American Time Use Survey (ATUS) Data Dictionary: 2023 Survey Methodology Data Variables about ATUS June 2024

Important Information about the ATUS Survey Methodology Data Dictionary

Introduction

The American Time Use Survey (ATUS) is sponsored by the Bureau of Labor Statistics and conducted by the U.S. Census Bureau. The purpose of this document is to provide information about the variables related to the quality and outcome of the interviews. This data dictionary describes the 2023 Case History file and the 2023 Call History file.

This document lists all the variables available on these two files and their valid values. It also provides directions on how to read the data dictionary. The ATUS User's Guide contains information about the sample selection, survey administration, data collection, and coding process (available on the ATUS Web site at www.bls.gov/tus/atususersguide.pdf).

Two additional data dictionaries describe other 2023 ATUS data files.

- ATUS-CPS Data Dictionary: Describes the variables available on the ATUS-CPS file as well as some variables on the Activity Summary file. The ATUS-CPS file contains data from the Current Population Survey (CPS) for persons selected to be surveyed for the ATUS and for members of their households. (The information on the ATUS-CPS file was collected two to five months before the ATUS interview and in some cases was out of date at the time the ATUS was conducted.)
- ATUS Interview Data Dictionary: Describes the variables that were collected and assigned in the ATUS interview. The variables described are available on the Roster file, Activity file, Activity Summary file, Who file, Respondent file, and Eldercare Roster file.

These additional data dictionaries are available on the ATUS Web site at www.bls.gov/tus/dictionaries.htm.

Valid Values

Each variable has a number of valid values or a range of valid values. For example, the variable TUINTDQUAL has two valid values: 1 for "Yes, interview should be used" and 2 for "No, interview should not be used." The variable TUAVGDUR, on the other hand, has a range of valid values – any entry between 0 and 1440 is considered valid. Individual valid values or a range of valid values are listed under most variables in the data dictionary.

Many ATUS variables have the following possible valid values:

Value	Description
-1	Blank
-2	Don't know
-3	Refused

Because so many variables have these possible values, they are not shown as valid entries for each variable.

TUCASEID, the primary identifier for ATUS cases, does not have a list either of valid values or a range of valid values. Also, variables that include both alpha and numeric characters (TUHINTID, TUINTID, TUA_ID, TUC_ID, and TUV_ID) do not have a list of either valid values or a range of valid values.

2023 Case History File

This file contains case-specific variables collected in ATUS in 2023 (that is, variables for which there is one value for each person selected to participate in ATUS). These include interviewer identifiers and case level outcome codes. The file also contains two data quality variables, TUINTDQUAL and TUDQUAL2, which include information about the interviewer's perception of data quality. The file contains information about persons selected to participate in ATUS, including both those who did and did not complete the interview. (Because only one person per household is selected to participate in ATUS, in this file TUCASEID identifies an individual.)

There is one record for each ATUS case.

Below is a simplified example. The TUCASEID identifies each ATUS case, so the example contains information from five cases selected to be in the ATUS sample. Each example case has associated variables listing the final outcome code (TRFNLOUT), the total number of reported activities (TUTOTACTNO), the average duration of reported activities (TUAVGDUR), and an interviewer identification number (TUINTID). Note that two of the cases do not report information for TUTOTACTNO and TUAVGDUR; this is because they were noncontacts, as is indicated by the value of TRFNLOUT. The actual ATUS Case History file contains additional variables and many more lines.

TUCASEID	TRFNLOUT	TUTOTACTNO	TUAVGDUR	TUINTID
20230112101733	001.001	30	48	ZV97
20230212100884	188.001	-1	-1	CA40
20230504110537	001.001	30	48	CA40
20230908110961	001.001	34	42.4	ZV97
20231210110111	188.001	-1	-1	ZV97

2023 Call History File

This file contains call-specific variables collected in ATUS in 2023 (that is, variables for which there is one value per interview attempt). These include interviewer identifiers, call level outcome codes, and the date of each call attempt. The file contains information about persons selected to participate in ATUS, including both those who completed the interview and those who did not. (Because only one person per household is selected to participate in ATUS, in this file TUCASEID identifies an individual.)

There is one record for each ATUS call attempt.

Below is a simplified example. The TUCASEID identifies each ATUS case and TUATTMPTNO identifies each call attempt. The example contains information from two cases selected for the ATUS sample. The first case (20230201111692) was called three times, and the third call attempt resulted in a complete interview. The second case (20230502110133) was called twice before resulting in a complete interview. The variable TRFNLCLL gives the outcome of each call. An anonymous interviewer identification number (TUHINTID) is associated with each call attempt. In general, the TUHINTID for the final call attempt will match the interviewer identification number for the case (TUINTID) on the Case History file, but not always. In some situations, an ATUS supervisor performs some action on the case after the final interview, causing the TUINTID to be the anonymous identification number of the supervisor rather than the final interviewer.

TUCASEID	TUATTMPTNO	TUATTMDATE	TRFNLCLL	TUHINTID
20230201111692	1	20230208	195.001	WW90
20230201111692	2	20230208	188.001	ZJ93
20230201111692	3	20230208	001.001	CA40
20230502110133	1	20230513	199.001	KP84
20230502110133	2	20230527	001.001	ZV97

ATUS Naming Conventions and Definitions

ATUS variables are named according to specified rules. All variables on the two survey methodology files begin with "TU" or "TR," which indicates that the variables were assigned or computed through the ATUS interview process. The characters that follow "TU" or "TR" consist of a descriptive name.

Not all ATUS variables are on the data files. Some variables are omitted to protect the confidentiality of ATUS respondents as required by law.

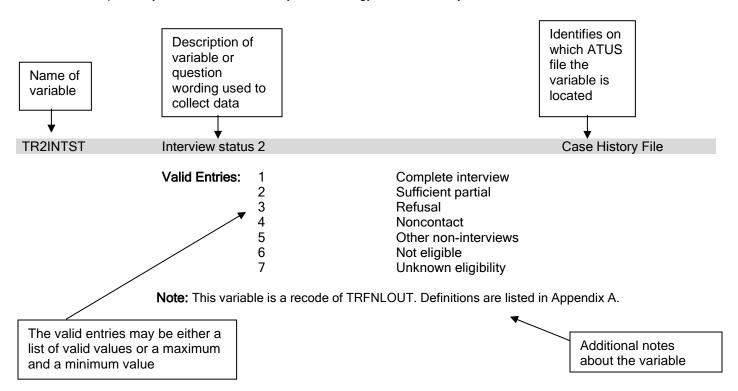
ATUS Interviewers and Coders

Four of the variables available on the Case History file and one of the variables on the Call History file are unique anonymous identification numbers: TUHINTID, TUINTID, TUA_ID, TUC_ID, and TUV_ID. Every person who interviews or codes ATUS data is assigned a unique anonymous identification number, and each person can both interview and code. A case is never interviewed and coded by the same person. All cases are coded twice to ensure accuracy and consistency, and those cases that have been coded differently are resolved by an adjudicator. A person's unique identification number is always the same, whether that person is coding, interviewing, or adjudicating.

Organization of the Survey Methodology Data Dictionary

Variables are listed in the data dictionary in alphabetical order.

Below is a sample entry from the ATUS survey methodology data dictionary:



Linking ATUS Files

Each of the ATUS files contains useful information, but in order to produce most estimates, the files must be linked. All of the files contain the variable TUCASEID, which is the ATUS identification number. Two other variables that can be used for linking in conjunction with TUCASEID are TULINENO (person line number) and TUACTIVITY_N (activity line number). For more information on linking ATUS data files, please see www.bls.gov/tus/other-documentation/howto.htm#linking.

The ATUS files can also be linked to CPS files by using variables on the ATUS-CPS file. More information about linking to the CPS files is available in Appendix K of the ATUS User's Guide (www.bls.gov/tus/atususersguide.pdf).

Name	Description			File	
TR1INTST	Interview sta	tus 1	Case History File		
	Edited Universe:	All cases			
	Valid Entries:	1	Complete interview or sufficien	t partial	
		2	Eligible non-interview (refusal,	noncontact, other non-interview)	
		3	Not eligible		
		4	Unknown eligibility		
	*Note	This varia	able is a recode of TRFNLOUT. Definit	tions are listed in Appendix A.	
Name	Description	n		File	
TR2INTST	Interview sta	tus 2		Case History File	
	Edited Universe:	All cases			
	Valid Entries:	1	Complete interview		
		2	2 Sufficient partial		
		3	Refusal		
		4	Noncontact		
		5	Other non-interview		
		6	Not eligible		
		7	Unknown eligibility		
	*Note	This varia	able is a recode of TRFNLOUT. Defini	tions are listed in Appendix A.	

Name	Description		File
TRFNLCLL	Final call out	come	Call History File
	Edited Universe:	All call atter	mpts
	Valid Entries:	001.001	Complete interview
		002.001	Sufficient partial
		020.007	Not eligible: vacant
		020.011	Not eligible: person underage
		020.005	Not eligible: not used as a regular residence
		020.002	Not eligible: other type of living quarters
		020.015	Not eligible: person not a household member
		020.022	Not eligible: person in Armed Forces
		021.001	Other: person institutionalized through closeout
		021.002	Other: person absent, ill, or hospitalized through closeout
		021.003	Not eligible: person moved out
		022.002	Unknown eligibility: sample unit not found/unreached
		024.001	Other: language barrier
		025.001	Other: unconverted hearing barrier
		172.001	Not eligible: removed from sample
		172.002	Other: invalid input
		176.001	Refusal: Congressional case
		179.001	Refusal: hostile breakoff
		181.001	Refusal: refusal by person or gatekeeper
		182.001	Refusal: manual override by supervisor
		183.001	Unknown eligibility: exceeded unproductive call maximum
		185.001	Sufficient partial with planned callback
		186.001	Refusal: pre-refusal based on explicit refusal or hostile breakoff
		188.001	Noncontact: incomplete callbacks
		188.003	Not eligible: temporarily unavailable (institutionalized)
		188.002	Noncontact: temporarily unavailable (absent, ill, or hospitalized)
		191.001	Other: unresolved language barrier
		192.001	Other: hearing barrier
		193.001	Unknown eligibility: privacy detectors
		194.001	Noncontact: never contacted, confirmed number
		195.001	Unknown eligibility: never contacted, unconfirmed number
		199.001	Unknown eligibility: never tried, no telephone number household
	*Note		inal call outcome codes introduced in 2005 and do not correspond to final es (TUOUTCOMECODE) from 2004

Name	Description		File
TRFNLOUT	Final outcome	e code	Case History File
	Edited Universe:	All cases	
	Valid Entries:	001.001	Complete interview
		002.001	Sufficient partial
		020.005	Not eligible: not used as a regular residence
		020.007	Not eligible: vacant
		020.011	Not eligible: person underage
		020.015	Not eligible: person not a household member
		020.022	Not eligible: person in Armed Forces
		021.001	Other: person institutionalized through closeout
		021.003	Not eligible: person moved out
		021.002	Other: person absent, ill, or hospitalized through closeout
		022.002	Unknown eligibility: sample unit not found/unreached
		024.001	Other: language barrier
		025.001	Other: unconverted hearing barrier
		172.001	Not eligible: removed from sample
		172.002	Other: invalid input
		176.001	Refusal: Congressional case
		179.001	Refusal: hostile breakoff
		181.001	Refusal: refusal by person or gatekeeper
		183.001	Unknown eligibility: exceeded unproductive call maximum
		188.001	Noncontact: incomplete callbacks
		188.002	Noncontact: temporarily unavailable (absent, ill, or hospitalized)
		188.003	Not eligible: temporarily unavailable (institutionalized)
		191.001	Other: unresolved language barrier
		193.001	Unknown eligibility: privacy detectors
		194.001	Noncontact: never contacted, confirmed number
		195.001	Unknown eligibility: never contacted, unconfirmed number
		199.001	Unknown eligibility: never tried, no telephone number household
		230.001	Refusal: diary contains less than 5 activities
		231.001	Refusal: don't know/refuse 180 diary minutes or more
		232.001	Refusal: diary contains less than 5 activities and don't know/refuse 180 diary minutes or more
		233.001	Refusal: other data quality issues
	*Note		inal outcome codes introduced in 2005 and do not correspond to final TUFINALCODE) from 2003 and 2004

Name	Description			File
TRINCEN2	Incentive expan	nsion case		Case History File
	Edited Universe:	All cases		
	Valid Entries:	0	Case was not part of incentive expansion	on
		1	Case was part of incentive expansion	
	*Note		e April 2023 sample, incentive expansio January 2020 through March 2023, inc ntive.	
Name	Description			File
TUA_ID	Unique anonym	nous adjudicator	ID	Case History File
	*Note		its AA-ZZ, 3rd and 4th digits 00-99. All cition number of the adjudicator who revie	
Name	Description			File
TUATTMDATE	Date of call atte	empt		Call History File
	Valid Entries:	20221106 20231231	Min Value Max Value	
	*Note	Call attempt da	te is in YYYYMMDD format	
Name	Description			File
TUATTMPTNO	Call attempt nu	mber		Call History File
	Valid Entries:	1 999	Min Value Max Value	
Name	Description			File
TUATTMWEEK	Which week (or	ut of 8 weeks in	sample) call was made	Call History File
	Valid Entries:	0	Attempt made outside of 8-week period	d
		1	1st week	
		2	2nd week	
		3	3rd week	
		4	4th week	
		5	5th week	
		6	6th week	
		7	7th week	
		8	8th week	
	*Note	Values of 0 usu contact.	ally reflect administrative changes that	did not involve actual telephone
Name	Description			File
TUAVGDUR	Average duration	on of all reported	d diary activities (in minutes)	Case History File
	Valid Entries:	0 1440	Min Value Max Value	

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Name	Description			File
TUC_ID	Unique anonym	ious coder ID	Case History File	
	*Note		its AA-ZZ, 3rd and 4th digits 00-99. All digits number of the first coder.	cases are coded twice. TUC_ID
Name	Description			File
TUCASEID	ATUS Case ID (14-digit identifie	er)	All Files
Name	Description			File
TUCPSDP	Is the ATUS des	signated person	the same as the CPS respondent?	Case History File
	Valid Entries:	1	Yes, same person	
		2	No, different person	
	*Note	TUCPSDP iden	ndent does not have to be the same for tifies whether the ATUS designated per the final (month 8) CPS interview.	
Name	Description			File
TUDQUAL2	Collected from should not be u		interview: why do you think the data	Case History File
	Valid Entries:	1	Respondent intentionally providing wro	ng answer
		2	Respondent trying to provide correct a remember his/her activities	nswer, but could not correctly
		3	Respondent deliberately reported very	long duration activities
		4	Other	
	*Note	The interviewer	is asked this question if TUINTQUAL =	1
Name	Description			File
TUHINTID	Unique anonym	ous ATUS interv	riewer ID for each call attempt	Call History File
	*Note	1st and 2nd dig	its AA-ZZ, 3rd and 4th digits 00-99	
Name	Description			File
TUINCENT	Incentive/non-i	ncentive case		Case History File
	Valid Entries:	0	Non-incentive case	
		1	Regular incentive case	
		2	Hard to reach cases (see note below)	
	*Note	number) and ha	ases (those without a phone eceived a \$10 cash incentive.	
Name	Description			File
TUINTDQUAL	Collected from interview should		interview: is there any reason this	Case History File
	Valid Entries:	1	Yes	
		2	No	

Name	Description			File
TUINTID	Unique anonyn	nous ATUS interv	viewer ID	Case History File
	*Note	1st and 2nd dig	gits AA-ZZ, 3rd and 4th digits 00-99	
Name	Description		File	
TUINTRODATE	Day of month i	n which the case	e was introduced (panel day)	Case History File
	Valid Entries:	0 31	Min Value Max Value	
Name	Description			File
TUINTROPANMONTH	Month in which	the case was ir	ntroduced (panel month)	Case History File
	Valid Entries:	1 12	Min Value Max Value	
Name	Description			File
TUINTROPANYEAR	Year in which t	he case was intr	roduced (panel year)	Case History File
	Valid Entries:	2022 2023	Min Value Max Value	
Name	Description			File
TULNGSKL	Non-English lar	nguage		Case History File
	Valid Entries:	0	No non-English language assigned	
		1	Spanish language assigned	
		2	Other non-English language assigned	
	*Note	assigned in a pinterview. Addition	s used to assist in assigning interviewers previous Current Population Survey inter- tionally, it could have been assigned aften thated respondent.	view rather than an ATUS
Name	Description			File
TUTOTACTNO	Total number of	of activities repo	rted in diary	Case History File
	Valid Entries:	1 91	Min Value Max Value	
	*Note		TUTOTACTNO were introduced in 2009 ivities numbered 1, 2, 3, and 4, TUTOTA	•
Name	Description			File
TUV_ID	Unique anonyn	nous verifier ID		Case History File
	*Note		gits AA-ZZ, 3rd and 4th digits 00-99. All outline of the second coder.	cases are coded twice. TUV_ID

Appendix A

TR1INTST

TR1INTST	TR1INTST Definition	TRFNLOUT CODE Values	
1	Complete and sufficient partial	001.001	002.001
2	Eligible non-interview	021.001	021.002
		024.001	025.001
		172.002	176.001
		179.001	181.001
		188.001	188.002
		191.001	194.001
		230.001	231.001
		232.001	233.001
3	Not eligible	020.005	020.007
		020.011	020.015
		020.022	021.003
		172.001	188.003
4	Unknown eligibility	022.002	183.001
	-	193.001	195.001
		199.001	

TR2INTST

TR2INTST	TR2INTST Definition	TRFNLOUT COD	E Values	
1	Complete	001.001		
2	Sufficient partial	002.001		
3	Refusal	176.001	179.001	
		181.001	230.001	
		231.001	232.001	
		233.001		
4	Noncontact	188.001	188.002	
		194.001		
5	Other	021.001	021.002	
		024.001	025.001	
		172.002	191.001	
6	Not eligible	020.005	020.007	
	_	020.011	020.015	
		020.022	021.003	
		172.001	188.003	
7	Unknown eligibility	022.002	183.001	
		193.001	195.001	
		199.001		