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Survey of Inmates in State and Federal Correctional Facilities, [United States], 2004

United States Department of Justice. Office of Justice Programs. Bureau of Justice Statistics

User's Guide

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User's Guide for Survey in Inmates in State and Federal Correctional Facilities (SISFCF), 2004

This guide provides basic syntax to produce valid estimates using the 2004 SISFCF data. Examples provided use SUDAAN and produce the percentage of prisoners by veteran's status (V2602) by sex (V0005). Other software would need to follow similar requirements. Syntax using replicate weights and Taylor Series Linearization are provided. When conducting analyses, the following assumptions and requirements are necessary:

1. The 2004 public use file (PUF) has two data files: one for all state prisoners and one for all federal prisoners.
2. The structure of the weights requires a different analytic process for Taylor Series and replicate weights:
    a. *Taylor Series*. Taylor Series analyses can be conducted by jurisdiction using the final weight (V2927). The state and federal PUFs can be combined to produce a U.S. prisoner population estimate using the final weight; however, the stratum variable (V2603) needs to be made unique for state and federal facilities (i.e., if state stratum goes from 1 to 8, the federal strata values need to be changed to go from 9 to 17).
    b. *Replicate weights*. Replicate weight analyses need to be conducted by jurisdiction and sex. The four jurisdiction by sex combinations each have a unique weight variable (e.g., V2622 and V2832 are the weights for male and female state prisoners, respectively) and set of replicate weights [note: the final weight (V2927) is the same as the unique sex by jurisdiction weight]. To produce combined male/female estimates, a weighted average will need to be computed after the estimates are produced. The weighted average should be based on the weighted percentage of men and women in the population of interest (e.g., state prisoners, all prisoners).
3. For replicate weights, the jackknife multipliers indicated below are required. The multipliers are not provided on the PUF or the restricted use file (RUF) or in any other ICPSR documentation for the SISFCF 2004.
4. For Taylor Series Linearization, the stratum identifier (V2603) and the facility identifier (V2984) are required. These variables are only available on the RUF.

```
/**************** REPLICATE WEIGHTS **********************/


/* STATE MALE */

proc crosstab data=spi04_state design=jackknife;
       weight v2622;
       jackwgts v2623 – v2831.;
       jackmult 19*0.9474 43*0.9767 50*0.98 19*0.9474 14*0.9286 14*0.9286
       26*0.9615 24*0.9583;
       class  v2602 / nofreq; * veteran status;
       tables v2602;
       output rowper serow nsum wsum sewgt / filename=estimates_state_male
       filetype=sas replace;
run;



/* STATE FEMALE */
```

```
proc crosstab data=spi04_state design=jackknife;
       weight v2832;
       jackwgts v2833 - v2887;
       jackmult 5*0.8 10*0.9 15*0.93333 8*0.8750 4*0.75 3*0.6667 9*0.8889 1*0;
       class  v2602 / nofreq; * veteran status;
       tables v2602;
       output rowper serow nsum wsum sewgt / filename=estimates_state_female
       filetype=sas replace;
run;



/* FEDERAL MALE */
proc crosstab data=spi04_fed design=jackknife;
       weight v2888;
       jackwgts v2889 - v2918.;
       jackmult 5*0.8333 11*0.9091 7*0.8750 5*0.8333 2*0.6667;
       class  v2602 / nofreq; * veteran status;
       tables v2602;
       output rowper serow nsum wsum sewgt / filename=estimates_fed_male
       filetype=sas replace;
run;



/* FEDERAL FEMALE */
proc crosstab data=spi04_fed design=jackknife;
       weight v2919;
       jackwgts v2920 - v2926;
       jackmult 3*0.6667 4*0.75;
       class  v2602 / nofreq; * veteran status;
       tables v2602;
       output rowper serow nsum wsum sewgt / filename=estimates_fed_female
       filetype=sas replace;
run;

/****************** TAYLOR SERIES ****************************/

/* STATE */
proc crosstab data=spi04_state design=wr;
       weight v2927;
       nest v2603 v2984;
       class  v0005 v2602 / nofreq; * veteran status;
       tables v0005*v2602;
       output rowper serow nsum wsum sewgt / filename=estimates_state_male
       filetype=sas replace;
run;



/* FEDERAL */
proc crosstab data=spi04_fed design=wr;
       weight v2927;
       nest v2603 v2984;
       class  v0005 v2602 / nofreq; * veteran status;
       tables v0005*v2602;
       output rowper serow nsum wsum sewgt / filename=estimates_fed_female
       filetype=sas replace;
run;
```