```
* Encoding: UTF-8.
* Syntax for Analysis Example Replication ASDA3 C9, Winter 2025.
* Note no Bayesian Analysis in Complex Samples Module.

* Get NCSR data.
GET
  SAS DATA='P:\ASDA3\data sets for analysis examples and stata r code\ncsr.sas7bdat'.
DATASET NAME ncsr  WINDOW=FRONT.
```

Dataset Name

Notes

Output Created		26-FEB-2025 16:01:44
Comments		
Input	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		DATASET NAME ncsr WINDOW=FRONT.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01

Warnings

The active dataset will replace the existing dataset named ncsr.

```
* Reverse coding for models and additional variable creation.
compute revag4cat=5-ag4cat.
compute reved4cat=5-ed4cat.
compute revmar3cat=4-mar3cat.
compute sexm=(sex=1).
execute.

* Bar Chart of Work Status, Weighted by NCSRWTLG.
weight by ncsrwtlg.
show weight.
```

SHOW

Notes

Output Created		26-FEB-2025 16:01:44
Comments		
Input	Active Dataset	ncsr
	Filter	<none>
	Weight	NCSR sample part 2 weight
	Split File	<none>
	N of Rows in Working Data File	9282
Syntax		show weight.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

```
[ncsr]
```

System Settings

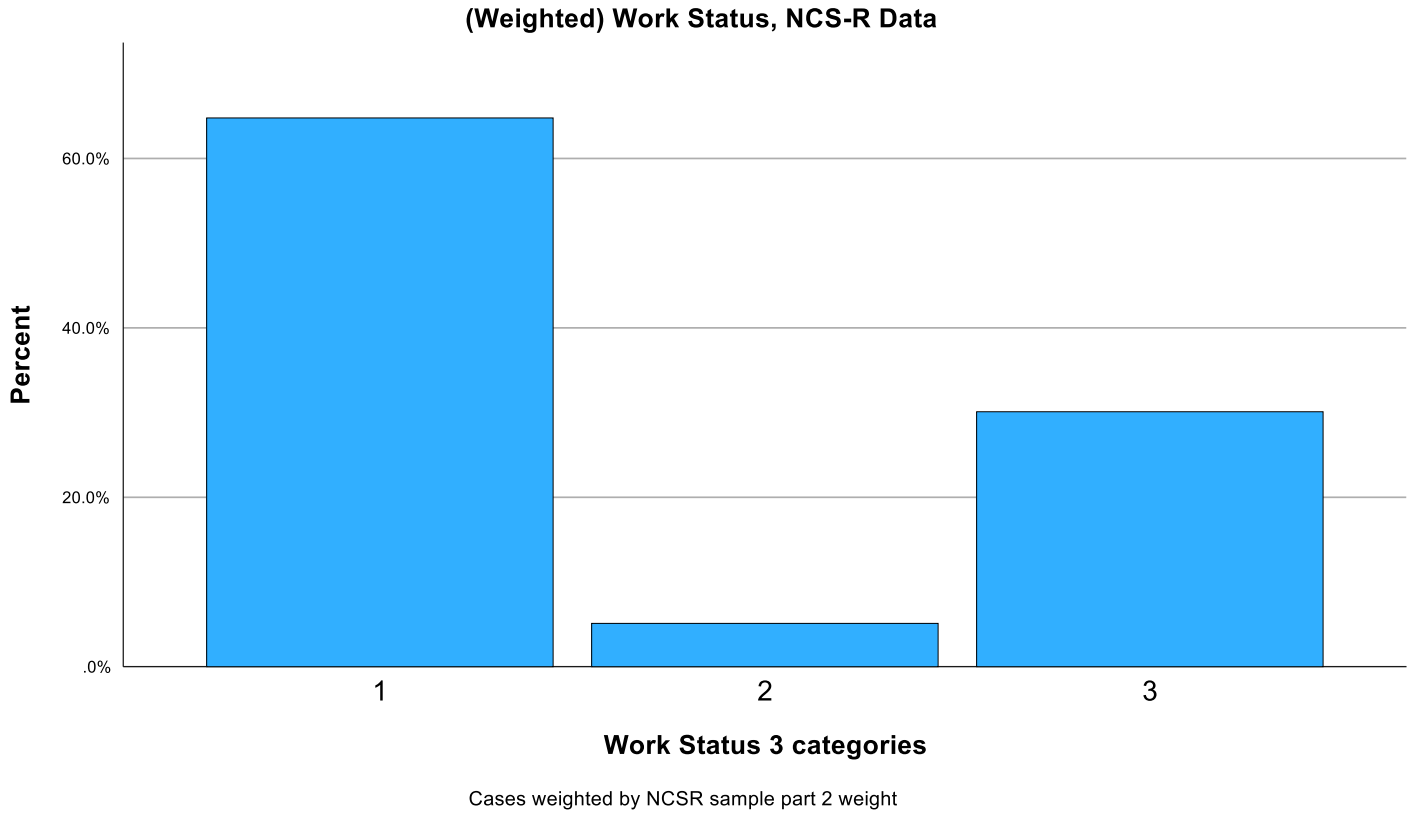
Keyword	Description	Setting
WEIGHT	Variable used to weight cases	NCSR sample part 2 weight

```
GRAPH
 /BAR(SIMPLE)=PCT BY WKSTAT3C
 /TITLE='(Weighted) Work Status, NCS-R Data'.
```

Graph

Notes

Output Created		26-FEB-2025 16:01:44
Comments		
Input	Active Dataset	ncsr
	Filter	<none>
	Weight	NCSR sample part 2 weight
	Split File	<none>
	N of Rows in Working Data File	5692
Syntax		GRAPH /BAR(SIMPLE)=PCT BY WKSTAT3C /TITLE='(Weighted) Work Status, NCS-R Data'.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.16



```
* Bivariate Relationships of Work Status and Selected Predictors. *Note that ncsr_p2wt.csaplan file
already created.
* Age 4 Categories.
CSLOGISTIC WKSTAT3C(LOW) BY revag4cat
  /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan'
 /MODEL revag4cat
 /INTERCEPT INCLUDE=YES SHOW=YES
 /STATISTICS PARAMETER EXP SE CINTERVAL TTEST
 /TEST TYPE=F PADJUST=LSD
 /MISSING CLASSMISSING=EXCLUDE
 /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95
/PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
```

Complex Samples: Logistic Regression

Notes

Output Created		26-FEB-2025 16:01:44
Comments		
Input	Active Dataset	ncsr
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	9282
	Plan File	P:\ASDA3\data sets for analysis examples and stata r code/ncsr_p2wt.csaplan
Missing Value Handling	Definition of Missing	User-defined missing values among the strata, cluster, subpopulation and factor variables are treated as missing.
	Cases Used	Only cases with valid data for all analysis variables are used in computing any statistics.
Syntax		CSLOGISTIC WKSTAT3C(LOW) BY revag4cat /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan' /MODEL revag4cat /INTERCEPT INCLUDE=YES SHOW=YES /STATISTICS PARAMETER EXP SE CINTERVAL TTEST /TEST TYPE=F PADJUST=LSD /MISSING CLASSMISSING=EXCLUDE /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95 /PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.22

Sample Design Information

	N

Unweighted Cases	Valid	5679
	Invalid	3603
	Total	9282
Population Size		5667.185
Stage 1	Strata	42
	Units	84
Sampling Design Degrees of Freedom		42

Categorical Variable Information

		Weighted Count	Weighted Percent
Work Status 3 categories[a]	1[b]	3671.472	64.8%
	2	289.817	5.1%
	3	1705.896	30.1%
revag4cat	1.00	1202.804	21.2%
	2.00	1502.135	26.5%
	3.00	1633.099	28.8%
	4.00	1329.147	23.5%
Population Size		5667.185	100.0%

a. Dependent Variable

b. Reference Category

Pseudo R Squares

Cox and Snell	.193
Nagelkerke	.243
McFadden	.135

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), revag4cat

Tests of Model Effects

Source	df1	df2	Wald F	Sig.
(Corrected Model)	6.000	37.000	106.892	<.001
(Intercept)	2.000	41.000	238.600	<.001
revag4cat	6.000	37.000	106.892	<.001

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), revag4cat

Parameter Estimates

				95% Confidence Interval		Hypothesis Test	
Work Status 3 categories	Parameter	B	Std. Error	Lower	Upper	t	df
2	(Intercept)	-3.180	.212	-3.608	-2.753	-15.001	42.000
	[revag4cat=1.00]	2.653	.248	2.152	3.153	10.687	42.000
	[revag4cat=2.00]	-.124	.231	-.590	.342	-.538	42.000
	[revag4cat=3.00]	-.136	.277	-.695	.423	-.492	42.000
	[revag4cat=4.00]	.000[a]	.	.	.	.	.
3	(Intercept)	-.955	.086	-1.130	-.781	-11.050	42.000
	[revag4cat=1.00]	1.990	.124	1.739	2.241	16.018	42.000
	[revag4cat=2.00]	-.346	.134	-.616	-.075	-2.576	42.000
	[revag4cat=3.00]	-.644	.102	-.850	-.439	-6.322	42.000
	[revag4cat=4.00]	.000[a]	.	.	.	.	.

Parameter Estimates

		Hypothesis Test		
Work Status 3 categories	Parameter		Exp(B)	95% Confidence Interval for Exp(B)

		Sig.		Lower	Upper
2	(Intercept)	<.001	.042	.027	.064
	[revag4cat=1.00]	<.001	14.190	8.599	23.417
	[revag4cat=2.00]	.593	.883	.554	1.408
	[revag4cat=3.00]	.625	.873	.499	1.526
	[revag4cat=4.00]	.	1.000	.	.
3	(Intercept)	<.001	.385	.323	.458
	[revag4cat=1.00]	<.001	7.317	5.694	9.402
	[revag4cat=2.00]	.014	.708	.540	.928
	[revag4cat=3.00]	<.001	.525	.427	.645
	[revag4cat=4.00]	.	1.000	.	.

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), revag4cat

a. Set to zero because this parameter is redundant.

```
* Sex (Male).
CSLOGISTIC WKSTAT3C(LOW) with sexm
  /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan'
 /MODEL sexm
 /INTERCEPT INCLUDE=YES SHOW=YES
 /STATISTICS PARAMETER EXP SE CINTERVAL TTEST
 /TEST TYPE=F PADJUST=LSD
 /MISSING CLASSMISSING=EXCLUDE
 /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95
/PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
```

Complex Samples: Logistic Regression

Notes

Output Created		26-FEB-2025 16:01:44
Comments		
Input	Active Dataset	ncsr
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	9282
	Plan File	P:\ASDA3\data sets for analysis examples and stata r code/ncsr_p2wt.csaplan
Missing Value Handling	Definition of Missing	User-defined missing values among the strata, cluster, subpopulation and factor variables are treated as missing.
	Cases Used	Only cases with valid data for all analysis variables are used in computing any statistics.
Syntax		CSLOGISTIC WKSTAT3C(LOW) with sexm /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan'

		/MODEL sexm /INTERCEPT INCLUDE=YES SHOW=YES /STATISTICS PARAMETER EXP SE CINTERVAL TTEST /TEST TYPE=F PADJUST=LSD /MISSING CLASSMISSING=EXCLUDE /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95 /PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.23

Sample Design Information

		N
Unweighted Cases	Valid	5679
	Invalid	3603
	Total	9282
Population Size		5667.185
Stage 1	Strata	42
	Units	84
Sampling Design Degrees of Freedom		42

Categorical Variable Information

		Weighted Count	Weighted Percent
Work Status 3 categories[a]	1[b]	3671.472	64.8%
	2	289.817	5.1%
	3	1705.896	30.1%
Population Size		5667.185	100.0%

a. Dependent Variable

b. Reference Category

Covariate Information

	Mean
Male 1=Yes 0=No	.47

Pseudo R Squares

Cox and Snell	.024
Nagelkerke	.030
McFadden	.015

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), sexm

Tests of Model Effects

Source	df1	df2	Wald F	Sig.
(Corrected Model)	2.000	41.000	21.236	<.001
(Intercept)	2.000	41.000	204.300	<.001
sexm	2.000	41.000	21.236	<.001

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), sexm

Parameter Estimates

Work Status 3 categories	Parameter	B	Std. Error	95% Confidence Interval Lower	95% Confidence Interval Upper	Hypothesis Test t	Hypothesis Test df	Si
2	(Intercept)	-2.095	.111	-2.318	-1.872	-18.944	42.000	
	sexm	-1.159	.206	-1.575	-.744	-5.629	42.000	
3	(Intercept)	-.529	.068	-.666	-.392	-7.814	42.000	
	sexm	-.518	.100	-.720	-.317	-5.193	42.000	

Parameter Estimates

Work Status 3 categories	Parameter	Exp(B)	95% Confidence Interval for Exp(B) Lower	95% Confidence Interval for Exp(B) Upper
2	(Intercept)	.123	.098	.154
	sexm	.314	.207	.475
3	(Intercept)	.589	.514	.675
	sexm	.596	.487	.728

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), sexm

```
* Alcohol Dependence (Yes).
CSLOGISTIC WKSTAT3C(LOW) with ald
  /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan'
 /MODEL ald
 /INTERCEPT INCLUDE=YES SHOW=YES
 /STATISTICS PARAMETER EXP SE CINTERVAL TTEST
 /TEST TYPE=F PADJUST=LSD
 /MISSING CLASSMISSING=EXCLUDE
 /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95
/PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
```

Complex Samples: Logistic Regression

Notes

Output Created		26-FEB-2025 16:01:44
Comments		
Input	Active Dataset	ncsr
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	9282
	Plan File	P:\ASDA3\data sets for analysis examples and stata r code/ncsr_p2wt.csaplan
Missing Value Handling	Definition of Missing	User-defined missing values among the strata, cluster, subpopulation and factor variables are treated as missing.
	Cases Used	Only cases with valid data for all analysis variables are used in computing any statistics.
Syntax		CSLOGISTIC WKSTAT3C(LOW) with ald /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan' /MODEL ald

		/INTERCEPT INCLUDE=YES SHOW=YES /STATISTICS PARAMETER EXP SE CINTERVAL TTEST /TEST TYPE=F PADJUST=LSD /MISSING CLASSMISSING=EXCLUDE /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95 /PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.22

Sample Design Information

		N
Unweighted Cases	Valid	5679
	Invalid	3603
	Total	9282
Population Size		5667.185
Stage 1	Strata	42
	Units	84
Sampling Design Degrees of Freedom		42

Categorical Variable Information

		Weighted Count	Weighted Percent
Work Status 3 categories[a]	1[b]	3671.472	64.8%
	2	289.817	5.1%
	3	1705.896	30.1%
Population Size		5667.185	100.0%

a. Dependent Variable

b. Reference Category

Covariate Information

	Mean
Alcohol Dependence 1=Yes 0=No	.05

Pseudo R Squares

Cox and Snell	.001
Nagelkerke	.001
McFadden	.001

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), ald

Tests of Model Effects

Source	df1	df2	Wald F	Sig.
(Corrected Model)	2.000	41.000	3.237	.050
(Intercept)	2.000	41.000	342.783	<.001
ald	2.000	41.000	3.237	.050

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), ald

Parameter Estimates

Work Status 3 categories	Parameter	B	Std. Error	95% Confidence Interval Lower	95% Confidence Interval Upper	Hypothesis Test t	Hypothesis Test df	Si
2	(Intercept)	-2.506	.109	-2.725	-2.286	-23.050	42.000	
	ald	-.863	.358	-1.585	-.141	-2.412	42.000	
3	(Intercept)	-.764	.046	-.856	-.671	-16.660	42.000	
	ald	-.046	.123	-.294	.202	-.373	42.000	

Parameter Estimates

Work Status 3 categories	Parameter	Exp(B)	95% Confidence Interval for Exp(B) Lower	95% Confidence Interval for Exp(B) Upper
2	(Intercept)	.082	.066	.102
	ald	.422	.205	.868
3	(Intercept)	.466	.425	.511
	ald	.955	.745	1.224

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), ald

```
* Major Depressive Episode (Yes).
CSLOGISTIC WKSTAT3C(LOW) with mde
  /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan'
 /MODEL mde
 /INTERCEPT INCLUDE=YES SHOW=YES
 /STATISTICS PARAMETER EXP SE CINTERVAL TTEST
 /TEST TYPE=F PADJUST=LSD
 /MISSING CLASSMISSING=EXCLUDE
 /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95
/PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
```

Complex Samples: Logistic Regression

Notes

Output Created		26-FEB-2025 16:01:45
Comments		
Input	Active Dataset	ncsr
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	9282
	Plan File	P:\ASDA3\data sets for analysis examples and stata r code/ncsr_p2wt.csaplan
Missing Value Handling	Definition of Missing	User-defined missing values among the strata, cluster, subpopulation and factor variables are treated as missing.
	Cases Used	Only cases with valid data for all analysis variables are used in computing any statistics.
Syntax		CSLOGISTIC WKSTAT3C(LOW) with mde /PLAN FILE='P:\ASDA3\data sets for

		analysis examples and stata r code\ncsr_p2wt.csaplan' /MODEL mde /INTERCEPT INCLUDE=YES SHOW=YES /STATISTICS PARAMETER EXP SE CINTERVAL TTEST /TEST TYPE=F PADJUST=LSD /MISSING CLASSMISSING=EXCLUDE /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95 /PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
Resources	Processor Time	00:00:00.08
	Elapsed Time	00:00:00.22

Sample Design Information

		N
Unweighted Cases	Valid	5679
	Invalid	3603
	Total	9282
Population Size		5667.185
Stage 1	Strata	42
	Units	84
Sampling Design Degrees of Freedom		42

Categorical Variable Information

		Weighted Count	Weighted Percent
Work Status 3 categories[a]	1[b]	3671.472	64.8%
	2	289.817	5.1%
	3	1705.896	30.1%
Population Size		5667.185	100.0%

a. Dependent Variable

b. Reference Category

Covariate Information

	Mean
Major Depressive Episode 1=Yes 0=No	.19

Pseudo R Squares

Cox and Snell	.001
Nagelkerke	.002
McFadden	.001

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), mde

Tests of Model Effects

Source	df1	df2	Wald F	Sig.
(Corrected Model)	2.000	41.000	6.743	.003
(Intercept)	2.000	41.000	287.226	<.001
mde	2.000	41.000	6.743	.003

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), mde

Parameter Estimates

Work Status 3 categories	Parameter	B	Std. Error	95% Confidence Interval Lower	95% Confidence Interval Upper	Hypothesis Test t	Hypothesis Test df	Si
2	(Intercept)	-2.469	.112	-2.696	-2.242	-21.949	42.000	
	mde	-.409	.122	-.654	-.163	-3.359	42.000	
3	(Intercept)	-.743	.053	-.849	-.636	-14.100	42.000	
	mde	-.125	.078	-.282	.033	-1.593	42.000	

Parameter Estimates

Work Status 3 categories	Parameter	Exp(B)	95% Confidence Interval for Exp(B) Lower	95% Confidence Interval for Exp(B) Upper
2	(Intercept)	.085	.067	.106
	mde	.664	.520	.849
3	(Intercept)	.476	.428	.529
	mde	.883	.754	1.034

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), mde

```
* Education 4 Categories.
CSLOGISTIC WKSTAT3C(LOW) by reved4cat
  /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan'
 /MODEL reved4cat
 /INTERCEPT INCLUDE=YES SHOW=YES
 /STATISTICS PARAMETER EXP SE CINTERVAL TTEST
 /TEST TYPE=F PADJUST=LSD
 /MISSING CLASSMISSING=EXCLUDE
 /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95
/PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
```

Complex Samples: Logistic Regression

Notes

Output Created		26-FEB-2025 16:01:45
Comments		
Input	Active Dataset	ncsr
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	9282
	Plan File	P:\ASDA3\data sets for analysis examples and stata r code/ncsr_p2wt.csaplan
Missing Value Handling	Definition of Missing	User-defined missing values among the strata, cluster, subpopulation and factor variables are treated as missing.

	Cases Used	Only cases with valid data for all analysis variables are used in computing any statistics.
Syntax		CSLOGISTIC WKSTAT3C(LOW) by reved4cat /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan' /MODEL reved4cat /INTERCEPT INCLUDE=YES SHOW=YES /STATISTICS PARAMETER EXP SE CINTERVAL TTEST /TEST TYPE=F PADJUST=LSD /MISSING CLASSMISSING=EXCLUDE /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95 /PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
Resources	Processor Time	00:00:00.08
	Elapsed Time	00:00:00.22

Sample Design Information

		N
Unweighted Cases	Valid	5679
	Invalid	3603
	Total	9282
Population Size		5667.185
Stage 1	Strata	42
	Units	84
Sampling Design Degrees of Freedom		42

Categorical Variable Information

		Weighted Count	Weighted Percent
Work Status 3 categories[a]	1[b]	3671.472	64.8%
	2	289.817	5.1%
	3	1705.896	30.1%
reved4cat	1.00	1315.579	23.2%
	2.00	1567.870	27.7%
	3.00	1848.467	32.6%
	4.00	935.269	16.5%
Population Size		5667.185	100.0%

a. Dependent Variable

b. Reference Category

Pseudo R Squares

Cox and Snell	.056
Nagelkerke	.070
McFadden	.036

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), reved4cat

Tests of Model Effects

Source	df1	df2	Wald F	Sig.
(Corrected Model)	6.000	37.000	30.020	<.001
(Intercept)	2.000	41.000	345.431	<.001
reved4cat	6.000	37.000	30.020	<.001

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), reved4cat

Parameter Estimates

Work Status 3 categories	Parameter	B	Std. Error	95% Confidence Interval Lower	95% Confidence Interval Upper	Hypothesis Test t	Hypothesis Test df
2	(Intercept)	-1.502	.219	-1.945	-1.059	-6.846	42.000
	[reved4cat=1.00]	-1.894	.270	-2.438	-1.349	-7.015	42.000
	[reved4cat=2.00]	-1.462	.245	-1.957	-.967	-5.957	42.000
	[reved4cat=3.00]	-.846	.223	-1.295	-.396	-3.796	42.000
	[reved4cat=4.00]	.000[a]	.	.	.	.	.
3	(Intercept)	.108	.096	-.086	.301	1.124	42.000
	[reved4cat=1.00]	-1.451	.151	-1.756	-1.147	-9.630	42.000
	[reved4cat=2.00]	-1.138	.130	-1.400	-.875	-8.745	42.000
	[reved4cat=3.00]	-.755	.128	-1.014	-.496	-5.885	42.000
	[reved4cat=4.00]	.000[a]	.	.	.	.	.

Parameter Estimates

Work Status 3 categories	Parameter	Hypothesis Test Sig.	Exp(B)	95% Confidence Interval for Exp(B) Lower	95% Confidence Interval for Exp(B) Upper
2	(Intercept)	<.001	.223	.143	.347
	[reved4cat=1.00]	<.001	.151	.087	.260
	[reved4cat=2.00]	<.001	.232	.141	.380
	[reved4cat=3.00]	<.001	.429	.274	.673
	[reved4cat=4.00]	.	1.000	.	.
3	(Intercept)	.267	1.114	.918	1.352
	[reved4cat=1.00]	<.001	.234	.173	.317
	[reved4cat=2.00]	<.001	.320	.246	.417
	[reved4cat=3.00]	<.001	.470	.363	.609
	[reved4cat=4.00]	.	1.000	.	.

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), reved4cat

a. Set to zero because this parameter is redundant.

```
* Marital Status 3 Categories.
CSLOGISTIC WKSTAT3C(LOW) by revmar3cat
  /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan'
 /MODEL revmar3cat
 /INTERCEPT INCLUDE=YES SHOW=YES
 /STATISTICS PARAMETER EXP SE CINTERVAL TTEST
 /TEST TYPE=F PADJUST=LSD
 /MISSING CLASSMISSING=EXCLUDE
 /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95
/PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
```

Complex Samples: Logistic Regression

Notes

Output Created		26-FEB-2025 16:01:45
Comments		
Input	Active Dataset	ncsr
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	9282
	Plan File	P:\ASDA3\data sets for analysis examples and stata r code/ncsr_p2wt.csaplan
Missing Value Handling	Definition of Missing	User-defined missing values among the strata, cluster, subpopulation and factor variables are treated as missing.
	Cases Used	Only cases with valid data for all analysis variables are used in computing any statistics.
Syntax		CSLOGISTIC WKSTAT3C(LOW) by revmar3cat /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan' /MODEL revmar3cat /INTERCEPT INCLUDE=YES SHOW=YES /STATISTICS PARAMETER EXP SE CINTERVAL TTEST /TEST TYPE=F PADJUST=LSD /MISSING CLASSMISSING=EXCLUDE /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95 /PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
Resources	Processor Time	00:00:00.08
	Elapsed Time	00:00:00.23

Sample Design Information

		N
Unweighted Cases	Valid	5679
	Invalid	3603
	Total	9282
Population Size		5667.185
Stage 1	Strata	42
	Units	84
Sampling Design Degrees of Freedom		42

Categorical Variable Information

		Weighted Count	Weighted Percent
Work Status 3 categories[a]	1[b]	3671.472	64.8%
	2	289.817	5.1%

	3	1705.896	30.1%
revmar3cat	1.00	1312.250	23.2%
	2.00	1177.332	20.8%
	3.00	3177.603	56.1%
Population Size		5667.185	100.0%

a. Dependent Variable

b. Reference Category

Pseudo R Squares

Cox and Snell	.032
Nagelkerke	.040
McFadden	.021

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), revmar3cat

Tests of Model Effects

Source	df1	df2	Wald F	Sig.
(Corrected Model)	4.000	39.000	36.746	<.001
(Intercept)	2.000	41.000	252.133	<.001
revmar3cat	4.000	39.000	36.746	<.001

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), revmar3cat

Parameter Estimates

				95% Confidence Interval		Hypothesis Test	
Work Status 3 categories	Parameter	B	Std. Error	Lower	Upper	t	df
2	(Intercept)	-2.340	.127	-2.597	-2.083	-18.373	42.000
	[revmar3cat=1.00]	-2.818	.343	-3.511	-2.125	-8.208	42.000
	[revmar3cat=2.00]	.266	.190	-.119	.650	1.395	42.000
	[revmar3cat=3.00]	.000[a]	.	.	.	.	
3	(Intercept)	-.920	.056	-1.033	-.806	-16.390	42.000
	[revmar3cat=1.00]	.084	.107	-.131	.300	.789	42.000
	[revmar3cat=2.00]	.604	.100	.403	.806	6.063	42.000
	[revmar3cat=3.00]	.000[a]	.	.	.	.	

Parameter Estimates

		Hypothesis Test		95% Confidence Interval for Exp(B)	
Work Status 3 categories	Parameter	Sig.	Exp(B)	Lower	Upper
2	(Intercept)	<.001	.096	.075	.125
	[revmar3cat=1.00]	<.001	.060	.030	.119
	[revmar3cat=2.00]	.170	1.304	.888	1.916
	[revmar3cat=3.00]	.	1.000	.	.
3	(Intercept)	<.001	.399	.356	.447
	[revmar3cat=1.00]	.434	1.088	.877	1.350
	[revmar3cat=2.00]	<.001	1.830	1.497	2.238
	[revmar3cat=3.00]	.	1.000	.	.

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), revmar3cat

a. Set to zero because this parameter is redundant.

```
* Example 9.2.6 Multinomial Logistic Regression.
CSLOGISTIC WKSTAT3C(LOW) BY reved4cat revag4cat revmar3cat WITH sexm ald mde
 /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan'
 /MODEL reved4cat revag4cat revmar3cat sexm ald mde
 /INTERCEPT INCLUDE=YES SHOW=YES
 /STATISTICS PARAMETER EXP SE CINTERVAL TTEST
 /TEST TYPE=F PADJUST=LSD
 /MISSING CLASSMISSING=EXCLUDE
 /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95
/PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
```

Complex Samples: Logistic Regression

Notes

Output Created		26-FEB-2025 16:01:45
Comments		
Input	Active Dataset	ncsr
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	9282
	Plan File	P:\ASDA3\data sets for analysis examples and stata r code/ncsr_p2wt.csaplan
Missing Value Handling	Definition of Missing	User-defined missing values among the strata, cluster, subpopulation and factor variables are treated as missing.
	Cases Used	Only cases with valid data for all analysis variables are used in computing any statistics.
Syntax		CSLOGISTIC WKSTAT3C(LOW) BY reved4cat revag4cat revmar3cat WITH sexm ald mde /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\ncsr_p2wt.csaplan' /MODEL reved4cat revag4cat revmar3cat sexm ald mde /INTERCEPT INCLUDE=YES SHOW=YES /STATISTICS PARAMETER EXP SE CINTERVAL TTEST /TEST TYPE=F PADJUST=LSD /MISSING CLASSMISSING=EXCLUDE /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1E-006 RELATIVE] LCONVERGE=[0] CHKSEP=20 CILEVEL=95 /PRINT SUMMARY VARIABLEINFO SAMPLEINFO.
Resources	Processor Time	00:00:00.11
	Elapsed Time	00:00:00.27

Sample Design Information

		N
Unweighted Cases	Valid	5679
	Invalid	3603
	Total	9282
Population Size		5667.185
Stage 1	Strata	42
	Units	84
Sampling Design Degrees of Freedom		42

Categorical Variable Information

		Weighted Count	Weighted Percent
Work Status 3 categories[a]	1[b]	3671.472	64.8%
	2	289.817	5.1%
	3	1705.896	30.1%
reved4cat	1.00	1315.579	23.2%
	2.00	1567.870	27.7%
	3.00	1848.467	32.6%
	4.00	935.269	16.5%
revag4cat	1.00	1202.804	21.2%
	2.00	1502.135	26.5%
	3.00	1633.099	28.8%
	4.00	1329.147	23.5%
revmar3cat	1.00	1312.250	23.2%
	2.00	1177.332	20.8%
	3.00	3177.603	56.1%
Population Size		5667.185	100.0%

a. Dependent Variable

b. Reference Category

Covariate Information

	Mean
Male 1=Yes 0=No	.47
Alcohol Dependence 1=Yes 0=No	.05
Major Depressive Episode 1=Yes 0=No	.19

Pseudo R Squares

Cox and Snell	.253
Nagelkerke	.318
McFadden	.184

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), reved4cat, revag4cat, revmar3cat, sexm, ald, mde

Tests of Model Effects

Source	df1	df2	Wald F	Sig.
(Corrected Model)	22.000	21.000	73.913	<.001
(Intercept)	2.000	41.000	127.647	<.001
reved4cat	6.000	37.000	13.681	<.001
revag4cat	6.000	37.000	83.591	<.001
revmar3cat	4.000	39.000	24.813	<.001
sexm	2.000	41.000	35.755	<.001
ald	2.000	41.000	5.048	.011

mde	2.000	41.000	1.139	.330

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), reved4cat, revag4cat, revmar3cat, sexm, ald, mde

Parameter Estimates

Work Status 3 categories	Parameter	B	Std. Error	95% Confidence Interval		Hypothesis Test	
				Lower	Upper	t	df
2	(Intercept)	-.644	.296	-1.241	-.046	-2.174	42.000
	[reved4cat=1.00]	-1.731	.310	-2.358	-1.104	-5.575	42.000
	[reved4cat=2.00]	-1.365	.258	-1.885	-.846	-5.302	42.000
	[reved4cat=3.00]	-.847	.235	-1.322	-.372	-3.598	42.000
	[reved4cat=4.00]	.000[a]	.	.	.	.	.
	[revag4cat=1.00]	1.828	.295	1.234	2.423	6.204	42.000
	[revag4cat=2.00]	-.838	.258	-1.359	-.317	-3.246	42.000
	[revag4cat=3.00]	-.852	.295	-1.447	-.258	-2.894	42.000
	[revag4cat=4.00]	.000[a]	.	.	.	.	.
	[revmar3cat=1.00]	-2.785	.380	-3.552	-2.017	-7.323	42.000
	[revmar3cat=2.00]	-.590	.225	-1.044	-.135	-2.619	42.000
	[revmar3cat=3.00]	.000[a]	.	.	.	.	.
	sexm	-1.393	.198	-1.792	-.994	-7.049	42.000
	ald	-.164	.357	-.884	.557	-.459	42.000
	mde	-.140	.157	-.457	.178	-.889	42.000
3	(Intercept)	-.379	.173	-.728	-.031	-2.194	42.000
	[reved4cat=1.00]	-1.230	.160	-1.552	-.907	-7.704	42.000
	[reved4cat=2.00]	-.917	.146	-1.213	-.621	-6.259	42.000
	[reved4cat=3.00]	-.651	.141	-.936	-.367	-4.619	42.000
	[reved4cat=4.00]	.000[a]	.	.	.	.	.
	[revag4cat=1.00]	2.381	.173	2.031	2.731	13.729	42.000
	[revag4cat=2.00]	.065	.171	-.280	.410	.380	42.000
	[revag4cat=3.00]	-.316	.129	-.576	-.057	-2.457	42.000
	[revag4cat=4.00]	.000[a]	.	.	.	.	.
	[revmar3cat=1.00]	.553	.132	.286	.820	4.176	42.000
	[revmar3cat=2.00]	-.052	.105	-.264	.160	-.498	42.000
	[revmar3cat=3.00]	.000[a]	.	.	.	.	.
	sexm	-.640	.110	-.862	-.418	-5.818	42.000
	ald	.333	.130	.070	.596	2.559	42.000
	mde	.099	.088	-.079	.276	1.120	42.000

Parameter Estimates

Work Status 3 categories	Parameter	Hypothesis Test	Exp(B)	95% Confidence Interval for Exp(B)	
		Sig.		Lower	Upper
2	(Intercept)	.035	.525	.289	.955
	[reved4cat=1.00]	<.001	.177	.095	.331
	[reved4cat=2.00]	<.001	.255	.152	.429
	[reved4cat=3.00]	<.001	.429	.267	.689
	[reved4cat=4.00]	.	1.000	.	.
	[revag4cat=1.00]	<.001	6.224	3.434	11.281

	[revag4cat=2.00]	.002	.433	.257	.728
	[revag4cat=3.00]	.006	.426	.235	.773
	[revag4cat=4.00]	.	1.000	.	.
	[revmar3cat=1.00]	<.001	.062	.029	.133
	[revmar3cat=2.00]	.012	.554	.352	.873
	[revmar3cat=3.00]	.	1.000	.	.
	sexm	<.001	.248	.167	.370
	ald	.649	.849	.413	1.745
	mde	.379	.870	.633	1.194
3	(Intercept)	.034	.684	.483	.970
	[reved4cat=1.00]	<.001	.292	.212	.404
	[reved4cat=2.00]	<.001	.400	.297	.537
	[reved4cat=3.00]	<.001	.521	.392	.693
	[reved4cat=4.00]	.	1.000	.	.
	[revag4cat=1.00]	<.001	10.811	7.619	15.341
	[revag4cat=2.00]	.706	1.067	.756	1.507
	[revag4cat=3.00]	.018	.729	.562	.945
	[revag4cat=4.00]	.	1.000	.	.
	[revmar3cat=1.00]	<.001	1.738	1.331	2.270
	[revmar3cat=2.00]	.621	.949	.768	1.173
	[revmar3cat=3.00]	.	1.000	.	.
	sexm	<.001	.527	.422	.658
	ald	.014	1.395	1.073	1.815
	mde	.269	1.104	.924	1.318

Dependent Variable: Work Status 3 categories (reference category = 1)
Model: (Intercept), reved4cat, revag4cat, revmar3cat, sexm, ald, mde

a. Set to zero because this parameter is redundant.

```
**NOTE add test for work status and education levels not directly available in SPSS, see documentation
for advanced custom testing.

* Average Marginal Effects Not Available in CSLOGISTIC, nor is GOF test such as mlogitgof of Stata.
* Bayesian Approach Not Available in CSLOGISTIC.
```

```
* Example 9.3.6 Cumulative Logit Regression using Russian Federation Data.
GET
  SAS DATA='P:\ASDA3\data sets for analysis examples and stata r code\ess6_russia.sas7bdat'.
DATASET NAME Russia WINDOW=FRONT.
```

Dataset Name

Notes

Output Created		26-FEB-2025 16:01:46
Comments		
Input	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		DATASET NAME Russia WINDOW=FRONT.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Warnings

The active dataset will replace the existing dataset named Russia.

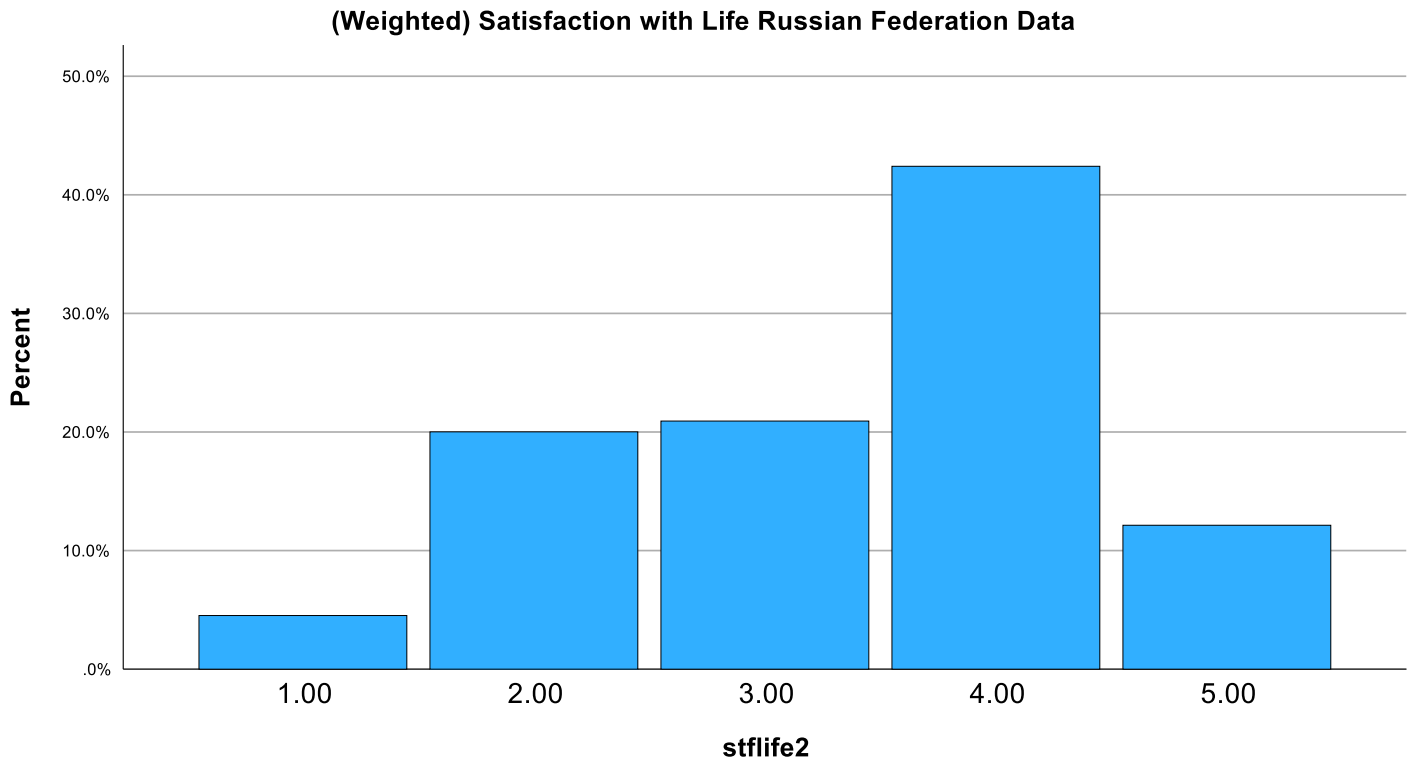
```
recode stflife (sysmis=sysmis) (0 thru 1=1) (2 thru 4 =2) (5=3) (6 thru 8=4) (9 thru 10=5) into
stflife2.
execute.

* Use PSPWGHT.
weight by pspwght.

GRAPH
 /BAR(SIMPLE)=PCT BY stflife2
 /TITLE='(Weighted) Satisfaction with Life Russian Federation Data'.
```

Graph

Notes

Output Created		26-FEB-2025 16:01:46
Comments		
Input	Active Dataset	Russia
	Filter	<none>
	Weight	Post-stratification weight including design weight
	Split File	<none>
	N of Rows in Working Data File	2484
Syntax		GRAPH /BAR(SIMPLE)=PCT BY stflife2 /TITLE='(Weighted) Satisfaction with Life Russian Federation Data'.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.14

```
[Russia]
```



Cases weighted by Post-stratification weight including design weight

```
* Turn off weight.
weight off.
```

```
* Compute variables needed for model.
compute revagecat=5-agecat.
compute revmarcat=4-marcat.
compute male=(gndr=1).
execute.

CSORDINAL stflife2 (ASCENDING) BY revagecat revmarcat WITH male
 /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\russia_csplan.csaplan'
 /LINK FUNCTION=LOGIT
 /MODEL revagecat revmarcat male
 /STATISTICS PARAMETER EXP SE CINTERVAL TTEST
 /NONPARALLEL TEST
 /TEST TYPE=F PADJUST=LSD
 /MISSING CLASSMISSING=EXCLUDE
 /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1e-006 RELATIVE] LCONVERGE=[0] METHOD=NEWTON CHKSEP=20
CILEVEL=95
 /PRINT SUMMARY SAMPLEINFO.
```

Complex Samples: Ordinal Regression Notes

Output Created		26-FEB-2025 16:01:46
Comments		
Input	Active Dataset	Russia
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	2484
	Plan File	P:\ASDA3\data sets for analysis examples and stata r code\russia_csplan.csaplan
Missing Value Handling	Definition of Missing	User-defined missing values among the strata, cluster, subpopulation and factor variables are treated as missing.
	Cases Used	Only cases with valid data for all analysis variables are used in computing any statistics.
Syntax		CSORDINAL stflife2 (ASCENDING) BY revagecat revmarcat WITH male /PLAN FILE='P:\ASDA3\data sets for analysis examples and stata r code\russia_csplan.csaplan' /LINK FUNCTION=LOGIT /MODEL revagecat revmarcat male /STATISTICS PARAMETER EXP SE CINTERVAL TTEST /NONPARALLEL TEST /TEST TYPE=F PADJUST=LSD /MISSING CLASSMISSING=EXCLUDE /CRITERIA MXITER=100 MXSTEP=5 PCONVERGE=[1e-006 RELATIVE] LCONVERGE=[0] METHOD=NEWTON CHKSEP=20 CILEVEL=95 /PRINT SUMMARY SAMPLEINFO.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.21

Sample Design Information

		N
Unweighted Cases	Valid	2415
	Invalid	69
	Total	2484
Population Size		2422.138
Stage 1	Strata	8
	Units	184
Sampling Design Degrees of Freedom		176

Pseudo R Squares

Cox and Snell	.030
Nagelkerke	.031
McFadden	.011

Dependent Variable: stflife2 (Ascending)
Model: (Threshold), revagecat, revmarcat, male
Link function: Logit

Tests of Model Effects

Source	df1	df2	Wald F	Sig.
revagecat	3.000	174.000	10.271	<.001
revmarcat	2.000	175.000	2.190	.115
male	1.000	176.000	1.325	.251

Dependent Variable: stflife2 (Ascending)
Model: (Threshold), revagecat, revmarcat, male
Link function: Logit

Parameter Estimates

				95% Confidence Interval		Hypothesis Test		
Parameter		B	Std. Error	Lower	Upper	t	df	Sig.
Threshold	[stflife2=1.00]	-3.711	.214	-4.134	-3.288	-17.307	176.000	<.001
	[stflife2=2.00]	-1.793	.167	-2.122	-1.464	-10.747	176.000	<.001
	[stflife2=3.00]	-.835	.159	-1.149	-.521	-5.243	176.000	<.001
	[stflife2=4.00]	1.384	.154	1.081	1.687	9.009	176.000	<.001
Regression	[revagecat=1.00]	-.808	.166	-1.135	-.481	-4.879	176.000	<.001
	[revagecat=2.00]	-.746	.143	-1.028	-.463	-5.202	176.000	<.001
	[revagecat=3.00]	-.529	.136	-.798	-.261	-3.888	176.000	<.001
	[revagecat=4.00]	.000[a]	.	.	.	.	.	.
	[revmarcat=1.00]	-.137	.132	-.398	.123	-1.039	176.000	.300
	[revmarcat=2.00]	-.209	.105	-.417	-.001	-1.981	176.000	.049
	[revmarcat=3.00]	.000[a]	.	.	.	.	.	.
	male	-.110	.095	-.298	.078	-1.151	176.000	.251

Parameter Estimates

			95% Confidence Interval for Exp(B)	
Parameter		Exp(B)	Lower	Upper
Threshold	[stflife2=1.00]	.024	.016	.037
	[stflife2=2.00]	.166	.120	.231
	[stflife2=3.00]	.434	.317	.594
	[stflife2=4.00]	3.991	2.947	5.405
Regression	[revagecat=1.00]	.446	.321	.618
	[revagecat=2.00]	.474	.358	.630
	[revagecat=3.00]	.589	.450	.771

	[revagecat=4.00]	1.000	.	.
	[revmarcat=1.00]	.872	.672	1.131
	[revmarcat=2.00]	.811	.659	.999
	[revmarcat=3.00]	1.000	.	.
	male	.896	.743	1.081

Dependent Variable: stflife2 (Ascending)
Model: (Threshold), revagecat, revmarcat, male
Link function: Logit

a. Set to zero because this parameter is redundant.

Generalized Cumulative Model

Test of Parallel Lines

df1	df2	Wald F	Sig.
18.000	159.000	1.005	.457

Dependent Variable: stflife2 (Ascending)
Model: (Threshold), revagecat, revmarcat, male
Link function: Logit

```
* No GOF Test for Ordinal Logistic Regression Available.
* No Bayesian Analysis Available.
```

```
* Example 9.4.1 Count Model Not Available in the Complex Samples commands in SPSS v29.


* Evaluate Number of Falls from HRS Data.
GET
  SAS DATA='P:\ASDA3\data sets for analysis examples and stata r code\hrs12.sas7bdat'.
DATASET NAME HRS WINDOW=FRONT.
```

Dataset Name

Notes

Output Created		26-FEB-2025 16:01:47
Comments		
Input	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		DATASET NAME HRS WINDOW=FRONT.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.00

Warnings

The active dataset will replace the existing dataset named HRS.

```
WEIGHT BY nwgtr.
SHOW WEIGHT.
```

SHOW

Notes

Output Created		26-FEB-2025 16:01:47
Comments		
Input	Active Dataset	HRS
	Filter	<none>
	Weight	2012 WEIGHT: RESPONDENT LEVEL
	Split File	<none>
Syntax		SHOW WEIGHT.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

```
[HRS]
```

System Settings

Keyword	Description	Setting
WEIGHT	Variable used to weight cases	2012 WEIGHT: RESPONDENT LEVEL

```
COMPUTE filter_65=(AGE65P = 1.).
FILTER BY filter_65.
EXECUTE.

Warning # 3211
On at least one case, the value of the weight variable was zero, negative, or
missing.  Such cases are invisible to statistical procedures and graphs which
need positively weighted cases, but remain on the file and are processed by
non-statistical facilities such as LIST and SAVE.
SHOW FILTER.
```

SHOW

Notes

Output Created		26-FEB-2025 16:01:47
Comments		
Input	Active Dataset	HRS
	Filter	filter_65
	Weight	2012 WEIGHT: RESPONDENT LEVEL
	Split File	<none>
	N of Rows in Working Data File	10283
Syntax		SHOW FILTER.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

System Settings

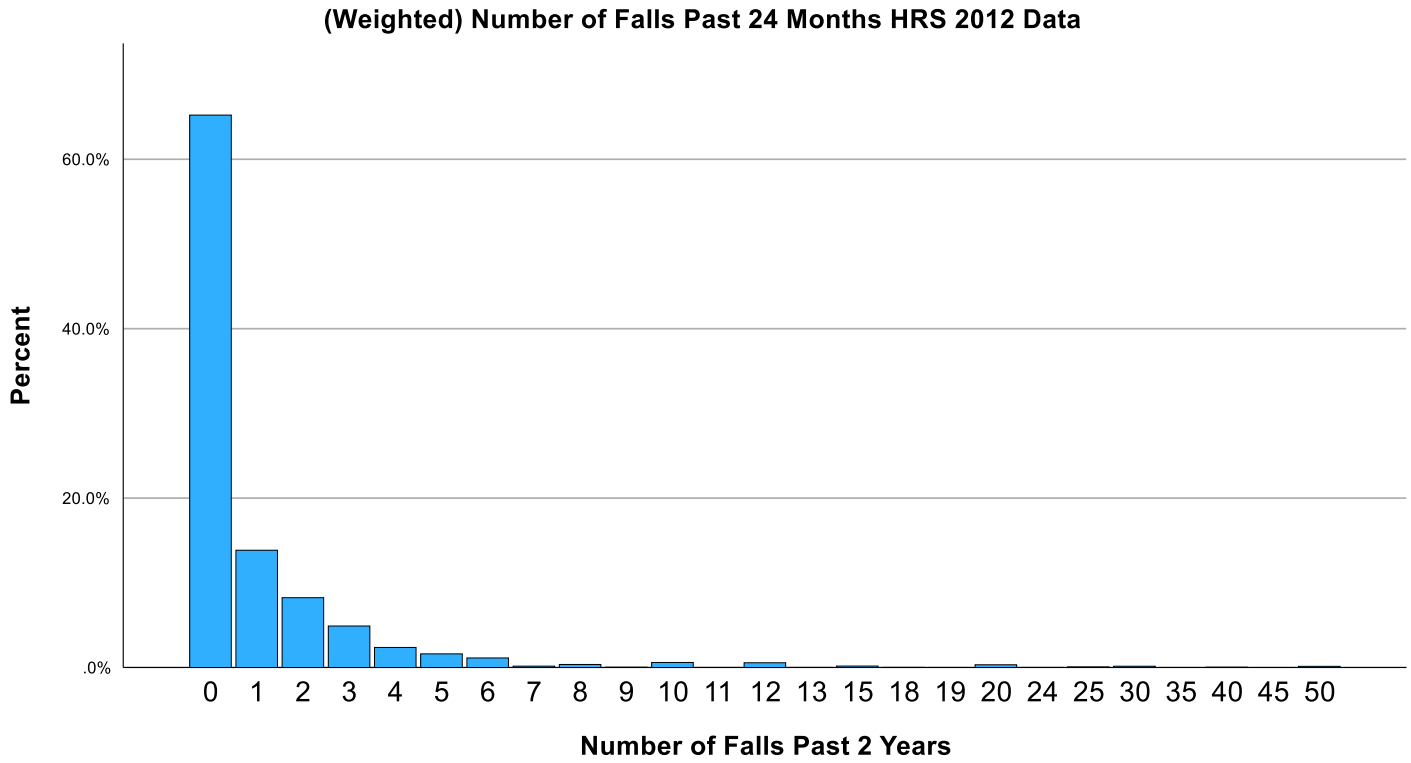
Keyword	Description	Setting
FILTER	Filter variable	filter_65

```
* Bar Graph of Number of Falls Past 24 Months, Weighted by Respondent Weight.
GRAPH
 /BAR(SIMPLE)=PCT BY numfalls24
 /TITLE='(Weighted) Number of Falls Past 24 Months HRS 2012 Data'.
```

Graph

Notes

Output Created		26-FEB-2025 16:01:48
Comments		
Input	Active Dataset	HRS
	Filter	filter_65
	Weight	2012 WEIGHT: RESPONDENT LEVEL
	Split File	<none>
	N of Rows in Working Data File	10283
Syntax		GRAPH /BAR(SIMPLE)=PCT BY numfalls24 /TITLE='(Weighted) Number of Falls Past 24 Months HRS 2012 Data'.
Resources	Processor Time	00:00:00.06
	Elapsed Time	00:00:00.17



Cases weighted by 2012 WEIGHT: RESPONDENT LEVEL

```
Warning # 3211
On at least one case, the value of the weight variable was zero, negative, or
missing.  Such cases are invisible to statistical procedures and graphs which
need positively weighted cases, but remain on the file and are processed by
non-statistical facilities such as LIST and SAVE.
```

```
* Export Output.
OUTPUT EXPORT
  /CONTENTS  EXPORT=ALL  LAYERS=PRINTSETTING  MODELVIEWS=PRINTSETTING
  /DOC  DOCUMENTFILE='P:\ASDA3\Replication SPSS 29\Chapter 9\Analysis Example Replication ASDA3 '+
    'SPSS C9 Code and Results.docx'
     NOTESCAPTIONS=YES  WIDETABLES=WRAP PAGEBREAKS=YES
     PAGESIZE=INCHES(8.5, 11.0)  TOPMARGIN=INCHES(1.0)  BOTTOMMARGIN=INCHES(1.0).
```