

HEALTH AND RETIREMENT STUDY

2009 Health and Well-Being (HWB)
Early Release V1.0, September 2012
(Sensitive Health Data)

Data Description and Usage

To the researcher: This data set is intended for exclusive use by you under the terms specified in the *Sensitive Health Data Use Agreement*. If there are any questions about its use, please contact the HRS Help Desk (hrequest@isr.umich.edu).

This document may be reproduced only with the written consent of the staff of the Health and Retirement Study, Institute for Social Research, University of Michigan.

1. Introduction

1a. Background

1a-1. General Background and Sample Information

The HRS 2009 Health and Well-Being Study (HWB) is the third wave of a multi-wave mail survey designed to track changes in prescription drug utilization and enrollment in Medicare Part D, the prescription drug benefit administered by Medicare. The baseline wave, administered in 2005, was intended to capture prescription drug use, coverage, and satisfaction prior to the implementation of Medicare Part D, as well as awareness of the new drug benefit and available subsidies. The second wave, administered in 2007, was designed to capture similar information post-implementation. This wave continues to assess Medicare Part D utilization and satisfaction as well as prescription drug usage and expenditures. In addition, new content on experienced well-being was included as a pilot.

The original sample for the PDS was drawn from respondents to HRS 2004. Of the 20,129 respondents to 2004, 14,242 met the criteria for selection into PDS. The study sample included HRS respondents born in 1942 or earlier (65th birthday in 2007), or already covered by Medicare or Medicaid at some time between 2002 and 2004. Respondents interviewed by proxy, and those in nursing homes were eligible for inclusion. Approximately 40% of those who were eligible were excluded because they were participants in the Consumption and Activities Mail Survey, which was fielded at the same time as PDS. A sample of 5,654 persons was drawn from the remaining eligible respondents, with oversamples of persons lacking prescription drug coverage or having low income and wealth.

The sample for the 2007 wave of the PDS consisted of everyone from the original 2005 sample who responded to either PDS 2005 or gave a core HRS interview in 2006 and was not known to be deceased at the beginning of the field period. The PDS 2007 sample originally consisted of 4,990 respondents.

The sample for HWB 2009 included everyone from the PDS 2005/2007 sample plus a 22% random samples of respondents who: a) gave an interview in 2008, b) were not included in the sample for the Consumption and Activities Mail Survey or already included in the PDS sample, and c) born before 1943, and a 64% random sample of respondents who a) gave an interview in 2008, b) were not included in the sample for the Consumption and Activities Mail Survey or already included in the PDS sample, and c) born in 1943 or later. This sample was designed so that 20% of the HRS sample would not be asked to complete a mail survey in the fall of 2009. The final sample size for HWB 2009 was 7,417 respondents.

The survey was mailed to selected respondents in late October 2009. Non-respondents to the mail survey mailings were contacted by phone and asked to complete a telephone interview. The field period continued through May 2010.

After attempting contact with the sample, we determined that 337 persons died prior to the October 2009 start of the field period and were determined to be ineligible for inclusion in the sample. Of the 7,080 remaining eligible cases, 5,333 returned questionnaires or completed a telephone interview, for a response rate of 75%.

1a-1. Background to the Pilot Measure of Experienced Well-being

The inclusion of subjective well-being measures in HWB 2009 was a response to increased cross-disciplinary interest in assessing subjective well-being at the levels of populations and individuals (Krueger, 2009; Stiglitz, Sen & Fitoussi, 2009). This renewed interest stimulated proposals about new ways to assess the experience of well-being associated with daily activities and life circumstances. For example, it was proposed that population surveys assess the percentage of time that people generally allocate each day to activities that provide them with pleasure and misery (Kahneman et al., 2004; Krueger, 2009; Krueger et al., 2007; Stone et al., 2006). Kahneman and colleagues developed and tested a Day Reconstruction Method (DRM), or time diary of yesterday's activities, in which each respondent recalls the chronology of events that occurred over the previous 24-hours then indicate how they felt at the time of a random sample of time episodes. This method adapts the assessments of time use in national and international population surveys (Belli et al., 2009; Juster et al., 2003; Robinson & Godbey, 1997). Because measures of experienced well-being provide different information than is obtained from global reports of well-being (e.g., life satisfaction), Kahneman, Krueger, and colleagues argue that their inclusion in national surveys could contribute substantially to better understanding factors associated with population health, productivity, and quality of life and enable standardized comparisons to be made between nations and over time.

Our aim for this self-administered HRS pilot measure of experienced well-being (HWB1-SAQ) was methodological development. We benefited greatly from advice from Alan Krueger and Daniel Kahneman on the measurement of time-use and well-being, from Vicky Freedman and Frank Stafford of the Panel Study of Income Dynamics (PSID) on the measures used in their DUST study, and from the Gallup Corporation who provided access to measures used in the Gallup Healthways Well-Being Index.

The HWB1-SAQ includes two measures of global well-being: namely a satisfaction with life-as-a-whole item that is asked also in the HRS core survey, and two Cantril Ladder items that make up the life satisfaction component of the Gallup Well-Being Index (<http://www.well-beingindex.com/>; Rath & Harter, 2010). We also include items to assess proximal health, financial, and person-specific factors that might influence responses to questions about well-being (e.g., self-reported health for yesterday, satisfaction with standard of living, financial difficulty, and satisfaction with "personal life today").

The primary focus of this questionnaire was in measuring hedonic well-being through the linkage of affect or mood reports with specific activities. Following the DRM, we used the previous day as the reference period. We ask for the day of the week yesterday and if yesterday was a normal day or did something special happen. Mail surveys do not allow for random sampling from lists of reported activities as in the American Time Use Survey (ATUS) or PSID-DUST. For this reason, we selected eight activities from the ATUS taxonomy that were relevant to the HRS age range (*watching TV, eating meals, managing money, taking care of health needs, walking or exercising, socializing, at home alone, and working or volunteering*). For each activity, participants are asked to estimate the total time spent on the activity and how strongly (on a 0-6 scale) they felt *happy, interested, frustrated, nervous, calm, bored, and sad* while doing the activity. The activities and affect items were chosen to map to other day reconstruction studies.

The HWB1-SAQ also included general items about yesterday adapted from Gallup: (*Did you feel well-rested yesterday morning? Did you smile or laugh a lot yesterday? Did you learn or do something interesting yesterday?*).

- American Time Use Survey User's Guide: *Understanding ATUS 2003 to 2009 (July 2010)*. Bureau of Labor Statistics and conducted by the U.S. Census Bureau
- Belli, R.F., Stafford, F.P., & Alwin, D.F. (2009). *Calendar and time diary: Methods in life course research*. Thousand Oaks, CA.: Sage Publications.
- Juster, F. T., Ono, H. & Stafford, F. P. (2003). An assessment of alternative measures of time use. *Sociological Methodology*, 33, 19-54.
- Kahneman, D., Krueger, A. B., Schkade, D. A., Schwarz, N., & Stone, A. A. (2004). A survey method for characterizing daily life experience: The day reconstruction method. *Science*, 306, 1776-1780.
- Krueger A. B (Ed) (2009). *Measuring the Subjective Well-Being of Nations: National Accounts of Time Use and Well-Being*, The University of Chicago Press.
- Rath, T., & Harter, J. (2010). *Well Being: The Five Essential Elements*. New York, NY: Gallup Press.
- Robinson, J., & Godbey, G. (1997). *Time for Life: The surprising ways Americans use their time*. University Park, PA: The Pennsylvania State University.
- Stiglitz, J. E., Sen, A. & Fitoussi, J-P. (2009) *Report by the Commission on the Measurement of Economic Performance and Social Progress* [<http://www.stiglitz-sen-fitoussi.fr/en/documents.htm>]
- Stone, A. A., Schwartz, J. E., Schwarz, N., Schkade, D., Krueger, A., & Kahneman, D. (2006). A population approach to the study of emotion: Diurnal rhythms of a working day examined with the Day Reconstruction Method (DRM). *Emotion*, 6, 139-149.

1b. File Structure

The 2009 Health and Well-Being Study (Early Release V1.0) data consist of two respondent-level files, a sample data file and a questionnaire data file. Each person is uniquely identified in the files by the combination of a household ID (HHID) and person number (PN). The primary identification variables used in the HRS (HHID, PN) are included in all files to facilitate merging with other HRS data sets.

The sample data file (HWB2009S_R) contains the 7,417 respondents who were selected for participation in the 2009 Prescription Drug Study, a variable flagging who completed the questionnaire, and relevant identifiers. Sample weights are forthcoming and will be added to this file when available. This file is provided so that analysts can identify the non-respondents for analysis if desired.

The questionnaire data file (HWB2009A_R) contains one record for each respondent or proxy informant who completed and returned a questionnaire (N=5,333).

The medication files (Sections E, F & G of the questionnaire) are currently in preparation and will contain detailed medication data for each respondent who completed section E of the questionnaire. This file will include drug names, information on dosage, cost, and adherence. This file will be added in the next version of these data.

Codebooks for each data file, the questionnaire, and this document may be viewed on the HRS public web site.

1c. Data Quality

1c-1. Recoded and constructed variables

The majority of variables in the questionnaire data file match the code frame structure of the questions in the HWB questionnaire. However, questions that allowed for multiple mentions have been recoded such that each possible response is represented as a dichotomous variable. In addition, new variables created to categorize responses to open ended questions have been made available in this data release.

Data from the medication sections of the questionnaire will be reorganized as a multiple-record file (multiple lines per observation).

1c-2. Extreme values and missing data

Extreme or unlikely values in the data were checked against the hard copies of the questionnaires to determine whether errors occurred during data entry. Confirmed cases in which the respondent reported an extreme value remain unchanged in the data.

When respondents did not provide an answer to a question, their answers were treated as missing. However, variables may contain missing values for other reasons. In an attempt to distinguish the various types of possible missing responses, meaningful missing codes are used in the SAS and Stata versions of the data. Generally, these codes distinguish data that are missing because a respondent chose not to respond to a question from those questions which the respondent was instructed to skip. The meaningful missing codes used in the data adhere to the classification in the table below.

Code	Reason for Missing Data
.D	Uncertain, can't say
.M	Missing
.R	Refused
.S	Skip (information not available due to skip patterns, typically from the preceding question)
.X	Answer not applicable

2. Obtaining the Data

2a. How to Apply

The HWB 2009 data are considered a “Sensitive Health” data product and require an additional data use agreement in addition to the HRS user registration. However, if you have already received access to PDS 2005 or PDS 2007, you do not need to complete an additional request for the HWB 2009 data.

If you are not a registered HRS user or do not have PDS 2005 or PDS 2007 data access, follow these instructions:

1. Visit the [HRS User Registration/File Download Web site](#). If you do not already have a username and password, you must register in order to enter the site.

2. Identify the desired data set (2009 Health and Well-Being Study Data (v.1.0) under the *Requesting HRS Special Access Files* heading.
3. Download and complete the *Data Use Agreement* in hardcopy format (See Appendix).
4. Send a signed copy of the agreement via surface mail to:

Health and Retirement Study
DUA Review Committee
426 Thompson Street, Room 3050 ISR
Ann Arbor, Michigan 48104-2321

2b. Approval Process

The Health and Retirement Study will review your request, and based on the information that you provided when you registered at the [HRS User Registration/File Download Web site](#), verify your identity and institutional affiliation. Once this authentication process has been completed to our satisfaction, we will authorize access to the HWB 2009 data. We will communicate with you at the email address that you provided when you registered at the download site.

2c. How to Download

Once you receive your approval notification, login to the [HRS User Registration/File Download Web site](#). In the *HRS Special Access Files* box on the right hand side of the page you will now see links to the 2009 Health and Well-Being (v.1.0) data set. Click on the appropriate link and follow instructions to download the HWB 2009 files.

2d. Publications Based on Sensitive Health Data

You must inform HRS of any papers, publications, or presentations based on this HRS sensitive health data set. Please send a copy of any such publications, with a bibliographical reference if appropriate, to this address:

Health and Retirement Study
Attn: Papers and Publications
The Institute for Social Research, Room 3050
426 Thompson Street
Ann Arbor, MI (USA) 48104

Papers and publications may also be submitted via electronic mail; send message and attachment(s) to hrsquest@isr.umich.edu. Please include "Attn: Papers and Publications" on the subject line.

The following citation should be included in any research reports, papers, or publications based on these data:

In text: "The HRS 2009 Health and Well-Being Study is sponsored by the National Institute on Aging (grant number NIA U01AG009740) and was conducted by the University of Michigan."

In references: "Health and Retirement Study, 2009 Health and Well-Being Study. Produced and distributed by the University of Michigan with funding from the National Institute on Aging (grant number NIA U01AG009740). Ann Arbor, MI, (2012)."

3. Setup

3a. Distribution Set

The HRS 2009 HWB Release files are packaged for distribution both in a .zip file, hwb2009.zip, and a self-decompressing .exe file, hwb2009.exe. In order to keep the contents secure, the .zip and .exe files have been encrypted.

For users working in a Microsoft Windows environment, extract the files by running the self-decompressing archive file, hwb2009.exe, from the command line or from Windows Explorer.

UNIX, Linux, and Macintosh users will extract the files from the standard .zip file, hwb2009.zip.

Users who require special file formats should contact the HRS Help Desk at hrsrequest@isr.umich.edu.

Extract the data file, the program statement file that matches your analysis environment, the data description (this file), and the codebook file.

3a-1. Windows Environment

Run the self-decompressing .exe file, hwb2009.exe, from the command line or from Windows Explorer. When you are prompted for the pass-phrase, respond with the character string that you received via e-mail. The output from the self-extracting process will be the files listed below. If you have problems, please contact the HRS Help Desk at hrsrequest@isr.umich.edu.

3a-2. UNIX Environment

Use the file decompression software installed on your system (e.g. gunzip) to expand hwb2009.zip. When you are prompted for the pass-phrase, respond with the character string that you received via e-mail to output the files listed below. If you have problems, please contact the HRS Help Desk at hrsrequest@isr.umich.edu.

3a-3. Mac Environment

For Mac users, we suggest that you download either StuffIt or The Unarchiver, free software that will handle password-protected .zip files on a Mac. You can first extract the files from the main .zip file, and then drag the separate files to the desktop, which you can then unzip. When you are prompted for the pass-phrase, respond with the character string that you received via e-mail to output the files listed below. If you have problems, please contact the HRS Help Desk at hrsrequest@isr.umich.edu.

3b. Filename Suffixes

For all data sets, filename suffixes mean the following:

File	Description
=====	=====
*.da	Data
*.dct	Stata dictionary
*.do	Stata "do" file
*.sas	SAS program statements
*.sps	SPSS program statements
*.txt	ASCII text files (codebook)
*.pdf	PDF format

3c. Directory Structure

While a particular setup is not required for using HRS files, we have traditionally suggested a directory structure. By using this directory structure, you will not have to change the path name in your data descriptor files. If you use a different structure, just change the directory references in the program files.

Directory	Contents
=====	=====
c:\hwb2009\	Distribution file
c:\hwb2009\docs\	hwb09A_R.txt hwb09S_R.txt hwb2009dd.pdf (this file) hwb2009qnaire.pdf
c:\hwb2009\data\	hwb09A_R.da hwb09S_R.da
c:\hwb2009\sas\	hwb09A_R.sas hwb09S_R.sas
c:\hwb2009\spss\	hwb09A_R.sps hwb09S_R.sps
c:\hwb2009\stata\	hwb09A_R.do hwb09A_R.dct hwb09S_R.do hwb09S_R.dct

3d. Program Statements

The distribution package provides SPSS, SAS, or Stata program statements describing the 3 variables in the sample data set, 170 variables in the questionnaire data set. These are designed to assist the user in creating system files from the ASCII data file. Files containing SPSS statements are named with a .sps extension, those containing SAS statements with a .sas extension, and those containing Stata statements with .do and .dct extensions. The ASCII file for the sample file contains 7,417 records. The ASCII file for the questionnaire file contains 5,333 records. System files will differ in size, but should contain the same number of records and variables.

3d-1. Using the Files with SAS

To create a SAS system file for a particular data set, two file types must be present for that data set: .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:\hwb2009\sas" and the data file is located in "c:\hwb2009\data", you can run the file as is. A SAS system file, (*.sas7bdat) will be saved to directory "c:\hwb2009\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.

3d-2. Using the Files with SPSS

To create an SPSS system file for a particular data set, two file types must be present for that data set: .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:\hwb2009\spss" and the data file is located in "c:\hwb2009\data", you can run the file as is. An SPSS system file (*.sav) will be saved to directory "c:\hwb2009\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.

3d-3. Using the Files with Stata

To use Stata with a particular data set, the following three file types must be present for that data set: .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:\hwb2009\stata" and the data file is located in "c:\hwb2009\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.

4. If You Need to Know More

This document is intended to serve as a brief overview and to provide guidelines for using the HRS 2009 Health and Well-Being Study data. If you have questions or concerns that are not adequately covered here or on our restricted data Web site, or if you have any comments, please contact us. We will do our best to provide answers.

4a. HRS Internet Sites

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, point your Web browser to the HRS Web site at <http://hrsonline.isr.umich.edu/>.

Visit the HRS Restricted Data Web site at <http://hrsonline.isr.umich.edu/index.php?p=resdat> if you want to find out more about restricted data products.

4b. 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 (<http://hrsonline.isr.umich.edu/help>)

E-mail: hrsquest@isr.umich.edu

Postal service:

Health and Retirement Study
The Institute for Social Research, Room 3050
The University of Michigan
P.O. Box 1248
Ann Arbor, MI 48106-1248

FAX: (734) 647-1186

Appendix: Data Use Agreement

Health and Retirement Study Sensitive Health Data Use Agreement

Data Set Requested: _____

By signing this form and obtaining the requested data set from HRS, the User agrees:

1. To use the data set solely for statistical reporting and analysis.
2. Not to share these data with, or provide copies of these data to, any other person or organization. Note: Each research assistant/associate, graduate student or undergraduate student, or other individual working on the research project must sign and submit his/her own form.
3. To return or destroy the data set, and any derivative data files, upon request from HRS.
4. To make no attempt to link this data set with individually identifiable records from any source, or in any other way attempt to identify the persons in this or other HRS data sets.
5. That if the identity of any person or establishment in this data set is inadvertently discovered, then (a) no use will be made of this knowledge, (b) the Director of HRS will be advised of this incident immediately, (c) the information that would identify any individual or establishment will be safeguarded or destroyed, as requested by HRS, and (d) no one else will be informed of the discovered identity.
6. To employ the following guidelines when producing tabulations for distribution:
 - Magnitude Data: Ensure that no cells/strata with $n < 5$ are produced.
 - Frequency Data: Apply a marginal threshold of $n \geq 5$ and cell threshold of $n \geq 5$ to all tabulations.
 - Protecting against complementary disclosure: Additional cells may be suppressed, i.e., complementary disclosure, to make sure the primary suppressions cannot be derived by subtraction from published marginal totals.
7. Aggregate statistical summaries of the data and analyses (frequency tabulations, magnitude tabulations, means, variances, regression coefficients, and correlation coefficients): These are approved under this agreement and may be freely published by the User, subject to the provisions above.
8. To cite HRS as the data source in any publications or research based upon these data, and to provide a copy of any publications to the HRS. Please refer to the data description for the correct citation that should be included in any research reports, papers, or publications based on these data.
9. To maintain a secure computing environment for storage and use of this data set and any data sets derived from it.
10. To hold harmless and indemnify HRS and the University of Michigan, its agents and employees, for any claims of breaches of confidentiality arising out of his/her research, defined as failure to abide by any section of this agreement or any accidental or intentional violation of privacy of any contributor to any HRS data resource.

UserID (from HRS File Download site): _____

Signature _____

Title _____

Name (printed or typed) _____

Employer/Institutional Affiliation _____

For Office Use Only	Date	Initials
Received		
Verified		
Approved		
Access Granted		