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DSSD A.C.E. REVISION II MEMORANDUM SERIES #PP-19

MEMORANDUM FOR   Donna Kostanich
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From: Michael Beaghen *deh for MB*
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Subject: A.C.E. Revision II: Specifications for Computer Preprocessing for
                       Missing Data Input Files for the A.C.E. Revision II

This memorandum specifies computer coding of the A.C.E. Revision II person-level data from
the A.C.E. Revision II coding to generate person-level variables included in the A.C.E. Revision
II P-sample and E-sample person-level estimation files, as specified in DSSD A.C.E. REVISION
II MEMORANDUM SERIES #PP-22, Accuracy and Coverage Evaluation Survey Revision II:
Specifications for Data Requirements and Estimation Input Files. This memorandum parallels
specifications in DSSD CENSUS 2000 PROCEDURES AND OPERATIONS
MEMORANDUM SERIES, CHAPTER S-DT-05r1, Specifications for Computer Preprocessing
for Missing Data Input Files for the Accuracy and Coverage Evaluation (A.C.E.), Revision 1.

In particular, there should be an output record for each P-sample person in the A.C.E. Revision II
sample clusters, including those P-sample people in the cluster but outside the A.C.E. Revision II
subsample.

Two variables (TES_final and WPFIN_final) are derived. The variable TES_final indicates
whether a person is a targeted extended search (TES) person in the revised data. WPFIN_final
designates P-sample households coded as a whole household match, non-match, or partial
household match. Any WPFIN_Final value found for E-sample persons should be ignored
because the final codes on which it was defined did not fully reflect match status. An A.C.E.
Revision II of Code_final (under fairly rare conditions) specified in DSSD A.C.E. REVISION II
MEMORANDUM SERIES #PP-20, A.C.E. Revision II: Specifications for Creating A.C.E.
Revision II Final Outcome Codes and A.C.E. Revision II Interview Status Codes, should be
completed before the computations in this memorandum are begun.

Information will come from the A.C.E. A.C.E. Revision II II coding output and the production and MER estimation P-sample and E-sample data found in either master data variance files (See PLANNING, RESEARCH, AND EVALUATION DIVISION TXE/2010 MEMORANDUM SERIES: CM-GES-S-01-R2R, Creation of Master Data Variance Files for Coverage Measurement Evaluations) or other MER missing data/estimation files.

Appendix A describes the new variables TES_final and WPFIN_final. Appendix B describes the variables used in the coding, such as Code_final.

Final TES Person Status (TES_final)

Assign TES_final for each person in the A.C.E. A.C.E. Revision II II sample, linking A.C.E. A.C.E. Revision II II coding output records with P-sample Master Data Variance file records:

      Except for reassignments following, TES_final = STES:
         If (SFINMAT = {KI, KP or DP} and Code_final not= {KI, KP or DP})
                                    then TES_final = RTES.
         If (SFINMAT not= {KI, KP or DP} and Code_final = {KI, KP or DP})
                                    then TES_final = 0.
         If (SFINMAT = {M, MR, MN, MU, or P} and
            Code_final = {NP, NR, NL, NN, NU, FP, NC, or GP}) then TES_final = RTES.
         If (SFINMAT = {NP, NR, NL, NN, NU, FP, NC, or GP} and
            Code_final = {M, MR, MN, MU, or P}) then TES_final = RTES.

For each person in the A.C.E. Revision sample, linking A.C.E. Revision II coding output records with E-sample Master Data Variance file and E-sample MER missing data/estimation file records:

      Except for reassignments following, TES_final = TES:
         If (BFINMAT = {KE or DE} and Code_final not= {KE or DE})
                                    then TES_final = RTES.
         If (BFINMAT not= {KE or DE} and Code_final = KE) then TES_final = 0.
         If (BFINMAT not= {KE or DE} and Code_final = DE) then TES_final = RTES
         If (HUFINMAT is blank and
          (BFINMAT = {GE or GU } and Code_final not= {KE, DE, GE, or GU }) or
          (BFINMAT not= {GE or GU } and Code_final= {GE or GU }))
                                    then TES_final = RTES.
         If Code_final = {M, MR, MN, or MU } then TES_final = 0.

Final Whole Household/Partial Household Match Code (WPFIN_final)

Assign matcode2 (temporarily) and WPFIN_final for each person in the A.C.E. Revision II P sample, linking A.C.E. Revision II coding output records with P-sample Master Data Variance file records:

       If Code_final = N, then matcode2 = RFINMAT.
          Else matcode2 = Code_final.

       If BWPFIN = 0, then WPFIN_final = 0.

       If (matcode2 = {NP, NR, NL, NN, NU, FP, or NC} for at least one person at the address) and
          (matcode2 = {M, MR, MN, or MU} for at least one other person at the address)
              then WPFIN_final = 1.

       If (matcode2 = {NP, NR, NL, NN, NU, FP, or NC} for at least one person at the address) and
          (matcode2 = {M, MR, MN, or MU} for no one at the address)
              then WPFIN_final = 2.

       If (matcode2 = {NP, NR, NL, NN, NU, FP, or NC} for no one at the address) and
          (matcode2 = {M, MR, MN, or MU} for at least one other person at the address)
              then WPFIN_final = 3.

       Else WPFIN_final = 4.

Assigning a value for WPFIN_Final to E-sample persons would have been meaningless because the final codes did not fully reflect match status. If a value of WPFIN_Final is found in files or layouts, it should be ignored.

For any questions regarding this document, please contact Glenn Wolfgang at 301-763-9276 or Michael Beaghen at 301-763-9258.

cc.   A.C.E. Missing Data Team
       Charisse Jones
       Courtney Ford

APPENDIX A - Definitions of the New Variables

TES_final (TES Person Status)

       0 =   Not a TES person.
       1 =   TES person.

WPFIN_final (Whole-Household/Partial-Household Code)

       0 =   Housing unit did not go to person matching
       1 =   Partial-household match
       2 =   Whole-household nonmatch
       3 =   Whole-household match
       4 =   All other

APPENDIX B - Definitions and Locations of Variables Used in the Coding

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Linking Keys

CLUST or Cluster   Cluster Number – in all files

MSN   A.C.E. Map Spot Number – in all P-sample files

WMSN   A.C.E. Within Map Spot Number – in all P-sample files

CID   Census Unit Identification – in all census files

SEQ   Census Sequence Identification Number – in all census files

PER   Person Number – in all files

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Variables Used to Define New Variables

TES   Production TES person flag – in E-sample Master Data Variance file
RTES MER TES person flag – in P-sample Master Data Variance file and
                                        in E-sample MER estimation/missing data file
STES MES TES person flag – in P-sample Master Data Variance file

        0   =   Not TES person
        1   =   TES person

BWPFIN   Production WPFIN – in P-sample Master Data Variance file

        0   =   Housing unit did not go to person matching
        1   =   Partial household match
        2   =   Whole household nonmatch
        3   =   Whole household match
        4   =   All other

HUFINMAT,   Housing Unit Final Match Code, (= AFNMAT_HU or HUFIN)
                                             – in E-sample Master Data Variance file

        [Code values are listed in DSSD CENSUS 2000 PROCEDURES AND OPERATIONS
MEMORANDUM SERIES, CHAPTER S-DT-1, Accuracy and Coverage Evaluation Survey:
The Design Document]

BFINMAT   Production Final Match Code – in E-sample Master Data Variance files
RFINMAT   MER Final Match Code – in P & E-sample Master Data Variance files

SFINMAT   MES Final Match Code – in P-sample Master Data Variance files
Code_final   Final match code from A.C.E. Revision II coding and processing

[Code_final codes only]

   N =   Conflicting coding – There is not enough information collected to
        determine Code_final code.
   ID =   Duplicate (inmover record)
   IF =   Fictitious (inmover record)
   IK =   Insufficient information for match and followup (inmover record)
   IN =   Non-resident on A.C.E. interview day (inmover record)
   IR =   Resident on interview day (inmover record)
   IU =   Unresolved Residency Status – for interview day (inmover record)
   IG   =   Geocoding error (inmover record)

   [Other match code values are listed in DSSD CENSUS 2000 PROCEDURES AND
   OPERATIONS MEMORANDUM SERIES, CHAPTER S-DT-1, Accuracy and
   Coverage Evaluation Survey: The Design Document]

REWGT MER Initial E-sample Weight – in E-sample Master Data Variance file

RPWGT MER Initial P-sample Weight – in P-sample Master Data Variance file