

Introduction to the 2014 Survey of Income and Program Participation (SIPP)

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BGSU



Center for
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Outline

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What is SIPP?

- SIPP is a series of national survey conducted by U.S. Census Bureau
- The purposes of SIPP is to provide accurate and comprehensive information on economic well-being of the American individuals and families
- SIPP focuses on:
 - the distribution of income and economic resources of individuals and families
 - the extent to which people and family participate in government assistance programs
 - family and social contexts of individuals and families
 - the interactions among the constructs above

History of SIPP

- The first SIPP survey was conducted in October 1983
- Before SIPP, researchers relied on March Supplement of Current Population Survey (CPS) to understand economic well-being of individuals and families
- CPS, designed as a survey of labor force participation of U.S. population, has its limitation to understand the economic well-being of individuals and families
 - very long recall period (i.e., a 4-8-4 design)
 - inadequately measures of irregular sources of income, government program participation, and changes in family structure
 - respondents are followed for only 16 months

History of SIPP (Cont.)

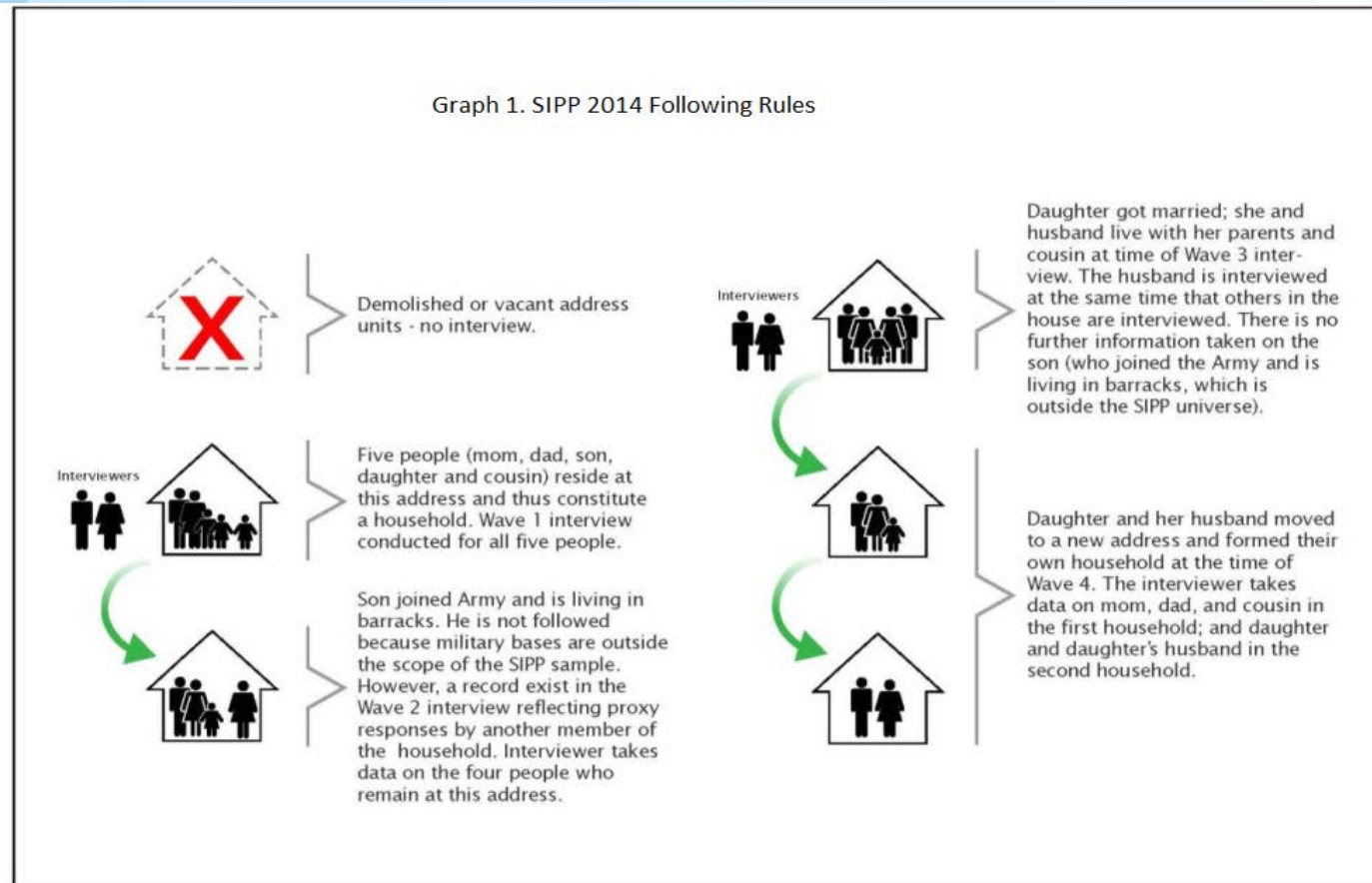
- CPS would have become too huge to manage if it had been designed to overcome these limitations of studying economic well-being. Thus, SIPP was designed as an independent survey.
- To date, SIPP surveys have been conducted in 15 panels. The 2014 SIPP is latest one.
- The 2014 SIPP collected data from February, 2014 to May, 2017
- The 2014 SIPP was re-designed to save costs, reduce respondent burden, and still maintain data quality

Study Design of 2014 SIPP

- Target population is U.S. non-institutionalized civilians aged 15 and over
- Sampling frame is created from files of 2010 Decennial Census and Master Address File (MAF) and U.S. Postal Service's Delivery Sequence
- A two-stage stratified sampling is used to select households. The first stage selects one or more contiguous counties (Primary Sampling Units) from the sampling frame. The second stage divides addresses with PSUs into two strata: One with high concentration of low-income households and the other with low concentration of low-income households. Addresses from the strata with high concentration of low-income households were oversampled.

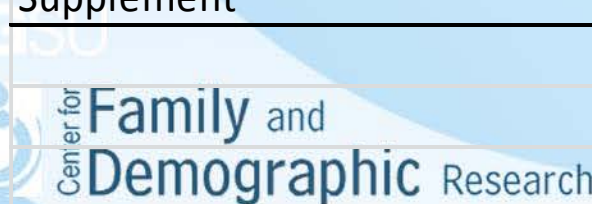
Study Design of 2014 SIPP (Cont.)

- Following Rules in 2014 SIPP: Respondents of the sampled households and people they later co-reside in the same households were followed over time



Source: United States Census Bureau (2017, July 20) Survey of Income and Program Participation: 2014 Panel Users' Guide. Retrieved from <https://www.census.gov/content/dam/Census/programs-surveys/sipp/methodology/2014-SIPP-Panel-Users-Guide.pdf>.

Study Design of 2014 SIPP (Cont.)

Number of Households	52,030	42491
Number of Interviews per year	3 times	1 time
Reference Period for the interview	4 month	12 months
Contents	Core questions were administered every wave and topic modules were administered on certain waves	Core questions and some questions from topic modules are administered every wave
The use of Event History Calendar	NO	Yes
New Questions		Fertility history, Grandparents, and others
Social Security Administration Supplement	No	Yes
		

Content of 2014 SIPP

Table 2. Contents of SIPP 2014

1	ADULT WELL-BEING	9	EMPLOYMENT AND EARNINGS	13.1	School Meals
2	ASSETS	9.1	Commuting and Work Schedules	13.11	Social Security Child Benefits
3	CHILD CARE	10	FERTILITY	13.12	Social Security Self Benefits
4	CHILD WELL-BEING	11	HEALTH CARE UTILIZATION AND MEDICAL EXPENDITURES	13.13	SSI
5	DEMOGRAPHICS	12	HEALTH INSURANCE	13.14	Survivor Income Benefits
5.1	Education	13	PROGRAMS AND INCOME TRANSFER	13.15	Support Received
5.2	Family and Household	13.1	Disability Income Payment	13.16	Support Paid
5.3	Language	13.2	Energy Assistance	13.17	TANF
5.4	Marital Status and Marital History	13.3	Supplemental Nutrition Assistance Program (SNAP)	13.18	Tax Returns
5.5	Nativity and Citizenship	13.4	General Assistance	13.19	Unemployment Compensation Payment
5.6	Parent Nativity and Mortality	13.5	Life Insurance Retirement Income	13.20	Veterans Benefits
5.7	Residence	13.6	Lump Sum Severance Pay/Retirement Plan Income	13.21	WIC
6	DEPENDENT CARE EXPENSES	13.7	Miscellaneous Income	13.22	Workers' Compensation
7	DISABILITY	13.8	Other Assistance Income		
8	EDUCATION ENROLLMENT	13.9	Retirement Income		

Research Questions Using SIPP 2014

- Family structure and marital status stability
- Child support
- Economic well-being
- Assets, wealth and retirement
- Migration
- Labor force characteristics and dynamics
- Wage and inequality
- Work schedule and commuting
- Welfare duration and poverty
- Program use
- Utilization of health care services and Insurance
- Medical expenses and disability

Research Questions Using SIPP 2014

- Obtain the monthly and annual estimates of demographic characteristics and family compositions of the U.S. population
- Obtain the monthly and annual estimates of change in personal income, employment, and program benefits for the poor
- Examine how demographic characteristics, household and family context, income, employment and program participation interact with each other monthly or annually over four years
- Understand how movers and stayers differ in constructs of interest

Data and Codebook of 2014 SIPP

- Data files:
 - SIPP 2014 website:
<https://www.census.gov/programs-surveys/sipp/data/2014-panel/wave-1.html>
 - SIPP FTP site:
https://thedataweb.rm.census.gov/ftp/sipp_ftp.html
- Codebook:
<https://www.census.gov/datatools/demo/sipp/sippdict.html>

Navigating through the Website of 2014 SIPP

The screenshot shows a web browser window displaying the 2014 SIPP website. The browser's address bar shows the URL: <https://www.census.gov/programs-surveys/sipp/data/2014-panel/wave-1.html>. The website header includes the United States Census Bureau logo and a navigation menu with the following items: Topics (Population, Economy), Geography (Maps, Products), Library (Infographics, Publications), Data (Tools, Developers), Surveys/Programs (Respond, Survey Data), Newsroom (News, Blogs), and About Us (Our Research). A search bar is located in the top right corner. The main content area features a breadcrumb trail: [Census.gov](#) > [Survey of Income and Program Participation](#) > [Data](#) > [SIPP 2014 Panel Data](#) > [2014 Panel Wave 1](#). The primary heading is "Survey of Income and Program Participation". On the left, a vertical navigation menu lists: About this Survey, Information for Respondents, Data, Events, Guidance for Data Users, Methodology, News, Publications, Technical Documentation, Working Papers, and Contact Us. The main content area is titled "2014 Panel Wave 1" and includes social media sharing buttons for Twitter and Facebook. Below this, a section titled "Complete Wave 1 Technical Documentation" lists three documents: "SIPP 2014 Wave 1 Metadata [< 1.0MB]", "SIPP 2014 Release Notes [< 1.0MB]", and "Users' Guide [< 1.0MB]". Further down, a "SIPP Codebook" section features a blue icon labeled "CODEBOOK A-Z" and a description: "This interactive tool is a reference for those using the SIPP Public Use File." At the bottom, a "Data and Documents" section includes a small image of two people and the text "SAS Data File".

Navigating through the Website of 2014 SIPP

The screenshot shows the SIPP ECODEBOOK website. The page title is "SIPP ECODEBOOK". On the left, there is a search bar with the text "Search For:" and a filter section with "Filter By:" and three dropdown menus: "Survey Year: -All-", "Topic/Subtopic: -All-", and "Variable Name: -All-". A "Reset" button is located below the filter section. The main content is a table with the following columns: Variable, Topic, Subtopic, and Description. The table contains 14 rows of data, with the first row highlighted in yellow.

Variable	Topic	Subtopic	Description
AAWBCRACK	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBCRACK
AAWBGAS	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBGAS
AAWBHOLES	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBHOLES
AAWBMORT	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBMORT
AAWBPESTS	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBPESTS
AAWBPLUMB	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBPLUMB
AAWBSAFE	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBSAFE
AAWBSTAY	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBSTAY
AAWBTRAFF	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBTRAFF
AAWBTRASH	Adult and Child Well Being	Adult Well-Being	Status Flag for EAWBTRASH
EAWBCRACK	Adult and Child Well Being	Adult Well-Being	Are there cracks in the ceiling or walls?
EAWBGAS	Adult and Child Well Being	Adult Well-Being	Is ... able to pay the utility bills?
EAWBHOLES	Adult and Child Well Being	Adult Well-Being	Are there holes in the floor?
EAWBMORT	Adult and Child Well Being	Adult Well-Being	Is ... able to pay rent or mortgage?
EAWBPESTS	Adult and Child Well Being	Adult Well-Being	Is there a problem with pests?
EAWBPLUMB	Adult and Child Well Being	Adult Well-Being	Are there plumbing problems?

2014 SIPP Data

- Data for wave 1 of SIPP 2014 is currently available
- The merged file has both survey and weight data
- The size of the merged file is about 7 GB
- The file has 870,352 records and 5,463 variables
- The file has one person weight variable and 240 replicate weight variables

2014 SIPP Data

Table 3. Key ID and Weight Variables

Variable Name	Variable Description
SPANEL	Panel year
SWAVE	Wave number of interview
SSUID	Sample unit identifier. This identifier is created by scrambling together PSU, Sequence #1, Sequence #2, and the Frame Indicator for a case. It may be used in matching sample units fro
SHHADID	Household address ID. Used to differentiate households spawned from an original sample household.
PNUM	All persons
MONTHCODE	Value of reference month
WPFINWGT	Final person weight
REPWGT1-REPWGT240	Replicate Weights
GHLFSAM	Half sample code. A code used to divide the sample into "half sample" replicates that are used for variance estimation.
GVARSTR	Variance pseudo stratum code. Strata formed for half sample variance estimation

2014 SIPP Data

```
list monthcode spanel swave ssuid shhadid pnum ems epnspouse, sepby(monthcode spanel swave ssuid shhadid)
```

	monthcode	spanel	swave	ssuid	shhadid	pnum	ems	epnspouse
1.	1	2014	1	000114285070	011	101	3 Widowed	.
2.	1	2014	1	000114285134	011	101	1 Married, spouse present	102
3.	1	2014	1	000114285134	011	102	1 Married, spouse present	101
4.	1	2014	1	000114285134	011	103	6 Never married	.
5.	1	2014	1	000114285134	011	104	6 Never married	.
6.	1	2014	1	000114285134	011	105	.	.
7.	1	2014	1	000114285343	011	101	6 Never married	.
8.	1	2014	1	000114285343	011	102	4 Divorced	.
9.	1	2014	1	000114285465	011	101	1 Married, spouse present	102
10.	1	2014	1	000114285465	011	102	1 Married, spouse present	101
11.	1	2014	1	000114285746	011	101	6 Never married	.
12.	1	2014	1	000114285746	011	102	6 Never married	.
13.	1	2014	1	000114285765	011	101	4 Divorced	.
14.	1	2014	1	000114285765	011	102	5 Separated	.

Replicate Weights for 2014 SIPP

Stata:

- `svyset [pweight= wpinwgt], brrweight(REPWGT1-REPWGT240) fay(.5) vce(brr) mse`

Conclusions

- 2014 SIPP offers a unique opportunity to describe and examine how economic well-being changed across different family and social contexts
- The format of data is person-month. Thus, it would be better if users are familiar with how to use data in long format.
- The size of the wave 1 data of 2014 SIPP is about 7GB. Users should use computers with enough RAMs or select necessary variables or observations when analyzing 2014 SIPP data.
- 2014 SIPP over-samples low-income households. Thus, users should remember weighting their analyses.
- SIPP website provides latest information about data, codebooks, user guides, notes, and corrections. Thus, SIPP website is the first place you should look before starting your SIPP analyses.
- If you have any questions about 2014 SIPP, please stop by my office or email me.