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Subpopulation Command Resource Document

This resource document will help you use subsetting commands in SAS and Stata to properly analyze postsecondary education datasets.

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| | BPS:04/09 study respondents; NPSAS:04 and BPS:04/09 study respondents | Study respondents to all three of NPSAS:04, BPS:04/06, and BPS:04/09 | Students with at least one transcript at BPS:04/09 |
| Survey data analysis software | | | |
| Analysis weight for estimates | WTA000 | WTB000 | WTC000 |
| Taylor series variance estimation (with replacement) | | | |
| Variance estimation strata and PSU variables | BPS09STR and BPS09PSU | BPS09STR and BPS09PSU | BPS09STR and BPS09PSU |
| Software: statements, parameters, and keywords for Taylor series variance estimation (with replacement) | | | |
| SUDAAN | DESIGN = WR WEIGHT WTA000; NEST BPS09STR BPS09PSU; | DESIGN = WR WEIGHT WTB000; NEST BPS09STR BPS09PSU; | DESIGN = WR WEIGHT WTC000; NEST BPS09STR BPS09PSU; |
| Stata | svyset BPS09PSU [pweight = WTA000], strata (BPS09STR) vce(LINEARIZED) | svyset BPS09PSU [pweight = WTB000], strata (BPS09STR) vce(LINEARIZED) | svyset BPS09PSU; [pweight = WTC000], strata (BPS09STR) vce(LINEARIZED) |
| SAS survey analysis procedures | VARMETHOD = JACKKNIFE WEIGHT WTA000; STRATA BPS09STR; CLUSTER BPS09PSU; | VARMETHOD = JACKKNIFE WEIGHT WTB000; STRATA BPS09STR; CLUSTER BPS09PSU; | VARMETHOD = JACKKNIFE WEIGHT WTC000; STRATA BPS09STR; CLUSTER BPS09PSU; |
| IBM SPSS complex samples | Method: WR Weight: WTA000 Strata: BPS09STR PSU: BPS09PSU | Method: WR Weight: WTB000 Strata: BPS09STR PSU: BPS09PSU | Method: WR Weight: WTC000 Strata: BPS09STR PSU: BPS09PSU |
| Taylor series variance estimation (without replacement) | | | |
| Variance estimation strata, PSU, SSU, and count variables | FB09STR, FB09PSU, FB09SSU, and B9PSUCNT | FB09STR, FB09PSU, FB09SSU, and B9PSUCNT | FB09STR, FB09PSU, FB09SSU, and B9PSUCNT |
| Software: statements, parameters, and keywords for Taylor series variance estimation (without replacement) | | | |
| SUDAAN | DESIGN = WOR WEIGHT WTA000; NEST FB09STR FB09PSU FB09SSU; TOTCNT B9PSUCNT _minus1__zero_; | DESIGN = WOR WEIGHT WTB000; NEST FB09STR FB09PSU FB09SSU; TOTCNT B9PSUCNT _minus1__zero_; | DESIGN = WOR WEIGHT WTC000; NEST FB09STR FB09PSU FB09SSU; TOTCNT B9PSUCNT _minus1__zero_; |
| Stata | svyset FB09PSU [pw=WTA000], strata(FB09STR) fpc(PSUCOUNT) FB09SSU, vce(LINEARIZED) | svyset FB09PSU [pw=WTB000], strata(FB09STR) fpc(PSUCOUNT) FB09SSU, vce(LINEARIZED) | svyset FB09PSU [pw=WTC000], strata(FB09STR) fpc(PSUCOUNT) FB09SSU, vce(LINEARIZED) |
| Bootstrap variance estimation | | | |
| Replicate weight variables | WTA001 – WTA200 | WTB001 – WTB200 | WTC001 – WTC200 |
| Software: statements, parameters, and keywords for BRR variance estimation | | | |
| SUDAAN | DESIGN = BRR WEIGHT WTA000; REPWGT WTA001 – WTA200; | DESIGN = BRR WEIGHT WTB000; REPWGT WTB001 – WTB200; | DESIGN = BRR WEIGHT WTC000; REPWGT WTC001 – WTC200; |

See notes at end of table.

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| Survey data analysis software | BPS:04/09 study respondents; NPSAS:04 and BPS:04/09 study respondents | Study respondents to all three of NPSAS:04, BPS:04/06, and BPS:04/09 | Students with at least one transcript at BPS:04/09 |
|-------------------------------------|--|--|--|
| Stata | svyset [pweight=WTA000], brweight(WTA001 - WTA200) vce(BRR) | svyset [pweight=WTB000], brweight(WTB001 - WTB200) vce(BRR) | svyset [pweight=WTC000], brweight(WTC001 - WTC200) vce(BRR) |
| SAS survey data analysis procedures | VARMETHOD = BRR WEIGHT WTA000; REPWEIGHTS WTA001 – WTA200; | VARMETHOD = BRR WEIGHT WTB000; REPWEIGHTS WTB001 – WTB200; | VARMETHOD = BRR WEIGHT WTC000; REPWEIGHTS WTC001 – WTC200; |
| WesVar | Method: BRR Full sample weight: WTA000 Replicates: WTA001 – WTA200 | Method: BRR Full sample weight: WTB000 Replicates: WTB001 – WTB200 | Method: BRR Full sample weight: WTC000 Replicates: WTC001 – WTC200 |

Note: The survey data analysis software specifications are given for the following versions of the software packages: SUDAAN 10.0.1, Stata 12, SAS 9.2, IBM SPSS complex samples 20, and WesVar 4.3.
 SOURCE: U.S. Department of Education, National Center for Education Statistics, 2004/09 Beginning Postsecondary Students Longitudinal Study (BPS:04/09).