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DSSD A.C.E. REVISION II MEMORANDUM SERIES #PP-20

MEMORANDUM FOR Donna Kostanich
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Subject: 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

I. Introduction

This memorandum specifies changes in the assignment of final outcome codes and other housing-unit variables for the Census 2000 Accuracy and Coverage (A.C.E.) Evaluation Revision II relative to corresponding work in production Accuracy and Coverage Evaluation. The background and foundation for the following specifications are in DSSD CENSUS 2000 PROCEDURES AND OPERATIONS MEMORANDUM SERIES, CHAPTER Q-16, Accuracy and Coverage Evaluation Survey: Specifications for Creating A.C.E. Final Outcome Codes and A.C.E. Interview Status Codes.

In particular, this memorandum specifies the processing of person-level and housing-unit-level records to generate housing-unit-level variables. Output records should encompass all housing units in the evaluation clusters. To ensure capture of housing units with no persons, the baseline and MER housing-unit missing data output files, which are limited to the evaluation clusters, should be used. The record layout is described in DSSD CENSUS 2000 PROCEDURES AND OPERATIONS MEMORANDUM SERIES, CHAPTER Q-40, Accuracy and Coverage Evaluation Survey: Specifications for Data Requirements for Missing Data Input and Output Files.

Other information will come from the Revision coding output and the P-sample master data variance file (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). The resulting variables are to be incorporated into the P-sample housing-unit estimation file which was produced as input to the missing data programs as specified in DSSD A.C.E. REVISION II MEMORANDUM SERIES #PP-22, A.C.E. Revision II: Specifications for Data Requirements for Estimation Input Files.

A revision of Code_final (under fairly rare conditions) is also included in these computations and should be completed before most of the other computations in this or other processing steps such as those in DSSD A.C.E. REVISION II MEMORANDUM SERIES #PP-19, A.C.E. Revision II: Specifications for Computer Preprocessing for Missing Data Input Files for the Accuracy and Coverage Evaluation Revision II.

Appendix A lists the new variables, including WHHNNGP_final and WHHINNI_final. Appendix B describes the variables used in the coding, such as Code_final.

Eight variables containing household size counts or data collection status or other household categories are the focus of this specification.

II. List of Changes from Production A.C.E. Procedures

For eight of the ten variables, computer coding is described below relative to the production definition. For the other two, the computing code is specified explicitly below. Use all records relevant to each household in evaluation clusters to generate the variable value for that household record, linking A.C.E. Revision II coding output records with P-sample baseline housing unit missing data output file records.

Note that computation for WHHNNGP_final should be done before all others because any A.C.E. Revision II Code_final value should be used in other processing, and that computation for WHHINNI_final should be done after POSSPSC_final, which is used in that computation.

1. Final number of possible P-sample persons in the household on Census Day: To produce POSSPSC_final, the A.C.E. Revision II version of POSSPSC, use Code_final instead of the production match code. A Code_final value "N" (not used in production) should be included in the count along with M, MR, etc. If RPWGT = 0, then POSSPSC_final = BPOSSPSC.
2. Final number of possible P-sample persons with sufficient information for matching in the household on Census Day: NDATDFC_final should be derived from POSSPSC_final as NDATDFC was derived from POSSPSC. If RPWGT = 0, then NDATDFC_final = BNDATDFC. NDATDFC_final should be equivalent to POSSPSC_final minus the number of persons with Code_final equal to KI in the housing unit.
3. Final number of possible P-sample persons in the household on Interview Day: POSSPSI_final = BPOSSPSI.

4. Final number of possible P-sample persons with sufficient information for matching in the household on Interview Day: $NDATDFI_final = BNDATDFI$.
5. Census Day Final Outcome Code: $FINOUTC_final$ should be derived using the A.C.E. Revision II output codes instead of the production codes but using the same logic, using baseline variables $RESPLNO$ and $RESPLNI$. If $RPWGT = 0$, then $FINOUTC_final = BFINOUTC$.
6. Interview Day Final Outcome Code: $FINOUTI_final = BFINOUTI$.
7. Census Day Interview Status Code: $INTSTAC_final$ should be derived from $FINOUTC_final$ using the same pattern as $INTSTAC$ from $FINOUTC$. If $RPWGT = 0$, then $INTSTAC_final = BINTSTAC$.
8. Interview Day Interview Status Code: $INTSTAI_final = BINTSTAI$.
9. $WHHNNGP_final$ designates households coded as a whole-household group quarters/other residence or whole-household geocoding error. The computer code specification in the subsequent section is substantially different from that for $WHHNNGP$ in the production preprocessing memo.
10. $WHHINNI_final$ designates whole-household inmover noninterviews. The code specification in the subsequent section for this variable is new; no corresponding variable will be found in the production specifications.

III. Final Whole Household NN/GP Flag ($WHHNNGP_final$)

Assign $matcode1$ (temporarily) and the housing-unit's value of $WHHNNGP_final$ to each housing unit in the evaluation clusters, linking A.C.E. Revision II coding output records with P-sample baseline housing unit missing data output file records (Note: "at the address" means "with the same $CLUST$, MSN , and $WMSN$ "):

If $Code_final = \{IN, IU, IR, IK, ID, IF, \text{ or } IG\}$, then $matcode1 = \text{blank}$.
 Else $matcode1 = Code_final$.

If $RPWGT = 0$, then $WHHNNGP_final = BWHNNGP$

Else if all people at the address with nonblank $Matcode1$ have $Matcode1 = NN$
 then $WHHNNGP_final = 1$.

Else if at least one person at the address has $Matcode1 = GP$ then do:

Recode $Code_final = GP$ for all people at the address with nonblank $matcode1$.

Set $WHHNNGP_final = 2$.

Else $WHHNNGP_final = 0$.

IV. Whole Household Inmover Noninterview Flag (WHHINNI_final)

Assign whycode (temporarily) and the housing-unit's value of WHHINNI_final to each housing unit in the evaluation clusters, linking A.C.E. Revision II coding output records with P-sample Master Data Variance and both baseline and MER housing unit missing data output file records:

If Code_final = {IN, IU, IR, IK, ID, IF, or IG} , then whycode = blank.
Else whycode = Bestfy.

If (RPWGT not= 0) and
(WHHNNGP_final = 0) and
(BFINOUTC = {1, 2, or 3}) and
(whycode = {MI, MO, or MP} for at least one at that address, while
whycode = {MI, MO, MP, or blank} for all others at that address)
and (POSSPSC_final = 0),
then WHHINNI_final =1.

Else if (RPWGT not= 0) and
(WHHNNGP_final = 0) and
(BPREOUT = {1, 2, or 3}) and
(BBFUGP = 8 for at least one at that address),
then WHHINNI_final =2.

Else WHHINNI_final =0.

For any questions regarding this document, please contact Glenn Wolfgang at 301-763-9278 or Michael Beaghen at 301-763-9258.

cc. A.C.E. Missing Data Team
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APPENDIX A - New Variables

POSSPSC_final	(Final Number of Possible P-sample Persons in the Household on Census Day)
NDATDFC_final	(Final number of possible P-sample persons with sufficient information for matching in the household on Census Day)
POSSPSI_final	(Final number of possible P-sample persons in the household on Interview Day)
NDATDFI_final	(Final number of possible P-sample persons with sufficient information for matching in the household on Interview Day)
FINOUTC_final	(Census Day Final Outcome Code)
FINOUTI_final	(Interview Day Final Outcome Code)
INTSTAC_final	(Census Day Interview Status Code)
INTSTAI_final	(Interview Day Interview Status Code)

[Code values for the variables above are described in DSSD CENSUS 2000 PROCEDURES AND OPERATIONS MEMORANDUM SERIES, CHAPTER Q-16, Accuracy and Coverage Evaluation Survey: Specifications for Creating A.C.E. Final Outcome Codes and A.C.E. Interview Status Codes]

WHHNGP_final (Flag for Whole Household NN or GP)

0	=	Not Whole Household NN or GP
1	=	Whole Household NN (Group Quarters/other residence)
2	=	Whole Household GP (Geocoding Error)

WHHINNI_final (Flag for Whole Household Inmover Noninterviews)

0	=	Default
1	=	New Whole-household mover noninterview
2	=	Housing unit with at least one BFUGP=8 person

BWHNNGP Production Flag for Whole Household NN or GP
– in the baseline housing unit missing data output file

- 0 = Not Whole Household NN or GP
- 1 = Whole Household NN (Group Quarters/other residence)
- 2 = Whole Household GP (Geocoding Error)

BNDATDFC Production Number of Data-Defined P-sample Persons in the Household for Census Day – in the baseline housing unit missing data output file

BNDATDFI Production Number of Data-Defined P-sample Persons in the Household for A.C.E. Interview Day – in the baseline housing unit missing data output file

BPOSSPSC Production Total P-sample Persons in the Household for Census Day
– in the baseline housing unit missing data output file

BPOSSPSI Production Total P-sample Persons in the Household for A.C.E. Interview Day
– in the baseline housing unit missing data output file

RESPLNO (Production) Line Number of A.C.E. Respondent for Outmover Household

RESPLNI (Production) Line Number of A.C.E. Respondent for Inmover Household
– in the baseline housing unit missing data output file

RPWGT MER Initial P-sample Weight
– in the MER housing unit missing data output file

Bestfy Best Match Why Code – from A.C.E. Revision II coding

[Code values are listed in DSSD A.C.E. REVISION II MEMORANDUM SERIES #PP-6, A.C.E. Revision II Measurement Subgroup Documentation]

Code_final Final match code from A.C.E. Revision II coding and processing.

- 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]