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## MASTER FLLE

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Subject:
A.C.E. Revision II: Results from the Imputation for Unresolved Enumeration, Residency and Match Status

This memorandum documents the results of the assignment of probabilities of enumeration status to unresolved E-sample people and of probability of Census Day residency and/or match status to unresolved P-sample people in the Accuracy and Coverage Evaluation Revision II. Contact Michael Beaghen at Michael.A.Beaghen@Census.gov or at 301-763-9258 if you have any questions or comments.

# A.C.E. Revision II: Results from the Imputation for Unresolved Enumeration, Residency and Match Status 

## Introduction

This memorandum documents the results of the assignment of probabilities of enumeration status to unresolved E-sample people and of probability of Census Day residency and/or match status to unresolved P-sample people in the Accuracy and Coverage Evaluation Revision II. It also discusses the assignment of probabilities to conflicting cases. The methodology is specified in Beaghen \& Sands (2002).

In the Accuracy and Coverage Evaluation (A.C.E.) ${ }^{1}$, P-sample people with unresolved Census Day residency or match status occurred in one of two ways. First, the A.C.E. person interview (PI) may not have provided sufficient information for match and followup. Second, the A.C.E. person followup (PFU) may not have collected adequate information to allow us to determine a person's Census Day residency status or their match status. A.C.E. E-sample people with unresolved enumeration status likewise arose in this second manner; the PFU did not collect adequate information to determine the person's enumeration status. In the A.C.E. Revision II unresolved cases also arose because of the Evaluation Followup (EFU).

The A.C.E. Revision II assignment of probability of correct enumeration, residency and match status used the method of defining imputation cells and donor pools. See Ikeda \& McGrath (2001) for how this was done in the A.C.E. It is necessary to define some key terms used in this document:
imputation cell: a group of people, both resolved and unresolved, who are similar in some way relevant to their enumeration, residency or match status;
recipients: the unresolved people associated with an imputation cell;
donors: the resolved people associated with an imputation cell.
The proportion of donors who are correctly enumerated, residents or matched, is the probability of correct enumeration, residency or match that we assign to the unresolved people in the cell (for an illustration of the method see Example 1 below).
${ }^{1}$ In this document A.C.E. refers to the original A.C.E. that generated the March 2001 estimates of census coverage.

## Imputation for Revision II $^{\mathbf{2}}$ P-Sample People with Insufficient Information for Match and Followup

The Revision II P-sample people with insufficient information for match and followup tended to be the same people who had insufficient information for match and followup in the A.C.E., except for some rare cases with coding changes. People who had insufficient information in the A.C.E. were not sent to EFU. There were about three million weighted people with insufficient information for match and followup in both the A.C.E. and the Revision II samples.

In the A.C.E., P-sample people with insufficient information for match and followup were assigned a probability of Census Day residency equal to the residency rate of P-sample people who went to PFU. In the A.C.E. Revision II we improved upon this by defining finer imputation cells that took into account whether or not the housing unit was matched, non-matched, or had a conflicting household (a conflicting household was said to exist when the P -sample household had no people in common with the E-sample household). See Table 5 for the number of recipients or unresolved cases, the number of donors who are residents and the total number of donors for each cell.

The probability of match was assigned based on the overall match rate, divided into groups based on mover status and housing unit match status as was done in the A.C.E., and additionally on conflicting household status. See Table 6 for the number of recipients or unresolved cases, the number of donors who are matched and the number of donors who are residents for each cell.

## Imputation for P-Sample and E-Sample People with Incomplete or Ambiguous Followup

In contrast to P-sample people with insufficient information, the residency status for Revision II P-sample people and the correct enumeration status for Revision II E-sample people often changed from the A.C.E. to the Revision II coding because the Revision II coding processed not just the original information from the PFU, but also the new information from the EFU. Thus while the EFU information resolved many cases that were unresolved in the A.C.E. on account of the PFU.

EFU cases with incomplete or ambiguous information were a new source of unresolved cases in the Revision II coding. There were about the same weighted number of E-sample unresolved cases in the Revision II as in the A.C.E., more than six million. About half of the six million Revision II E-sample unresolved were new unresolved cases resulting from EFU information; about half were the same people as in the A.C.E.; note that the EFU information allowed us to

[^0]resolve about three million people unresolved in the A.C.E. In contrast, the Revision II coding generated substantially more P -sample unresolved cases than the A.C.E., 4.6 million versus 2.7 million. We saw this increase because all the Revision II P-sample except those with insufficient information went to EFU, including whole households of non-matched people who had not gone to PFU. These people were assumed in the A.C.E. to be resolved and could have become unresolved because of the EFU.

Originally the A.C.E. missing data plan based the imputation cells on information obtained before any followup was conducted. An ad hoc fix to the A.C.E. missing data methodology was effected by using information from the person followup (Cantwell \& Childers, 2001). Based on the PFU keyed data we created the after followup groups for 'potential fictitious' and 'lived elsewhere on Census Day'. The new cells used information highly relevant to resident or enumeration status. Further, they showed greater discrimination in assigning probabilities of correct enumeration and residency. In the A.C.E. Revision II we entirely abandoned the before followup imputation cells and defined our cells based on after followup information. This change was the single most important improvement in the A.C.E. Revision II missing data methodology.

To define the after followup groups we employed the keyed responses to the PFU and EFU questionnaire check boxes and the 'why' codes. Why codes were clerically applied codes that took into account both the responses in the questionnaire checkboxes and the handwritten notes (Adams \& Krejsa, 2002). Using the keyed results and the why codes we identified the following:

- unresolved cases with the same history, i.e., the recipient or imputation cells;
- the resolved followup cases that shared that history up to the point of being unresolved, i.e., the donor pool.

We defined PFU after followup groups for those cases that were unresolved as a result of the PFU, and EFU after followup groups for those cases unresolved on account of the EFU. It was necessary to define separate groups for the PFU and EFU because their interviews and questionnaires were different. However, the same after followup groups were employed for the P-sample and E-sample unresolved cases, as the PFU and EFU questions about Census Day residency were the same as the EFU and PFU questions about enumeration status.

It often happened that both the PFU interview and the EFU interview were unresolved. In that case in order to assign a cell for imputation we chose the unresolved interview that was more informative. When both interviews had the same level of information we usually chose the EFU over the PFU because we believed the EFU questionnaire questions were more sharply defined.

At this point it may help to give an example of an after followup group.

## Example 1

One cell of unresolved E-sample people or recipients was defined as people with evidence from the EFU interview that they had moved in since Census Day, or moved out before Census Day, though the EFU interview did not provide the address they moved to or from. We could not determine the enumeration status of these people since we did not know whether the Census Day address was in the A.C.E. cluster. The corresponding donor pool consisted of those resolved people who indicated in the followup that they moved in after Census Day, or moved out before Census Day; these were generally people who provided the mover address in the EFU.

In Table 1 this is the cell 'Moved In after Census Day or Moved out before Census Day' (EMO). Note that there were $1,537,389$ recipients. Of the $1,701,178$ resolved people who moved in before Census Day, or moved out after Census Day, 472,549 were correctly enumerated. Thus we assign the recipients a probability of correct enumeration of 0.27778 .

We had an analogous after followup group for people unresolved because they indicated they moved in after Census Day or moved out before Census Day on the person followup interview. This cell is found in Table 2 (PMO).

Table 1 shows the E-sample EFU cells; Table 2 shows the E-sample PFU cells; Table 3 shows the P-sample EFU cells; and Table 4 shows the P-sample PFU cells.

## Revision II E-Sample and P-Sample Conflicting Coding Cases

When the A.C.E. person followup (PFU) and the evaluation followup (EFU) interviews had contradictory information and we could not determine which was correct, the Revision II coding assigned the case a code of conflicting (conflicting coding is not to be confused with conflicting households, which was described earlier). All cases found to be conflicting in the Revision II automated coding were sent to analysts for clerical review. By examining the handwritten notes of interviewers, the analysts could often determine which of the interviews was the better and appropriately assign a code. There were some cases where the interviews appeared to be of equal quality, such as when both respondents were household members or both respondents were of equal caliber proxy. For these conflicting cases, the interviews seemed equally likely to be correct based on the expertise of the analysts. Therefore, probabilities of 0.5 were assigned both for correct enumeration status of Revision II E-sample conflicting cases and for Census Day residency status of Revision II P-sample conflicting cases. It should be noted that the recoding of the Revision II samples resulted in considerably less conflicting cases than the PFU/EFU Review sample. The PFU/EFU Review sample had about 2.6 million weighted people (Adams \& Krejsa, 2001) in contrast to only about 100,000 weighted people in the Revision II samples (Adams \& Krejsa, 2002).

## REFERENCES

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Cantwell, P., \& Childers, M., 2001: Accuracy and Coverage Evaluation Survey: A Change to the Imputation Cells to Address Unresolved Resident and Enumeration Status, DSSD Census 2000 Procedures and Operations Memorandum Series Chapter Q-44.

Ikeda, M., \& McGrath, D., 2001: Accuracy and Coverage Evaluation Survey: Specifications for the Missing Data Procedures; Revision of Q-25, DSSD Census 2000 Procedures and Operations Memorandum Q-62.

Table 1: E-sample EFU Cells

| Cell | Cell Description | Number of Recipients | Number of Donor Correct Enumerations | Total Number of Donor Enumerations |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EKR ${ }^{1}$ | Potential Fictitious | 258,195.7 ${ }^{2}$ | $\begin{array}{r} 805,729.52 \\ (553)^{3} \end{array}$ | $\begin{array}{r} 929,467.01 \\ (675) \end{array}$ | 0.86687 |
| EMO | Mover In After <br> Census Day or Moved Out before Census Day | 1,537,389 | $\begin{array}{r} 472,548.92 \\ (318) \end{array}$ | $\begin{array}{r} 1,701,177.79 \\ (996) \end{array}$ | 0.27778 |
| EMP | Mover Status Unresolved | 155,432.3 | $\begin{array}{r} 4,344,918.87 \\ (1,606) \end{array}$ | $\begin{array}{r} 4,491,184.84 \\ (1,721) \end{array}$ | 0.96743 |
| EIB | Non-interview: Non-Conflicting Household | 493,726.2 | $\begin{array}{r} 226,383,614 \\ (50,994) \end{array}$ | $\begin{array}{r} 230,559,049.48 \\ (53,958) \end{array}$ | 0.98189 |
| EIC | Non-interview: <br> Conflicting Household | 55,301.7 | $\begin{array}{r} 1,523,652.89 \\ (1,378) \end{array}$ | $\begin{array}{r} 1,829,650.09 \\ (1,597) \end{array}$ | 0.83276 |
| E2B | Non-interview - <br> blank form: <br> Non-Conflicting <br> Household | 329,535.2 | $\begin{array}{r} 247,281,151.92 \\ (58,541) \end{array}$ | $\begin{array}{r} 253,385,774.68 \\ (62,965) \end{array}$ | 0.97591 |
| E2C | Non-interview - <br> blank form: <br> Conflicting <br> Household | 17,242.4 | $\begin{array}{r} 1,933,578.18 \\ (1,795) \end{array}$ | $\begin{array}{r} 2,617,556.99 \\ (2,525) \end{array}$ | 0.73870 |

${ }^{1}$ The three letter cell names are included to identify the cells with the definitions in Beaghen \& Sands (2002).
${ }^{2}$ The weights of these counts reflect the Revision II sampling and the Targeted Extended Search sampling.
${ }^{3}$ In parenthesis are the unweighted counts; each person with a non-zero weight counts as one.

Table 1: E-sample EFU Cells

| Cell | Cell Description | Number of Recipients | Number of Donor Correct Enumerations | Total Number of Donor Enumerations |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ENL | Never Lived Here | 216,696.8 | $\begin{array}{r} 1,677,690.73 \\ (617.5)^{4} \end{array}$ | $\begin{array}{r} 2,516,994.46 \\ (1,171) \end{array}$ | 0.66655 |
| EOR | Other Residence Don't know which residency was Census Day | 377,386.9 | $\begin{array}{r} 7,405,391.65 \\ (1,631) \end{array}$ | $\begin{array}{r} 8,844,744.28 \\ (2,506) \end{array}$ | 0.83726 |
| EKB | Didn't Answer Other Residence Questions: Non-Conflicting Household | 1,966,332 | $\begin{array}{r} 212,000,021.41 \\ (45,961.5) \end{array}$ | $\begin{array}{r} 214,431,816.54 \\ (47,817) \end{array}$ | 0.98866 |
| EKC | Didn't Answer <br> Other Residence <br> Questions: <br> Conflicting <br> Household | 160,395.8 | $\begin{array}{r} 1,324,904.89 \\ (1,199.5) \end{array}$ | $\begin{array}{r} 1,493,070.18 \\ (1,318) \end{array}$ | 0.88737 |
| EAD | Didn't Answer <br> Other Residence Questions: <br> Other Residence - <br> Didn't give address | 45,543.43 | $\begin{array}{r} 531,151.53 \\ (198) \end{array}$ | $\begin{array}{r} 1,874,182.50 \\ (974) \end{array}$ | 0.28340 |

${ }^{4}$ Conflicting people count as one half a correct enumeration.

Table 2: E-sample PFU Cells

| Cell | Cell Description | Number of Recipients | Number of Donor Correct Enumerations | Total Number of Donor Enumerations | Proportion Correct |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PKR ${ }^{5}$ | Potential Fictitious | 4,166.39 ${ }^{6}$ | $\begin{array}{r} 184,481.36 \\ (185)^{7} \end{array}$ | $\begin{array}{r} 308,772.33 \\ (321) \end{array}$ | 0.59747 |
| PMO | Mover In After <br> Census Day or Moved Out before Census Day | 166,981.1 | $\begin{array}{r} 89,041.52 \\ (104.5) \end{array}$ | $573,138.76$ (416) | 0.15536 |
| PN2 | Non-interview ‘Did Not Live Here' | 85,232.62 | $\begin{array}{r} 1,131,659.57 \\ (931.5) \end{array}$ | $\begin{array}{r} 3,333,957.28 \\ (2,407) \end{array}$ | 0.33943 |
| PNI | Non-interview 'Lived Here' | 10,464.51 | $\begin{array}{r} 31,209,023.55 \\ (29,139.5) \end{array}$ | $\begin{array}{r} 32,855,352.15 \\ (30,964) \end{array}$ | 0.94989 |
| PN3 | Non-interview DK/ref 'Lived Here' | 8,663.304 | $\begin{array}{r} 153,065.70 \\ (107) \end{array}$ | $\begin{array}{r} 215,987.45 \\ (162) \end{array}$ | 0.70868 |
| PN4 | Noninterview blank 'Lived Here' | 31,861.69 | $\begin{array}{r} 2,442,652.43 \\ (2,093) \end{array}$ | $\begin{array}{r} 3,243,196.14 \\ (3,029) \end{array}$ | 0.75316 |
| POR | Other Residence Don't know which residency was Census Day | 33,784.64 | $\begin{array}{r} 1,001,087.32 \\ (685.5) \end{array}$ | $\begin{array}{r} 2,033,553.60 \\ (1,401) \end{array}$ | 0.49228 |

${ }^{5}$ The three letter cell names are included to identify the cells with the definitions in Beaghen \& Sands (2002).
${ }^{6}$ The weights of these counts reflect the Revision II sampling and the Targeted Extended Search sampling.
${ }^{7}$ In parenthesis are the unweighted counts; each person with a non-zero weight counts as one.

Table 2: E-sample PFU Cells

| Cell | Cell Description | Number of <br> Recipients | Number of <br> Donor Correct <br> Enumerations | Total Number <br> of Donor <br> Enumerations | Propor- <br> tion <br> Correct |
| :---: | :--- | :--- | ---: | ---: | :---: |
| POK | Didn’t Answer <br> Other Residence <br> Questions | $470,829.90$ | $30,115,957.84$ <br> $(27,873)$ | $31,498,796.39$ <br> $(29,471)$ | 0.95610 |
| PAD | Other Residence - <br> Didn't give address | $14,221.12$ | $151,885.08$ <br> $(109.5)$ | $956,734.15$ <br> $(675)$ | 0.15875 |

Table 3: P-sample EFU Cells

| Cell | Cell Description | Number of <br> Recipients | Number of <br> Donor Residents | Total Number of <br> Donor Residents <br> and |
| :--- | :--- | :--- | ---: | ---: | ---: |
| EKR $^{8}$ | Propor- <br> tion <br> Resi- <br> Nonresidents |  |  |  |
| EMO |  |  |  |  |

${ }^{8}$ The three letter cell names are included to identify the cells with the definitions in Beaghen \& Sands (2002).
${ }^{9}$ The weights of these counts reflect the Revision II sampling and the Targeted Extended Search sampling, though not the non-interview adjustment.
${ }^{10}$ In parenthesis are the unweighted counts; each person with a non-zero weight counts as one.

Table 3: P-sample EFU Cells

| Cell | Cell Description | Number of Recipients | Number of Donor Residents | Total Number of Donor Residents and Nonresidents | Proportion Residents |
| :---: | :---: | :---: | :---: | :---: | :---: |
| E2C | Noninterview blank form: Non-Conflicting Household, PFU | 36,212.83 | $\begin{array}{r} 10,368,040.0 \\ (8,336) \end{array}$ | $\begin{array}{r} 12,743,183.28 \\ (10,008) \end{array}$ | 0.81361 |
| E2D | Noninterview - <br> blank form: <br> Non-Conflicting, No PFU | 237,366.4 | $\begin{array}{r} 235,189,934.63 \\ (31,750) \end{array}$ | $\begin{array}{r} 237,816,995.71 \\ (32,314) \end{array}$ | 0.98895 |
| ENL | Never Lived Here | 230,434.3 | $\begin{array}{r} 1,545,528.60 \\ (435.5) \end{array}$ | $\begin{array}{r} 2,323,139.27 \\ (800) \end{array}$ | 0.66528 |
| EOR | Other Residence - <br> Don't know which residency was Census Day | 423,376.1 | $\begin{array}{r} 7,068,943.66 \\ (1,089) \end{array}$ | $\begin{array}{r} 8,544,598.88 \\ (1,784) \end{array}$ | 0.82730 |
| EKF | Didn't Answer Other Residence Questions: PFU | 390,959.9 | $\begin{array}{r} 7,742,010.95 \\ (6,484.5) \end{array}$ | $\begin{array}{r} 8,611,769.78 \\ (7,137) \end{array}$ | 0.89900 |
| EKU | Didn't Answer Other Residence Questions: No PFU | 433,048.6 | $\begin{array}{r} 204,532,556.33 \\ 926,091) \end{array}$ | $\begin{array}{r} 205,332,178.56 \\ (26,241) \end{array}$ | 0.99611 |
| EAD | Other Residence - <br> Didn't give address | 56,366.33 | $\begin{array}{r} 467,233.79 \\ (130.5) \\ \hline \end{array}$ | $\begin{array}{r} 1,860,984.32 \\ (787) \end{array}$ | 0.25107 |

Table 4: P-sample PFU Cells

| Cell | Cell Description | Number of Recipients | Number of <br> Donor <br> Residents | Total Number of Donor Residents and Nonresidents | Propor- <br> tion <br> Resi- <br> dents |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{PKR}^{1}$ | Potential Fictitious | 11,807.56 ${ }^{12}$ | $\begin{array}{r} 56,998.54 \\ (78)^{13} \end{array}$ | $\begin{array}{r} 166,260.98 \\ (162) \end{array}$ | 0.34283 |
| PMO | Mover In After Census Day Moved or Out before Census Day | 127,713.9 | $26,422.15$ <br> (23) | $\begin{array}{r} 468,443.75 \\ (335) \end{array}$ | 0.05640 |
| PN2 | Noninterview 'Did Not Live Here' | 129,883.3 | $\begin{array}{r} 442,518.47 \\ (350.5) \end{array}$ | $\begin{array}{r} 2,476,383.88 \\ (1,611) \end{array}$ | 0.17870 |
| PNI | Noninterview 'Lived Here' | 7,810.71 | $\begin{array}{r} 10,053,748.47 \\ (9,432) \end{array}$ | $\begin{array}{r} 10,995,966.27 \\ (10,235) \end{array}$ | 0.91431 |
| PN3 | Noninterview DK/ref ‘Lived Here' | 11,626.56 | $\begin{array}{r} 56,998.57 \\ (54) \end{array}$ | $\begin{array}{r} 116,031.88 \\ (106) \end{array}$ | 0.49123 |
| PN4 | Noninterview blank 'Lived Here' | 28,382.97 | $\begin{array}{r} 2,036,760.76 \\ (1,714.5) \end{array}$ | $\begin{array}{r} 2,519,011.65 \\ (2,159) \end{array}$ | 0.80856 |
| POR | Other Residence Don't know which residency was Census Day | 34,409.83 | $\begin{array}{r} 479,948.96 \\ (356.5) \end{array}$ | $\begin{array}{r} 1,290,664.80 \\ (981) \end{array}$ | 0.37186 |

[^1]Table 4: P-sample PFU Cells

| Cell | Cell Description | Number of <br> Recipients | Number of <br> Donor <br> Residents | Total Number <br> of Donor <br> Residents and <br> Nonresidents | Propor- <br> tion <br> Resi- <br> dents |
| :--- | :--- | :--- | ---: | ---: | :---: |
| POK | Didn’t Answer <br> Other Residence <br> Questions | $278,749.7$ | $9,753,562.52$ <br> $(9,154)$ | $10,562,568.29$ <br> $(9,847)$ | 0.92341 |
| PAD | Other Residence - <br> Didn't give address | $37,641.17$ | $98,562.95$ <br> $(62)$ | $698,129.27$ <br> $(488)$ | 0.14118 |

Table 5: P-sample Insufficient Information for Match and Followup Cells for Probability of Residency

| Cell | Cell Description | $\begin{array}{l}\text { Number of } \\ \text { Recipients }\end{array}$ | $\begin{array}{c}\text { Number of } \\ \text { Donor } \\ \text { Residents }\end{array}$ | $\begin{array}{c}\text { Total Donor } \\ \text { Residents and } \\ \text { Nonresident }\end{array}$ | $\begin{array}{c}\text { Propor- } \\ \text { tion } \\ \text { Residents }\end{array}$ |
| :--- | :--- | :--- | ---: | ---: | ---: |
| PKC $^{14}$ | $\begin{array}{l}\text { Insufficient information } \\ \text { for match and followup: } \\ \text { Conflicting Household }\end{array}$ | $177,124^{15}$ | $\begin{array}{r}1795011.74 \\ (1,792)^{16}\end{array}$ | $\begin{array}{r}2,645,598.19 \\ (2,538)\end{array}$ | 0.67849 |
| PKH | $\begin{array}{l}\text { Insufficient information } \\ \text { for match and followup: } \\ \text { Matched Housing Unit }\end{array}$ | $2,675,959$ | $\begin{array}{r}9253499.95 \\ (7,053.5)\end{array}$ | $\begin{array}{r}11,404,116.90 \\ (8,405)\end{array}$ | 0.81142 |
| PKN | $\begin{array}{l}\text { Insufficient information } \\ \text { for match and followup: } \\ \text { Non-Matched Housing } \\ \text { Unit }\end{array}$ | $230,764.4$ | $\begin{array}{r}1541514.59 \\ (2,705.5)\end{array}$ | $\begin{array}{r}2,057,678.58 \\ (3,168)\end{array}$ | 0.74915 |
| PPM | Possible matches | $26,639.94$ | $\begin{array}{rrrr\|}\hline 1672552.11 \\ (1,335)\end{array}$ | $1,758,639.97$ |  |
| $(1,407)$ |  |  |  |  |  |$\left.] 0.95105\right\}$

[^2]Table 6: P-sample Insufficient Information and Possible Match - Cells for Match Probability

| Cell | Cell Description | Number of Recipients | Number of Donor Matched Residents | Total Donor Residents | Proportion Matches |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MCF ${ }^{17}$ | Conflicting <br> Household | 185,677.7 ${ }^{18}$ | $\begin{array}{r} 2,316,763.18 \\ (217)^{19} \end{array}$ | $\begin{array}{r} 260,260.16 \\ (2,323) \end{array}$ | 0.11234 |
| MHN | HU Match, Non-mover | 1,347,498 | $\begin{array}{r} 214,976,518.08 \\ (28,595) \end{array}$ | $\begin{array}{r} 227,274,404.3 \\ (34,938) \end{array}$ | 0.94589 |
| MHU | HU Match, Mover | 1,346,547 | $\begin{array}{r} 4,672,696.79 \\ (1,871) \end{array}$ | $\begin{array}{r} 5,860,982.16 \\ (2,698) \end{array}$ | 0.79725 |
| MNN | HU Non-match, Non-mover | 86,851.52 | $\begin{array}{r} 14,064,082.68 \\ (2,896) \end{array}$ | $\begin{array}{r} 17,358,866.88 \\ (5,859) \end{array}$ | 0.81020 |
| MMN | HU Non-match, Mover | 143,912.9 | $\begin{array}{r} 362,304.25 \\ (289) \end{array}$ | $\begin{gathered} 620,138.16 \\ (618) \end{gathered}$ | 0.58423 |

[^3]
[^0]:    ${ }^{2}$ Please note that the A.C.E. Revision II sample that was used to correct for measurement error is known as the Revision II sample and the people selected in that sample are known as Revision II people. Likewise, the results of the A.C.E. Revision II coding are known as the Revision II coding.

[^1]:    ${ }^{11}$ The three letter cell names are included to identify the cells with the definitions in Beaghen \& Sands (2002).
    ${ }^{12}$ The weights of these counts reflect the Revision II sampling and the Targeted Extended Search sampling, though not the non-interview adjustment.
    ${ }^{13}$ In parenthesis are the unweighted counts; each person with a non-zero weight counts as one.

[^2]:    ${ }^{14}$ The three letter cell names are included to identify the cells with the definitions in Beaghen \& Sands (2002).
    ${ }^{15}$ The weights of these counts reflect the Revision II sampling and the Targeted Extended Search sampling, though not the non-interview adjustment.
    ${ }^{16}$ In parenthesis are the unweighted counts; each person with a non-zero weight counts as one.

[^3]:    ${ }^{17}$ The three letter cell names are included to identify the cells with the definitions in Beaghen \& Sands (2002).
    ${ }^{18}$ The weights of these counts reflect the Revision II sampling and the Targeted Extended Search sampling, though not the non-interview adjustment.
    ${ }^{19}$ In parenthesis are the unweighted counts; each person with a non-zero weight counts as one.

