Appendix: SAS-Callable SUDAAN Code Used in Tables 1 and 2

Table 1: WTADJUST code

```
*The user needs to specify <inputdat>;
*This can be put inside a macro to do a separate run for each &var.;
*<numstrat> is a numeric stratification variable from the design information;
*<sudcaseid> is a numeric case ID;
*<dwt> is the design weight;
*The values in the postwgt statement are the control totals for each variable on the
class statement repeated for each level of domain;
*DOMAIN takes the value 1 for the observations in the probability data and the value
2 for the observations in the nonprobability data;
*The output variables populate what is in Table 1;

PROC WTADJUST DESIGN = STRWR ADJUST = POST DATA = <inputdat>
NOTSORTED MAXITER=500;
   NEST <numstrat>;
   IDVAR <sudcaseid>;
   WEIGHT <dwt>;
   POSTWEIGHT
    5290 106063 2196
    5290 106063 2196
    157 2077 9480 4771 39074 38429 18643 918
    157 2077 9480 4771 39074 38429 18643 918
    11810 21452 29406 46048 4833
    11810 21452 29406 46048 4833
    3852 3169 416 94984 2592 2254 6282
    3852 3169 416 94984 2592 2254 6282
    1541 108431 3577
    1541 108431 3577
    8391 19824 16859 8235 22560 2999 9180 7100 18401
    8391 19824 16859 8235 22560 2999 9180 7100 18401
    ;
    CLASS DOMAIN NUM_Q38 NUM_Q40 NUM_AGECAT NUM_CENSUSRACE
METROMICRORECODE REGION9 &var. / NOFREQS;
    VAR &var.;
    MODEL _ONE_ = NUM_Q38 NUM_Q40 NUM_AGECAT NUM_CENSUSRACE
METROMICRORECODE REGION9 / NOINT;
    LOWERBD LOWER_BOUND;
    CENTER CENTER_VAL;
    VDIFFVAR DOMAIN =(1 2);
    OUTPUT MEAN SE_MEAN T_MEAN P_MEAN / FILENAME=VDIFF_&var. REPLACE;
RUN;
```

Table 2: WTADJX Code

```
*The code can also be run within a macro across multiple values of &var.;
*Same notes as above with regard to <numstrat>, <sudcaseid>, <dwt> and
DOMAIN;
```

*The M*i* and C*i* (*i* = 1,2,3,4) variables, which correspond respectively to the components of $\mathbf{x}_k$ and $\mathbf{z}_k$ in equation (9), are for the four NOI variables with significant differences at the Bonferroni-corrected .1 level (p-value < .1/32);

```
PROC WTADJX DESIGN = STRWR ADJUST = POST DATA = <inputdat> NOTSORTED
MAXITER=500;
    NEST <numstrat>;
    IDVAR <sudcaseid>;
    WEIGHT <dwt>;
    LOWERBD lower_bound;
    CENTER center_val;
    CLASS DOMAIN NUM_Q38 NUM_Q40 NUM_AGECAT NUM_CENSUSRACE
METROMICRORECODE REGION9 &VAR. / NOFREQS;
    VAR &var.;
MODEL _ONE_ = NUM_Q38 NUM_Q40 NUM_AGECAT NUM_CENSUSRACE
METROMICRORECODE REGION9 M1 M2 M3 M4 / NOINT;
    CALVARS NUM_Q38 NUM_Q40 NUM_AGECAT NUM_CENSUSRACE
METROMICRORECODE REGION9 C1 C2 C3 C4 / NOINT;
    POSTWGT
    5290 106063 2196
    5290 106063 2196
    157 2077 9480 4771 39074 38429 18643 918
    157 2077 9480 4771 39074 38429 18643 918
    11810 21452 29406 46048 4833
    11810 21452 29406 46048 4833
    3852 3169 416 94984 2592 2254 6282
    3852 3169 416 94984 2592 2254 6282
    1541 108431 3577
    1541 108431 3577
    8391 19824 16859 8235 22560 2999 9180 7100 18401
    8391 19824 16859 8235 22560 2999 9180 7100 18401
    0 0 0 0
    ;
    VDIFFVAR DOMAIN =(1 2);
    OUTPUT MEAN SE_MEAN T_MEAN P_MEAN / FILENAME=POSTADJX_&var.
REPLACE;
RUN;
```