

# HEALTH AND RETIREMENT STUDY

Life History Mail Survey (LHMS) 2017 Fall  
Supplement to the LHMS 2015 Questionnaire

Version 2, June 2023

Data Description and Usage

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## 1. Introduction

The Life History Mail Survey 2017 Fall Supplement (LHMS 2017 Fall-S) contains questions about residential, education, employment and health history, and other important childhood and family events. The LHMS 2017 Fall-S is a Supplement to the Life History Mail Survey 2015. The supplement consists of questions, which were included in the LHMS 2017 Spring questionnaire, but had *not* been included in the LHMS 2015 questionnaire. These questions cover topics such as employment history, relationship history and health.

The LHMS is part of the Health and Retirement Study (HRS), which is funded under a cooperative agreement between the National Institute on Aging (NIA) and the Survey Research Center at the University of Michigan. The HRS is designed to study labor force, health, and family transitions of the U.S. population aged 51 and older, and the impact of those transitions on economic resources, claims on structured programs such as Social Security, Medicare, and Medicaid, and informal assistance and transfers to and from family members.

The National Institute on Aging (NIA) provided funding (U01 AG009740) for the LHMS 2017 Fall-S, which was conducted by the Survey Research Center (SRC), at the Institute for Social Research (ISR), at the University of Michigan.

By receiving the dataset, you agree to use it for research and statistical purposes only and make no effort to identify respondents. In addition, you agree to send us a copy of publications you produce based on the data. See Registration and Downloading the Data (at the end of this document) for additional details.

The questions in the LHMS are based on several similar studies around the world, including: the English Longitudinal Study of Aging (ELSA, England), the Survey of Health, Ageing and Retirement in Europe (SHARELIFE), and the China Health and Retirement Longitudinal Study (CHARLS).

## 2. LHMS Sample Design

In 2015, all but a subsample of Spanish-speaking HRS respondents were assigned to receive one of two mail surveys: Consumption and Activities Mail Survey (CAMS) or Life History Mail Survey (LHMS). CAMS is a longitudinal sample that receives CAMS (and usually only CAMS) in every odd-numbered year. The sample selection for CAMS is household based and covers about 40% of HRS households. That left about 60% of households for the 2015 LHMS.

HRS had not planned to administer the LHMS until 2017, but an opportunity arose to administer a preliminary version of the LHMS in 2015. The 2015 LHMS questionnaire included only part of the content and is referred to as Part 1. In addition, the 2015 LHMS questionnaire was only administered to English-speaking respondents.

In order to incorporate the CAMS sample into the LHMS but not interrupt the fall CAMS cycle, HRS administered the LHMS to respondents in the CAMS sample in spring 2017. The sample included

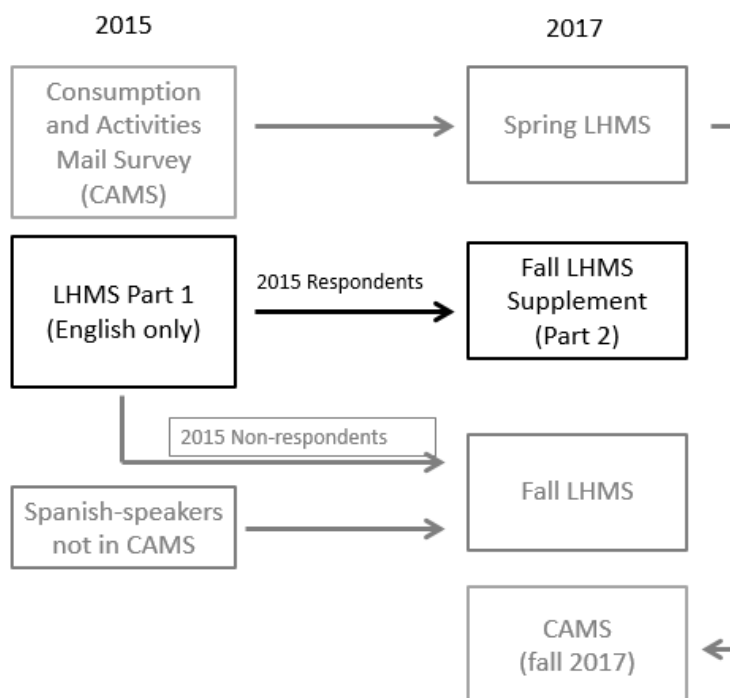
all individuals who were in the CAMS sample in 2015 (regardless of their response outcome and including both English and Spanish speakers) plus any new spouses/partners that they reported in the 2016 core interview. They received the full version of the LHMS (Parts 1 and 2) as a single questionnaire. One complexity is that, because 2016 was a new cohort recruitment year, interviewing for some panel and many new cohort cases continued well into 2017. As a result, CAMS sample members who had not completed their 2016 core interview by early March 2017 were excluded from the 2017 LHMS. The CAMS sample then received the CAMS survey as scheduled in fall 2017.

Sample members who responded to the 2015 LHMS were sent Part 2 of the LHMS in fall 2017 (Fall-Supplement), whereas those who were in the 2015 LHMS sample but did not respond were sent the full version of the 2017 LHMS (Fall). As with CAMS, new spouses/partners of 2015 LHMS sample members were also included in the 2017 Fall LHMS sample. Finally, Spanish-speaking respondents who were excluded from the 2015 LHMS (plus any new spouses/partners) received the full LHMS in Fall 2017.

When the three subsamples from 2017 are combined, the sample essentially covers all HRS participants who were in the sample in 2016 and were still living in 2017. The only exceptions are the 2016 new cohort (LBBs) and a small number of CAMS sample members who had not completed their 2016 core interview by March 2017. (Both of these excluded groups received the LHMS in 2019.)

Table 1 below depicts the 2015 and 2017 LHMS sample design with emphasis on the LHMS 2017 Fall-Supplement

### Life History Mail Survey Sample Design: 2015 and 2017



The field period for the LHMS 2017 Fall-S was December 2017 through June 2018. Questionnaires were mailed to a subsample of HRS respondents (n= 6,254). The data file contains 257 variables and data for 5,215 respondents. The response rate is 83% percent.

### 3. About the LHMS 2017 Fall-S Data

#### 3a. Updates in this release

New variables were added for the LH6 series.

#### 3b. Public and Restricted Versions

To protect the confidentiality of the information that respondents provide, a number of variables have been masked or are simply not included in the final release public file. Some of these variables are available to analysts as restricted data. The names of variables that were masked for confidentiality end in the capital letter “M”.

The variables in the LHMS 2017 Fall Supplement Restricted file are identical to those in the LHMS 2017 Fall Supplement Public file except for the following variables that include detailed respondent-level information for industry and occupation.

<b>2017 LHMS Fall Supplement</b>	
<b>Variable Name</b>	<b>Description</b>
LH6_1E	FIRST OR ONLY TYPE BUSINESS - 1
LH6_1EL	TYPE BUSINESS, LAST JOB - 1
LH6_1F	FIRST OR ONLY JOB TITLE – 1
LH6_1FL	LAST JOB TITLE – 1
LH6_2E	FIRST OR ONLY TYPE BUSINESS - 2
LH6_2EL	TYPE BUSINESS, LAST JOB - 2
LH6_2F	FIRST OR ONLY JOB TITLE – 2
LH6_2FL	LAST JOB TITLE – 2
LH6_3E	FIRST OR ONLY TYPE BUSINESS - 3
LH6_3EL	TYPE BUSINESS, LAST JOB - 3
LH6_3F	FIRST OR ONLY JOB TITLE – 3
LH6_3FL	LAST JOB TITLE – 3
LH6_4E	FIRST OR ONLY TYPE BUSINESS - 4
LH6_4EL	TYPE BUSINESS, LAST JOB - 4
LH6_4F	FIRST OR ONLY JOB TITLE – 4
LH6_4FL	LAST JOB TITLE – 4
LH6_5E	FIRST OR ONLY TYPE BUSINESS - 5
LH6_5EL	TYPE BUSINESS, LAST JOB - 5
LH6_5F	FIRST OR ONLY JOB TITLE – 5
LH6_5FL	LAST JOB TITLE – 5

LH6_6E	FIRST OR ONLY TYPE BUSINESS - 6
LH6_6EL	TYPE BUSINESS, LAST JOB - 6
LH6_6F	FIRST OR ONLY JOB TITLE – 6
LH6_6FL	LAST JOB TITLE – 6
LH6_7E	FIRST OR ONLY TYPE BUSINESS - 7
LH6_7EL	TYPE BUSINESS, LAST JOB - 7
LH6_7F	FIRST OR ONLY JOB TITLE – 7
LH6_7FL	LAST JOB TITLE – 7
LH6_8E	FIRST OR ONLY TYPE BUSINESS - 8
LH6_8EL	TYPE BUSINESS, LAST JOB - 8
LH6_8F	FIRST OR ONLY JOB TITLE – 8
LH6_8FL	LAST JOB TITLE – 8
LH6_9E	FIRST OR ONLY TYPE BUSINESS - 9
LH6_9EL	TYPE BUSINESS, LAST JOB - 9
LH6_9F	FIRST OR ONLY JOB TITLE – 9
LH6_9FL	LAST JOB TITLE – 9
LH6_10E	FIRST OR ONLY TYPE BUSINESS - 10
LH6_10EL	TYPE BUSINESS, LAST JOB – 10
LH6_10F	FIRST OR ONLY JOB TITLE – 10
LH6_10FL	LAST JOB TITLE – 10
LH10	(MOST IMPORTANT) JOB TITLE
LH11	(MOST IMPORTANT) TYPE OF EMPLOYER OR BUSINESS

### 3c. Variable Names and Labels

Variable names begin with the letters LH to designate the Life History Mail Survey, followed by \_17FS for the wave in which the data were collected, and FS to indicate Fall Supplement.

LH1\_17FS    LH1. EVER BEEN MARRIED

As shown in the example, the variable label contains the question number found in the LHMS 2017 Fall-S questionnaire.

### 3d. Data Quality

Due to the skip patterns in this questionnaire, all missing answers are treated the same in the dataset and coded as simply “Answer not given/Missing.” This is true whether the respondent was “expected” to answer the question or not, based on earlier responses.

While cleaning the data, when extreme, unlikely or conflicting values were encountered, electronic images of the questionnaires were checked directly to determine if errors were introduced during the data entry/scanning process. This includes instances where a start year is greater than an end year, or a start age is greater than an end age. If the respondent reported the extreme or conflicting value, the value appears unchanged in the data.

### 3d1. Occupation and Industry

For LH6, respondents were asked to describe places worked for one year or more after finishing full-time education. If a respondent changed jobs (or job titles) but stayed with the same employer, they were asked to list the first and last title held with that employer on the same line. The first (or only) job is provided in the variable LH6\_xFM\_19 (FIRST OR ONLY JOB TITLE); the corresponding employer/business is in variable LH6\_xEM\_19 (TYPE OF EMPLOYER OR BUSINESS, FIRST JOB). The last (where applicable) job is provided in the variable LH6\_xFLM\_19 (LAST JOB TITLE); the corresponding last employer/business is in variable LH6\_xELM\_19 (TYPE OF EMPLOYER OR BUSINESS, LAST JOB).

### 3e. Open-Ended Questions

Responses were reviewed for three open-ended questions:

LH19\_17FS, major surgeries

LH22a\_17FS, periods of ill health or disability

LH23\_17FS, most important accomplishments

Responses to the employment series beginning at LH6 were coded based on the same US Census codes used to code J166M and J168M (Section J) in the core interview. These codes were then grouped into larger categories to protect respondent confidentiality, also using the same masking code used in the HRS core study.

Responses to the health questions (LH19 and LH22a), and to LH23, major accomplishments, were coded using the same frame used in LHMS 2017 Spring, which was based on an analysis of frequencies found in the responses.

### 3f. “Other: Specify” Questions

Responses were reviewed for all questions with an “Other: Specify” option, and were either coded into existing code frames or new code frames were created. For the four questions below, the following new code frames were created:

**LH6d\_17FS**, What did you do after leaving this job?

- 6 Retired, took buy out package
- 7 Pursued further education
- 8 Started own business/became self-employed
- 9 Moved/relocated
- 10 Joined military

11 Still work at this job

**LH15a\_17FS**, Why did you leave or stop working for this employer?

- 11 The company closed, went out of business, or relocated
- 12 Started own business/became self-employed
- 13 Did not like it; problems with the owners; problems with coworkers; hours were cut
- 14 Moved to a different job, reason unspecified
- 15 Divested ownership in the business/sold the business

#### **4. File Structure**

The HRS LHMS 2017 Fall Supplement Final Release data are at the respondent level. The data file contains one record for each respondent or proxy (n= 5,215) who filled out and returned a LHMS 2017 Fall-S questionnaire. The variable LH24\_17FS WHO ANSWERED SURVEY QUESTIONS provides information about who answered the questions in the LHMS 2017 Fall-S.

The data file is called LHMS17FS\_R, translated as: Life History Mail Survey 2017 Fall Supplement, with the “\_R” designating the file is at the respondent level.

The primary Identification variables (IDs) are:

HHID HOUSEHOLD IDENTIFIER  
PN PERSON NUMBER

Records in the data files are sorted in order by the identifying variables from the HRS core study, HHID (household ID) and PN (person number). The variable PN refers to the respondent to whom the questionnaire was mailed. Identification variables in the HRS LHMS 2017 Fall-S Final Release are stored in character format. For further information about HRS identification variables and merging data, see the [Data Description for the HRS 2002 Core](#).

#### **5. Distribution Files**

The following extensions are used for the six different types of distribution files:

- .DA for data files,
- .SAS for SAS program statements and .sas7bdat for SAS “ready-to-use” files,
- .SPS for SPSS program statements and .sav for SPSS “ready-to-use” files,
- .DO for Stata DO statements and .dta for Stata “ready-to-use” files,
- .DCT for Stata dictionary statements, and
- .TXT for codebook files.



For example,

LHMS17FS\_R.DA contains ASCII data  
LHMS17FS\_R.SAS contains corresponding SAS program statements,  
LHMS17FS\_R.SAS7BDAT contains SAS data in “ready-to-use” format,  
LHMS17FS\_R.SPS contains corresponding SPSS program statements,  
LHMS17FS\_R.SAV contains SPSS data in “ready-to-use” format,  
LHMS17FS\_R.DO contains corresponding Stata DO statements,  
LHMS17FS\_R.DTA contains Stata data in “ready-to-use” format,  
LHMS17FS\_R.DCT contains corresponding Stata dictionary statements, and  
LHMS17FS\_R.TXT contains the ASCII codebook

The HRS LHMS 2017 Fall-S data are provided as SAS (.sas7bdat), SPSS (.sav) and Stata (.dta) “ready-to-use” files and in ASCII format with fixed-length records. Use the associated SAS, SPSS or Stata program statements to read the data into the analysis package of your choice or use the available “ready-to-use” SAS (.sas7bdat), SPSS (.sav) and Stata (.dta) files. In addition, you may also download the codebook file (LHMS17FS\_R.TXT) and the data description (this document).

## **6. Program Statements**

### **6a. Using the Files with SAS**

To create a SAS system file for a particular dataset, two file types must be present for that dataset -- .SAS program statement files and .DA data files.

To create a SAS system file, load the \*.SAS file into the SAS Program Editor.

If the \*.SAS file is located in "c:\lhms2017fs\sas" and the data file is located in "c:\lhms17fs\data", you can run the file as is. A SAS system file (\*.SD2 or \*.SAS7BDAT) will be saved to directory "c:\lhms2017fs\sas".

If the files are not located in the specified directories, you will need to edit the \*.SAS file to reflect the proper path names prior to running the file.

### **6b. Using the Files with SPSS**

To create an SPSS system file for a particular dataset, two file types must be present for that dataset -- .SPS program statement files and .DA data files.

To create an SPSS system file, open the \*.SPS file in SPSS as an SPSS Syntax File.

If the \*.SPS file is located in "c:\lhms2017fs\spss" and the data file is located in "c:\lhms2017fs\data", you can run the file as is. An SPSS system file (\*.SAV) will be saved to directory "c:\lhms2017fs\spss".

If the files are not located in the specified directories, you will need to edit the \*.SPS file to reflect the proper path names prior to running the file.

## 6c. Using the Files with Stata

To use Stata with a particular dataset, the following three file types must be present for that dataset -- .DCT files, .DO files, and .DA data files.

Files with the suffix .DA contain the raw data for Stata to read. Files with the suffix .DCT are Stata dictionaries used by Stata to describe the data. Files with the suffix .DO are short Stata programs ("do files") which you may use to read in the data. Load the .DO file into Stata and then submit it.

If the \*.DO and \*.DCT files are located in "c:\lhms2017fs\stata" and the data file is located in "c:\lhms2017fs\data", you can run the .DO file as is.

If the files are not located in these directories, you must edit the \*.DO and \*.DCT files to reflect the proper path names before you run the files.

Note that the variable names provided in the .DCT files are uppercase. If you prefer lower case variable names, you may wish to convert the .DCT files to lower case prior to use. You may do this by reading the .DCT file into a text or word processing program and changing the case. For instance in Microsoft Word, Edit, Select All, Format, Change Case, lowercase.

## 7. Linking Respondents across Time

Respondent records in the HRS LHMS 2017 Fall-S can be linked to respondent records from 2016 and prior waves by HHID and PN. The core sub-household identifiers can be used to link household data with the cross-sectional respondent level data.

## 8. Registration and Downloading the Data

### 8a. Registration

HRS data are available for free to researchers and analysts at the HRS Web site. In order to obtain public release data, you must first register at our Web site. Once you have completed the registration process, your username and password will be sent to you via e-mail. Your username and password are required to download data files.

Registered users receive user support, information related to errors in the data, future releases, workshops, and publication lists. The information you provide will not be used for any commercial use, and will not be redistributed to third parties.

## 8b. Conditions of Use

By registering, you agree to the Conditions of Use governing access to the Health and Retirement Study's public release data. You must agree to

- not attempt to identify respondents
- not transfer data to third parties except as specified
- not share your username and password
- include specified citations in work based on HRS data
- provide information to us about publications based on HRS data
- report apparent errors in the HRS data or documentation files
- notify us of changes in your contact information

For more information concerning privacy issues and conditions of use, please read "Conditions of Use for Public Data Files" and "Privacy and Security Notice" at the Public File Download Area of the HRS Web site.

## 8c. Publications Based on Data

As part of the data registration process, you agree to include specified citations and to inform HRS of any papers, publications, or presentations based on HRS data. Please send a copy of any publications you produce based on HRS data, with a bibliographical reference, if appropriate, to the address below.

Health and Retirement Study  
Attn: Papers and Publications  
The Institute for Social Research  
P.O. Box 1248  
Ann Arbor, MI (USA) 48106-1248

Alternately, you may contact us by e-mail at [hrsquestions@umich.edu](mailto:hrsquestions@umich.edu) with "Attn: Papers and Publications" in the subject line.

## 9. If You Need to Know More

This document is intended to serve as a brief overview and to provide guidelines to using the LHMS 2017 Fall-S data. Additional information about the HRS can be obtained from the HRS Web site. If you have questions or concerns that are not adequately covered here or on our Web site, please contact us. We will do our best to provide answers.

### 9a. HRS Internet Site

Health and Retirement Study public release data and additional information about the study are available on the Internet. To access the data and other relevant information, please visit the HRS Web site: <http://hrsonline.isr.umich.edu>

## 9b. Contact Information

If you need to contact us, you may do so by one of the methods listed below.

Internet: Help Desk at our Web site

E-mail: [hqsquestions@umich.edu](mailto:hqsquestions@umich.edu)

Postal service:

Health and Retirement Study  
The Institute for Social Research  
The University of Michigan  
P.O. Box 1248  
Ann Arbor, MI 48106-1248

FAX: (734) 647-1186