DATA ANALYSIS

NEW FILE.

DATASET NAME DataSet2 WINDOW=FRONT.

GET

STATA FILE='E:\DATA SCIENCE JOBS\Bond Analysis\bond repurchased .dta'.

DATASET NAME DataSet3 WINDOW=FRONT.

CODEBOOK reason1 [n] reason2 [n] reason3 [n] reason4 [n] reason5 [n] reason6 [n] funding1 [n]

funding2 [n] funding3 [n] funding4 [n] funding5 [n] funding6 [n] tender [n] ratings [n]

/VARINFO POSITION LABEL TYPE FORMAT MEASURE ROLE VALUELABELS MISSING ATTRIBUTES

/OPTIONS VARORDER=VARLIST SORT=ASCENDING MAXCATS=200

/STATISTICS COUNT PERCENT MEAN STDDEV QUARTILES.

**Codebook**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 30-JUL-2021 18:14:06 |
| Comments | |  |
| Input | Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 1927 |
| Syntax | | CODEBOOK reason1 [n] reason2 [n] reason3 [n] reason4 [n] reason5 [n] reason6 [n] funding1 [n]  funding2 [n] funding3 [n] funding4 [n] funding5 [n] funding6 [n] tender [n] ratings [n]  /VARINFO POSITION LABEL TYPE FORMAT MEASURE ROLE VALUELABELS MISSING ATTRIBUTES  /OPTIONS VARORDER=VARLIST SORT=ASCENDING MAXCATS=200  /STATISTICS COUNT PERCENT MEAN STDDEV QUARTILES. |
| Resources | Processor Time | 00:00:00.02 |
| Elapsed Time | 00:00:00.10 |

[DataSet3]

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| --- | --- | --- | --- | --- |
| **reason1** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 15 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1254 | 65.1% |
| 1 |  | 673 | 34.9% |

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| --- | --- | --- | --- | --- |
| **reason2** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 16 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1699 | 88.2% |
| 1 |  | 228 | 11.8% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **reason3** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 17 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1822 | 94.6% |
| 1 |  | 105 | 5.4% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **reason4** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 18 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1858 | 96.4% |
| 1 |  | 69 | 3.6% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **reason5** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 19 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1883 | 97.7% |
| 1 |  | 44 | 2.3% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **reason6** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 20 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1657 | 86.0% |
| 1 |  | 270 | 14.0% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **funding1** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 21 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1385 | 71.9% |
| 1 |  | 542 | 28.1% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **funding2** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 22 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1538 | 79.8% |
| 1 |  | 389 | 20.2% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **funding3** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 23 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1716 | 89.1% |
| 1 |  | 211 | 10.9% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **funding4** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 24 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1819 | 94.4% |
| 1 |  | 108 | 5.6% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **funding5** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 25 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1864 | 96.7% |
| 1 |  | 63 | 3.3% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **funding6** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 26 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 1896 | 98.4% |
| 1 |  | 31 | 1.6% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tender** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 27 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F1 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 0 |  | 792 | 41.1% |
| 1 |  | 1135 | 58.9% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ratings** | | | | |
|  | | Value | Count | Percent |
| Standard Attributes | Position | 28 |  |  |
| Label | <none> |  |  |
| Type | Numeric |  |  |
| Format | F2 |  |  |
| Measurement | Nominal |  |  |
| Role | Input |  |  |
| Valid Values | 3 |  | 6 | 0.3% |
| 5 |  | 6 | 0.3% |
| 6 |  | 19 | 1.0% |
| 7 |  | 27 | 1.4% |
| 8 |  | 42 | 2.2% |
| 9 |  | 150 | 7.8% |
| 10 |  | 19 | 1.0% |
| 11 |  | 18 | 0.9% |
| 12 |  | 23 | 1.2% |
| 13 |  | 13 | 0.7% |
| 14 |  | 1 | 0.1% |
| 15 |  | 1 | 0.1% |
| 16 |  | 1 | 0.1% |
| 17 |  | 97 | 5.0% |
| 18 |  | 137 | 7.1% |
| Missing Values | System |  | 1367 | 70.9% |

BAYES INDEPENDENT

/MISSING SCOPE=ANALYSIS

/CRITERIA CILEVEL=95 TOL=0.000001 MAXITER=2000

/INFERENCE DISTRIBUTION=NORMAL VARIABLES=funding1 funding2 funding3 funding4 funding5 funding6

ANALYSIS=POSTERIOR GROUP=maturity SELECT=MIDPOINT

/PRIOR EQUALDATAVAR=FALSE VARDIST=DIFFUSE.

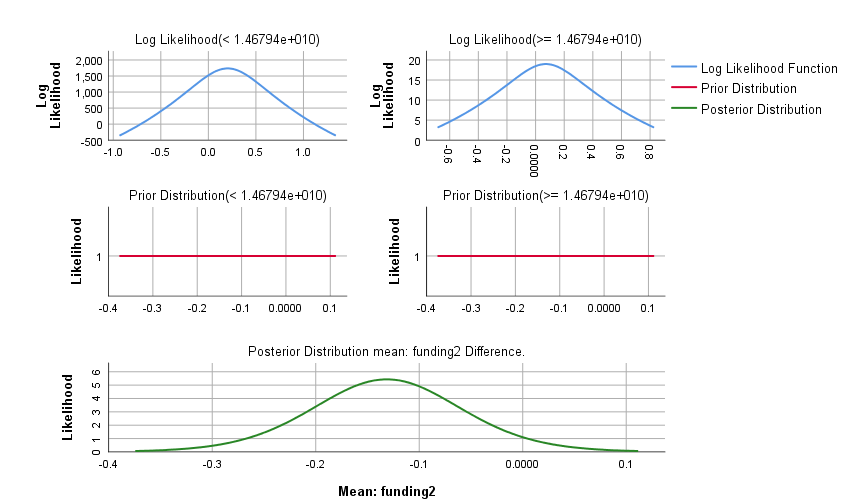
**Bayesian Independent**

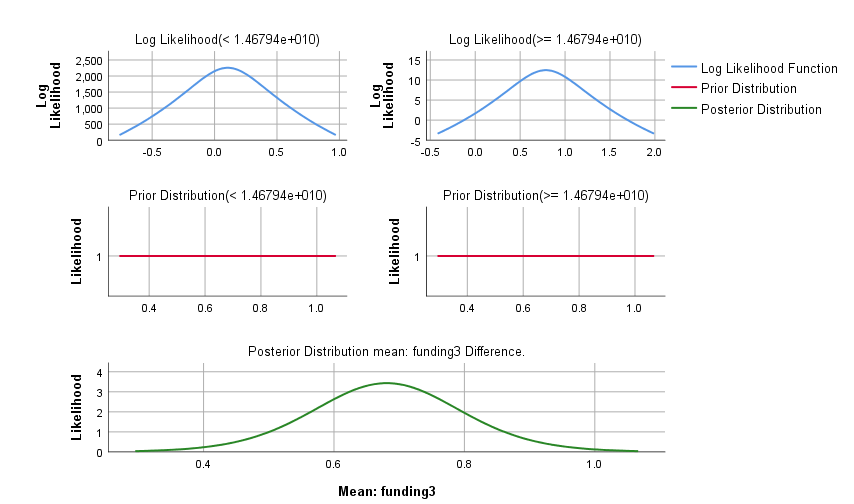
|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 30-JUL-2021 18:17:57 |
| Comments | |  |
| Input | Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 1927 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Each statistic is based on all valid data for the analysis variable(s) used in computing the statistic. |
| Weight Handling | | not applicable |
| Syntax | | BAYES INDEPENDENT  /MISSING SCOPE=ANALYSIS  /CRITERIA CILEVEL=95 TOL=0.000001 MAXITER=2000  /INFERENCE DISTRIBUTION=NORMAL VARIABLES=funding1 funding2 funding3 funding4 funding5 funding6  ANALYSIS=POSTERIOR GROUP=maturity SELECT=MIDPOINT  /PRIOR EQUALDATAVAR=FALSE VARDIST=DIFFUSE. |
| Resources | Processor Time | 00:00:00.50 |
| Elapsed Time | 00:00:01.82 |

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| **Warnings** |
| At least one of the testing groups are constant. No outputs are generated. |
| At least one of the testing groups are constant. No outputs are generated. |
| At least one of the testing groups are constant. No outputs are generated. |
| At least one of the testing groups are constant. No outputs are generated. |

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| **Group Statistics** | | | | | |
|  | maturity | N | Mean | Std. Deviation | Std. Error Mean |
| funding1 | < 16-Dec-2047 | 1908 | .28 | .451 | .010 |
| >= 16-Dec-2047 | 14 | .00 | .000 | .000 |
| funding2 | < 16-Dec-2047 | 1908 | .20 | .402 | .009 |
| >= 16-Dec-2047 | 14 | .07 | .267 | .071 |
| funding3 | < 16-Dec-2047 | 1908 | .10 | .306 | .007 |
| >= 16-Dec-2047 | 14 | .79 | .426 | .114 |
| funding4 | < 16-Dec-2047 | 1908 | .06 | .231 | .005 |
| >= 16-Dec-2047 | 14 | .00 | .000 | .000 |
| funding5 | < 16-Dec-2047 | 1908 | .03 | .179 | .004 |
| >= 16-Dec-2047 | 14 | .00 | .000 | .000 |
| funding6 | < 16-Dec-2047 | 1908 | .02 | .126 | .003 |
| >= 16-Dec-2047 | 14 | .00 | .000 | .000 |

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| **Posterior Distribution Characterization for Independent Sample Meana** | | | | | |
|  | Posterior | | | 95% Credible Interval | |
| Mode | Mean | Variance | Lower Bound | Upper Bound |
| funding1 | . | . | . | . | . |
| funding2 | -.13 | -.13 | .006 | -.29 | .02 |
| funding3 | .68 | .68 | .015 | .43 | .93 |
| funding4 | . | . | . | . | . |
| funding5 | . | . | . | . | . |
| funding6 | . | . | . | . | . |
| a. Prior for Variance: Diffuse. Prior for Mean: Diffuse. | | | | | |





GLM reason1 reason2 reason3 reason4 reason5 reason6 funding1 funding2 funding3 funding4 funding5

funding6 BY ACTION\_TYPE ANNOUNCEMENT\_DATE ACTION\_PRICE ACTION\_AMOUNT AMOUNT\_OUTSTANDING ISSUER\_ID

ISSUER\_CUSIP ISSUE\_CUSIP WITH tender ratings coupon

/REGWGT=maturity

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(.05)

/DESIGN=tender ratings coupon ACTION\_TYPE ANNOUNCEMENT\_DATE ACTION\_PRICE ACTION\_AMOUNT

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**General Linear Model**

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| --- | --- | --- |
| **Notes** | | |
| Output Created | | 30-JUL-2021 18:20:53 |
| Comments | |  |
| Input | Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 1927 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics are based on all cases with valid data for all variables in the model. |
| Syntax | | GLM reason1 reason2 reason3 reason4 reason5 reason6 funding1 funding2 funding3 funding4 funding5  funding6 BY ACTION\_TYPE ANNOUNCEMENT\_DATE ACTION\_PRICE ACTION\_AMOUNT AMOUNT\_OUTSTANDING ISSUER\_ID  ISSUER\_CUSIP ISSUE\_CUSIP WITH tender ratings coupon  /REGWGT=maturity  /METHOD=SSTYPE(3)  /INTERCEPT=INCLUDE  /CRITERIA=ALPHA(.05)  /DESIGN=tender ratings coupon ACTION\_TYPE ANNOUNCEMENT\_DATE ACTION\_PRICE ACTION\_AMOUNT  AMOUNT\_OUTSTANDING ISSUER\_ID ISSUER\_CUSIP ISSUE\_CUSIP ACTION\_TYPE\*ANNOUNCEMENT\_DATE  ACTION\_TYPE\*ACTION\_PRICE ACTION\_TYPE\*ACTION\_AMOUNT ACTION\_TYPE\*AMOUNT\_OUTSTANDING  ACTION\_TYPE\*ISSUER\_ID ACTION\_TYPE\*ISSUER\_CUSIP ACTION\_TYPE\*ISSUE\_CUSIP  ANNOUNCEMENT\_DATE\*ACTION\_PRICE ANNOUNCEMENT\_DATE\*ACTION\_AMOUNT ANNOUNCEMENT\_DATE\*AMOUNT\_OUTSTANDING  ANNOUNCEMENT\_DATE\*ISSUER\_ID ANNOUNCEMENT\_DATE\*ISSUER\_CUSIP ANNOUNCEMENT\_DATE\*ISSUE\_CUSIP  ACTION\_PRICE\*ACTION\_AMOUNT ACTION\_PRICE\*AMOUNT\_OUTSTANDING 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ACTION\_TYPE\*ANNOUNCEMENT\_DATE\*ACTION\_PRICE\*ACTION\_AMOUNT\*AMOUNT\_OUTSTANDING\*ISSUER\_ID\*  ISSUER\_CUSIP\*ISSUE\_CUSIP. |
| Resources | Processor Time | 00:00:00.22 |
| Elapsed Time | 00:00:00.28 |

|  |
| --- |
| **Warnings** |
| The large number of columns in the design matrix will cause integer overflow. The large number of columns may be due to too many levels in one or more factors, or to higher-order interactions among factors with many levels. It may also be due to too many factors. |
| Execution of this command stops. |

GLM funding1 funding2 funding3 funding4 funding5 funding6 BY reason1 reason2 reason3 reason4

reason5 reason6 WITH ratings

/REGWGT=tender

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(.05)

/DESIGN=reason1\*reason2\*reason3\*reason4.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 30-JUL-2021 18:23:18 |
| Comments | |  |
| Input | Active Dataset | DataSet3 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 1927 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics are based on all cases with valid data for all variables in the model. |
| Syntax | | GLM funding1 funding2 funding3 funding4 funding5 funding6 BY reason1 reason2 reason3 reason4  reason5 reason6 WITH ratings  /REGWGT=tender  /METHOD=SSTYPE(3)  /INTERCEPT=INCLUDE  /CRITERIA=ALPHA(.05)  /DESIGN=reason1\*reason2\*reason3\*reason4. |
| Resources | Processor Time | 00:00:00.03 |
| Elapsed Time | 00:00:00.10 |

|  |
| --- |
| **Warnings** |
| The following factors or covariates are not used in the model: reason5, reason6, ratings |

|  |  |  |
| --- | --- | --- |
| **Between-Subjects Factors** | | |
|  | | N |
| reason1 | 0 | 125 |
| 1 | 360 |
| reason2 | 0 | 456 |
| 1 | 29 |
| reason3 | 0 | 482 |
| 1 | 3 |
| reason4 | 0 | 479 |
| 1 | 6 |
| reason5 | 0 | 483 |
| 1 | 2 |
| reason6 | 0 | 417 |
| 1 | 68 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa,b** | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |
| Intercept | Pillai's Trace | .515 | 101.095c | 5.000 | 476.000 | .000 |
| Wilks' Lambda | .485 | 101.095c | 5.000 | 476.000 | .000 |
| Hotelling's Trace | 1.062 | 101.095c | 5.000 | 476.000 | .000 |
| Roy's Largest Root | 1.062 | 101.095c | 5.000 | 476.000 | .000 |
| reason1 \* reason2 \* reason3 \* reason4 | Pillai's Trace | 1.225 | 42.291 | 20.000 | 1916.000 | .000 |
| Wilks' Lambda | .182 | 52.968 | 20.000 | 1579.663 | .000 |
| Hotelling's Trace | 2.518 | 59.740 | 20.000 | 1898.000 | .000 |
| Roy's Largest Root | 1.469 | 140.776d | 5.000 | 479.000 | .000 |
| a. Design: Intercept + reason1 \* reason2 \* reason3 \* reason4 | | | | | | |
| b. Weighted Least Squares Regression - Weighted by tender | | | | | | |
| c. Exact statistic | | | | | | |
| d. The statistic is an upper bound on F that yields a lower bound on the significance level. | | | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tests of Between-Subjects Effectsa** | | | | | | |
| Source | Dependent Variable | Type III Sum of Squares | df | Mean Square | F | Sig. |
| Corrected Model | funding1 | 8.250b | 4 | 2.063 | 9.207 | .000 |
| funding2 | 7.899c | 4 | 1.975 | 48.940 | .000 |
| funding3 | 19.491d | 4 | 4.873 | 26.170 | .000 |
| funding4 | 4.173e | 4 | 1.043 | 35.563 | .000 |
| funding5 | 16.639f | 4 | 4.160 | 91.909 | .000 |
| funding6 | .000g | 4 | .000 | . | . |
| Intercept | funding1 | 2.200 | 1 | 2.200 | 9.822 | .002 |
| funding2 | .788 | 1 | .788 | 19.529 | .000 |
| funding3 | .383 | 1 | .383 | 2.056 | .152 |
| funding4 | 1.937 | 1 | 1.937 | 66.017 | .000 |
| funding5 | .425 | 1 | .425 | 9.384 | .002 |
| funding6 | .000 | 1 | .000 | . | . |
| reason1 \* reason2 \* reason3 \* reason4 | funding1 | 8.250 | 4 | 2.063 | 9.207 | .000 |
| funding2 | 7.899 | 4 | 1.975 | 48.940 | .000 |
| funding3 | 19.491 | 4 | 4.873 | 26.170 | .000 |
| funding4 | 4.173 | 4 | 1.043 | 35.563 | .000 |
| funding5 | 16.639 | 4 | 4.160 | 91.909 | .000 |
| funding6 | .000 | 4 | .000 | . | . |
| Error | funding1 | 107.531 | 480 | .224 |  |  |
| funding2 | 19.367 | 480 | .040 |  |  |
| funding3 | 89.375 | 480 | .186 |  |  |
| funding4 | 14.082 | 480 | .029 |  |  |
| funding5 | 21.724 | 480 | .045 |  |  |
| funding6 | .000 | 480 | .000 |  |  |
| Total | funding1 | 191.000 | 485 |  |  |  |
| funding2 | 29.000 | 485 |  |  |  |
| funding3 | 165.000 | 485 |  |  |  |
| funding4 | 19.000 | 485 |  |  |  |
| funding5 | 42.000 | 485 |  |  |  |
| funding6 | .000 | 485 |  |  |  |
| Corrected Total | funding1 | 115.781 | 484 |  |  |  |
| funding2 | 27.266 | 484 |  |  |  |
| funding3 | 108.866 | 484 |  |  |  |
| funding4 | 18.256 | 484 |  |  |  |
| funding5 | 38.363 | 484 |  |  |  |
| funding6 | .000 | 484 |  |  |  |
| a. Weighted Least Squares Regression - Weighted by tender | | | | | | |
| b. R Squared = .071 (Adjusted R Squared = .064) | | | | | | |
| c. R Squared = .290 (Adjusted R Squared = .284) | | | | | | |
| d. R Squared = .179 (Adjusted R Squared = .172) | | | | | | |
| e. R Squared = .229 (Adjusted R Squared = .222) | | | | | | |
| f. R Squared = .434 (Adjusted R Squared = .429) | | | | | | |
| g. R Squared = . (Adjusted R Squared = .) | | | | | | |