stepwise Selection								
Step	Variable Entered	Variable Removed	Number Vars In	Partial R-Square	Model R-Square	C(p)	F Value	Pr > F
1	pop_c		1	0.0031	0.0031	28.7857	5.15	0.0233
2	gdp_pop_c		2	0.0151	0.0182	5.2941	25.46	<.0001
3	pop_gdp_c		3	0.0020	0.0202	4.0000	3.29	0.0697

Ram27





Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	63.48780	21.16260	11.34	<.0001
Error	1650	3079.01644	1.86607		
Corrected Total	1653	3142.50424			

Root MSE	1.36604	R-Square	0.0202
Dependent Mean	1.64818	Adj R-Sq	0.0184
Coeff Var	82.88173		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	1.61545	0.03618	44.65	<.0001
pop_gdp_c	1	2.17877E-20	1.20045E-20	1.81	0.0697
gdp_pop_c	1	-2.4786E-20	1.09432E-20	-2.26	0.0236
pop_c	1	4.313237E-8	1.222008E-8	3.53	0.0004