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MASTER FILE

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Subject:	A.C.E. Revision II – Requirements for Mini-Census Person-Level File

I. Introduction

This memorandum documents the layout of the mini-census files that were created for the A.C.E. Revision II production process. Fifty-one state files were created with the name CENSUSxx.DAT, where xx represents the two-digit FIPS state code. Each of the 51 files include **all** census person records within that state, including people who were out-of-scope for the Accuracy and Coverage Evaluation (A.C.E.). Out-of-scope A.C.E. people include those people in Group Quarters and Remote Alaska.

Nearly all of the variables on the mini-census files are copied directly from the HCEF. The variables RSOURCE and REPDATE come from the HCUF. The final variable HUMSATEA is derived from a Housing Unit DSE File called CHUFO_US.DAT. This file is documented in Burcham (2002) and Hefter (2002). In addition, the mini-census files contain several variables which are assigned during the post-stratification process. This includes the variables PFULLLONG, PFULLSHORT, EFULLLONG, and EFULLSHORT which are documented in Haines (2002). Also, the variables EEXPAND and PEXPAND defined in this memorandum are included in the mini-census files.

II. Layout of Mini-Census Files

Input Files: MINICENSUS$DISK:[000000]CENSUSxx.DAT (where xx is State FIPS code)

They all have format:

Variable Name	Length	Position	Source
RT	$1	001-001	HCEF
ST	$2	002-003	HCEF
CST	$2	004-005	HCEF
COU	$3	006-008	HCEF
CCOU	$3	009-011	HCEF
TRACT	$6	012-017	HCEF
BKN	$5	018-022	HCEF
BKP	$1	023-023	HCEF
PLACE	$4	024-027	HCEF
MCD	$3	028-030	HCEF
AIR	$4	031-034	HCEF
TEA	$1	035-035	HCEF
FINST	$1	036-036	HCEF
NP	$5	037-041	HCEF
STENURE	$1	042-042	HCEF
RHHMEM	$1	043-043	HCEF
RSOURCE	$2	044-045	HCUF
REPDATE	$4	046-049	HCUF
PUID	$12	050-061	HCEF
PSEQ	$2	062-063	HCEF
PNC	$5	064-068	HCEF
QDDP	$1	069-069	HCEF
PFT	$2	070-071	HCEF
QREL	$2	072-073	HCEF
QSEX	$1	074-074	HCEF
QAGE	$3	075-077	HCEF
POSTSTR	$3	078-080	HCEF
PFULLLONG	$7	081-087	Assigned during post-stratification processing
PFULLSHORT	$4	088-091	Assigned during post-stratification processing
EFULLLONG	$7	092-098	Assigned during post-stratification processing
EFULLSHORT	$4	099-102	Assigned during post-stratification processing
RACERC	$2	103-104	HCEF
QSPAN	$3	105-107	HCEF
UBSA	$4	108-111	HCEF
EEXPAND	$4	112-115	Assigned during post-stratification processing
PEXPAND	$4	116-119	Assigned during post-stratification processing
HUMSATEA	$1	120-120	CHUFO_US.DAT (See #Q-59 and #Q-80)

NOTE: Assign A.C.E. out-of-scope persons (POSTSTR='000') to have EEXPAND and PEXPAND values of '0000.'

III. Definition of EEXPAND and PEXPAND Variables

The census component of the dual system estimates will be formed using the **full eight Age and Sex categories**. As a result, the state-level mini-census files will be post-stratified to include the variables EEXPAND and PEXPAND.

EEXPAND and PEXPAND are four-digit character variables. The first two digits are the post-stratum group number, and the third and fourth digits represent the full eight Age and Sex categories shown below:

8 Age and Sex Groups

0-9 M&F	
10-17 M&F	
18-29 M	18-29 F
30-49 M	30-49 F
50+ M	50+ F

Form EEXPAND as follows:

Digits 1 and 2: Extract first two digits from the variable EFULLSHORT. This is the post-stratum group number.

Digit 3: Age

3rd digit	Category Description	Census Variable Definition
1	0-9	$000 \leq QAGE \leq 009$
2	10-17	$010 \leq QAGE \leq 017$
3	18-29	$018 \leq QAGE \leq 029$
4	30-49	$030 \leq QAGE \leq 049$
5	50+	$QAGE \geq 050$

Digit 4: Sex

4th digit	Category Description	Census Variable Definition
1	Male	QSEX = 1
2	Female	QSEX = 2
0	Male or Female	QSEX = 1 or 2 (Assigned when 3rd digit is 1 or 2)

Form PEXPAND as follows:

Digits 1 and 2: Extract first two digits from the variable PFULLSHORT. This is the post-stratum group number.

Digit 3: Age

3rd digit	Category Description	Census Variable Definition
1	0-9	$000 \leq QAGE \leq 009$
2	10-17	$010 \leq QAGE \leq 017$
3	18-29	$018 \leq QAGE \leq 029$
4	30-49	$030 \leq QAGE \leq 049$
5	50+	$QAGE \geq 050$

Digit 4: Sex

4th digit	Category Description	Census Variable Definition
1	Male	QSEX = 1
2	Female	QSEX = 2
0	Male or Female	QSEX = 1 or 2 (Assigned when 3rd digit is 1 or 2)

IV. References

Burcham, J. (2002), "Accuracy and Coverage Evaluation Survey: Input Files for Housing Unit Dual System Estimates - Re-issue of # Q-55," DSSD Census 2000 Procedures and Operations Memorandum Series # Q-59.

Haines, D. (2002), "A.C.E. Revision II – Computer Specifications for Defining Full P- and E-Sample Post-Strata," DSSD A.C.E. REVISION II MEMORANDUM SERIES # PP-26.

Hefter, S. (2002), "Accuracy and Coverage Evaluation Survey: Computer Specifications for Housing Unit Dual System Estimation (U.S.) - Re-issue of # Q-56," DSSD Census 2000 Procedures and Operations Memorandum Series # Q-80.