

# Introduction to IPUMS-Time Use



Minnesota Population Center

# IPUMS-Time Use

- American Time Use Survey (ATUS-X):  
Contemporary data from the US
- American Heritage Time Use study (AHTUS-X):  
Historical data on time use for the US
- Multinational Time Use Study (MTUS-X):  
International data on time use

# What the ATUS-X does

- Makes complex time diary data from the ATUS easier to use
- Available for free online
- Easy to use
  - Simplify use of complex data
  - Time use variable creation
- Comprehensive online documentation
- Integration makes analyzing change over time easier
- Data extract system allows you to specify years and variables relevant to your research
- Datasets are available in the main Statistical Packages
- User support is available by e-mail to help you as needed

# Plan for this session

- Web-based dissemination system demo
  - Step 1: choosing years, people, data format
  - Step 2: selecting Household and Person level variables
  - Step 3: selecting Activities and Who level variables
  - Step 4: creating and selecting time use variables
  - Step 5: reviewing and submitting extracts
  - Step 6: downloading and revising extracts
  - Managing time use variables
- More information on selected topics
  - Types of people in the data
  - Rectangular versus hierarchical data
  - Integration: why we do it and how it relates to the user experience
  - ATUS versus CPS variables
  - Using the FAQ as a reference



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## American Time Use Survey Data Extract Builder

ATUS-X is a project dedicated to making it easy for researchers to use data from the American Time Use Survey (ATUS). The ATUS is an ongoing time diary study that is funded by the U.S. Bureau of Labor Statistics and fielded by the U.S. Census Bureau. The goals of the ATUS-X project are:

- To collect and preserve ATUS data and documentation
- To harmonize the data from different years of data collection
- To make it easy to create data files containing the ATUS variables a user needs

*Time is our scarcest resource...use it wisely!*

## New Users

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## Time Use News

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## Other IPUMS Projects

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Funding provided by:



Supported by:



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# Registration required

- Free
- Necessary to submit extracts
- Provide information about your affiliation
- Short description of your research interest
- Login is also necessary to create TUV
- New user can Login automatically after registering, you don't have to wait for approval

# Types of People

- ATUS respondents
  - Time diary data for one 24-hour period
  - Last month of CPS data
  - Updates from CPS
- Members of ATUS respondent households
  - Last month of CPS data
  - Updates from CPS
- ATUS non-respondents
  - Survey methodology questions
  - Last month of CPS data
- Members of ATUS non-respondent households
  - Last month of CPS data
- **NOTE: not only time use, but data from two time points for a large number of variables!**

# Types of Data

- **Rectangular (default)**
  - Preferred by most researchers
  - Ready to analyze
  - Person records ONLY
  - Activity and Who record information is used to create time use variables—you never actually see them
- **Hierarchical**
  - Four record types
    - Household, Person, Activity, Who
  - Select variables for each record type if you want them to be included
  - More difficult to work with, but better for creating LOTS of time use variables that are only slightly different or are too complicated to do in the system
  - Necessary for analyzing activity sequences



# Rectangular Data: What It Looks Like

→ P20060101060001020069990100100033845748596070730106010030000  
P20060101060014020060130100100034790679057210330206010030000  
P20060101060014020060130200200000000000000000014029902299  
P200601010600140200601303003000000000000000000013019902299  
P20060101060025020069990100100058251654273660320106010020000  
P20060101060025020069990200200000000000000000033029902199  
P20060101060033020060000100100051744472741660190206010030390  
P20060101060033020060000200200000000000000000041020402499  
P200601010600330200600003003000000000000000000011029902599  
P2006010106003302006000040040000000000000000000019902299  
P20060101060038020069990100100063537485252870520201010010001  
P20060101060038020069990200200000000000000000056010102099  
P20060101060049020060000100100081934574764410220206010020120  
P20060101060049020060000200200000000000000000025010602199  
P2006010106004902006000030030000000000000000000029902299

# Hierarchical Data: What It Looks Like

Hierarchical data is represented by a list of alphanumeric codes, where each code consists of a sequence of characters representing a hierarchy. The codes are grouped into three main sections, each enclosed in a colored box:

- Section 1 (Red Box):** Codes starting with H2006010106000102006. This section contains 8 lines of data, with arrows pointing to each line.
- Section 2 (Blue Box):** Codes starting with H2006010106001402006. This section contains 10 lines of data, with arrows pointing to each line.
- Section 3 (No Box):** Codes starting with H2006010106003302006. This section contains 8 lines of data, with arrows pointing to each line.

The codes are as follows:

```
H2006010106000102006  
P200601010600010200601001000338457485960707301060100000  
A2006010106000102006  
W2006010106000102006  
A2006010106000102006  
W2006010106000102006  
A2006010106000102006  
W2006010106000102006  
H2006010106001402006  
P200601010600140200601001000347906790572103302060100000  
A2006010106001402006  
W2006010106001402006  
A2006010106001402006  
W2006010106001402006  
A2006010106001402006  
W2006010106001402006  
P200601010600140200602002000000000000000000140299022  
P2006010106001402006030030000000000000000000130199022  
H2006010106003302006  
P200601010600330200601001000517444727416601902060100390  
A2006010106003302006  
W2006010106003302006  
A2006010106003302006  
W2006010106003302006  
W2006010106003302006  
A2006010106003302006  
W2006010106003302006
```

# ATUS versus CPS Variables

- In most cases, CPS variables indicated by `_CPS8`:
  - ATUS interview variables: `AGEYCHILD`, `RELATE`
  - Final CPS interview variables (2-5 months prior to ATUS interview): `AGEYCHILD_CPS8`, `RELATE_CPS8`
- Not all information updated during ATUS interview
  - In cases where information is not updated and is unlikely to have changed, we generally do not append `_CPS8` to the variable name
  - e.g. `RACE`, `MARST`, others
- Quick shortcut to determine whether an individual was in the household at the time of ATUS, CPS, or both:  
`PRESENCE`

# Integration: Relationship to ATUS respondent

Code	Label	AT03 0209	AT04 0220	AT05 0226	AT06 0227	AT07 0231
10	Self	18 = Self {16368}	18 = Self {11116}	18 = Self {10030}	18 = Self {9811}	18 = Self {9048}
10	"	19 = Self {4352}	19 = Self {2857}	19 = Self {3008}	19 = Self {3132}	19 = Self {3200}
20	Spouse	20 = Spouse {11170}	20 = Spouse {7764}	20 = Spouse {6793}	20 = Spouse {6522}	20 = Spouse {6165}
21	Unmarried Partner	21 = Unmarried partner {749}	21 = Unmarried partner {433}	21 = Unmarried partner {338}	21 = Unmarried partner {308}	21 = Unmarried partner {340}
22	Own household child	22 = Own household child {16532}	22 = Own household child {10987}	22 = Own household child {11179}	22 = Own household child {11124}	22 = Own household child {10227}
23	Grandchild	23 = Grandchild {681}	23 = Grandchild {544}	23 = Grandchild {524}	23 = Grandchild {497}	23 = Grandchild {498}
24	Parent	24 = Parent {3651}	24 = Parent {2454}	24 = Parent {2246}	24 = Parent {2368}	24 = Parent {2107}
25	Brother/Sister	25 = Brother sister {2498}	25 = Brother sister {1674}	25 = Brother sister {1657}	25 = Brother/sister {1781}	25 = Brother/sister {1506}
26	Other relative	26 = Other relative {1348}	26 = Other relative {696}	26 = Other relative {665}	26 = Other relative {717}	26 = Other relative {744}
27	Foster child	27 = Foster child {81}	27 = Foster child {32}	27 = Foster child {39}	27 = Foster child {34}	27 = Foster child {28}
28	Housemate roommate	28 = Housemate roommate {341}	28 = Housemate roommate {218}	28 = Housemate roommate {274}	28 = Housemate roommate {236}	28 = Housemate roommate {211}
29	Roomer/boarder	29 = Roomer boarder {80}	29 = Roomer boarder {79}	29 = Roomer boarder {46}	29 = Roomer boarder {45}	29 = Roomer boarder {49}
30	Other nonrelative	30 = Other nonrelative {688}	30 = Other nonrelative {364}	30 = Other nonrelative {402}	30 = Other nonrelative {337}	30 = Other nonrelative {324}
40	Own non-hh child lt 18	40 = Own non-hh child lt 18 {372}	40 = Own non-hh child lt 18 {182}	40 = Own non-hh child lt 18 {183}	40 = Own non-hh child lt 18 {220}	40 = Own non-hh child lt 18 {115}
996	Refused		-3 = Refused {1}	-3 = Refused {2}	-3 = Refused {4}	-3 = Refused {1}
997	Don't know			-2 = Don't know {4}	-2 = Don't know {11}	-2 = Don't know {3}
999	NIU (Not in universe)	BB = [no label] {50219}	BB = [no label] {35527}	BB = [no label] {33388}	BB = [no label] {35182}	BB = [no label] {36974}

# Integration: Composite codes – EDUCATION

An 'X' indicates the category is available for that sample.

Code	Label	03	04	05	06	07	08	09	10	11	12
	Less than HS diploma										
010	Less than 1st grade	X	X	X	X	X	X	X	X	X	X
011	1st, 2nd, 3rd, or 4th grade	X	X	X	X	X	X	X	X	X	X
012	5th or 6th grade	X	X	X	X	X	X	X	X	X	X
013	7th or 8th grade	X	X	X	X	X	X	X	X	X	X
014	9th grade	X	X	X	X	X	X	X	X	X	X
015	10th grade	X	X	X	X	X	X	X	X	X	X
016	11th grade	X	X	X	X	X	X	X	X	X	X
017	12th grade - no diploma	X	X	X	X	X	X	X	X	X	X
	HS diploma, no college										
020	High school graduate - GED	X	X	X	X	X	X	X	X	X	X
021	High school graduate - diploma	X	X	X	X	X	X	X	X	X	X
	Some college										
030	Some college but no degree	X	X	X	X	X	X	X	X	X	X
031	Associate degree - occupational vocational	X	X	X	X	X	X	X	X	X	X
032	Associate degree - academic program	X	X	X	X	X	X	X	X	X	X
	College degree +										
040	Bachelor's degree (BA, AB, BS, etc.)	X	X	X	X	X	X	X	X	X	X
041	Master's degree (MA, MS, MEng, MEd, MSW, etc.)	X	X	X	X	X	X	X	X	X	X
042	Professional school degree (MD, DDS, DVM, etc.)	X	X	X	X	X	X	X	X	X	X
043	Doctoral degree (PhD, EdD, etc.)	X	X	X	X	X	X	X	X	X	X
999	NIU (Not in universe)	.	.	.	.	.	.	.	.	.	.

# Integration: Composite codes – ACTIVITY

Code	Label	03	04	05	06	07	08	09	10	11	12
01000	Personal Care	.	.	.	.	.	.	.	.	.	.
010100	Sleeping	.	.	.	.	.	.	.	.	.	.
010101	Sleeping	X	X	X	X	X	X	X	X	X	X
010102	Sleeplessness	X	X	X	X	X	X	X	X	X	X
010199	Sleeping, n.e.c.	.	.	X	.	.	.	.	.	.	.
010200	Grooming	.	.	.	.	.	.	.	.	.	.
010201	Washing, dressing, and grooming oneself	X	X	X	X	X	X	X	X	X	X
010299	Grooming, n.e.c.	X	X	X	X	X	X	X	X	X	X
010300	Health-Related Self Care	.	.	.	.	.	.	.	.	.	.
010301	Health-related self care	X	X	X	X	X	X	X	X	X	X
010399	Self care, n.e.c.	X	X	X	X	X	X	X	X	X	X
010400	Personal Activities	.	.	.	.	.	.	.	.	.	.
010401	Personal or private activities	X	X	X	X	X	X	X	X	X	X
010499	Personal activities, n.e.c.	X	X	.	X	X	X	X	.	.	.
010500	Personal Care Emergencies	.	.	.	.	.	.	.	.	.	.
010501	Personal emergencies	X	.	X	.	X	X	X	.	X	.
010599	Personal care emergencies, n.e.c.	.	.	.	.	.	.	.	X	.	.
019900	Personal Care, n.e.c.	.	.	.	.	.	.	.	.	.	.
019999	Personal care, n.e.c.	X	X	.	.	X	X	.	X	.	.
020000	Household Activities	.	.	.	.	.	.	.	.	.	.
020100	Housework	.	.	.	.	.	.	.	.	.	.
020101	Interior cleaning	X	X	X	X	X	X	X	X	X	X
020102	Laundry	X	X	X	X	X	X	X	X	X	X
020103	Sewing, repairing, and maintaining textiles	X	X	X	X	X	X	X	X	X	X
020104	Storing interior household items, including food	X	X	X	X	X	X	X	X	X	X
Code	Label	03	04	05	06	07	08	09	10	11	12
020199	Housework, n.e.c.	X	X	X	X	X	X	X	X	X	.
020200	Food and Drink Preparation, Presentation, and Clean-up	.	.	.	.	.	.	.	.	.	.
020201	Food and drink preparation	X	X	X	X	X	X	X	X	X	X
020202	Food presentation	X	X	X	X	X	X	X	X	X	X
020203	Kitchen and food clean-up	X	X	X	X	X	X	X	X	X	X
020299	Food and drink preparation, presentation, and clean-up, n.e.c.	X	.	.	X	X	.	.	.	.	.
020300	Interior Maintenance, Repair, and Decoration	.	.	.	.	.	.	.	.	.	.
020301	Interior arrangement, decoration, and repairs	X	X	X	X	X	X	X	X	X	X
020302	Building and repairing furniture	X	X	X	X	X	X	X	X	X	X
020303	Heating and cooling	X	X	X	X	X	X	X	X	X	X
020399	Interior maintenance, repair, and decoration, n.e.c.	X	X	X	X	X	X	X	X	X	X
020400	Exterior Maintenance, Repair, and Decoration	.	.	.	.	.	.	.	.	.	.
020401	Exterior cleaning	X	X	X	X	X	X	X	X	X	X
020402	Exterior repair, improvements, and decoration	X	X	X	X	X	X	X	X	X	X
020499	Exterior maintenance, repair, and decoration, n.e.c.	X	X	X	X	X	X	X	X	X	X
020500	Lawn, Garden, and Houseplants	.	.	.	.	.	.	.	.	.	.
020501	Lawn, garden, and houseplant care	X	X	X	X	X	X	X	X	X	X
020502	Ponds, pools, and hot tubs	X	X	X	X	X	X	X	X	X	X
020599	Lawn and garden, n.e.c.	X	X	X	.	.	.	X	X	.	.
020600	Animals and Pets	.	.	.	.	.	.	.	.	.	.
020601	Care for animals and pets (not veterinary care) (2003-2007)	X	X	X	X	X	.	.	.	.	.
020602	Care for animals and pets (not veterinary care) (2008+)	.	.	.	.	.	X	X	X	X	X
020603	Walking, exercising, playing with animals (2008+)	.	.	.	.	.	X	X	X	X	X
020699	Pet and animal care, n.e.c.	X	X	X	.	X	X	X	X	X	X
020700	Vehicles	.	.	.	.	.	.	.	.	.	.

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