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## *Describing the PRAMS Sample Design for SUDAAN, SAS Complex Survey, SPSS Complex Samples Modules, and STATA*

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CDC PRAMS has performed the following actions while constructing an analysis dataset for external researchers. External researchers may skip this step and proceed directly to SUDAAN/SAS/SPSS/STATA analysis (step II below).

### **I. Combine the single-year/single-state weighted PRAMS SAS datasets into a single analysis dataset.**

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- A. Restrict the dataset to respondents only:  
IF INQX=1;
- B. Combine the state stratification scheme (variable STRATUMC) and sample year (variable NEST\_YR) into a single variable:  
 $SUD\_NEST = (STRATUMC * 10000) + NEST\_YR$ ;
- C. Sort the dataset by new variable SUD\_NEST:  
PROC SORT DATA=<pramsdata>; BY SUD\_NEST;

### **II. Describe the PRAMS Sample Design to the analysis software.**

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#### **A. SUDAAN**

- 1. Use the following statements when using SUDAAN modules:  
proc crosstab data=<pramsdata> design=strwor;  
nest sud\_nest;  
totcnt totcnt;  
samcnt samcnt;  
weight wtanal;

#### **B. SAS Complex Survey**

- 1. Construct a new SAS dataset describing the population count for each sampling stratum. The new dataset will have one observation per sampling stratum and two variables: SUD\_NEST (the sampling stratum) and \_TOTAL\_ (the population count).

One method for creating this dataset is as follows:

```
Data totals_for_sas;  
Set <pramsdata> (keep= sud_nest totcnt);  
By sud_nest;  
If first.sud_nest;  
_total_=totcnt;  
Keep sud_nest _total_;  
Run;
```

2. Use the following statements when using SAS Complex Survey modules:  
proc surveyfreq data=<pramsdata> total=totals\_for\_sas;  
strata sud\_nest;  
weight wtanal;

### C. SPSS Complex Samples

1. To describe the PRAMS sample design, open your PRAMS dataset and choose Analyze/Complex samples/Prepare for Analysis/Create a plan file.
2. From the “Stage 1: Design Variables” screen:
  - a. Select variable SUD\_NEST and move it into the ‘Strata’ box
  - b. Leave the ‘Clusters’ box blank
  - c. Select variable WTANAL and move it into the ‘Sample Weight’ box
3. From the “Stage 1: Estimation Method” screen:
  - a. Choose ‘Equal WOR’
4. From the “Stage 1: Size” screen:
  - a. For ‘Units’, choose ‘Population Sizes’
  - b. Choose the ‘Read values from variable’ box, select variable TOTCNT, and move it into the box
5. From the “Stage 1: Plan Summary” screen:
  - a. Choose ‘No, do not add another stage now’
6. Save the plan file and proceed with appropriate analysis.

### D. STATA

Use the following statements when using STATA:

```
svyset fpc totcnt  
svyset pweight wtanal  
svyset strata sud_nest
```