# Implementation of Dependent Interviewing in the SIPP Event-History-Calendar: Clear Benefit, Room for Improvement, Future Directions

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*This work is released to inform interested parties of ongoing research and to encourage discussion of work in progress. Any views or opinions expressed in the paper are the authors' own and do not necessarily reflect the views or opinions of the U.S. Census Bureau.*

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# SIPP Design

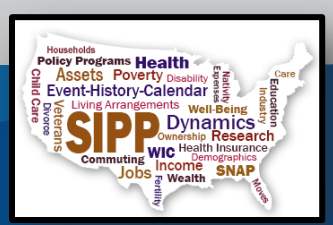
- National panel survey – Since 1984 with sample size between about 11,000 and 45,000 interviewed households
  - The duration of each panel varies from 2½ yrs to 4 yrs
  - The SIPP sample is a multistage-stratified sample of the U.S. civilian non-institutionalized population
  - Longitudinal – following original sample household members (all 15 and over are followed)

- SIPP 2014
  - Annual survey with four month interviewing window – recall to beginning of prior (reference) year
  - Event History Calendar (EHC) component to facilitate recall
  - Blaise/C# instrument

- SIPP 'Classic' – 1984-2008
  - Uses a 4-month recall period – 3 interviews / year
  - The sample is divided into 4 rotation groups for monthly interviewing
  - Paper from 1984-1993 and DOS based CASES instrument from 1996-2008

- Interviews are conducted by personal visit and by decentralized telephone





# SIPP – Following Rules

- SIPP is a true longitudinal survey that tracks people over time, with few exceptions.
- Original sample members are located and interviewed every wave for the duration of the panel.
- Children (under age 15) are followed only if they move with an original sample adult (age 15 and over).
- The SIPP rules call for following original sample members who move, provided they are not institutionalized, do not live in military barracks, or do not move abroad

# 2014 SIPP Contents / Dependent Content (Wave 2+)

## Front Sections

- Sample and Coverage Address
- Roster
- Demographics

## EHC

- Residency
- Marital history
- Educational enrollment
- Jobs/Time not working
- Program receipt
- Health insurance

## Post-EHC Questions

- Health insurance
- Dependent care
- Non-job income
- Program income
- Asset ownership
- Household expenses
- Health care utilization
- Medical expenditures
- Disability
- Fertility history
- Biological parents' nativity and mortality
- Child care
- Child well-being
- Adult well-being

## Closing Sections

- Respondent Identification Policy
- Contact information
- Moving intentions

# 2011 SIPP Field Test EHC Design & Dependent Data

Re-Engineered SIPP 2011 Ver 3.29--12/08/2010

Ctrl+P - Previous Topic  Ctrl+N - Next Topic  F3-Check Progress  F10-Exit EHC

REFERENCE YEAR 2010 | INTERVIEW YEAR 2011

Topic: Landmarks, Residency, Marital History, Education, ABC Employer, Job 2, Job 3, Job 4, Job 5, Job 6, Job 7, More Jobs (if any), No Job, SSI, Food Stamps, TANF, Gen. Assist., WIC, Private 1, Private 2, Medicare, Medicaid, Military, Other Coverage, No Coverage

Reference Year 2010: Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Interview Year 2011: Jan Feb Mar Apr May Jun

# 2014 SIPP Completed Calendar – Showing Dependent Data

Re-Engineered SIPP 2014 Ver 6.17--12/06/2013

F3-Check Progress F10-Exit EHC

REFERENCE YEAR 2013 INTERVIEW YEAR 2014

| Topic | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residency | | | | | | | | | | | | | | | | | | |
| Marital History | | | | | | | | | | | | | | | | | | |
| Education | | | | | | | | | | | | | | | | | | |
| Job 1 | | | | | | | | | | | | | | | | | | |
| Job 2 | | | | | | | | | | | | | | | | | | |
| Job 3 | | | | | | | | | | | | | | | | | | |
| Job 4 | | | | | | | | | | | | | | | | | | |
| Job 5 | | | | | | | | | | | | | | | | | | |
| Job 6 | | | | | | | | | | | | | | | | | | |
| Job 7 | | | | | | | | | | | | | | | | | | |
| More Jobs (if any) | | | | | | | | | | | | | | | | | | |
| No Job | | | | | | | | | | | | | | | | | | |
| SSI | | | | | | | | | | | | | | | | | | |
| Food Stamps | | | | | | | | | | | | | | | | | | |
| TANF | | | | | | | | | | | | | | | | | | |
| Gen. Assist. | | | | | | | | | | | | | | | | | | |
| WIC | | | | | | | | | | | | | | | | | | |
| Private 1 | | | | | | | | | | | | | | | | | | |
| Private 2 | | | | | | | | | | | | | | | | | | |
| Medicare | | | | | | | | | | | | | | | | | | |
| Medical Assista... | | | | | | | | | | | | | | | | | | |
| Military | | | | | | | | | | | | | | | | | | |
| Other Coverage | | | | | | | | | | | | | | | | | | |

Complete spells representing information that was reported last time, but not active at the time of the interview. ***Should be left alone.***

Provisional spells representing information that was reported last time, and current at the time of the interview. ***Needs to be extended.***

I'm showing when we talked in June of 2013, you were living at this address.

Have you lived at 110 CAIO DRIVE continuously since June of 2013?

1) Yes
2) No
3) DK/RF

Jan 13 - Feb 13

Set Period

From: To:

OK

Dependent Text

The information displayed here changes depending on the dependent information.

Residency

- All months of the reference period must be accounted for; this includes both 2013 PLUS any months to date in 2014.
- A maximum of 5 addresses is collected per household member for the reference period.
- When recording changes in residences, FROM and TO months should be selected for the residence where the respondent lived for the majority of the month.

# Evaluation Plans

As we left PSMW 2012…

- Issues related to successful use of dependent data
- Flexibility for Interviewer/Respondent interaction
- False transitions and mis-timed transitions – recall or seams.
- Mover individuals
- Changing respondents
- Respondent Identification Policy
- Interview observations / Interviewer focus groups
- Comparing SIPP-EHC seam with CQ SIPP seam and non-seam data for the two years of monthly transitions covered by both surveys.
- Utilize administrative records to validate transitions and statuses reported in the surveys

# Topics in This Evaluation – So Far…

EHC Sections

- Program Receipt
  - SNAP (Food Stamps)
  - WIC (Women, Infants, and Children nutrition program)
  - SSI (Supplemental Security Income – a disability transfer program)
  - TANF (Temporary Assistance for Needy Families – welfare transfer program)
    - * had insufficient information to include in figures

- School Enrollment

- Health Insurance Coverage

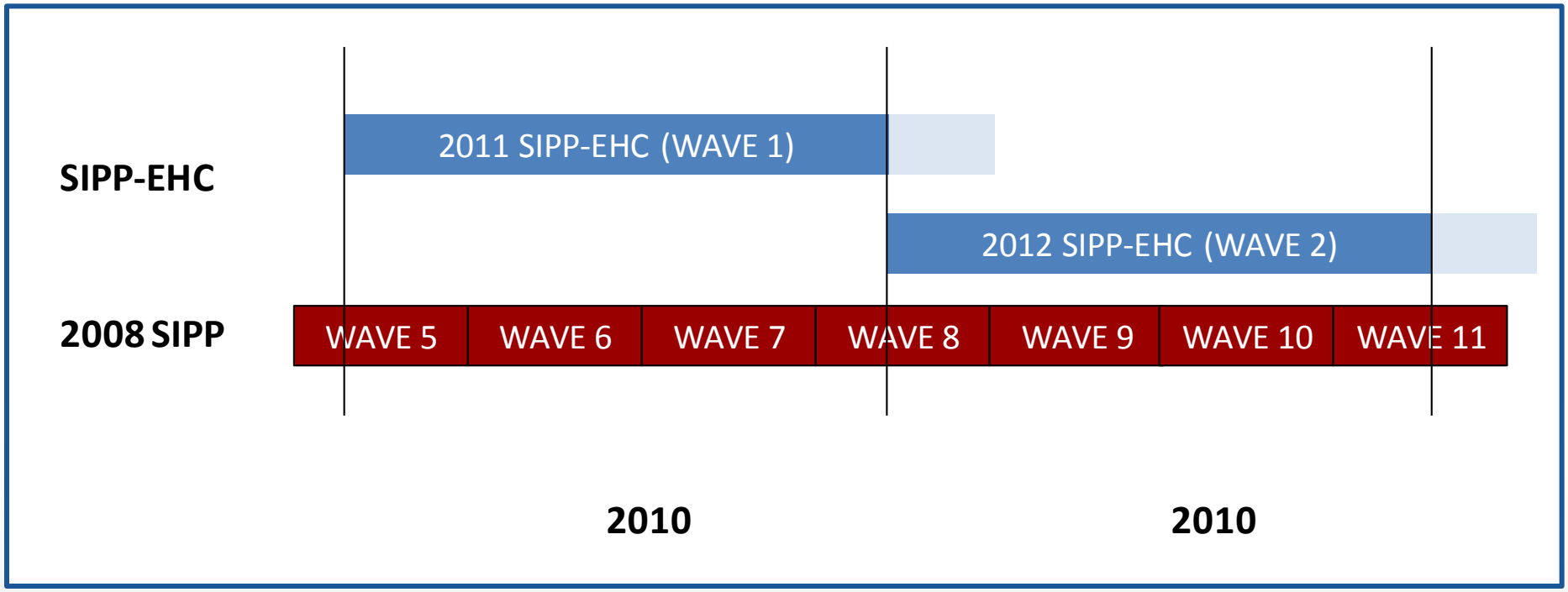
Outside the EHC

- Social Security Retirement

Administrative Comparison Topics

- Medicaid
- Medicare
- OASDI
- SSI
- SNAP

# Seams in 2008 SIPP and SIPP-EHC

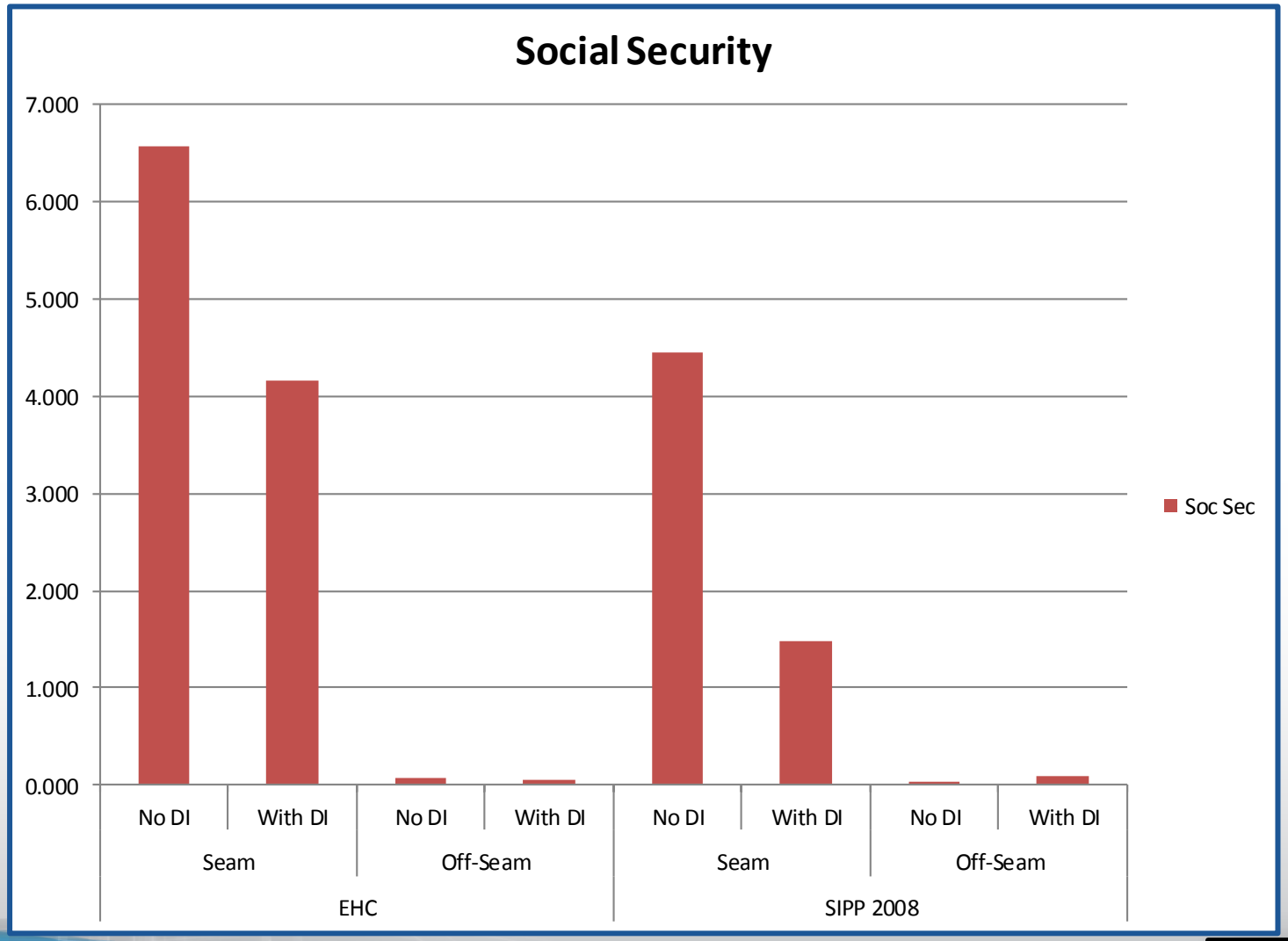


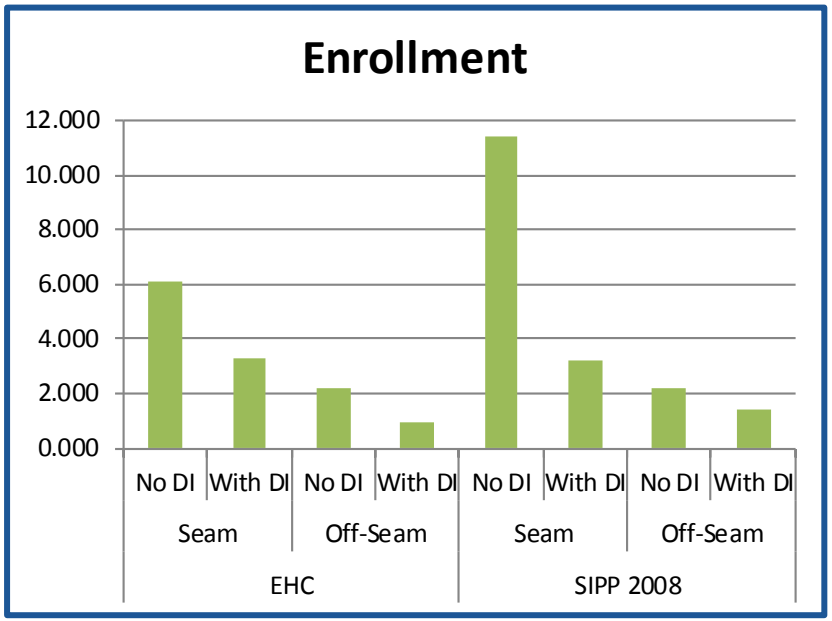
# Month-to-Month Change and Seams

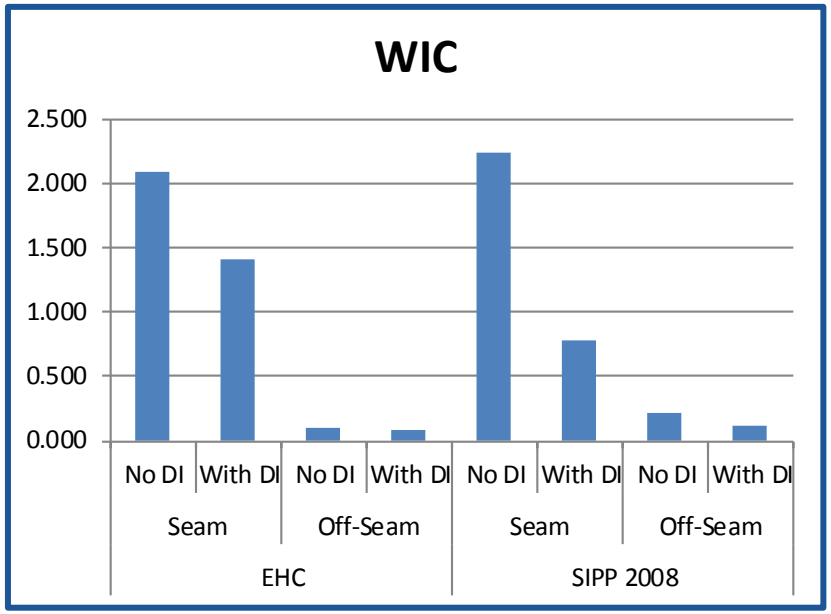
MONTH-TO-MONTH CHANGE IN RECEIPT OF FOOD STAMPS
AMONG INTERVIEWED ADULTS (18+) IN CALENDAR YEARS 2010 AND 2011
% of Interviewed Adults (18+) Showing a Change in Receipt from One Month to the Next
by Survey Design (EHC vs. Production SIPP), Presence/Absence of Dependent Interviewing,
and Whether or Not the Month-Pair Comprised the "Seam" Between Adjacent Interviews

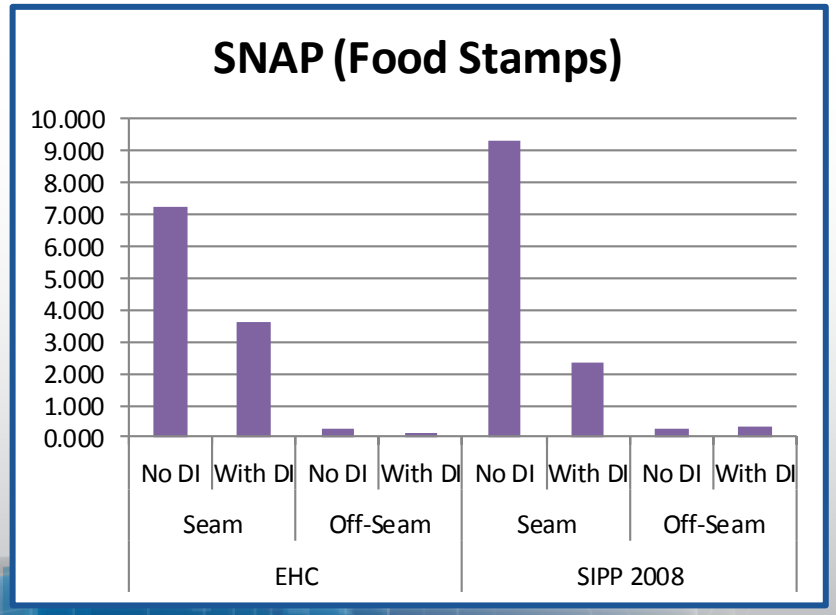
| Month-Pair | | EHC | | | | Production SIPP | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | No Dependent Intvw | | With Dependent Intvw | | No Dependent Intvw | | With Dependent Intvw | |
| | | Seam | Off-Seam | Seam | Off-Seam | Seam | Off-Seam | Seam | Off-Seam |
| | Jan-Feb | | 0.35 | | | 0 | 0.44 | 1.84 | 0.35 |
| | Feb-Mar | | 0.25 | | | 0 | 0.35 | 3.29 | 0.4 |
| | Mar-Apr | | 0.23 | | | 3.85 | 0.2 | 2.07 | 0.38 |
| | Apr-May | | 0.25 | | | 0 | 0.21 | 2.88 | 0.37 |
| 2 | May-Jun | | 0.48 | | | 12 | 0.38 | 1.87 | 0.23 |
| 0 | Jun-Jul | | 0.44 | | | 14.29 | 0.18 | 2.4 | 0.45 |
| 1 | Jul-Aug | | 0.37 | | | 0 | 0 | 2.31 | 0.3 |
| 0 | Aug-Sep | | 0.33 | | | 0 | 0.39 | 2.48 | 0.3 |
| | Sep-Oct | | 0.44 | | | 20 | 0 | 2 | 0.19 |
| | Oct-Nov | | 0.35 | | | 29.41 | 0.21 | 2.66 | 0.38 |
| | Nov-Dec | | 0.46 | | | 3.57 | 0.2 | 1.34 | 0.21 |
| | Dec-Jan | 7.2 | | 3.61 | | 13.64 | 0 | 2.19 | 0.32 |
| | Jan-Feb | | 0.24 | | 0.59 | 4.17 | 0.7 | 2.11 | 0.3 |
| | Feb-Mar | | 0.08 | | 0.35 | 9.09 | 0.35 | 2.71 | 0.28 |
| | Mar-Apr | | 0.41 | | 0.43 | 3.33 | 0 | 3.11 | 0.21 |
| 2 | Apr-May | | 0.41 | | 0.28 | 25 | 0 | 3.09 | 0.28 |
| 0 | May-Jun | | 0.41 | | 0.2 | 23.08 | 0.96 | 1.79 | 0.36 |
| 1 | Jun-Jul | | 0 | | 0.28 | 0 | 0.74 | 2.55 | 0.34 |
| 1 | Jul-Aug | | 0.32 | | 0.28 | 0 | 0.82 | 3.01 | 0.15 |
| | Aug-Sep | | 0.08 | | 0.28 | 18.75 | 0.82 | 1.88 | 0.15 |
| | Sep-Oct | | 0.41 | | 0.16 | 14.29 | 0 | 2.32 | 0.41 |
| | Oct-Nov | | 0 | | 0.31 | 7.69 | 0 | 1.66 | 0.42 |
| | Nov-Dec | | 0.08 | | 0.35 | 7.69 | 0 | 1.96 | 0.3 |

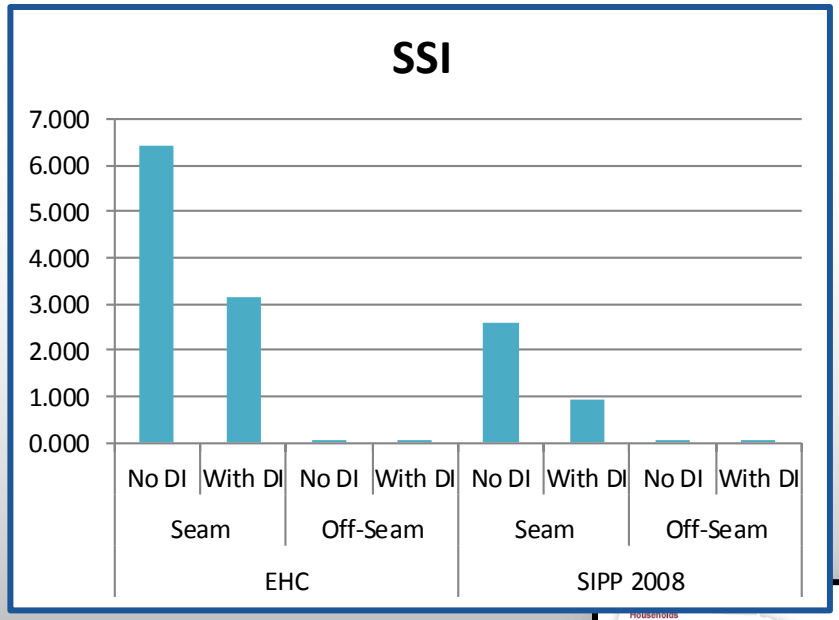
# Average Month-to-Month Change – Seams and DI

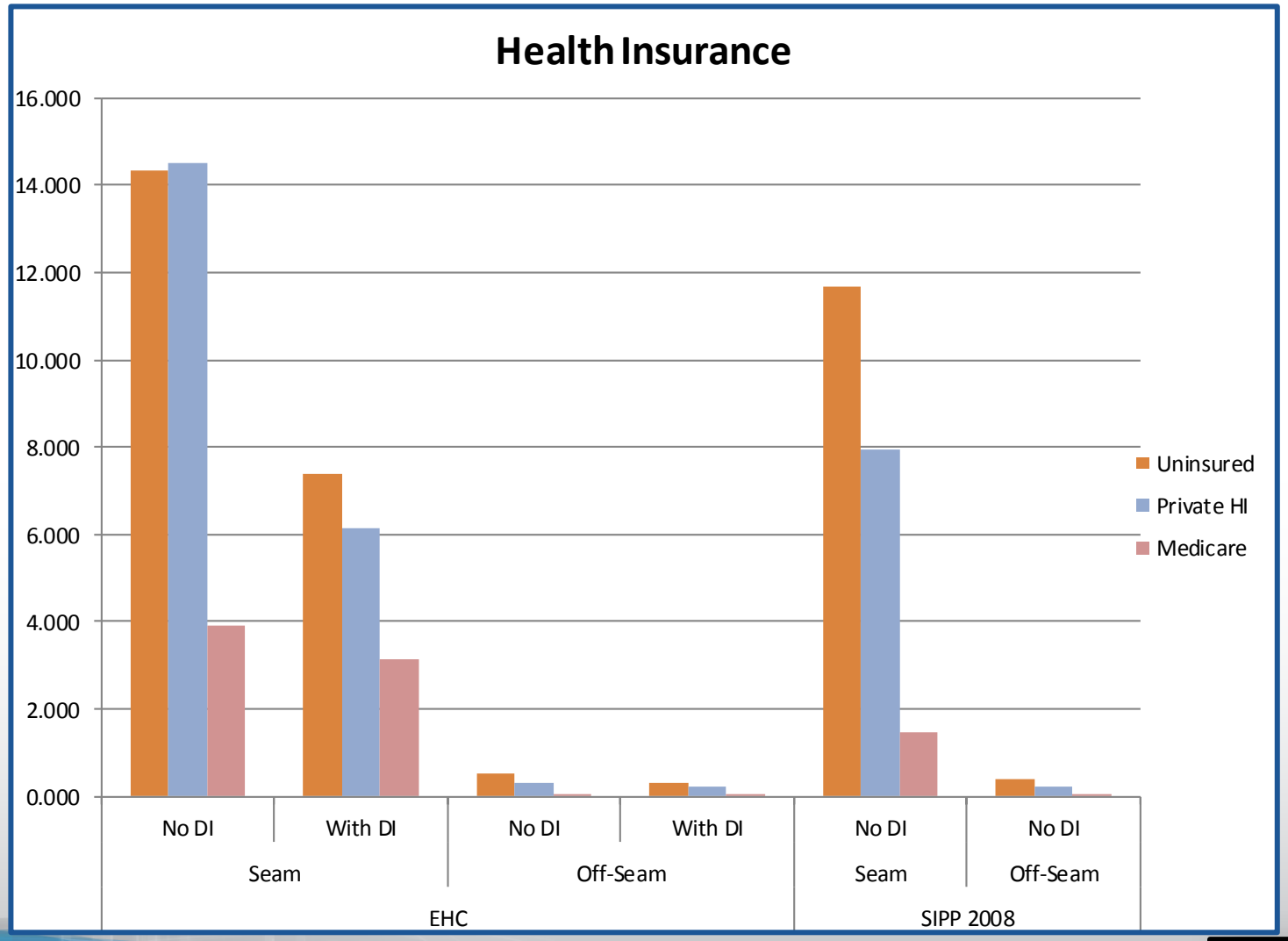



Enrollment
12.000
10.000
8.000
6.000
4.000
2.000
0.000
No DI
With DI
No DI
With DI
No DI
With DI
No DI
With DI
Seam
Off-Seam
Seam
Off-Seam
EHC
SIPP 2008

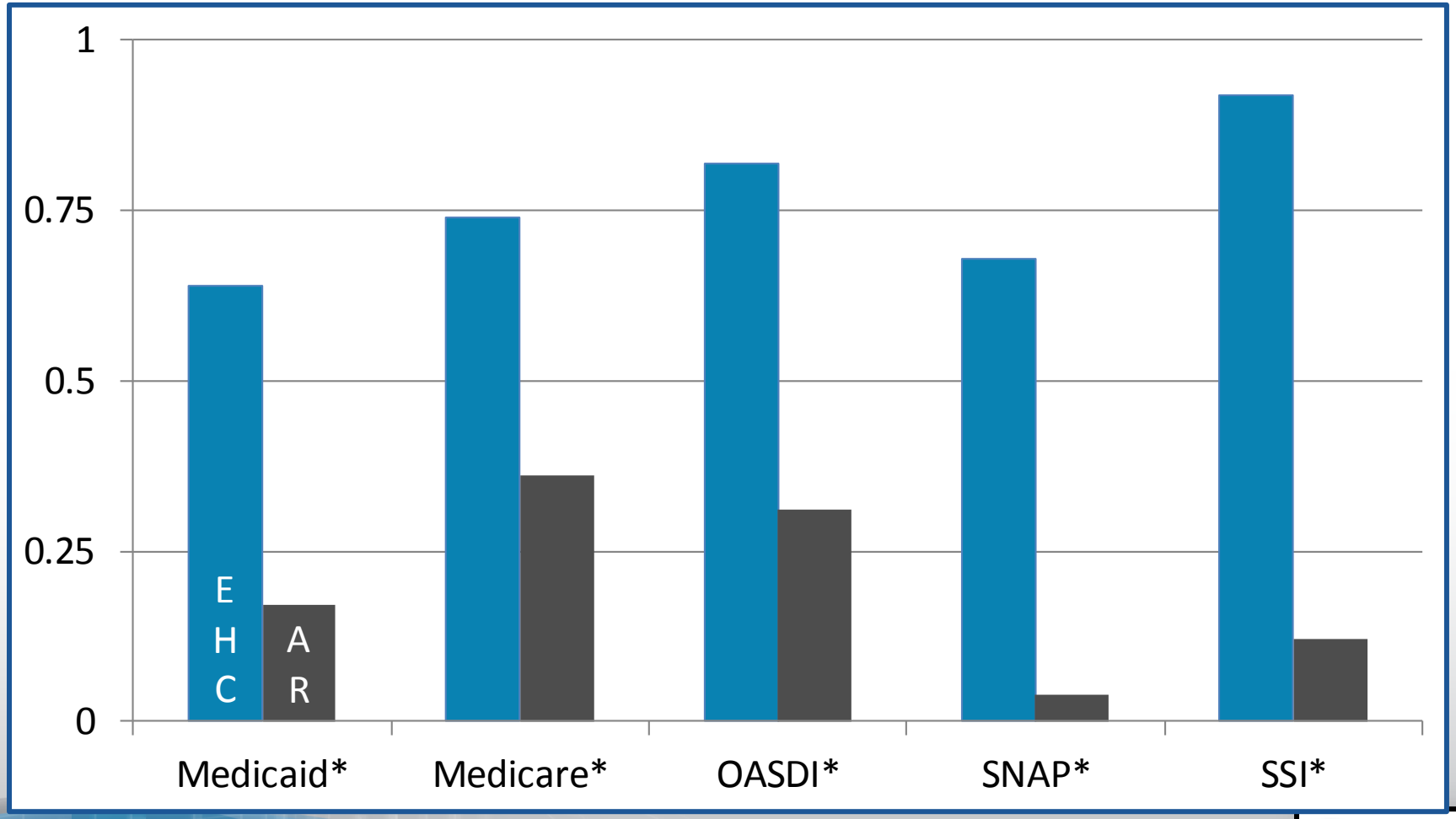

WIC
2.500
2.000
1.500
1.000
0.500
0.000
No DI
With DI
No DI
With DI
No DI
With DI
No DI
With DI
Seam
Off-Seam
Seam
Off-Seam
EHC
SIPP 2008


SNAP (Food Stamps)
10.000
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
No DI
With DI
No DI
With DI
No DI
With DI
No DI
With DI
Seam
Off-Seam
Seam
Off-Seam
EHC
SIPP 2008

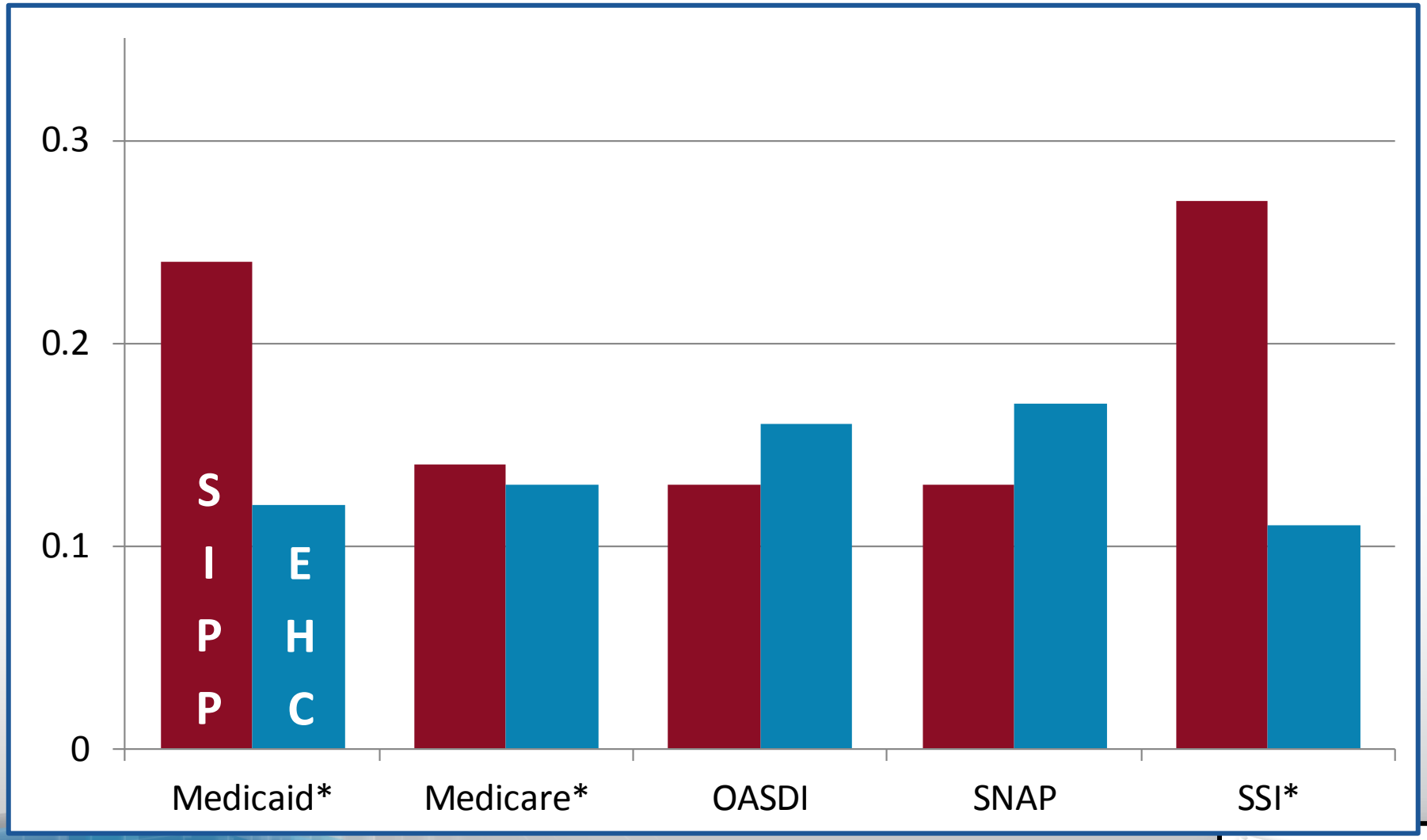

SSI
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
No DI
With DI
No DI
With DI
No DI
With DI
No DI
With DI
Seam
Off-Seam
Seam
Off-Seam
EHC
SIPP 2008


Health Insurance
16.000
14.000
12.000
10.000
8.000
6.000
4.000
2.000
0.000
Uninsured
Private HI
Medicare
No DI
With DI
No DI
With DI
No DI
No DI
Seam
Off-Seam
Seam
Off-Seam
EHC
SIPP 2008

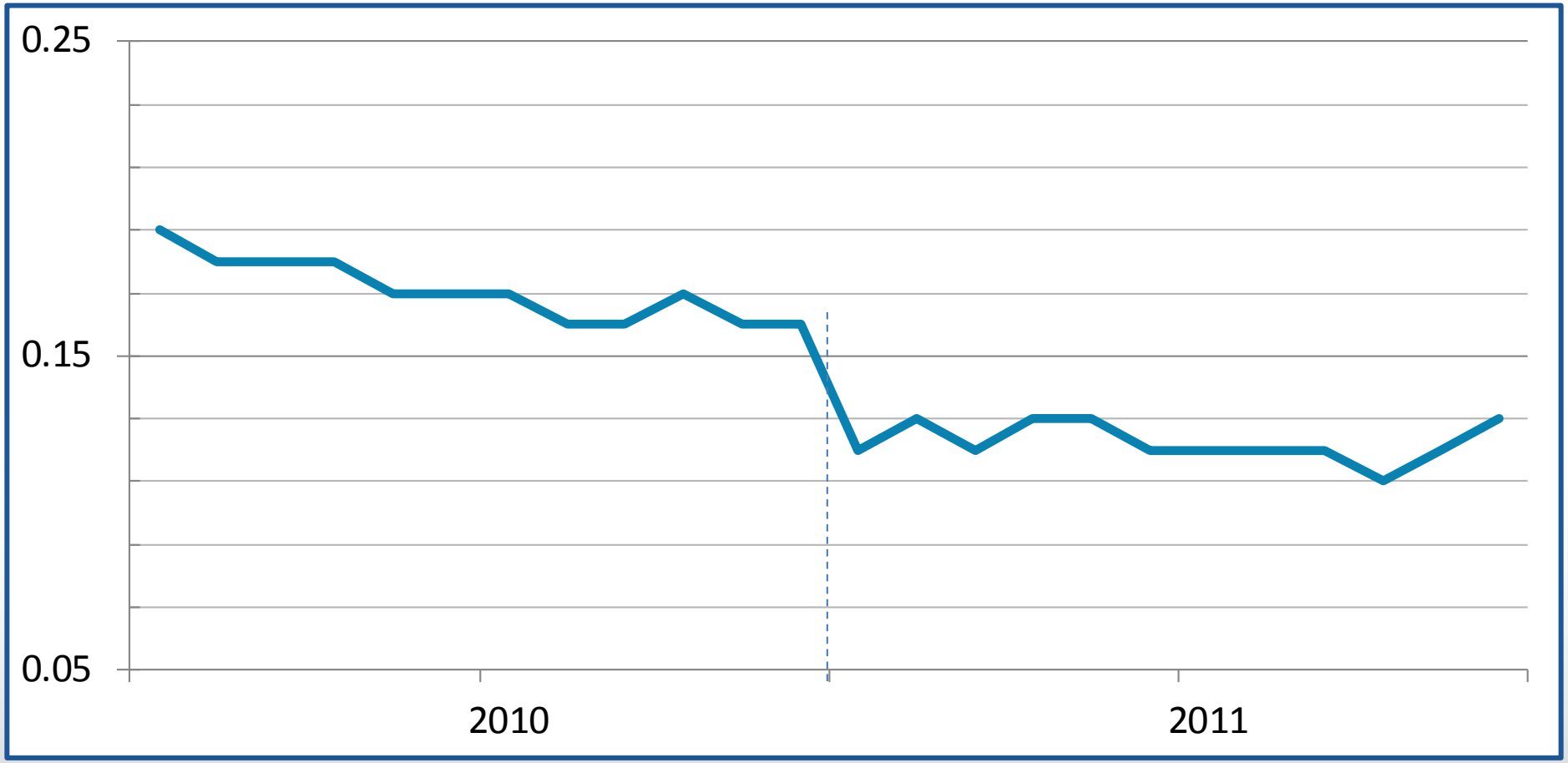
# On-seam transitions for CY2011
## SIPP-EHC and Administrative Records



# False negative rates for CY2011

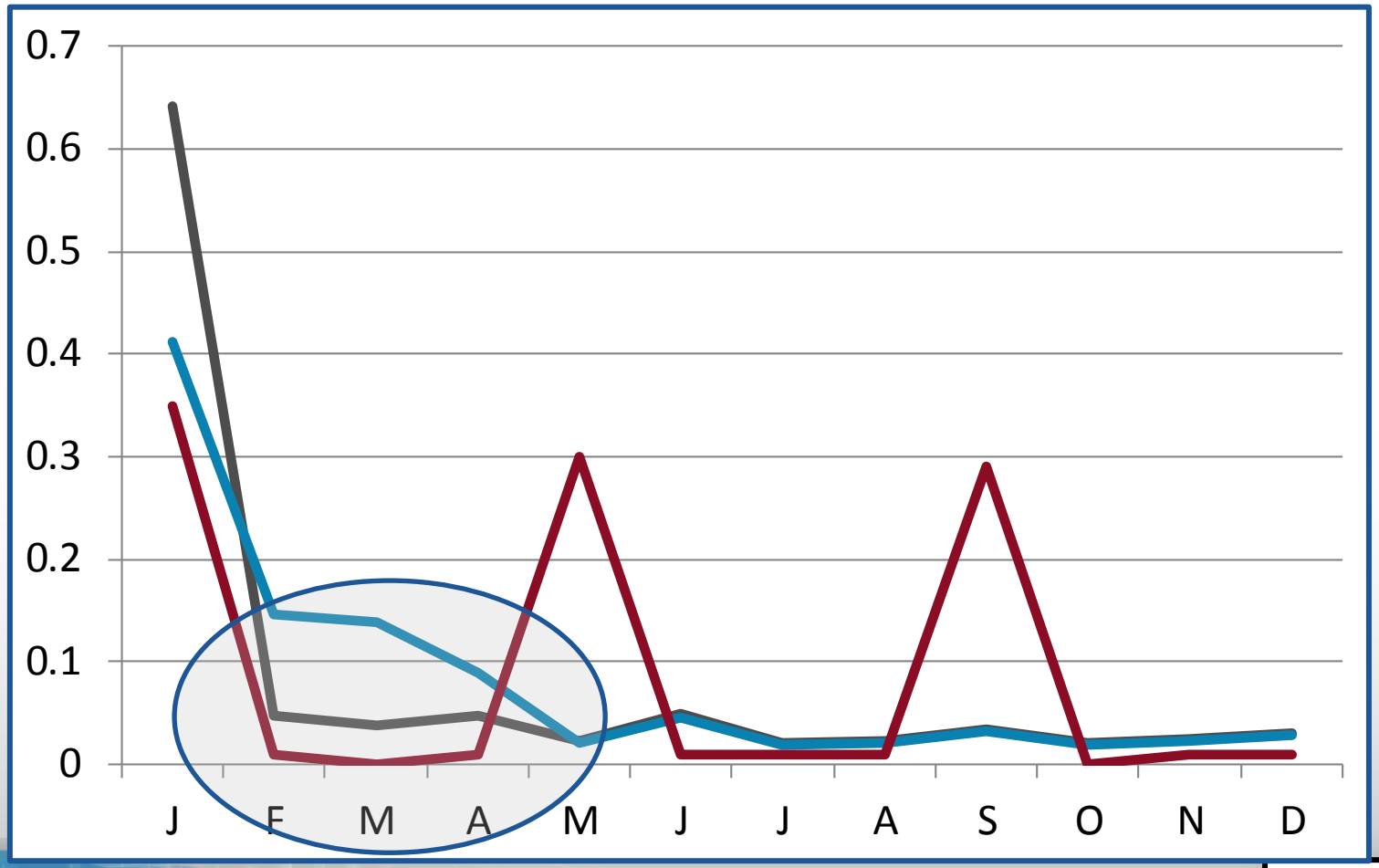


# Medicaid false negatives for SIPP-EHC



# Adjustment Demonstration-Medicaid transitions for CY2011

## SIPP-EHC, Adjusted SIPP-EHC, and SIPP



# Wave 1 flow and Wave 2 - No feedback flow
# Proactive versus Reactive

| |
|---|
| No Job |
| SSI |
| Food Stamps |
| TANF |
| Gen. Assist. |

Let's talk about Food Stamps/SNAP benefits.

Are you currently receiving Food Stamps?

Yes → When did you start?

No

Did you receive Food Stamps/SNAP benefits at any time since January 1st of 2011?

Yes → When did you start?

When did you stop?

# 2014 SIPP-EHC Completed Calendar

# How to Show 'No' Data?

Re-Engineered SIPP 2014 Ver 6.17--12/06/2013

F3-Check Progress F10-Exit EHC

REFERENCE YEAR 2013 INTERVIEW YEAR 2014

| Topic | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residency | | | | | | | | | | | | | | | | | | |
| Marital History | | | | | | | | | | | | | | | | | | |
| Education | | | | | | | | | | | | | | | | | | |
| Job 1 | | | | | | | | | | | | | | | | | | |
| Job 2 | | | | | | | | | | | | | | | | | | |
| Job 3 | | | | | | | | | | | | | | | | | | |
| Job 4 | XXX | XXX | XXX | XXX | XXX | XXX | | | | | | | | | | | | |
| Job 5 | | | | | | | | | | | | | | | | | | |
| Job 6 | | | | | | | | | | | | | | | | | | |
| Job 7 | | | | | | | | | | | | | | | | | | |
| More Jobs (if any) | | | | | | | | | | | | | | | | | | |
| No Job | | | | | | | | | | | | | | | | | | |
| SSI | | | | | | | | | | | | | | | | | | |
| Food Stamps | | | | | | | | | | | | | | | | | | |
| TANF | | | | | | | | | | | | | | | | | | |
| Gen. Assist. | | | | | | | | | | | | | | | | | | |
| WIC | | | | | | | | | | | | | | | | | | |
| Private 1 | | | | | | | | | | | | | | | | | | |
| Private 2 | | | | | | | | | | | | | | | | | | |
| Medicare | | | | | | | | | | | | | | | | | | |
| Medical Assista... | | | | | | | | | | | | | | | | | | |
| Military | | | | | | | | | | | | | | | | | | |
| Other Coverage | | | | | | | | | | | | | | | | | | |

?

I'm showing when we talked in June of 2013, you were living at this address.

Have you lived at 110 CAIO DRIVE continuously since June of 2013?

- 1) Yes
- 2) No
- 3) DK/RF

Jan 13 - Feb 13

Set Period

From: To:

OK

Residency

- All months of the reference period must be accounted for; this includes both 2013 PLUS any months to date in 2014.
- A maximum of 5 addresses is collected per household member for the reference period.
- When recording changes in residences, FROM and TO months should be selected for the residence where the respondent lived for the majority of the month.

# Directions

- Utilizes DI to provide bounding to the Interviewer / Respondent timeline resolution
  - Expand to include display of time with 'no' status on a topic
  - Move from reactive probing in 'no' status situations to proactive with bounding
- Evaluation of more topics and more data points
  - Volatility in rates for rare events make comparisons difficult
  - Sample from field test is limited for general comparisons
- Consider expansions of DI as appropriate for topics where seam bias is a significant source of error
  - Continued focus on minimizing the impact to processing and assisting data handling tasks.

# Thank you.

Contact SIPP:

http://www.census.gov/sipp

Email: Census.SIPP@Census.Gov