

Descriptives

Notes

Output Created		03-FEB-2025 12:59:56
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=med iq kww year age age80 school school80 expr expr80 tenure tenure80 lw lw80 /STATISTICS=MEAN STDDEV MIN MAX.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

[DataSet1] C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
med	758	0	18	10.91	2.741
iq	758	54	145	103.86	13.619
kww	758	12	56	36.57	7.302
year	4164	4	73	23.04	21.870
age	758	16	30	21.84	2.982
age80	4164	4.60517	38.00000	11.4646652	10.25919988
school	758	9	18	13.41	2.232
school80	758	9	18	13.71	2.215
expr	758	.000	11.444	1.73543	2.105542
expr80	758	.692	22.045	11.39426	4.210745
tenure	758	0	10	1.83	1.674
tenure80	758	0	22	7.36	5.050
lw	758	4.605	7.051	5.68674	.428949
lw80	758	4.749	8.032	6.82656	.409927
Valid N (listwise)	758				

Bayesian One-Sample

Notes

Output Created		03-FEB-2025 13:00:55
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
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

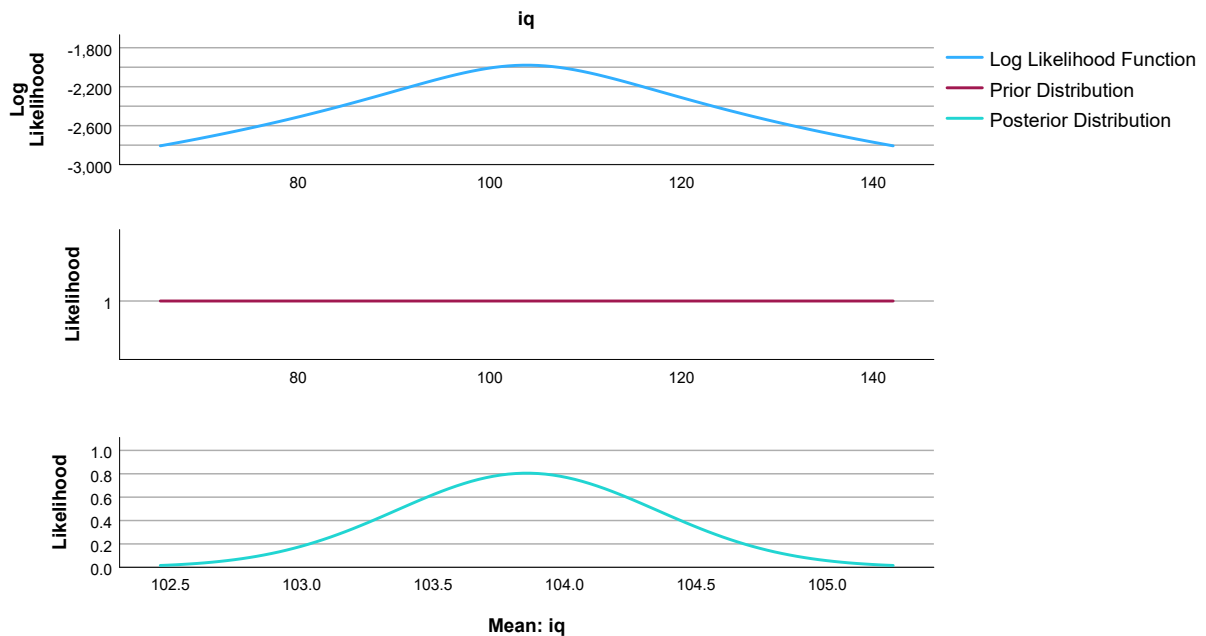
Notes

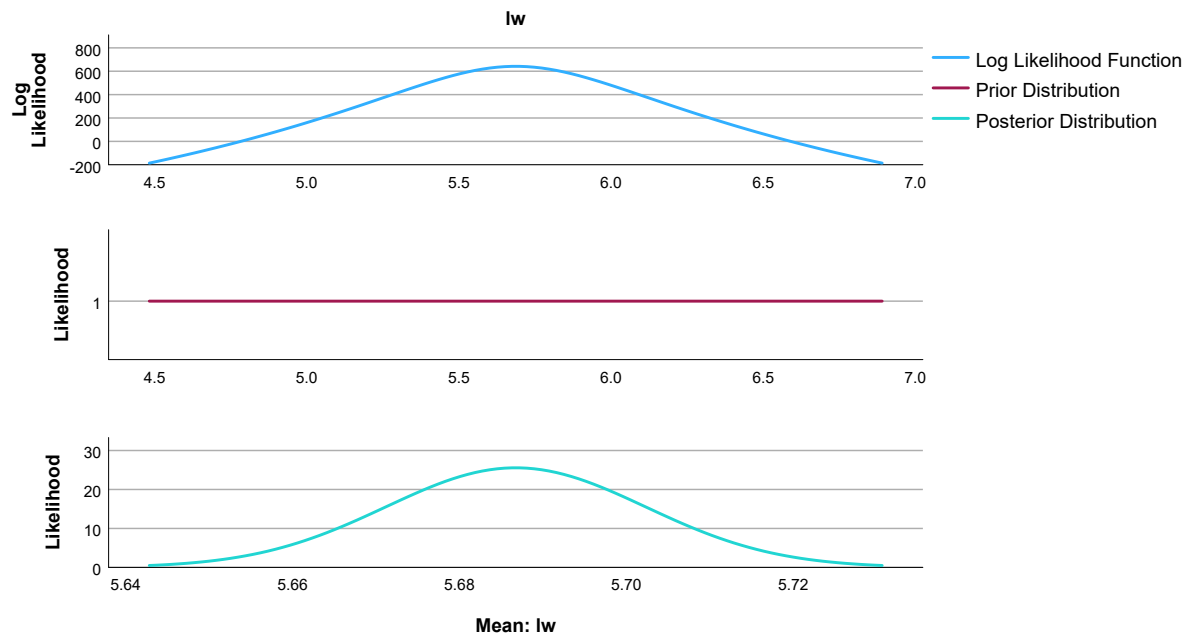
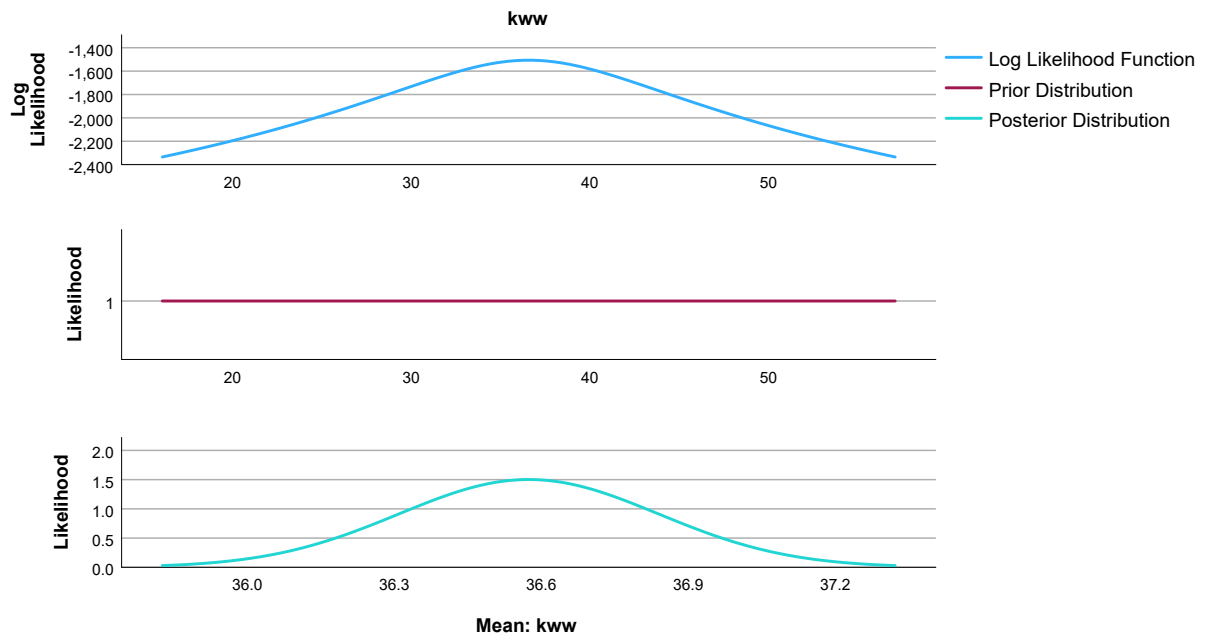
Syntax		BAYES ONESAMPLE /MISSING SCOPE=ANALYSIS /CRITERIA CILEVEL=95 /INFERENCE DISTRIBUTION=NORMAL VARIABLES=iq kww lw ANALYSIS=POSTERIOR /PRIOR VARDIST=DIFFUSE MEANDIST=DIFFUSE.
Resources	Processor Time	00:00:00.66
	Elapsed Time	00:00:01.05

Posterior Distribution Characterization for One-Sample Mean

	N	Mode	Posterior Mean	Variance	95% Credible Interval Lower Bound	95% Credible Interval Upper Bound
iq	758	103.86	103.86	.246	102.88	104.83
kww	758	36.57	36.57	.071	36.05	37.10
lw	758	5.68674	5.68674	.000	5.65611	5.71736

Prior on Variance: Diffuse. Prior on Mean: Diffuse.





Bayesian One-Sample

Notes

Output Created		03-FEB-2025 13:02:27
Comments		
Input	Data	C: \Users\sb3218a\OneDrive - american. edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	MartialStatus
	N of Rows in Working Data File	4165
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 ONESAMPLE /MISSING SCOPE=ANALYSIS /CRITERIA CILEVEL=95 /INFERENCE DISTRIBUTION=NORMAL VARIABLES=lw ANALYSIS=POSTERIOR /PRIOR VARDIST=DIFFUSE MEANDIST=DIFFUSE.
Resources	Processor Time	00:00:00.47
	Elapsed Time	00:00:00.58

Warnings

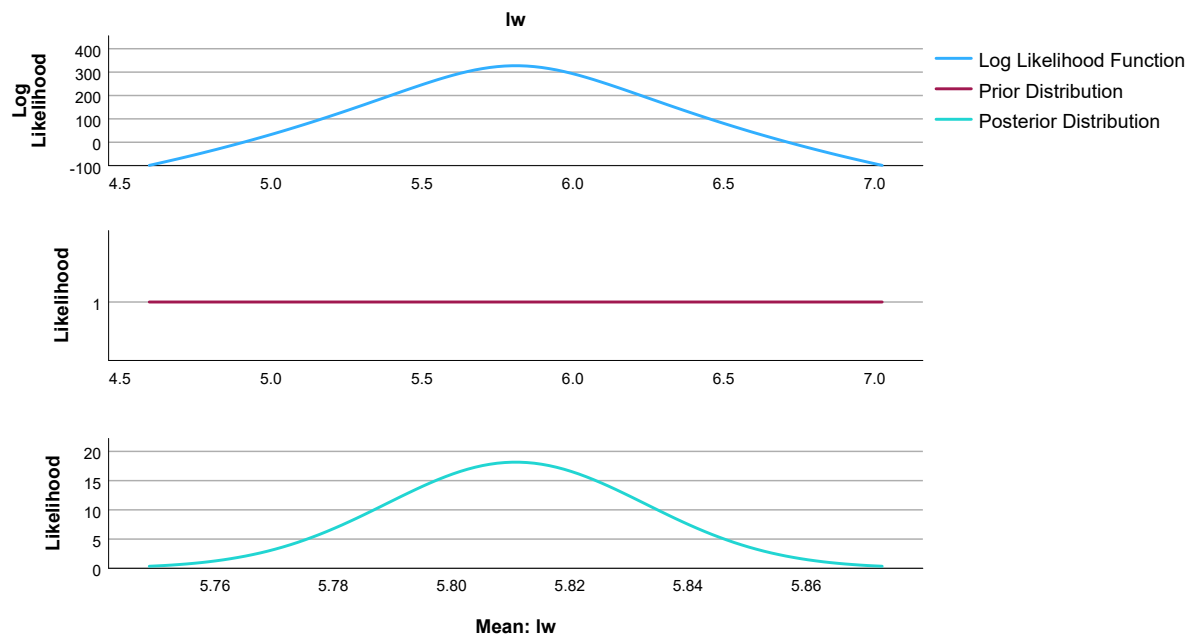
Insufficient data were found for some variables, for example lw.
At least 2 cases are required for split file MartialStatus= .

Posterior Distribution Characterization for One-Sample Mean

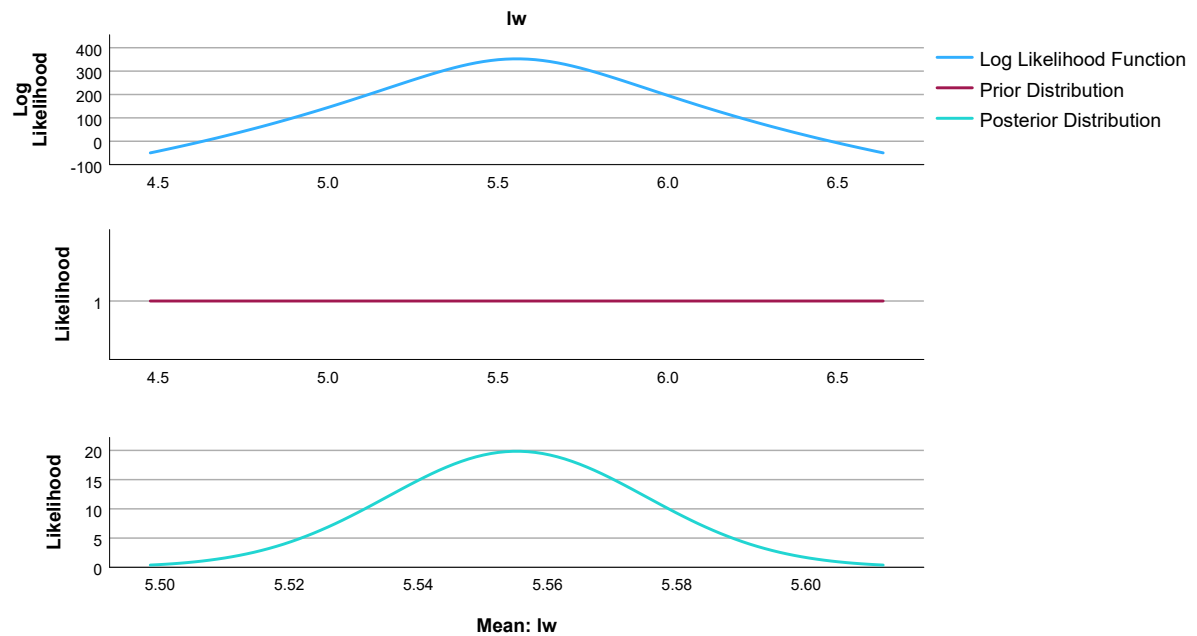
MaritalStatus		N	Mode	Posterior Mean	Variance	95% Credible Interval	
						Lower Bound	Upper Bound
	lw	0	.	.	.	.	.
Married	lw	390	5.81084	5.81084	.000	5.76768	5.85401
not Married	lw	368	5.55521	5.55521	.000	5.51572	5.59470

Prior on Variance: Diffuse. Prior on Mean: Diffuse.

MaritalStatus = Married



MaritalStatus = not Married



Bayesian One-Sample

Notes

Output Created		03-FEB-2025 13:03:09
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	MaritalStatusNew
	N of Rows in Working Data File	4165
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

Notes

Syntax	BAYES ONESAMPLE /MISSING SCOPE=ANALYSIS /CRITERIA CILEVEL=95 /INFERENCE DISTRIBUTION=NORMAL VARIABLES=lw80 ANALYSIS=POSTERIOR /PRIOR VARDIST=DIFFUSE MEANDIST=DIFFUSE.	
Resources	Processor Time	00:00:00.47
	Elapsed Time	00:00:00.58

Warnings

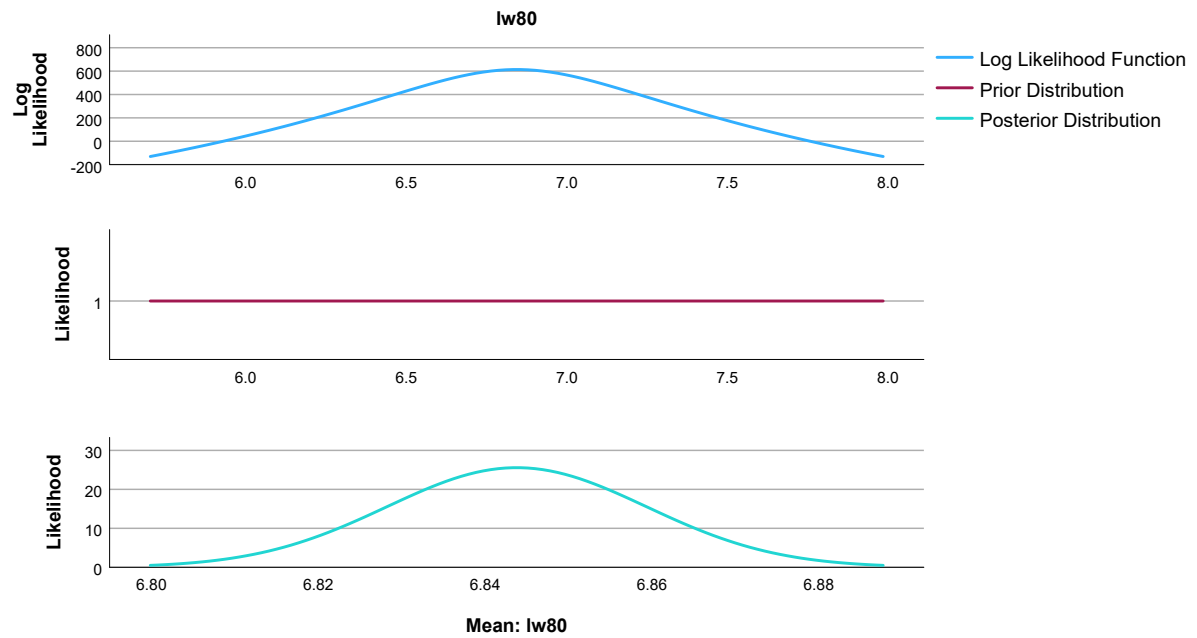
Insufficient data were found for some variables, for example lw80. At least 2 cases are required for split file MaritalStatusNew= .

Posterior Distribution Characterization for One-Sample Mean

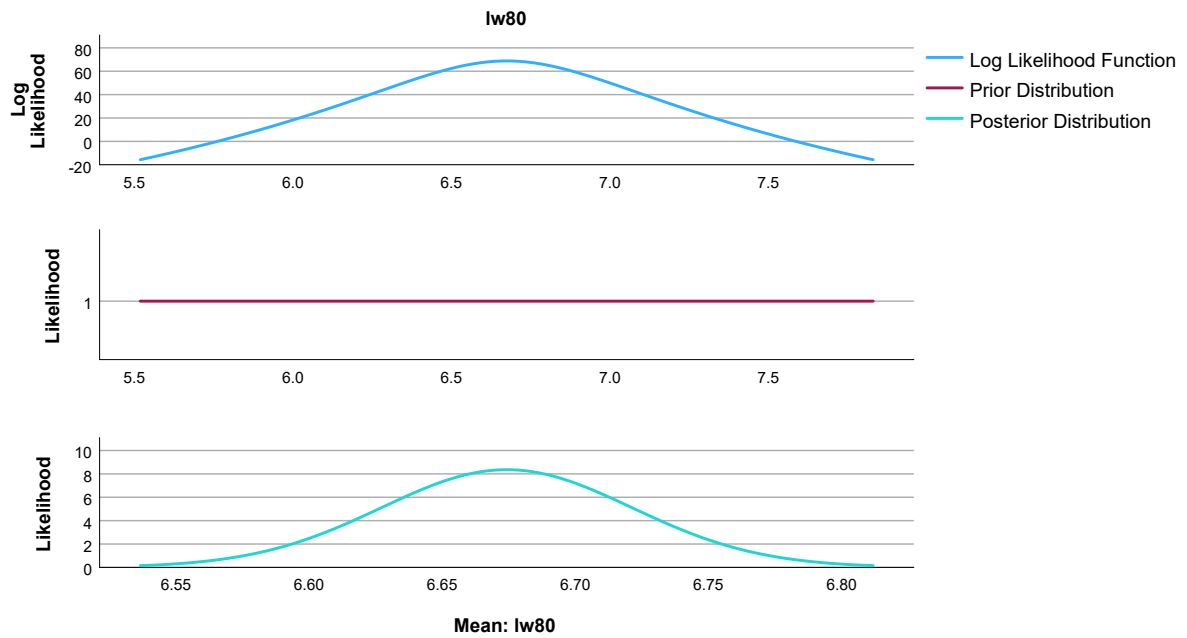
MaritalStatusNew		N	Mode	Posterior Mean	Variance	95% Credible Interval	
						Lower Bound	Upper Bound
	lw80	0	.	.	.	.	.
Married	lw80	681	6.84378	6.84378	.000	6.81316	6.87441
not Married	lw80	77	6.67418	6.67418	.002	6.57942	6.76894

Prior on Variance: Diffuse. Prior on Mean: Diffuse.

MaritalStatusNew = Married



MaritalStatusNew = not Married



Explore

Notes

Output Created		03-FEB-2025 13:04:33
Comments		
Input	Data	C: \Users\sb3218a\OneDrive - american. edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=lw BY MartialStatus /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL.
Resources	Processor Time	00:00:05.19
	Elapsed Time	00:00:01.72

Warnings

Text: MartialStatus Command: EXAMINE
This procedure cannot use string variables longer than 8 bytes.
The values will be truncated.

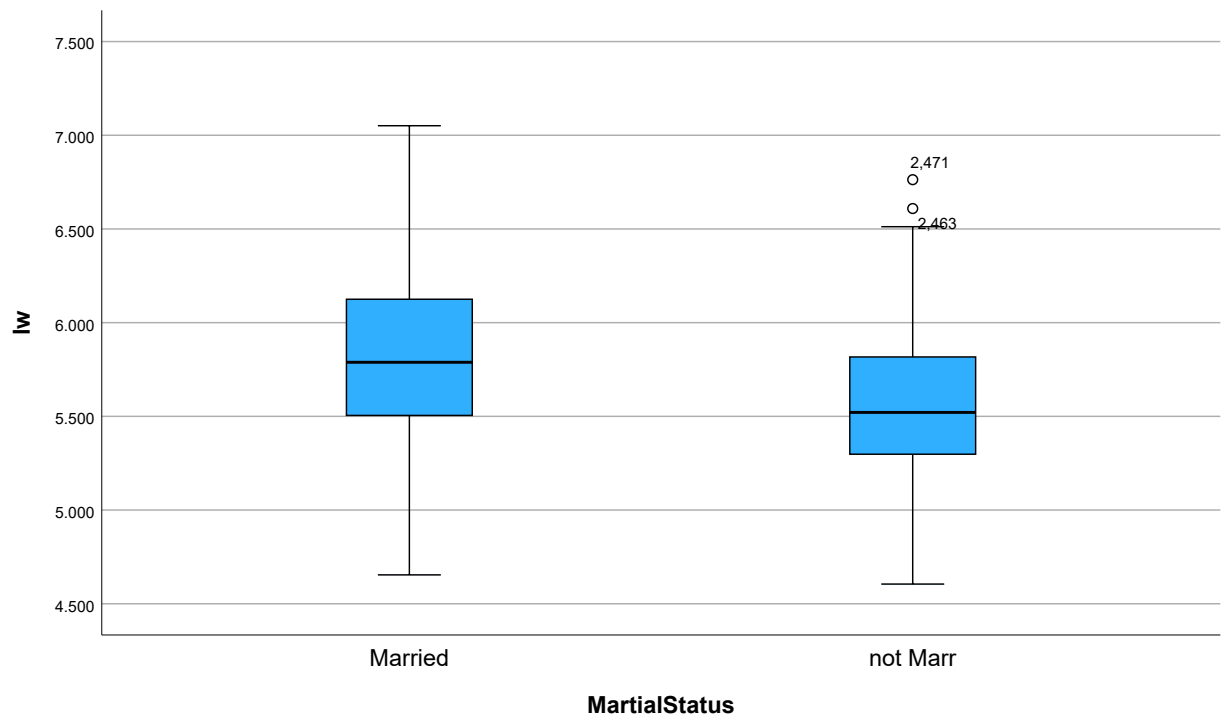
There are no valid cases for lw when MartialStatus = .000.
Statistics cannot be computed for this level.

MartialStatus

Case Processing Summary

		Valid		Cases Missing		Total	
MartialStatus		N	Percent	N	Percent	N	Percent
lw	Married	390	18.1%	1770	81.9%	2160	100.0%
	not Marr	368	18.4%	1636	81.6%	2004	100.0%

lw



Explore

Notes

Output Created		03-FEB-2025 13:05:01
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=iq BY ResidencyEarly /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL.
Resources	Processor Time	00:00:01.03
	Elapsed Time	00:00:00.23

Warnings

Text: ResidencyEarly Command: EXAMINE
This procedure cannot use string variables longer than 8 bytes.
The values will be truncated.

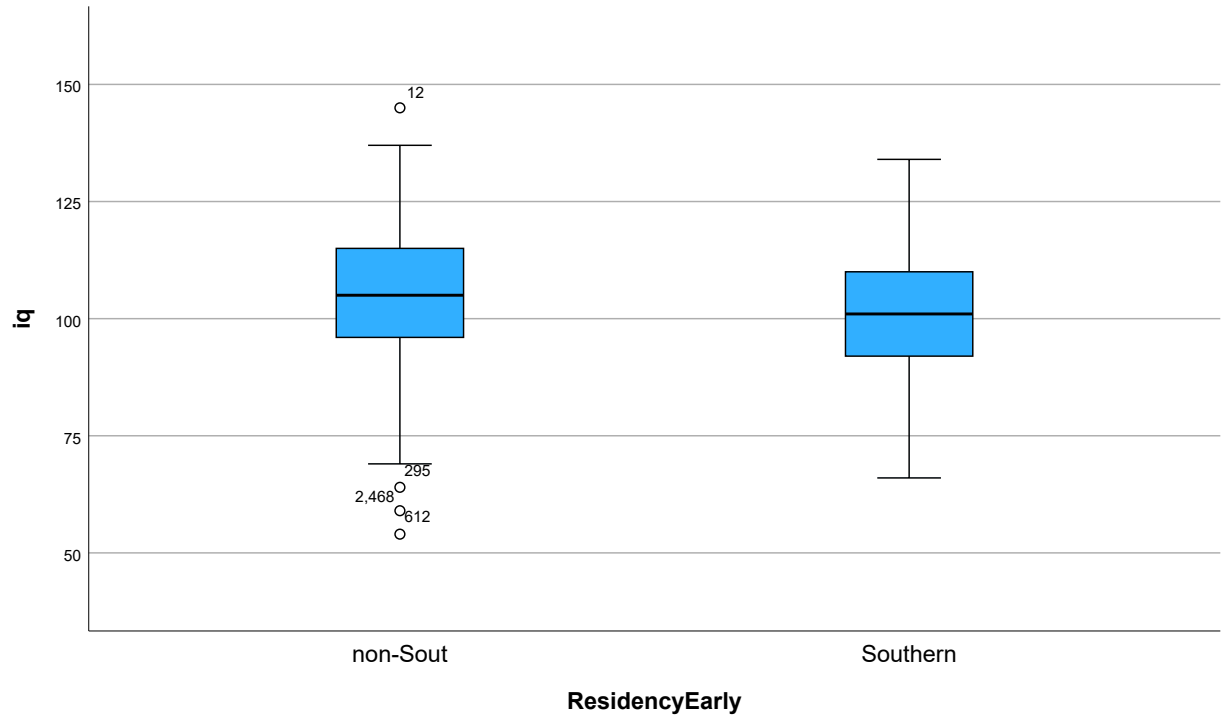
There are no valid cases for iq when ResidencyEarly = .000.
Statistics cannot be computed for this level.

ResidencyEarly

Case Processing Summary

		Valid		Cases Missing		Total	
ResidencyEarly		N	Percent	N	Percent	N	Percent
iq	non-Sout	554	14.0%	3406	86.0%	3960	100.0%
	Southern	204	100.0%	0	0.0%	204	100.0%

iq



Explore

Notes

Output Created		03-FEB-2025 13:05:20
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=iq BY CityResidency /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL.
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.17

Warnings

Text: CityResidency Command: EXAMINE
This procedure cannot use string variables longer than 8 bytes.
The values will be truncated.

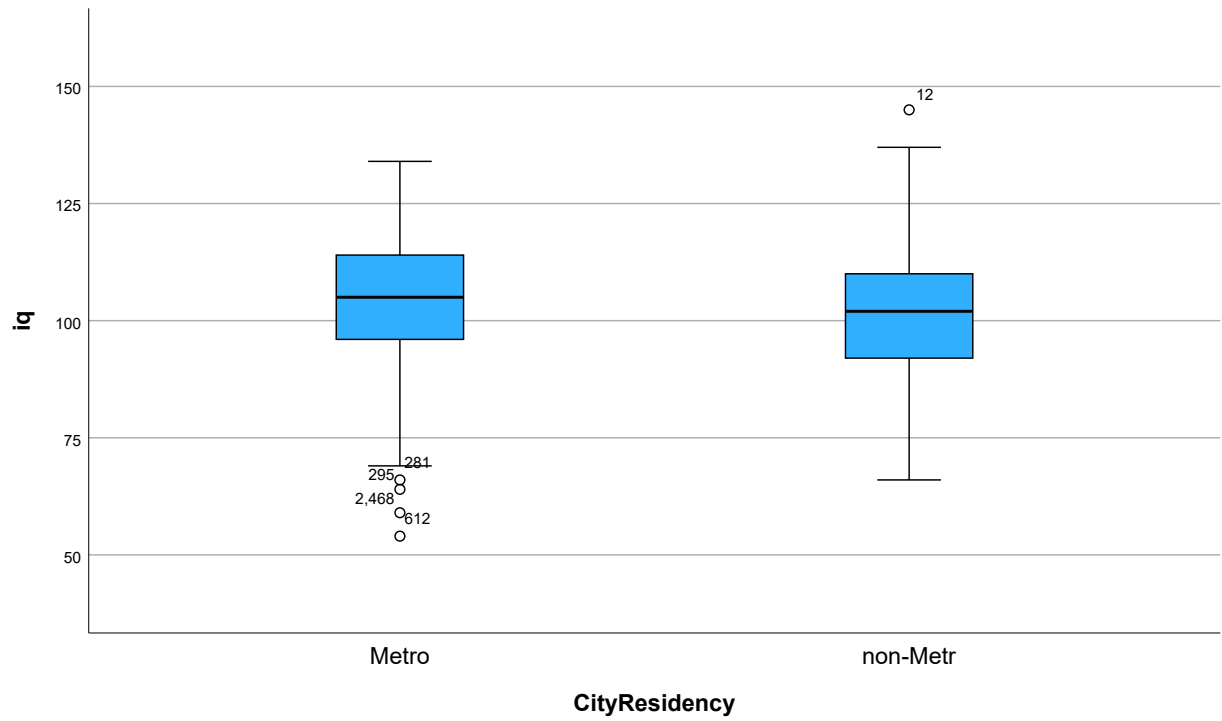
There are no valid cases for iq when CityResidency = .000.
Statistics cannot be computed for this level.

CityResidency

Case Processing Summary

		Valid		Cases Missing		Total	
CityResidency		N	Percent	N	Percent	N	Percent
iq	Metro	534	35.8%	959	64.2%	1493	100.0%
	non-Metr	224	8.4%	2447	91.6%	2671	100.0%

iq



PPlot

Notes

Output Created		03-FEB-2025 13:05:45
Comments		
Input	Data	C: \\Users\\sb3218a\\OneDrive - american. edu\\Desktop\\SPSS_Ecdat_ Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
	Date	<none>
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	For a given sequence or time series variable, cases with missing values are not used in the analysis. Cases with negative or zero values are also not used, if the log transform is requested.
Syntax		PLOT /VARIABLES=lw /NOLOG /NOSTANDARDIZE /TYPE=Q-Q /FRACTION=BLOM /TIES=MEAN /DIST=NORMAL.
Resources	Processor Time	00:00:00.55
	Elapsed Time	00:00:00.34
Use	From	First observation
	To	Last observation
Time Series Settings (TSET)	Amount of Output	PRINT = DEFAULT
	Saving New Variables	NEWVAR = CURRENT
	Maximum Number of Lags in Autocorrelation or Partial Autocorrelation Plots	MXAUTO = 16
	Maximum Number of Lags Per Cross-Correlation Plots	MXCROSS = 7

Notes

Maximum Number of New Variables Generated Per Procedure	MXNEWVAR = 60
Maximum Number of New Cases Per Procedure	MXPREDICT = 1000
Treatment of User-Missing Values	MISSING = EXCLUDE
Confidence Interval Percentage Value	CIN = 95
Tolerance for Entering Variables in Regression Equations	TOLER = .0001
Maximum Iterative Parameter Change	CNVERGE = .001
Method of Calculating Std. Errors for Autocorrelations	ACFSE = IND
Length of Seasonal Period	Unspecified
Variable Whose Values Label Observations in Plots	Unspecified
Equations Include	CONSTANT

Model Description

Model Name		MOD_1
Series or Sequence	1	lw
Transformation		None
Non-Seasonal Differencing		0
Seasonal Differencing		0
Length of Seasonal Period		No periodicity
Standardization		Not applied
Distribution	Type	Normal
	Location	estimated
	Scale	estimated
Fractional Rank Estimation Method		Blom's
Rank Assigned to Ties		Mean rank of tied values

Applying the model specifications from MOD_1

Case Processing Summary

lw		
Series or Sequence Length		4165
Number of Missing Values in the Plot	User-Missing	0
	System-Missing	3407

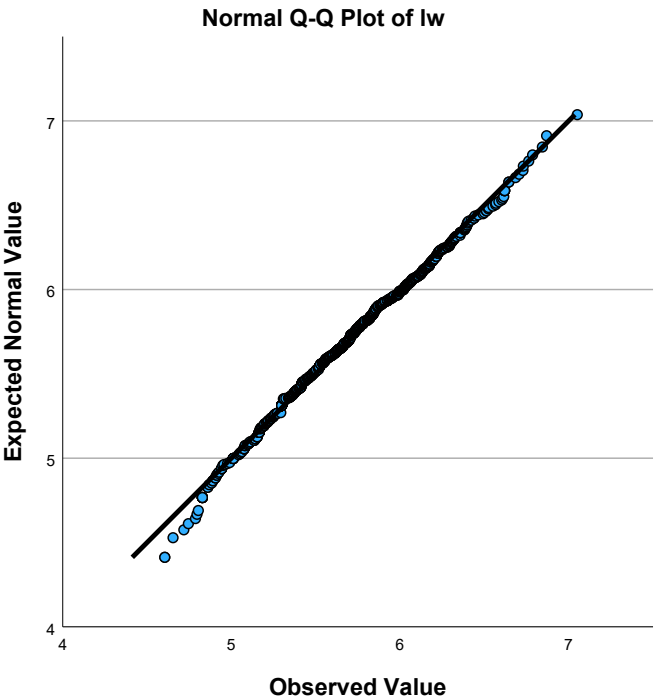
The cases are unweighted.

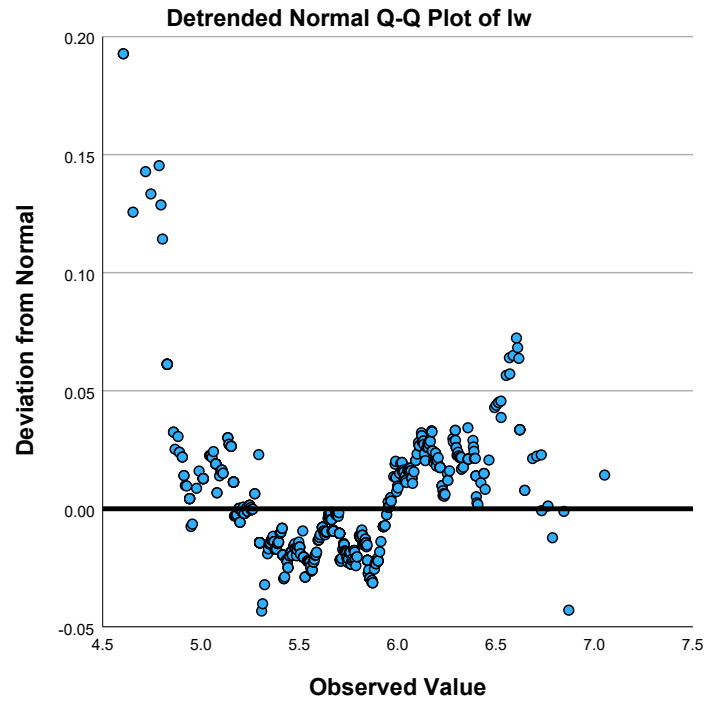
Estimated Distribution Parameters

lw		
Normal Distribution	Location	5.68674
	Scale	.428949

The cases are unweighted.

lw





PPlot

Notes

Output Created		03-FEB-2025 13:06:15
Comments		
Input	Data	C: \Users\sb3218a\OneDrive - american. edu\Desktop\SPSS_Ecdat_ Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
	Date	<none>

Notes

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	For a given sequence or time series variable, cases with missing values are not used in the analysis. Cases with negative or zero values are also not used, if the log transform is requested.
Syntax		PLOT /VARIABLES=school expr tenure /NOLOG /NOSTANDARDIZE /TYPE=Q-Q /FRACTION=BLOM /TIES=MEAN /DIST=NORMAL.
Resources	Processor Time	00:00:01.44
	Elapsed Time	00:00:00.99
Use	From	First observation
	To	Last observation
Time Series Settings (TSET)	Amount of Output	PRINT = DEFAULT
	Saving New Variables	NEWVAR = CURRENT
	Maximum Number of Lags in Autocorrelation or Partial Autocorrelation Plots	MXAUTO = 16
	Maximum Number of Lags Per Cross-Correlation Plots	MXCROSS = 7
	Maximum Number of New Variables Generated Per Procedure	MXNEWVAR = 60
	Maximum Number of New Cases Per Procedure	MXPREDICT = 1000
	Treatment of User-Missing Values	MISSING = EXCLUDE
	Confidence Interval Percentage Value	CIN = 95
	Tolerance for Entering Variables in Regression Equations	TOLER = .0001
	Maximum Iterative Parameter Change	CNVERGE = .001
	Method of Calculating Std. Errors for Autocorrelations	ACFSE = IND

Notes

	Length of Seasonal Period	Unspecified
	Variable Whose Values Label Observations in Plots	Unspecified
	Equations Include	CONSTANT

Model Description

Model Name		MOD_2
Series or Sequence	1	school
	2	expr
	3	tenure
Transformation		None
Non-Seasonal Differencing		0
Seasonal Differencing		0
Length of Seasonal Period		No periodicity
Standardization		Not applied
Distribution	Type	Normal
	Location	estimated
	Scale	estimated
Fractional Rank Estimation Method		Blom's
Rank Assigned to Ties		Mean rank of tied values

Applying the model specifications from MOD_2

Case Processing Summary

		school	expr	tenure
Series or Sequence Length		4165	4165	4165
Number of Missing Values in the Plot	User-Missing	0	0	0
	System-Missing	3407	3407	3407

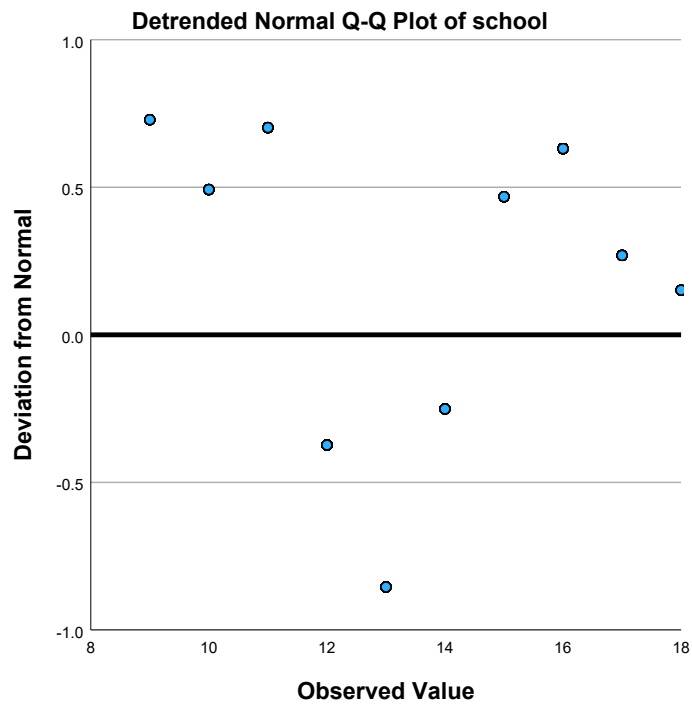
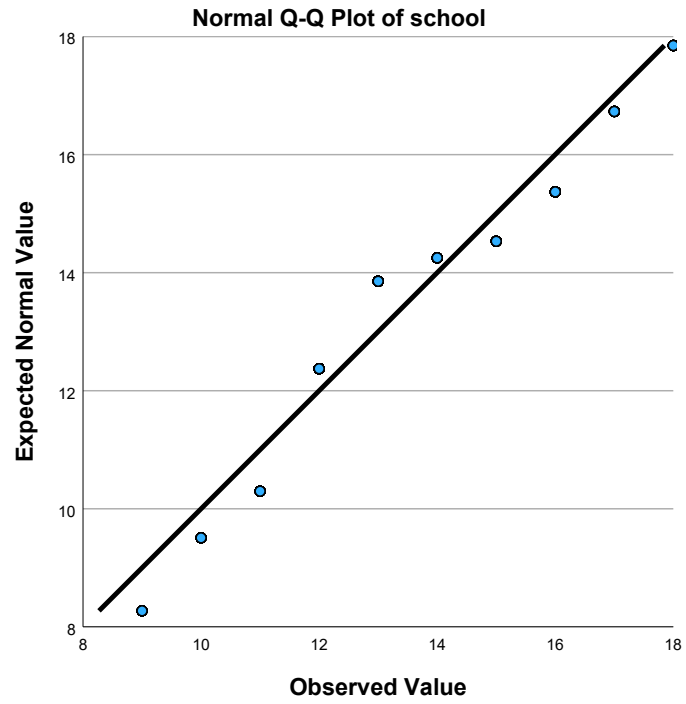
The cases are unweighted.

Estimated Distribution Parameters

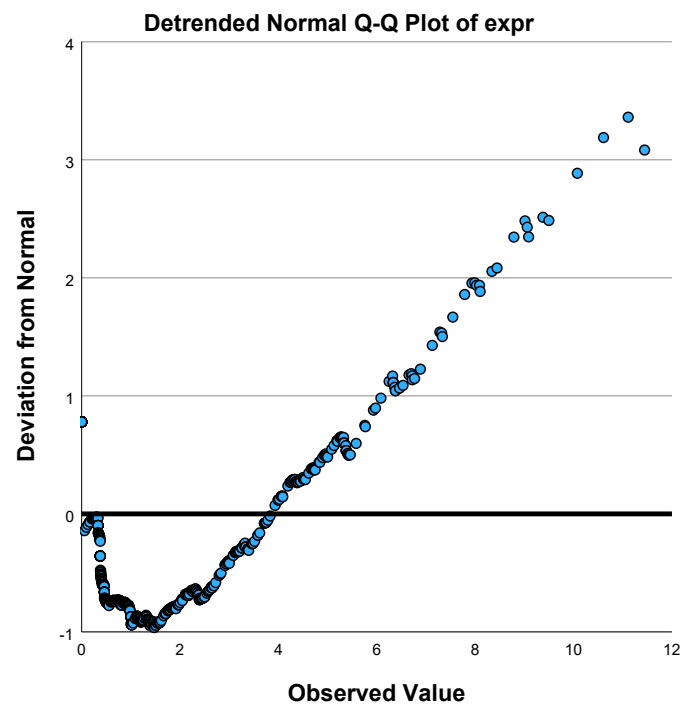
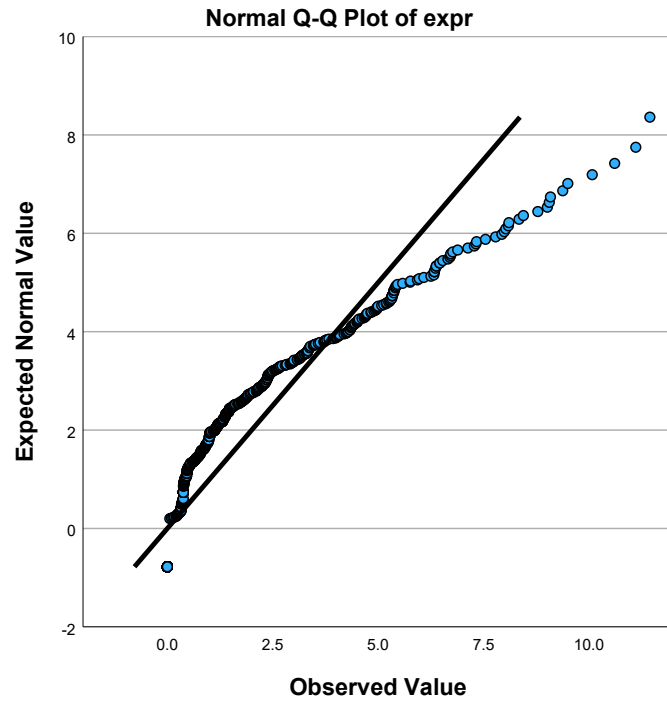
		school	expr	tenure
Normal Distribution	Location	13.40501	1.73543	1.83113
	Scale	2.231828	2.105542	1.673630

The cases are unweighted.

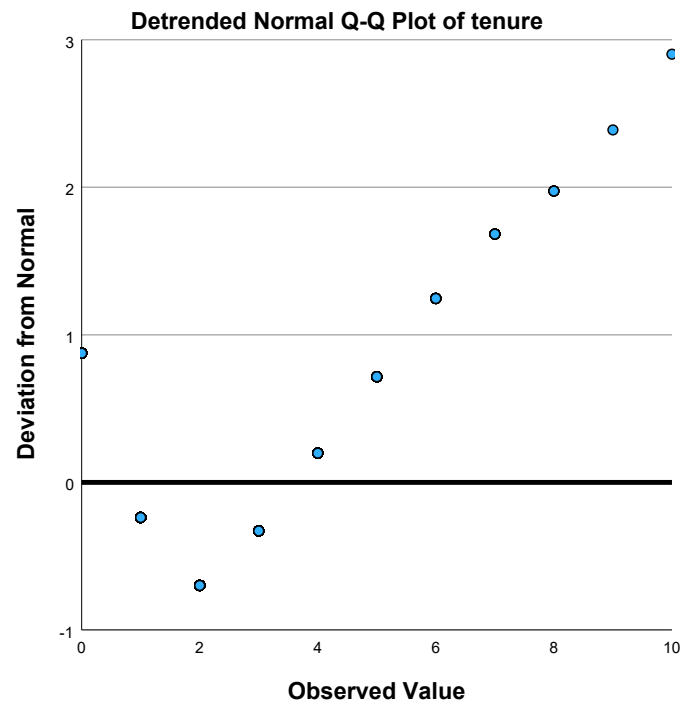
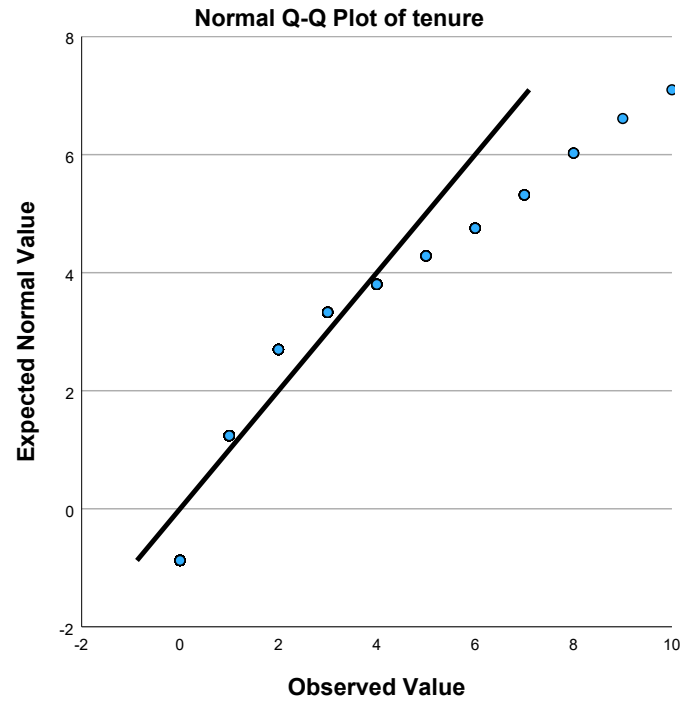
school



expr



tenure



Frequencies

Notes

Output Created		03-FEB-2025 13:06:54
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
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.
Syntax		FREQUENCIES VARIABLES=MaritalStatus MaritalStatusNew /ORDER=ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Statistics

		MaritalStatus	MaritalStatusNew
N	Valid	4165	4165
	Missing	0	0

Frequency Table

MaritalStatus

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	.0	.0	.0
	Married	2160	51.9	51.9	51.9
	not Married	2004	48.1	48.1	100.0
	Total	4165	100.0	100.0	

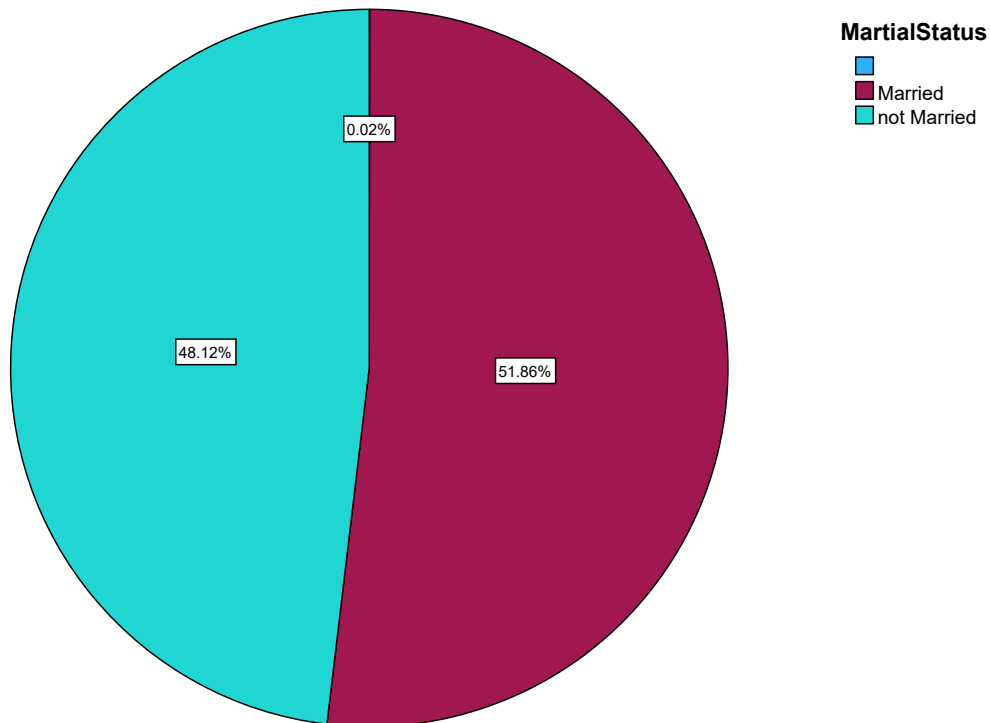
MaritalStatusNew

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	.0	.0	.0
	Married	681	16.4	16.4	16.4
	not Married	3483	83.6	83.6	100.0
	Total	4165	100.0	100.0	

Graph

Notes

Output Created		03-FEB-2025 13:07:58
Comments		
Input	Data	C: \Users\sb3218a\OneDrive - american. edu\Desktop\SPSS_Ecdat_ Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /PIE=PCT BY MaritalStatus.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.14



T-Test

Notes

Output Created		03-FEB-2025 13:12:32
Comments		
Input	Data	C: \Users\s3218a\OneDrive - american. edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.

Notes

Syntax	T-TEST GROUPS=MartialStatus ('Married ' 'No tMarried ') /MISSING=ANALYSIS /VARIABLES=lw /ES DISPLAY(TRUE) /CRITERIA=CI(.95).	
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Warnings

The GROUPS subcommand specifies an unknown variable or a long string variable. This subcommand must specify either a numeric variable or a short string variable. Text found:
MartialStatus

Execution of this command stops.

T-Test

Notes

Output Created		03-FEB-2025 13:14:10
Comments		
Input	Data	C: \Users\sb3218a\OneDrive - american. edu\Desktop\SPSS_Ecdat_ Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.

Notes

Syntax	T-TEST GROUPS=MartialStatus ('MaritalStatus ' 'MaritalStatus New') /MISSING=ANALYSIS /VARIABLES=lw /ES DISPLAY(TRUE) /CRITERIA=CI(.95).	
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Warnings

The GROUPS subcommand specifies an unknown variable or a long string variable. This subcommand must specify either a numeric variable or a short string variable. Text found: MartialStatus

Execution of this command stops.

The values specified on the GROUP subcommand are equal. Text found: MaritalStatus New

T-Test

Notes

Output Created		03-FEB-2025 13:15:45
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.

Notes

Syntax	T-TEST GROUPS=MartialStatus ('Married' 'non Married') /MISSING=ANALYSIS /VARIABLES=lw /ES DISPLAY(TRUE) /CRITERIA=CI(.95).	
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Warnings

The GROUPS subcommand specifies an unknown variable or a long string variable. This subcommand must specify either a numeric variable or a short string variable. Text found:
MartialStatus

Execution of this command stops.

T-Test

Notes

Output Created		03-FEB-2025 13:16:30
Comments		
Input	Data	C: \Users\sb3218a\OneDrive - american. edu\Desktop\SPSS_Ecdat_ Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=MartialStatus ('Married' 'not Married') /MISSING=ANALYSIS /VARIABLES=lw /ES DISPLAY(TRUE) /CRITERIA=CI(.95).

Notes

Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Warnings

The GROUPS subcommand specifies an unknown variable or a long string variable. This subcommand must specify either a numeric variable or a short string variable. Text found:
MaritalStatus

Execution of this command stops.

T-Test

Notes

Output Created		03-FEB-2025 13:17:27
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=ResidencyEarly ('Southern' 'nonSouthern') /MISSING=ANALYSIS /VARIABLES=lw /ES DISPLAY(TRUE) /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Warnings

The GROUPS subcommand specifies an unknown variable or a long string variable. This subcommand must specify either a numeric variable or a short string variable. Text found: ResidencyEarly

Execution of this command stops.

Correlations

Notes

Output Created		03-FEB-2025 13:18:06
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each pair of variables are based on all the cases with valid data for that pair.
Syntax		CORRELATIONS /VARIABLES=iq lw /PRINT=TWOTAIL NOSIG FULL /MISSING=PAIRWISE.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Correlations

		iq	lw
iq	Pearson Correlation	1	.347**
	Sig. (2-tailed)		<.001
	N	758	758
lw	Pearson Correlation	.347**	1
	Sig. (2-tailed)	<.001	
	N	758	758

** . Correlation is significant at the 0.01 level (2-tailed).

Correlations

Notes

Output Created		03-FEB-2025 13:18:35
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	MartialStatus
	N of Rows in Working Data File	4165
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each pair of variables are based on all the cases with valid data for that pair.
Syntax		CORRELATIONS /VARIABLES=iq lw /PRINT=TWOTAIL NOSIG FULL /MISSING=PAIRWISE.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Correlations

MaritalStatus			iq	lw
	iq	Pearson Correlation	. ^a	. ^a
		Sig. (2-tailed)		.
		N	0	0
	lw	Pearson Correlation	. ^a	. ^a
		Sig. (2-tailed)	.	
		N	0	0
Married	iq	Pearson Correlation	1	.342 ^{**}
		Sig. (2-tailed)		<.001
		N	390	390
	lw	Pearson Correlation	.342 ^{**}	1
		Sig. (2-tailed)	<.001	
		N	390	390
not Married	iq	Pearson Correlation	1	.372 ^{**}
		Sig. (2-tailed)		<.001
		N	368	368
	lw	Pearson Correlation	.372 ^{**}	1
		Sig. (2-tailed)	<.001	
		N	368	368

^{**}. Correlation is significant at the 0.01 level (2-tailed).

a. Cannot be computed because at least one of the variables is constant.

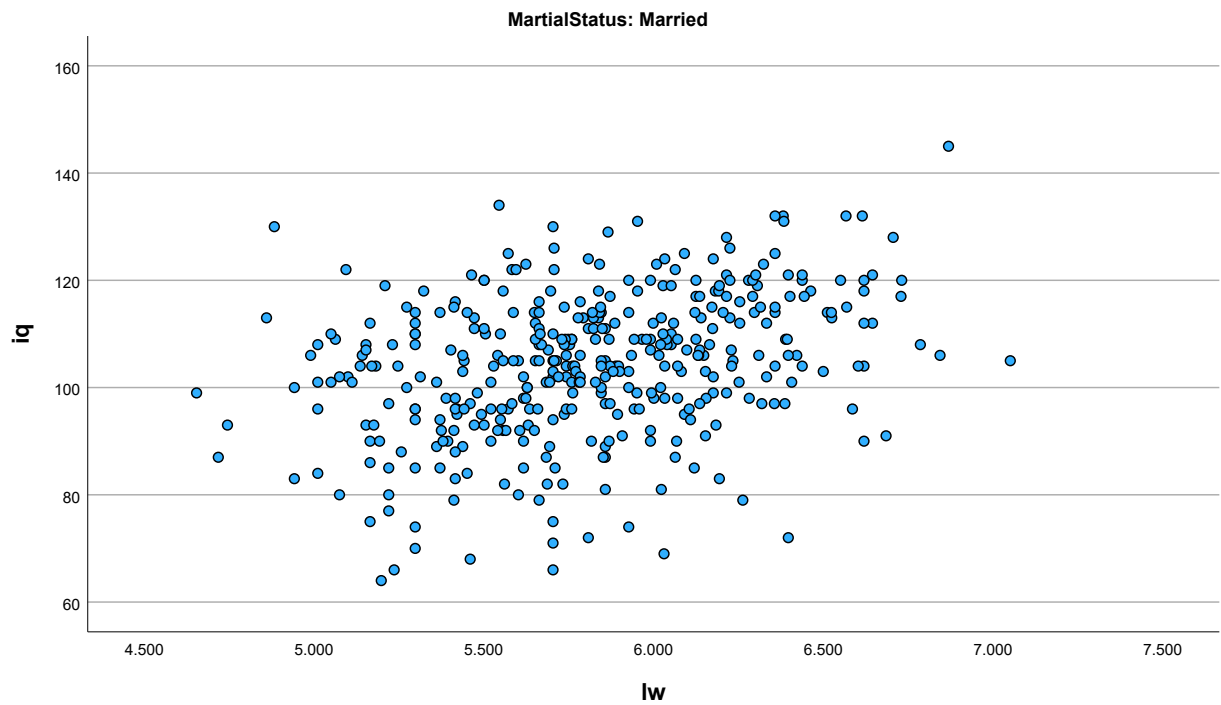
Graph

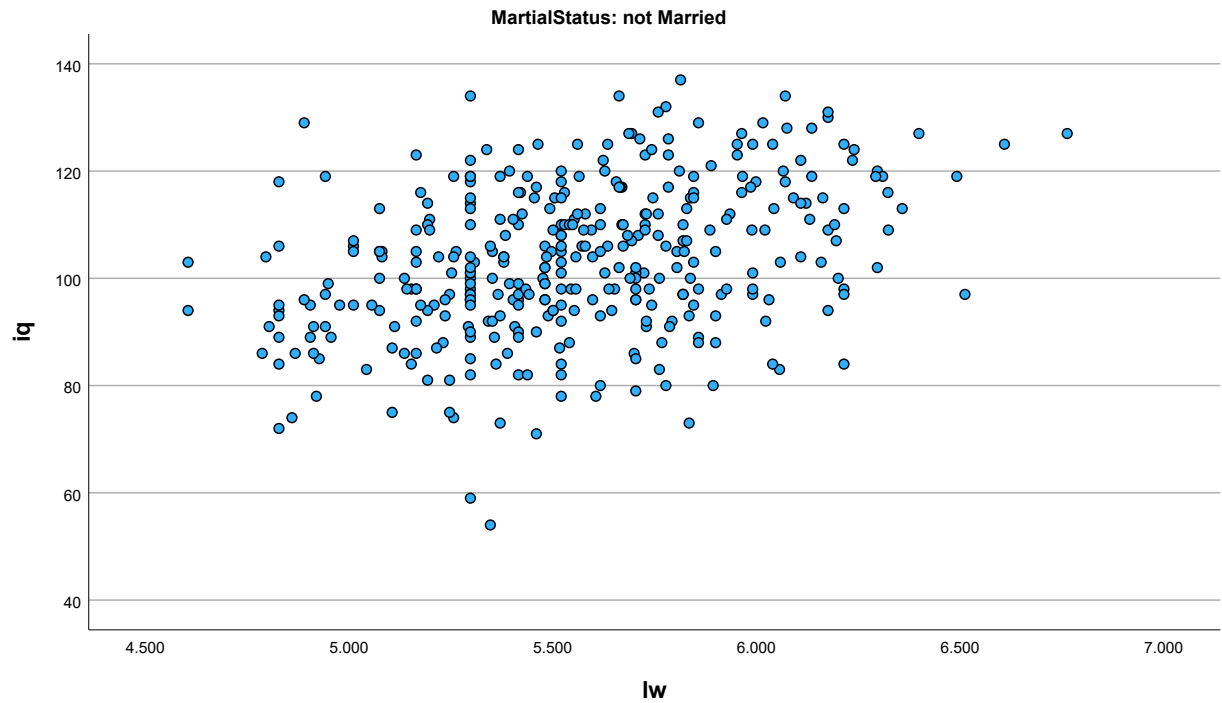
Notes

Output Created		03-FEB-2025 13:19:19
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	MartialStatus
	N of Rows in Working Data File	4165
Syntax		GRAPH /SCATTERPLOT(BIVAR) =lw WITH iq /MISSING=LISTWISE.
Resources	Processor Time	00:00:00.33
	Elapsed Time	00:00:00.30

>Warning # 17862

>There are not enough cases with valid values available for GRAPH to process.

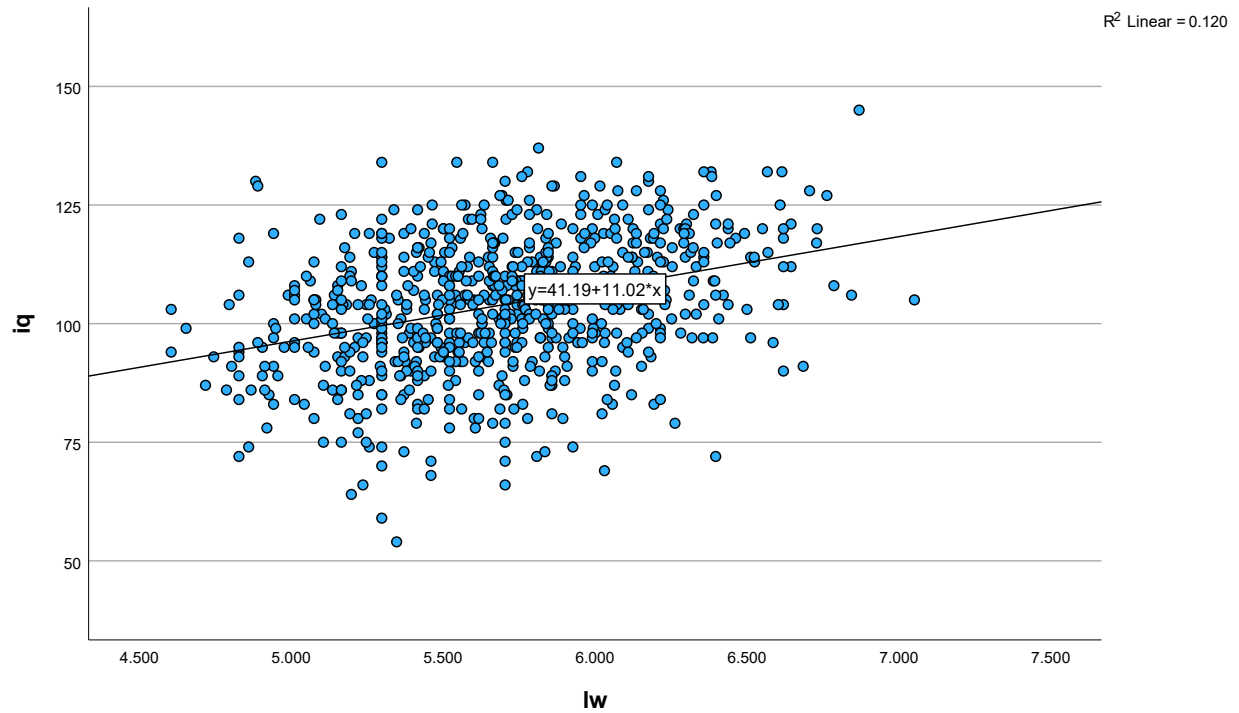




Graph

Notes

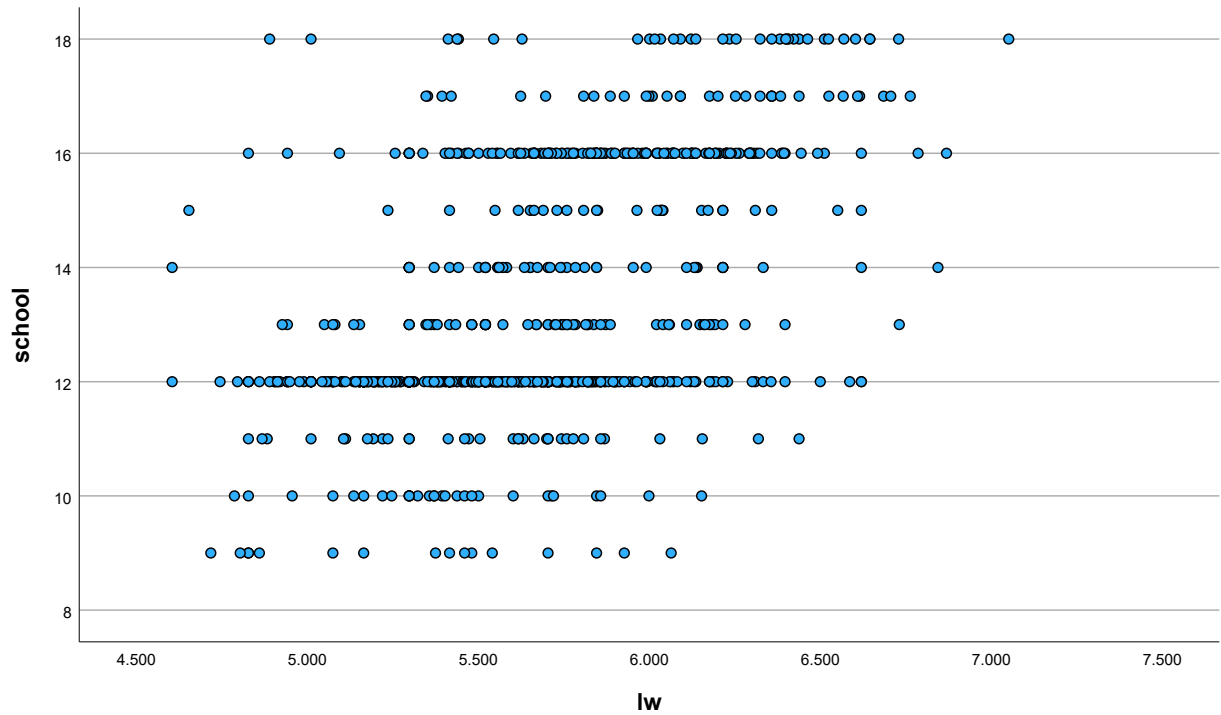
Output Created		03-FEB-2025 13:19:35
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /SCATTERPLOT(BIVAR) =lw WITH iq /MISSING=LISTWISE.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.16



Graph

Notes

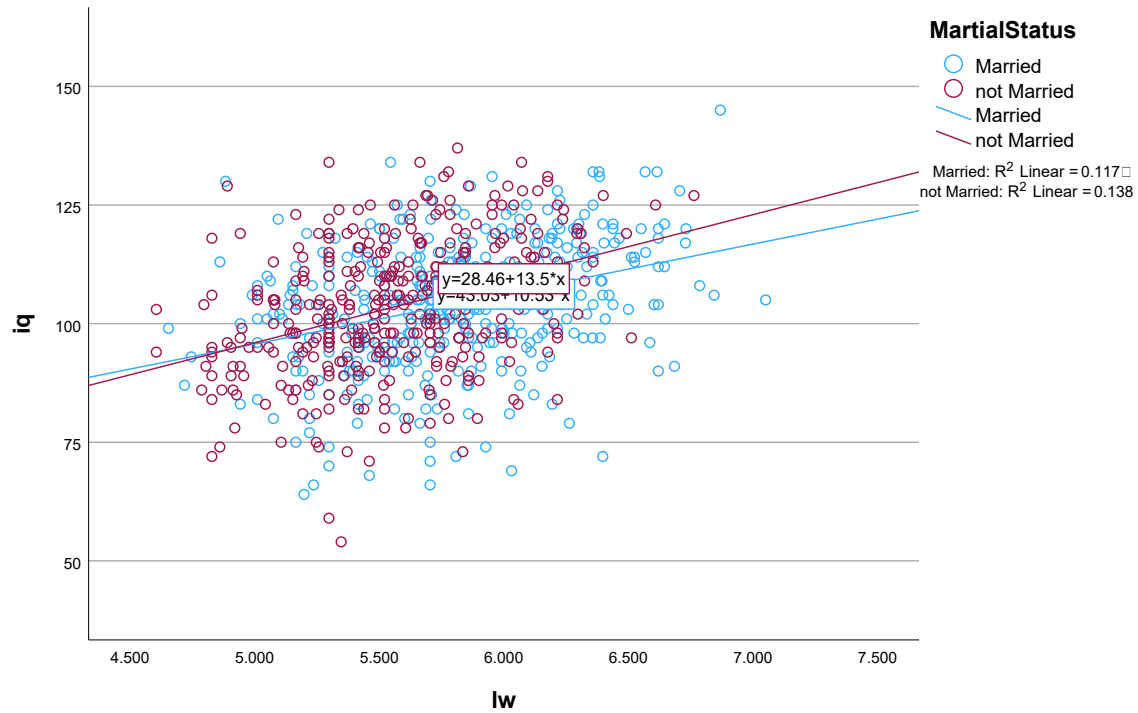
Output Created		03-FEB-2025 13:21:52
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /SCATTERPLOT(BIVAR) =lw WITH school /MISSING=LISTWISE.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.16



Graph

Notes

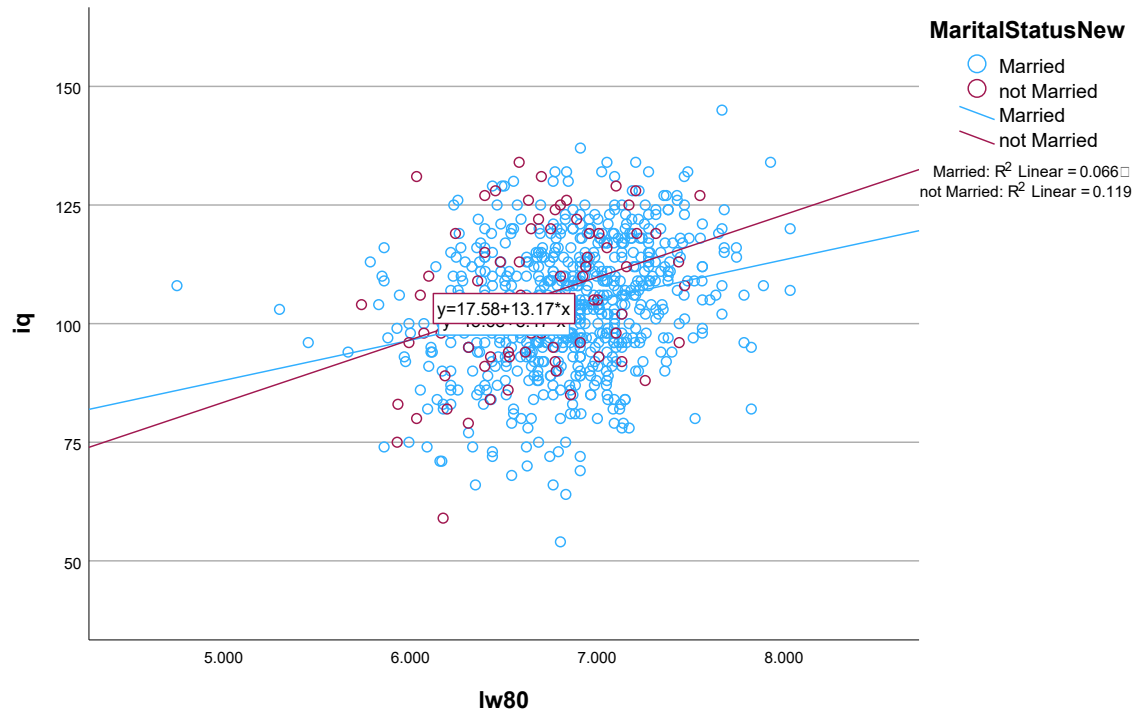
Output Created		03-FEB-2025 13:22:16
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /SCATTERPLOT(BIVAR) =lw WITH iq BY MaritalStatus /MISSING=LISTWISE.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.16



Graph

Notes

Output Created		03-FEB-2025 13:24:28
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /SCATTERPLOT(BIVAR) =lw80 WITH iq BY MaritalStatusNew /MISSING=LISTWISE.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.16



Crosstabs

Notes

Output Created		03-FEB-2025 13:26:01
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.

Notes

Syntax		CROSSTABS /TABLES=ResidencyEarly BY Residency1980 /FORMAT=AVALUE TABLES /STATISTICS=CHISQ CORR /CELLS=COUNT EXPECTED /COUNT ROUND CELL.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02
	Dimensions Requested	2
	Cells Available	524245

Warnings

CORR statistics are available for numeric data only.

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
ResidencyEarly * Residency1980	4165	100.0%	0	0.0%	4165	100.0%

ResidencyEarly * Residency1980 Crosstabulation

			Residency1980			
			non-Southern	Southern	Total	
ResidencyEarly	Count	1	0	0	1	
	Expected Count	.0	.9	.1	1.0	
	non-Southern	Count	0	3923	37	3960
		Expected Count	1.0	3748.0	211.1	3960.0
	Southern	Count	0	19	185	204
		Expected Count	.0	193.1	10.9	204.0
Total	Count	1	3942	222	4165	
	Expected Count	1.0	3942.0	222.0	4165.0	

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	7262.122 ^a	4	<.001
Likelihood Ratio	1206.393	4	<.001
N of Valid Cases	4165		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Symmetric Measures^a

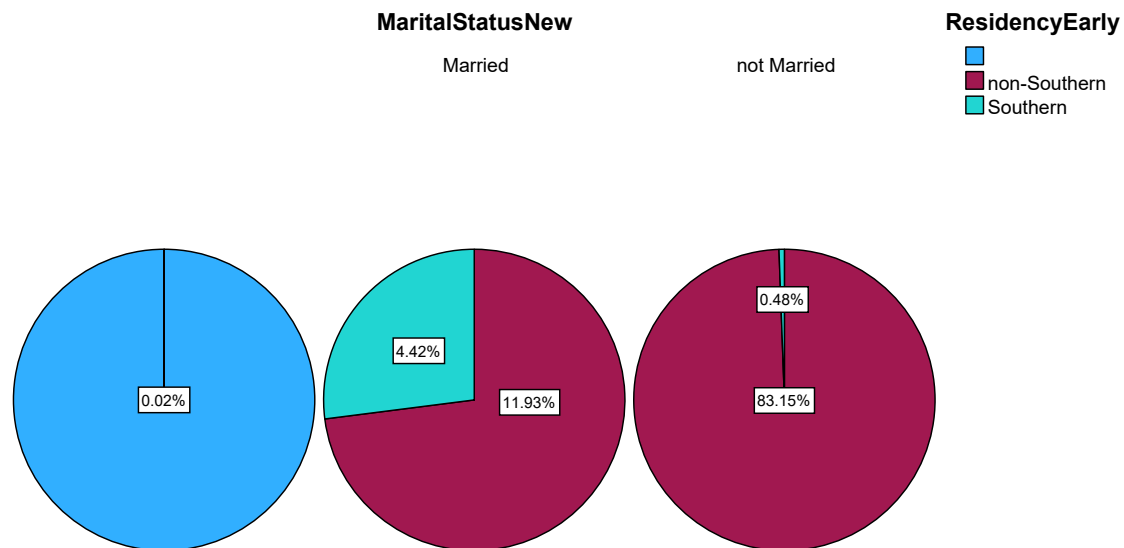
	Value
N of Valid Cases	4165

a. Correlation statistics are available for numeric data only.

Graph

Notes

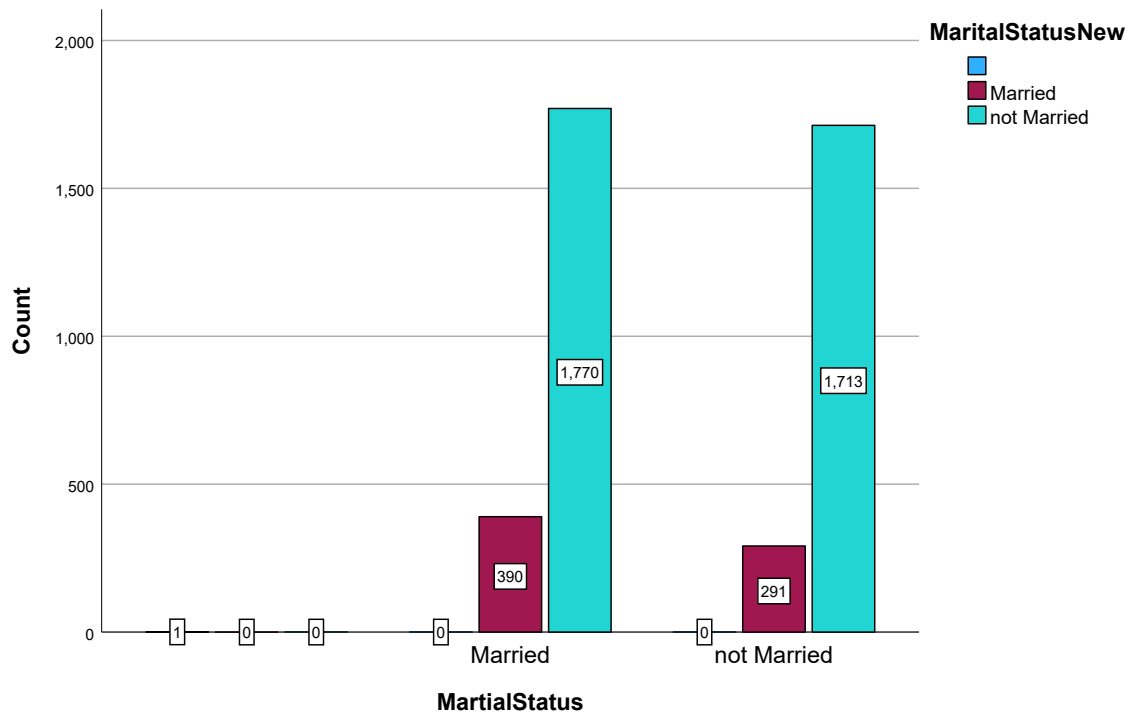
Output Created		03-FEB-2025 13:27:12
Comments		
Input	Data	C: \Users\sb3218a\OneDrive - american. edu\Desktop\SPSS_Ecdat_ Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /PIE=PCT BY ResidencyEarly /PANEL COLVAR=MaritalStatusNe w COLOP=CROSS.
Resources	Processor Time	00:00:00.23
	Elapsed Time	00:00:00.19



Graph

Notes

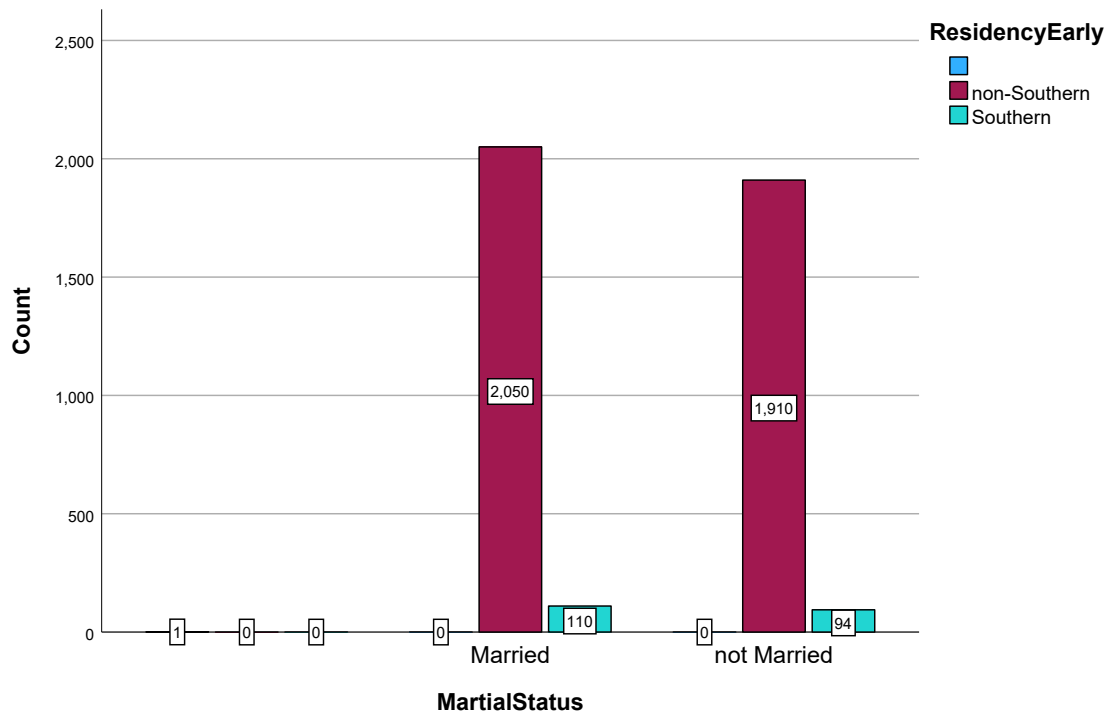
Output Created		03-FEB-2025 13:30:00
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /BAR(GROUPED) =COUNT BY MartialStatus BY MaritalStatusNew.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.13



Graph

Notes

Output Created		03-FEB-2025 13:30:38
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /BAR(GROUPED) =COUNT BY MaritalStatus BY ResidencyEarly.
Resources	Processor Time	00:00:00.14
	Elapsed Time	00:00:00.14



Univariate Analysis of Variance

Notes

Output Created		03-FEB-2025 13:32:58
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
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.

Notes

Syntax		UNIANOVA lw BY MaritalStatus /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /POSTHOC=MaritalStatus (TUKEY BONFERRONI) /PRINT ETASQ HOMOGENEITY /CRITERIA=ALPHA(.05) /DESIGN=MaritalStatus.
Resources	Processor Time	00:00:00.08
	Elapsed Time	00:00:00.11

Warnings

Post hoc tests are not performed for MaritalStatus because there are fewer than three groups.

Between-Subjects Factors

		N
MaritalStatus	Married	390
	not Married	368

Levene's Test of Equality of Error Variances^{a,b}

		Levene Statistic	df1	df2	Sig.
lw	Based on Mean	5.117	1	756	.024
	Based on Median	5.262	1	756	.022
	Based on Median and with adjusted df	5.262	1	748.679	.022
	Based on trimmed mean	5.143	1	756	.024

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: lw

b. Design: Intercept + MaritalStatus

Tests of Between-Subjects Effects

Dependent Variable: lw

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	12.373 ^a	1	12.373	73.702	<.001	.089
Intercept	24460.367	1	24460.367	145705.858	<.001	.995
MartialStatus	12.373	1	12.373	73.702	<.001	.089
Error	126.913	756	.168			
Total	24652.247	758				
Corrected Total	139.286	757				

a. R Squared = .089 (Adjusted R Squared = .088)

Explore

Notes

Output Created		03-FEB-2025 13:33:47
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=iq BY CityResidency /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.17

Warnings

Text: CityResidency Command: EXAMINE

This procedure cannot use string variables longer than 8 bytes.
The values will be truncated.

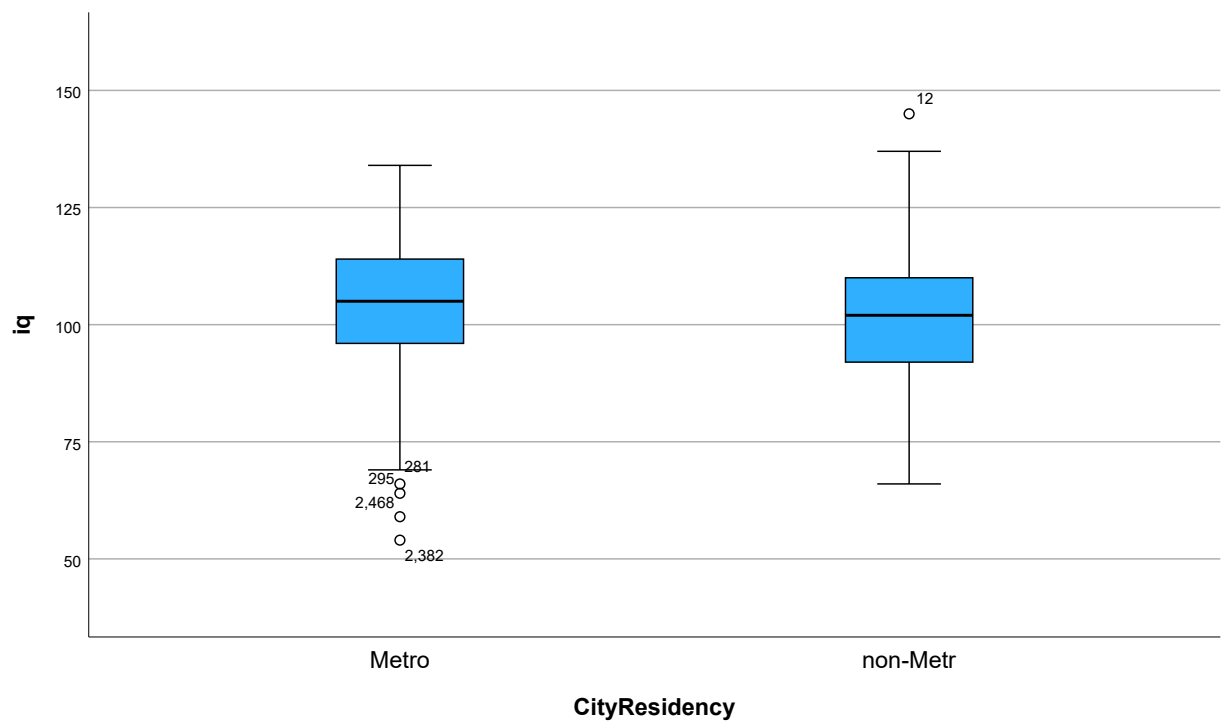
There are no valid cases for iq when CityResidency = .000.
Statistics cannot be computed for this level.

CityResidency

Case Processing Summary

		Valid		Cases Missing		Total	
	CityResidency	N	Percent	N	Percent	N	Percent
iq	Metro	534	35.8%	959	64.2%	1493	100.0%
	non-Metr	224	8.4%	2447	91.6%	2671	100.0%

iq



Explore

Notes

Output Created		03-FEB-2025 13:34:16
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=lw80 BY CityResidency1980 /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.16

Warnings

Text: CityResidency1980 Command: EXAMINE
This procedure cannot use string variables longer than 8 bytes.
The values will be truncated.

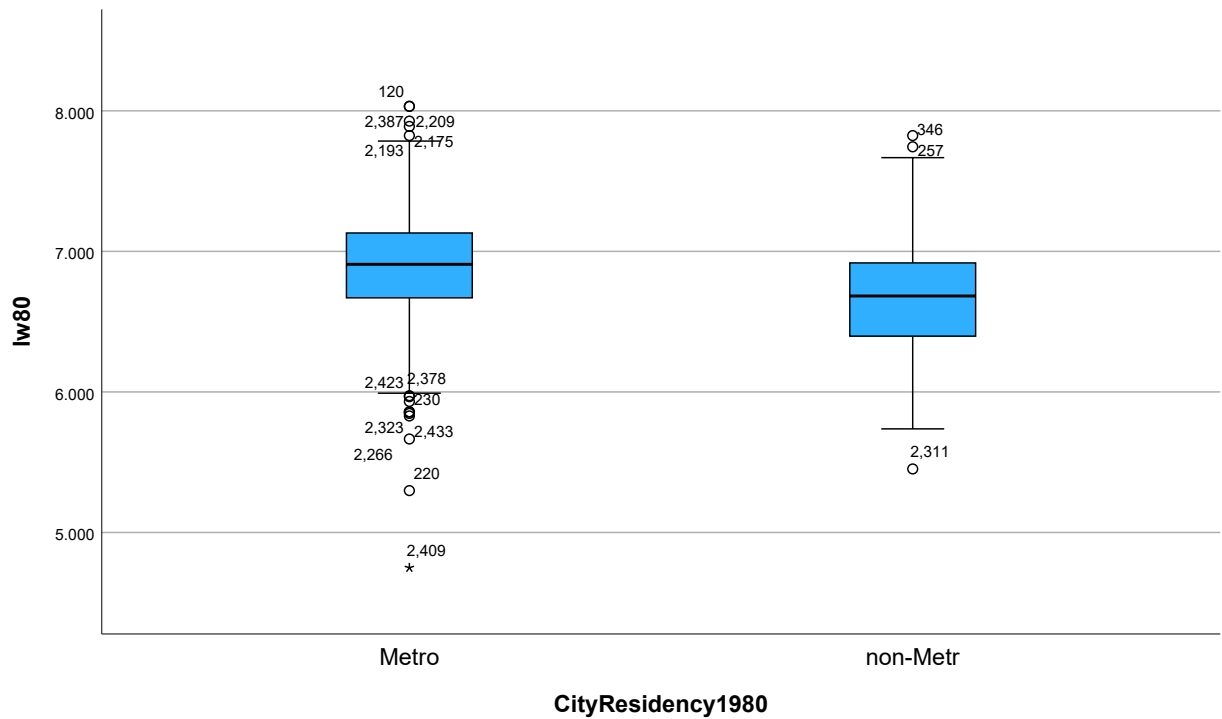
There are no valid cases for lw80 when CityResidency1980 = .
000. Statistics cannot be computed for this level.

CityResidency1980

Case Processing Summary

		Valid		Cases Missing		Total	
CityResidency1980		N	Percent	N	Percent	N	Percent
lw80	Metro	540	19.5%	2232	80.5%	2772	100.0%
	non-Metr	218	15.7%	1174	84.3%	1392	100.0%

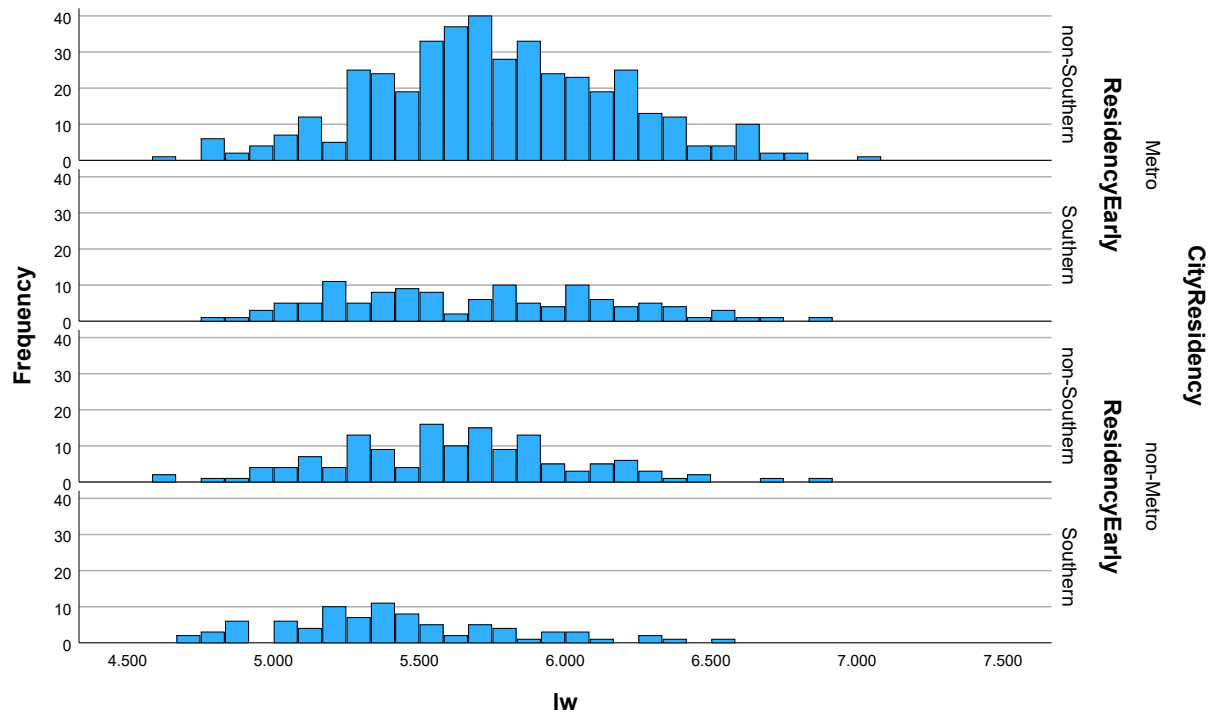
lw80



Graph

Notes

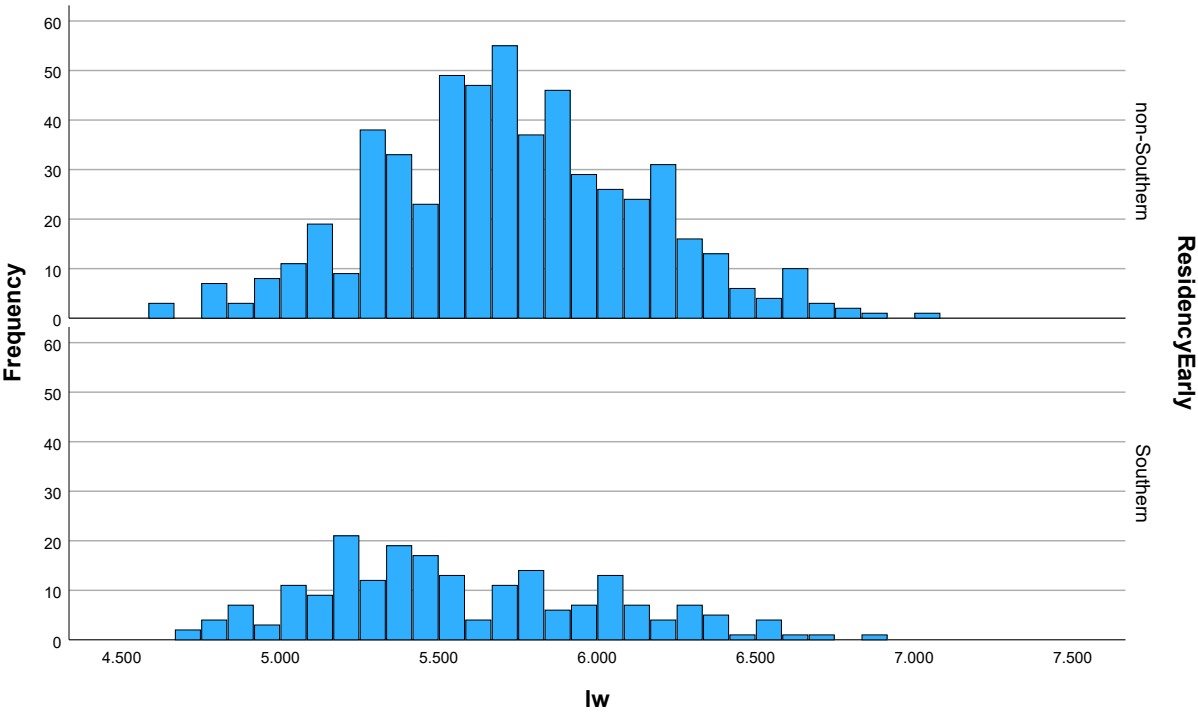
Output Created		03-FEB-2025 13:35:13
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /HISTOGRAM=lw /PANEL ROWVAR=CityResidency ResidencyEarly ROWOP=CROSS.
Resources	Processor Time	00:00:00.27
	Elapsed Time	00:00:00.20



Graph

Notes

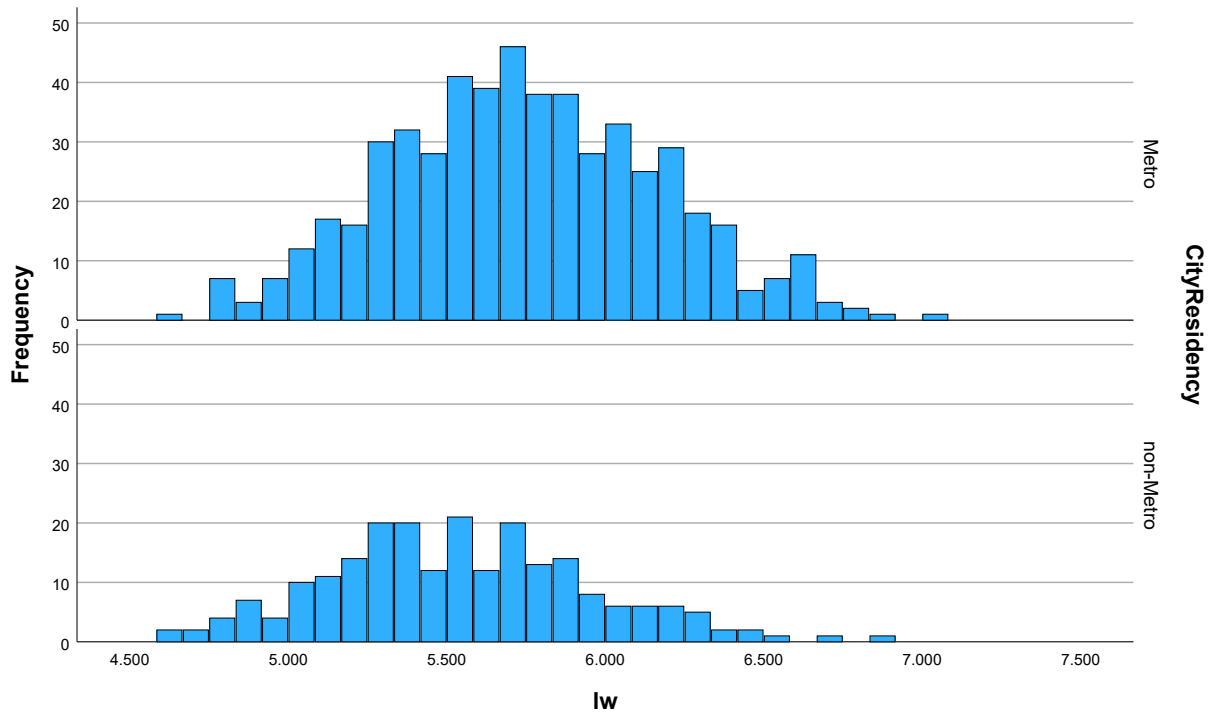
Output Created		03-FEB-2025 13:35:34
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Ecdat_Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /HISTOGRAM=lw /PANEL ROWVAR=ResidencyEarly ROWOP=CROSS.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.14



Graph

Notes

Output Created		03-FEB-2025 13:35:47
Comments		
Input	Data	C: \Users\sb3218a\OneDrive - american. edu\Desktop\SPSS_Ecdat_ Wages_data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	4165
Syntax		GRAPH /HISTOGRAM=lw /PANEL ROWVAR=CityResidency ROWOP=CROSS.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.14



Data written to the working file.

20 variables and 758 cases written.

Variable: rns Type: String Format : A3

Variable: rns80 Type: String Format : A3

Variable: mrt Type: String Format : A3

Variable: mrt80 Type: String Format : A3

Variable: smsa Type: String Format : A3

Variable: smsa80 Type: String Format : A3

Variable: med Type: Number Format : F2

Variable: iq Type: Number Format : F3

Variable: kww Type: Number Format : F2

Variable: year Type: Number Format : F2

Variable: age Type: Number Format : F2

Variable: age80 Type: Number Format : F2

Variable: school Type: Number Format : F2

Variable: school80 Type: Number Format : F2

Variable: expr Type: Number Format : F6.3

Variable: expr80 Type: Number Format : F6.3

Variable: tenure Type: Number Format : F2

Variable: tenure80 Type: Number Format : F2

Variable: lw Type: Number Format : F5.3

Variable: lw80 Type: Number Format : F5.3

Substitute the following to build syntax for these data.

~~/VARIABLES=~~

rns A3

rns80 A3

mrt A3

mrt80 A3

smsa A3

smsa80 A3

med F2

iq F3

kww F2

year F2

age F2

age80 F2

school F2

school80 F2

expr F6.3

expr80 F6.3

tenure F2

tenure80 F2

lw F5.3

lw80 F5.3

>Warning # 4684 in column 38. Text MaritalStatus

>On the RECODE command , the list of variables following the keyword INTO

>includes a string variable which is not of sufficient width to accept the

>longest string value generated by the value specifications . Long values will

>be truncated to the length of the variables .

Alter Type

Notes

Output Created		03-FEB-2025 15:29:32
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\Wages Ecdat.csv
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		ALTER TYPE rns(F3.0).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02

Altered Types

rns	A3	F3.0
-----	----	------

Alter Type

Notes

Output Created		03-FEB-2025 15:29:32
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\Wages Ecdat.csv
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		ALTER TYPE rns80(F3.0).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.03

Altered Types

rns80	A3	F3.0
-------	----	------

Alter Type

Notes

Output Created		03-FEB-2025 15:29:32
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\Wages Ecdat.csv
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		ALTER TYPE mrt(F3.0).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.45

Altered Types

mrt	A3	F3.0
-----	----	------

Alter Type

Notes

Output Created		03-FEB-2025 15:29:32
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\Wages Ecdat.csv
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		ALTER TYPE mrt80(F3.0).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.03

Altered Types

mrt80	A3	F3.0
-------	----	------

Alter Type

Notes

Output Created		03-FEB-2025 15:29:32
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\Wages Ecdat.csv
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		ALTER TYPE smsa(F3.0).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.03

Altered Types

smsa	A3	F3.0
------	----	------

Alter Type

Notes

Output Created		03-FEB-2025 15:29:32
Comments		
Input	Data	C:\Users\sb3218a\OneDrive - american.edu\Desktop\Wages Ecdat.csv
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		ALTER TYPE smsa80(F3.0).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.03

Altered Types

smsa80	A3	F3.0
--------	----	------

Data written to C:\Users\sb3218a\OneDrive - american.edu\Desktop\SPSS_Wages_Data.csv .
20 variables and 758 cases written.

Variable: med Type: Number Width: 2 Dec: 0

Variable: iq Type: Number Width: 3 Dec: 0

Variable: kww Type: Number Width: 2 Dec: 0

Variable: year Type: Number Width: 2 Dec: 0

Variable: age Type: Number Width: 2 Dec: 0

Variable: age80 Type: Number Width: 2 Dec: 0

Variable: school Type: Number Width: 2 Dec: 0

Variable: school80 Type: Number Width: 2 Dec: 0

Variable: expr Type: Number Width: 6 Dec: 3

Variable: expr80 Type: Number Width: 6 Dec: 3

Variable: tenure Type: Number Width: 2 Dec: 0

Variable: tenure80 Type: Number Width: 2 Dec: 0

Variable: lw Type: Number Width: 5 Dec: 3

Variable: lw80 Type: Number Width: 5 Dec: 3

Variable: SouthResidence Type: String Width: 8

Variable: SouthResidence_New Type: String Width: 8

Variable: MaritalStatus Type: String Width: 8

Variable: MaritalStatus_New Type: String Width: 8

Variable: MetroResidence Type: String Width: 8

Variable: MetroResidence_New Type: String Width: 8