How can I limit the number of observations used by SUDAAN?

Authored by

stats writer

July 1, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I limit the number of observations used by SUDAAN?*. PSYCHOLOGICAL SCALES. Retrieved from https://scales.arabpsychology.com/?p=165148

ARABPSYCHOLOGY.COM

SUDAAN is a software package used for analyzing complex survey data. It allows researchers to account for the complex sampling designs commonly used in surveys and provides accurate estimates of population parameters. In order to improve the efficiency and speed of data analysis, the option to limit the number of observations used by SUDAAN is available. This feature allows researchers to specify a subset of the data to be used in the analysis, reducing the computational burden and potentially improving the speed of the analysis. By limiting the number of observations, researchers can also focus on specific subgroups of the population and obtain more precise estimates for these groups. This flexibility in data selection can help researchers tailor their analysis to their specific research questions and improve the accuracy of their findings.

How can I limit the number of observations used by SUDAAN? | SUDAAN FAQ

If you are working with a very large data set and you find that running
procedures takes a while, you can use the maxobs = option on the proc
statement of all analysis procedures to limit the number of observations that
are read in. This can be very useful when you are debugging a program.
Just remember to delete that option when you have the programming working
correctly. Compare the results of the two proc reg calls below.

```
proc regress data=temp1 filetype=sas design = jackknife maxobs = 1000;
```

ARABPSYCHOLOGY.COM

weight rakedw0;

jackwgts rakedw1--rakedw80 / adjjack=1;

model ae13 = ae14;

run;

Number of observations read : 1000 Weighted count: 431947

Observations used in the analysis : 591 Weighted count: 242364

Denominator degrees of freedom : 80

Maximum number of estimable parameters for the model is 2

Weighted mean response is 2.262239

Multiple R-Square for the dependent variable AE13: 0.216196

Variance Estimation Method: Replicate Weight Jackknife

Working Correlations: Independent

Link Function: Identity

Response variable AE13: AE13

Independent P-value

ARABPSYCHOLOGY.COM

Variables and Beta T-Test

Effects Coeff. SE Beta T-Test B=0 B=0

Intercept 1.96 0.11 17.83 0.0000

AE14 0.32 0.08 3.78 0.0003

Contrast Degrees

of P-value

Freedom Wald F Wald F

OVERALL MODEL 2 197.90 0.0000

MODEL MINUS

INTERCEPT 1 14.29 0.0003

INTERCEPT 1 317.85 0.0000

AE14 1 14.29 0.0003

```
proc regress data=temp1 filetype=sas design = jackknife;
weight rakedw0;
jackwgts rakedw1--rakedw80 / adjjack=1;
```

ARABPSYCHOLOGY.COM

model ae13 = ae14;

run;

Number of observations read : 55428 Weighted count: 23847415

Observations used in the analysis : 32538 Weighted count: 13783845

Denominator degrees of freedom : 80

Maximum number of estimable parameters for the model is 2

Weighted mean response is 2.188590

Multiple R-Square for the dependent variable AE13: 0.241897

Variance Estimation Method: Replicate Weight Jackknife

Working Correlations: Independent

Link Function: Identity

Response variable AE13: AE13

Independent P-value

Variables and Beta T-Test

Effects Coeff. SE Beta T-Test B=0 B=0

ARABPSYCHOLOGY.COM

Intercept 1.88 0.01 152.15 0.0000

AE14 0.34 0.01 25.47 0.0000

Contrast Degrees

of P-value

Freedom Wald F Wald F

OVERALL MODEL 2 12818.28 0.0000

MODEL MINUS

INTERCEPT 1 648.71 0.0000

INTERCEPT 1 23150.59 0.0000

AE14 1 648.71 0.0000

ARABPSYCHOLOGY.COM