

```

DATASET ACTIVATE DataSet1.
COMPUTE X = y.
COMPUTE yy_p = -14 + 1.21 * X.
COMPUTE yy = RV.NORMAL(yy_p , 1).
COMPUTE yb = (yy >0).
COMPUTE yb_L = (RV.NORMAL(yy_p, 3.14159/sqrt(3))>0).
COMPUTE yy_L = RV.LOGISTIC(yy_p, 1).
COMPUTE yy_Lb = (yy_L >0).
EXECUTE.
* Generalized Linear Models.
GENLIN yb (REFERENCE=FIRST) WITH X
  /MODEL X INTERCEPT=YES
  DISTRIBUTION=BINOMIAL LINK=PROBIT
  /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5
  PCONVERGE=1E-006(ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95
  CITYPE=WALD
  LIKELIHOOD=FULL
  /MISSING CLASSMISSING=EXCLUDE
  /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.

```

## Generalized Linear Models

### Notes

<b>Output Created</b>		<b>04-JAN-2019 10:17:59</b>
<b>Comments</b>		
<b>Input</b>	<b>Data</b>	<b>/Users/llf/Desktop/11.Liu_Meng2003.long2wide2long.sav</b>
	<b>Active Dataset</b>	<b>DataSet1</b>
	<b>Filter</b>	<b>&lt;none&gt;</b>
	<b>Weight</b>	<b>&lt;none&gt;</b>
	<b>Split File</b>	<b>&lt;none&gt;</b>
	<b>N of Rows in Working Data File</b>	<b>1000</b>
<b>Missing Value Handling</b>	<b>Definition of Missing</b>	<b>User-defined missing values for factor, subject and within-subject variables are treated as missing.</b>
	<b>Cases Used</b>	<b>Statistics are based on cases with valid data for all variables in the model.</b>
<b>Weight Handling</b>		<b>not applicable</b>

## Notes

<p><b>Syntax</b></p>	<pre> GENLIN yb (REference=FIRST) WITH X /Model X INTERCEPT=YES  DISTRIBUTION=BINOMIAL LINK=PROBIT /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5 PCONVERGE=1E-006 (ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95 CITYPE=WALD LIKELIHOOD=FULL /MISSING CLASSMISSING=EXCLUDE /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION. </pre>
<p><b>Resources</b></p>	<p><b>Processor Time</b> 00:00:00.11  <b>Elapsed Time</b> 00:00:00.00</p>

[DataSet1] /Users/llf/Desktop/11.Liu\_Meng2003.long2wide2long.sav

## Model Information

<b>Dependent Variable</b>	yb <sup>a</sup>
<b>Probability Distribution</b>	Binomial
<b>Link Function</b>	Probit

a. The procedure models 1.00 as the response, treating .00 as the reference category.

## Case Processing Summary

	N	Percent
<b>Included</b>	1000	100.0%
<b>Excluded</b>	0	0.0%
<b>Total</b>	1000	100.0%

#### Categorical Variable Information

			N	Percent
Dependent Variable	yb	.00	482	48.2%
		1.00	518	51.8%
	Total		1000	100.0%

#### Continuous Variable Information

		N	Minimum	Maximum	Mean	Std. Deviation
Covariate	X	1000	-3.61	41.12	12.5797	5.81256

#### Goodness of Fit<sup>a</sup>

	Value	df	Value/df
Deviance	212.958	998	.213
Scaled Deviance	212.958	998	
Pearson Chi-Square	284.172	998	.285
Scaled Pearson Chi-Square	284.172	998	
Log Likelihood <sup>b</sup>	-106.479		
Akaike's Information Criterion (AIC)	216.958		
Finite Sample Corrected AIC (AICC)	216.970		
Bayesian Information Criterion (BIC)	226.774		
Consistent AIC (CAIC)	228.774		

Dependent Variable: yb

Model: (Intercept), X

a. Information criteria are in smaller-is-better form.

b. The full log likelihood function is displayed and used in computing information criteria.

#### Omnibus Test<sup>a</sup>

Likelihood Ratio Chi-Square	df	Sig.
1172.040	1	.000

Dependent Variable: yb

Model: (Intercept), X

a. Compares the fitted model against the intercept-only model.

### Tests of Model Effects

Source	Type III		
	Wald Chi-Square	df	Sig.
(Intercept)	135.667	1	.000
X	136.482	1	.000

Dependent Variable: yb

Model: (Intercept), X

### Parameter Estimates

Parameter	B	Std. Error	95% Wald Confidence Interval		Hypothesis Test	
			Lower	Upper	Wald Chi-Square	df
(Intercept)	-14.206	1.2197	-16.597	-11.816	135.667	1
X	1.224	.1048	1.018	1.429	136.482	1
(Scale)	1 <sup>a</sup>					

### Parameter Estimates

Parameter	Hypothesis
	Sig.
(Intercept)	.000
X	.000
(Scale)	

Dependent Variable: yb

Model: (Intercept), X

a. Fixed at the displayed value.

```
* Generalized Linear Models.
GENLIN yb (REFERENCE=FIRST) WITH X
  /MODEL X INTERCEPT=YES
  DISTRIBUTION=BINOMIAL LINK=LOGIT
  /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5
  PCONVERGE=1E-006(ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95
  CITYPE=WALD
  LIKELIHOOD=FULL
  /MISSING CLASSMISSING=EXCLUDE
  /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
```

## Generalized Linear Models

# Notes

Output Created		04-JAN-2019 10:20:19
Comments		
Input	Data	/Users/Ilf/Desktop/11. Liu_Meng2003. long2wide2long.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1000
Missing Value Handling	Definition of Missing	User-defined missing values for factor, subject and within- subject variables are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables in the model.
Weight Handling		not applicable
Syntax		GENLIN yb (REFERENCE=FIRST) WITH X /MODEL X INTERCEPT=YES  DISTRIBUTION=BINOMIA L LINK=LOGIT /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5 PCONVERGE=1E-006 (ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95 CITYPE=WALD LIKELIHOOD=FULL /MISSING CLASSMISSING=EXCLUD E /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
Resources	Processor Time	00:00:00.10
	Elapsed Time	00:00:00.00

### Model Information

Dependent Variable	yb <sup>a</sup>
Probability Distribution	Binomial
Link Function	Logit

a. The procedure models 1.00 as the response, treating .00 as the reference category.

### Case Processing Summary

	N	Percent
Included	1000	100.0%
Excluded	0	0.0%
Total	1000	100.0%

### Categorical Variable Information

			N	Percent
Dependent Variable	yb	.00	482	48.2%
		1.00	518	51.8%
		Total	1000	100.0%

### Continuous Variable Information

	N	Minimum	Maximum	Mean	Std. Deviation
Covariate X	1000	-3.61	41.12	12.5797	5.81256

**Goodness of Fit<sup>a</sup>**

	Value	df	Value/df
Deviance	214.426	998	.215
Scaled Deviance	214.426	998	
Pearson Chi-Square	293.743	998	.294
Scaled Pearson Chi-Square	293.743	998	
Log Likelihood <sup>b</sup>	-107.213		
Akaike's Information Criterion (AIC)	218.426		
Finite Sample Corrected AIC (AICC)	218.438		
Bayesian Information Criterion (BIC)	228.241		
Consistent AIC (CAIC)	230.241		

Dependent Variable: yb

Model: (Intercept), X

a. Information criteria are in smaller-is-better form.

b. The full log likelihood function is displayed and used in computing information criteria.

**Omnibus Test<sup>a</sup>**

Likelihood Ratio Chi-Square	df	Sig.
1170.572	1	.000

Dependent Variable: yb

Model: (Intercept), X

a. Compares the fitted model against the intercept-only model.

**Tests of Model Effects**

Source	Type III		
	Wald Chi-Square	df	Sig.
(Intercept)	111.779	1	.000
X	112.173	1	.000

Dependent Variable: yb

Model: (Intercept), X

### Parameter Estimates

Parameter	B	Std. Error	95% Wald Confidence Interval		Hypothesis Test	
			Lower	Upper	Wald Chi-Square	df
(Intercept)	-25.542	2.4159	-30.277	-20.807	111.779	1
X (Scale)	2.201 1 <sup>a</sup>	.2078	1.794	2.609	112.173	1

### Parameter Estimates

Parameter	Hypothesis
	Sig.
(Intercept)	.000
X (Scale)	.000

Dependent Variable: yb

Model: (Intercept), X

a. Fixed at the displayed value.

```
* Generalized Linear Models.
GENLIN yb_L (REFERENCE=FIRST) WITH X
  /MODEL X INTERCEPT=YES
  DISTRIBUTION=BINOMIAL LINK=PROBIT
  /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5
  PCONVERGE=1E-006(ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95
  CITYPE=WALD
  LIKELIHOOD=FULL
  /MISSING CLASSMISSING=EXCLUDE
  /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
```

## Generalized Linear Models



## Notes

Output Created		04-JAN-2019 10:21:50
Comments		
Input	Data	/Users/Ilf/Desktop/11. Liu_Meng2003. long2wide2long.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1000
Missing Value Handling	Definition of Missing	User-defined missing values for factor, subject and within- subject variables are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables in the model.
Weight Handling		not applicable
Syntax		GENLIN yb_L (REFERENCE=FIRST) WITH X /MODEL X INTERCEPT=YES  DISTRIBUTION=BINOMIA L LINK=PROBIT /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5 PCONVERGE=1E-006 (ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95 CITYPE=WALD LIKELIHOOD=FULL /MISSING CLASSMISSING=EXCLUD E /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
Resources	Processor Time	00:00:00.11
	Elapsed Time	00:00:00.00

#### Model Information

Dependent Variable	yb_L <sup>a</sup>
Probability Distribution	Binomial
Link Function	Probit

a. The procedure models 1.00 as the response, treating .00 as the reference category.

#### Case Processing Summary

	N	Percent
Included	1000	100.0%
Excluded	0	0.0%
Total	1000	100.0%

#### Categorical Variable Information

		N	Percent
Dependent Variable	yb_L .00	476	47.6%
	1.00	524	52.4%
	Total	1000	100.0%

#### Continuous Variable Information

	N	Minimum	Maximum	Mean	Std. Deviation
Covariate X	1000	-3.61	41.12	12.5797	5.81256

**Goodness of Fit<sup>a</sup>**

	Value	df	Value/df
Deviance	395.848	998	.397
Scaled Deviance	395.848	998	
Pearson Chi-Square	564.934	998	.566
Scaled Pearson Chi-Square	564.934	998	
Log Likelihood <sup>b</sup>	-197.924		
Akaike's Information Criterion (AIC)	399.848		
Finite Sample Corrected AIC (AICC)	399.860		
Bayesian Information Criterion (BIC)	409.663		
Consistent AIC (CAIC)	411.663		

Dependent Variable: yb\_L

Model: (Intercept), X

a. Information criteria are in smaller-is-better form.

b. The full log likelihood function is displayed and used in computing information criteria.

**Omnibus Test<sup>a</sup>**

Likelihood Ratio Chi-Square	df	Sig.
988.142	1	.000

Dependent Variable: yb\_L

Model: (Intercept), X

a. Compares the fitted model against the intercept-only model.

**Tests of Model Effects**

Source	Type III		
	Wald Chi-Square	df	Sig.
(Intercept)	229.886	1	.000
X	229.993	1	.000

Dependent Variable: yb\_L

Model: (Intercept), X

### Parameter Estimates

Parameter	B	Std. Error	95% Wald Confidence Interval		Hypothesis Test	
			Lower	Upper	Wald Chi-Square	df
(Intercept)	-7.645	.5042	-8.633	-6.657	229.886	1
X (Scale)	.663 1 <sup>a</sup>	.0437	.577	.749	229.993	1

### Parameter Estimates

Parameter	Hypothesis
	Sig.
(Intercept)	.000
X (Scale)	.000

Dependent Variable: yb\_L

Model: (Intercept), X

a. Fixed at the displayed value.

```
* Generalized Linear Models.
GENLIN yb_L (REFERENCE=FIRST) WITH X
  /MODEL X INTERCEPT=YES
  DISTRIBUTION=BINOMIAL LINK=LOGIT
  /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5
  PCONVERGE=1E-006(ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95
  CITYPE=WALD
  LIKELIHOOD=FULL
  /MISSING CLASSMISSING=EXCLUDE
  /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
```

## Generalized Linear Models

# Notes

Output Created		04-JAN-2019 10:22:49
Comments		
Input	Data	/Users/Ilf/Desktop/11. Liu_Meng2003. long2wide2long.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1000
Missing Value Handling	Definition of Missing	User-defined missing values for factor, subject and within- subject variables are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables in the model.
Weight Handling		not applicable
Syntax		GENLIN yb_L (REFERENCE=FIRST) WITH X /MODEL X INTERCEPT=YES  DISTRIBUTION=BINOMIA L LINK=LOGIT /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5 PCONVERGE=1E-006 (ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95 CITYPE=WALD LIKELIHOOD=FULL /MISSING CLASSMISSING=EXCLUD E /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
Resources	Processor Time	00:00:00.11
	Elapsed Time	00:00:01.00

### Model Information

Dependent Variable	yb_L <sup>a</sup>
Probability Distribution	Binomial
Link Function	Logit

a. The procedure models 1.00 as the response, treating .00 as the reference category.

### Case Processing Summary

	N	Percent
Included	1000	100.0%
Excluded	0	0.0%
Total	1000	100.0%

### Categorical Variable Information

		N	Percent
Dependent Variable	yb_L .00	476	47.6%
	1.00	524	52.4%
	Total	1000	100.0%

### Continuous Variable Information

	N	Minimum	Maximum	Mean	Std. Deviation
Covariate X	1000	-3.61	41.12	12.5797	5.81256

**Goodness of Fit<sup>a</sup>**

	Value	df	Value/df
Deviance	396.682	998	.397
Scaled Deviance	396.682	998	
Pearson Chi-Square	558.007	998	.559
Scaled Pearson Chi-Square	558.007	998	
Log Likelihood <sup>b</sup>	-198.341		
Akaike's Information Criterion (AIC)	400.682		
Finite Sample Corrected AIC (AICC)	400.694		
Bayesian Information Criterion (BIC)	410.497		
Consistent AIC (CAIC)	412.497		

Dependent Variable: yb\_L

Model: (Intercept), X

a. Information criteria are in smaller-is-better form.

b. The full log likelihood function is displayed and used in computing information criteria.

**Omnibus Test<sup>a</sup>**

Likelihood Ratio Chi-Square	df	Sig.
987.308	1	.000

Dependent Variable: yb\_L

Model: (Intercept), X

a. Compares the fitted model against the intercept-only model.

**Tests of Model Effects**

Source	Type III		
	Wald Chi-Square	df	Sig.
(Intercept)	184.374	1	.000
X	185.154	1	.000

Dependent Variable: yb\_L

Model: (Intercept), X

### Parameter Estimates

Parameter	B	Std. Error	95% Wald Confidence Interval		Hypothesis Test	
			Lower	Upper	Wald Chi-Square	df
(Intercept)	-13.741	1.0120	-15.724	-11.758	184.374	1
X (Scale)	1.190 1 <sup>a</sup>	.0875	1.019	1.362	185.154	1

### Parameter Estimates

Parameter	Hypothesis
	Sig.
(Intercept)	.000
X (Scale)	.000

Dependent Variable: yb\_L

Model: (Intercept), X

a. Fixed at the displayed value.

```
* Generalized Linear Models.
GENLIN yy_Lb (REFERENCE=FIRST) WITH X
  /MODEL X INTERCEPT=YES
  DISTRIBUTION=BINOMIAL LINK=PROBIT
  /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5
  PCONVERGE=1E-006(ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95
  CITYPE=WALD
  LIKELIHOOD=FULL
  /MISSING CLASSMISSING=EXCLUDE
  /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
```

## Generalized Linear Models



## Notes

Output Created		04-JAN-2019 10:24:26
Comments		
Input	Data	/Users/Ilf/Desktop/11. Liu_Meng2003. long2wide2long.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1000
Missing Value Handling	Definition of Missing	User-defined missing values for factor, subject and within- subject variables are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables in the model.
Weight Handling		not applicable
Syntax		GENLIN yy_Lb (REFERENCE=FIRST) WITH X /MODEL X INTERCEPT=YES  DISTRIBUTION=BINOMIA L LINK=PROBIT /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5 PCONVERGE=1E-006 (ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95 CITYPE=WALD LIKELIHOOD=FULL /MISSING CLASSMISSING=EXCLUD E /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
Resources	Processor Time	00:00:00.11
	Elapsed Time	00:00:00.00

### Warnings

The maximum number of step-halvings was reached but the log-likelihood value cannot be further improved. Output for the last iteration is displayed.

The GENLIN procedure continues despite the above warning(s). Subsequent results shown are based on the last iteration. Validity of the model fit is uncertain.

### Model Information

Dependent Variable	yy_Lb <sup>a</sup>
Probability Distribution	Binomial
Link Function	Probit

a. The procedure models 1.00 as the response, treating .00 as the reference category.

### Case Processing Summary

	N	Percent
Included	1000	100.0%
Excluded	0	0.0%
Total	1000	100.0%

### Categorical Variable Information

			N	Percent
Dependent Variable	yy_Lb	.00	477	47.7%
		1.00	523	52.3%
	Total		1000	100.0%

### Continuous Variable Information

		N	Minimum	Maximum	Mean	Std. Deviation
Covariate	X	1000	-3.61	41.12	12.5797	5.81256

**Goodness of Fit<sup>a</sup>**

	Value	df	Value/df
Deviance	347.338	998	.348
Scaled Deviance	347.338	998	
Pearson Chi-Square	883.835	998	.886
Scaled Pearson Chi-Square	883.835	998	
Log Likelihood <sup>b</sup>	-173.669		
Akaike's Information Criterion (AIC)	351.338		
Finite Sample Corrected AIC (AICC)	351.350		
Bayesian Information Criterion (BIC)	361.154		
Consistent AIC (CAIC)	363.154		

Dependent Variable: yy\_Lb

Model: (Intercept), X

a. Information criteria are in smaller-is-better form.

b. The full log likelihood function is displayed and used in computing information criteria.

**Omnibus Test<sup>a</sup>**

Likelihood Ratio Chi-Square	df	Sig.
1036.839	1	.000

Dependent Variable: yy\_Lb

Model: (Intercept), X

a. Compares the fitted model against the intercept-only model.

**Tests of Model Effects**

Source	Type III		
	Wald Chi-Square	df	Sig.
(Intercept)	219.985	1	.000
X	220.861	1	.000

Dependent Variable: yy\_Lb

Model: (Intercept), X

### Parameter Estimates

Parameter	B	Std. Error	95% Wald Confidence Interval		Hypothesis Test	
			Lower	Upper	Wald Chi-Square	df
(Intercept)	-8.579	.5784	-9.713	-7.445	219.985	1
X (Scale)	.743 1 <sup>a</sup>	.0500	.645	.841	220.861	1

### Parameter Estimates

Parameter	Hypothesis
	Sig.
(Intercept)	.000
X (Scale)	.000

Dependent Variable: yy\_Lb

Model: (Intercept), X

a. Fixed at the displayed value.

```
* Generalized Linear Models.
GENLIN yy_Lb (REFERENCE=FIRST) WITH X
  /MODEL X INTERCEPT=YES
  DISTRIBUTION=BINOMIAL LINK=LOGIT
  /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5
  PCONVERGE=1E-006(ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95
  CITYPE=WALD
  LIKELIHOOD=FULL
  /MISSING CLASSMISSING=EXCLUDE
  /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
```

## Generalized Linear Models

# Notes

Output Created		04-JAN-2019 10:24:58
Comments		
Input	Data	/Users/Ilf/Desktop/11. Liu_Meng2003. long2wide2long.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1000
Missing Value Handling	Definition of Missing	User-defined missing values for factor, subject and within- subject variables are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables in the model.
Weight Handling		not applicable
Syntax		GENLIN yy_Lb (REFERENCE=FIRST) WITH X /MODEL X INTERCEPT=YES  DISTRIBUTION=BINOMIA L LINK=LOGIT /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5 PCONVERGE=1E-006 (ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95 CITYPE=WALD LIKELIHOOD=FULL /MISSING CLASSMISSING=EXCLUD E /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION.
Resources	Processor Time	00:00:00.10
	Elapsed Time	00:00:00.00

#### Model Information

Dependent Variable	yy_Lb <sup>a</sup>
Probability Distribution	Binomial
Link Function	Logit

a. The procedure models 1.00 as the response, treating .00 as the reference category.

#### Case Processing Summary

	N	Percent
Included	1000	100.0%
Excluded	0	0.0%
Total	1000	100.0%

#### Categorical Variable Information

		N	Percent
Dependent Variable	yy_Lb .00	477	47.7%
	1.00	523	52.3%
	Total	1000	100.0%

#### Continuous Variable Information

	N	Minimum	Maximum	Mean	Std. Deviation
Covariate X	1000	-3.61	41.12	12.5797	5.81256

**Goodness of Fit<sup>a</sup>**

	Value	df	Value/df
Deviance	342.857	998	.344
Scaled Deviance	342.857	998	
Pearson Chi-Square	742.152	998	.744
Scaled Pearson Chi-Square	742.152	998	
Log Likelihood <sup>b</sup>	-171.428		
Akaike's Information Criterion (AIC)	346.857		
Finite Sample Corrected AIC (AICC)	346.869		
Bayesian Information Criterion (BIC)	356.672		
Consistent AIC (CAIC)	358.672		

Dependent Variable: yy\_Lb

Model: (Intercept), X

a. Information criteria are in smaller-is-better form.

b. The full log likelihood function is displayed and used in computing information criteria.

**Omnibus Test<sup>a</sup>**

Likelihood Ratio Chi-Square	df	Sig.
1041.321	1	.000

Dependent Variable: yy\_Lb

Model: (Intercept), X

a. Compares the fitted model against the intercept-only model.

**Tests of Model Effects**

Source	Type III		
	Wald Chi-Square	df	Sig.
(Intercept)	165.686	1	.000
X	166.264	1	.000

Dependent Variable: yy\_Lb

Model: (Intercept), X

Parameter Estimates

Parameter	B	Std. Error	95% Wald Confidence Interval		Hypothesis Test	
			Lower	Upper	Wald Chi-Square	df
(Intercept)	-16.014	1.2441	-18.453	-13.576	165.686	1
X (Scale)	1.387 1 <sup>a</sup>	.1076	1.176	1.598	166.264	1

Parameter Estimates

Parameter	Hypothesis
	Sig.
(Intercept)	.000
X (Scale)	.000

Dependent Variable: yy\_Lb

Model: (Intercept), X

a. Fixed at the displayed value.