

LFS add-on module: Measuring own-use provision of services

Meeting of the United Nations Expert Group
on Innovative and Effective Ways to Collect
Time-Use Statistics (EG-TUS)

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► Measuring own-use provision of services in LFS

Resolution I of the 19th ICLS signified a major change in the measurement of productive activities in official statistics.

Among other important changes, **own-use provision of service work**, also termed **“unpaid domestic and care work”**, was brought within the reference scope of activities for labour force statistics, for the first time.

The 19th ICLS standards set out **a comprehensive conceptual framework and attendant reference definitions** to underpin the production of statistics on OPS in national labour force surveys.

Operationalisation of the standards for the measurement of OPS has, however, lagged – in large part due to the cost and complexity of the default measurement approach – **the independent time use survey**.

► Data sources

“Labour force surveys are a useful source when the objective is to capture general patterns of participation of the population in different forms of work...short add-on modules or supplements may be attached”*

Labour force surveys (LFS)

The main source of statistics on:

- Labour market indicators
- Job quality and working conditions for persons in employment & unpaid trainee work
- Labour under-utilisation, unemployment and time-related under-employment

Time-use surveys (TUS)

The main source of statistics on:

- Participation in own-use production work
 - Production of goods
 - Provision of services
- Time spent in own-use production work
 - Production of goods
 - Provision of services
- Total working time

Scope to combine strengths – via add-on time-use module attached to LFS

*Source: Resolution 1, 19th ICLS (2013) paragraph 67

Data sources

ICLS/20/2018/3

INTERNATIONAL LABOUR ORGANIZATION

Department of Statistics

Report III

Report of the Conference

20th International Conference of Labour Statisticians
(Geneva, 10–19 October 2018)

“Delegates...highlighted the **critical need for guidance and methodological development related to time-use methods**. Related to this, there is an ever-increasing demand on countries to **generate statistics on unpaid work activities**. Multiple delegates recounted their experiences in time-use measurement and the many challenges they faced, both with full time-use surveys and the inclusion of modules on time-use in questionnaires. **The development of standardized methodologies and guidance would be of great benefit and should cover methods of data collection, but also analysis and use of the data generated which have also proven to be complicated.**”

Source: ILO (2018) [ICLS/20/2018/3](#) Report III, para. 126.

▶ Measuring own-use provision of services in LFS

▪ Own-use production of goods

- (i) producing and/or processing for storage agricultural, fishing, hunting and gathering products;
- (ii) collecting and/or processing for storage mining and forestry products, including firewood and other fuels;
- (iii) fetching water from natural and other sources;
- (iv) manufacturing household goods (such as furniture, textiles, clothing, footwear, pottery or other durables, including boats and canoes);
- (v) building, or effecting major repairs to, one's own dwelling, farm buildings, etc.

Reference period: Four weeks or one calendar month (performed activity for at least one hour)

▪ For own final use

...production where the intended destination of the output is **mainly** for final use...or final consumption by household members, **or by family members living in other households**

▪ Own-use provision of services

- (i) household accounting and management, purchasing and/or transporting goods;
- (ii) preparing and/or serving meals;
- (iii) cleaning, decorating and maintaining one's own dwelling or premises, durables and other goods, household waste disposal and recycling, gardening, transporting and caring for domestic animals or pets;
- (iv) childcare and instruction, transporting and caring for elderly, dependent or other household members, etc.

Reference period: One or more 24-hour days within a seven day or one week period.

Measuring own-use provision of services in LFS: Statistical indicators

Resolution 1

Resolution concerning statistics of work, employment and labour underutilization

Preamble

The 19th International Conference of Labour Statisticians, Having reviewed the relevant texts of the resolution concerning statistics of the economically active population, employment, unemployment and underemployment adopted by the 13th International Conference of Labour Statisticians (1982) and the amendment of its paragraph 5 adopted by the 18th Conference (2008), the resolution concerning the measurement of underemployment and inadequate employment situations adopted by the 16th Conference (1995), as well as the guidelines endorsed therein concerning treatment in employer and unemployment statistics of persons on extended absences from work, and the guidelines on the implications of employment promotion schemes on the measurement of employment and unemployment, endorsed by the 14th Conference (1987),

Recalling the requirements of the Labour Statistics Convention, 1985 (No. 160), and the accompanying Labour Statistics Recommendation, 1985 (No. 170), and the need for coherence with other international statistical standards, particularly regarding the system of national accounts, working time, employment-related income, child labour, status in employment and work in the informal economy,

Recognizing the need to revise and broaden the existing standards in order to enable better statistical measurement of participation of all persons in all forms of work and in all sectors of the economy, of labour underutilization, and of interactions between different forms of work, as well as to provide guidelines on a wider set of measures than previously defined internationally, thereby enhancing the relevance and usefulness of the standards for countries and territories¹ at all stages of development,

Calling attention to the usefulness of these standards to enhance the international comparability of the statistics, to their contribution to the measurement of decent work and of well-being of households and society in general, thereby supporting and facilitating the post-2015 development agenda, as well as to the achievement of gender justice,

Acknowledging that the relevance of measures of work in a given country will depend on the nature of its society, labour markets and all user needs, and that their implementation will therefore, to a certain extent, be determined by national circumstances,

Adopts this 11th day of October 2013 the following resolution in substitution for the resolutions of 1982 and of 2008, and for paragraphs 9(1) and 9(1) of the resolution of 1995, as well as for the guidelines from 1987 and 1995 cited above.

Objectives and scope

1. This resolution aims to set standards for work statistics to guide countries in updating and integrating their existing statistical programmes in this field. It defines the statistical concept of work for reference purposes and provides operational concepts, definitions and guidelines for:

- (a) distinct subsets of work activities, referred to as *forms of work*;
- (b) related classifications of the population according to their *labour force status and main form of work*;
- (c) measures of labour underutilization.

¹ Hereinafter referred to as "countries".

71. A set of indicators that serves the principal objectives of the statistics should be selected by countries for dissemination according to the relevant reporting periodicities, as recommended in paragraph 56. Indicators should be computed for the population as a whole and disaggregated by sex, specified age groups (including separate categories for youth), level of educational attainment, geographic region, urban and rural areas, and other relevant characteristics taking account of the statistical precision of the estimates.

74. Indicators for the population of working age in own-use production work, in unpaid trainee work and in volunteer work include:

- (a) headcounts, participation rates and volume measures by activity cluster of own-use producers of goods;
- (b) headcounts, participation rates and volume measures by activity cluster of own-use providers of services;
- (c) headcounts, participation rates and volume measures by programme type of unpaid trainees;
- (d) headcounts, participation rates and volume measures by type of economic unit (market units/non-market units/households) of volunteer workers.

Source: Resolution 1, 19th ICLS (2013, page 15, paragraphs 71, 74)

Alignment with international statistical standards

Activities													
Productive Activities													
Forms of Work Framework (19th ICLS Resolution I)													
For own final use				For use by others									
Non-productive activities (third person criterion)				Own-use production work		Employment			Unpaid trainee work	Other (includes compulsory work performed without pay)	Volunteer work		
				of services	of goods						In market and non- market units	In households, producing:	
									goods services				
For own final use				Work for pay or profit			Unpaid work						
Activities within the SNA (2008) production boundary													
Activities within the SNA (2008) general production boundary													
Corresponding ICATUS-16 codes													
6. Learning	7. Socializing & communication participation and religious practice	8. Culture, leisure, mass- media and sports practices	9. Self-care and maintenance	4. Unpaid caregiving services for household and family members	3. Unpaid domestic services for household and family members	2. Production of goods for own final use	1. Employment and related activities			5. Unpaid volunteer, trainee and other unpaid work			
							11. Employment: corporations, government and non- profit institutions	12. Employment in household enterprises to produce goods	13. Employment in households & household enterprises to provide services	53. Unpaid trainee work and related activities	59. Other unpaid work activities	51. Unpaid direct volunteering for other households	

Instrument design, development, and testing

Pilot phase	Main objectives	Location	Timing
1. Rapid Ethnographic Assessment (REA)	<ul style="list-style-type: none"> Identify potential for reporting gaps. Assess salience of "passive" care responsibilities and clock-time 	India (Haryana state) Three field sites: (urban / rural / "remote")	December 2021
2. Cognitive Interviewing (CI) n = 50	<ul style="list-style-type: none"> Assess respondent comprehension, recall, retention, interpretation, and salience 	Indonesia Three field sites: (urban / rural / "remote")	August 2022
3. Small-scale trial n = 910	<ul style="list-style-type: none"> Assess performance of pre-coded activity list & contextual items Trail CAPI tool 	Indonesia Three field sites: (urban / rural / "remote")	October – November 2022
4. Survey Experiment 1 n = 1,920	<ul style="list-style-type: none"> Evaluate performance of alternative pending recovery strategies Evaluate performance of global simultaneity field 	India (Haryana state) Three field sites: (urban / rural / "remote")	November - December 2022
5. Survey Experiment 2 n = 1,120	<ul style="list-style-type: none"> Assess concordance of light diary and stylised estimates 	Lesotho Three field sites: (urban / rural / "remote")	November - December 2022
6. Validation Exercise (CI) n = 28	<ul style="list-style-type: none"> Validate updates to item and script wording 	Lesotho Two field sites: (urban / rural)	August – September 2023
7. Expert Review	<ul style="list-style-type: none"> Subject tools to expert scrutiny 	Global	August – September 2023

► Features of the new LFS add-on time-use modules, module content

Feature	Summary details	
Format	Hybrid light diary	
Target population	Identical with population for labour force survey (working age population, 15 years old and above), no limitations imposed on labour force status or other characteristics	
Mode	Face-to-face interviews administered	
Administrative	Activity timing	Fixed episodes (96 x 15-minute episodes)
Reference	Activity coding	Respondent narrates diary day verbatim. Interviewer selects from 41 pre-coded activities + "other, specify". Codes aligned to the UN International Classification of Activities for Time Use Statistics 2016 (ICATUS-16) coding scheme.
Pending / (recommended)	Contextual items	Four <i>conditionally activated</i> contextual items (location, co-presence, beneficiary, market orientation) to support assignment to forms of work / ICATUS-16 major divisions
Response	Treatment of supervisory / passive care	Dedicated recovery series activated on completion of the diary day. Separate items target supervision / passive care of children and adults
	Treatment of simultaneity / multi-tasking	Optional fields to record multiple activities as occurring simultaneously (i.e., during one or more of the same 15-minute episodes).

Features of the new LFS add-on time-use modules (hybrid light diary)

ACTIVITY DOMAIN (ICATUS-16)

- 1 Employment and related activities
- 2 Production of goods for own final use
- 3 Unpaid domestic services for household and family members
- 4 Unpaid caregiving services for household and family members
- 5 Volunteering (Direct and Organisation based)
- 5 Trainee and other unpaid work
- 6 Learning
- 7 Socializing and communication, community participation and religious practice
- 8 Culture, leisure, mass-media, sports practices
- 9 Self-care and maintenance

CONTEXT-BASED CLASSIFICATION

- a Remunerative motive (income generating for individual or household)
- b No remunerative motive + For whom = self / hh member(s) / family member(s)
- c No remunerative motive + For whom = other

RECOVERY-BASED CLASSIFICATION

- d Probed-for childcare
- e Probed-for adultcare

ICATUS DIRECTORY	ACTIVITY CODE	ICATUS: HIERARCHICAL CLASSIFICATION								
		ONE	TWO	THREE	FOUR	FIVE FIVE	SIX	SEVEN	EIGHT	NINE
	1 Sleeping or napping									91
	2 Personal hygiene and health									93, 94
	3 Eating or drinking									92
5	4 Cooking / baking / preparing / serving food or drinks / cleaning dishes	11, 13		31		522				
5	5 Manufacturing / processing foods, beverages, herbs, medicines, tobacco	127	221			519, 529				
	6 Cleaning and tidying indoors	11, 13		321, 324, 325, 329		519, 529				
	7 Outdoor cleaning and upkeep	11, 13		322, 323, 324, 329		519, 529				
	8 Pet care (includes feeding, exercising, cleaning, grooming)	11, 13		36		519, 529				
5	9 Decorating or minor repairs and maintenance of buildings, durable goods, vehicles, machinery	11, 13		33		519, 529				
	10 Laundry / repair or maintenance of clothes, textiles, shoes	11, 13		34		519, 529				
	11 Shopping for/purchasing goods	11, 13		37		512				
	12 Paying bills, budgeting, administration, planning, organizing	11, 13		35	417, 426	524				
	13 Providing physical care or comforting children (feeding, cleaning, bathing, giving medical care, soothing...)	11, 13			411, 412	513				
	14 Teaching, helping, talking with, or reading to children	11, 13			413, 414	513				
	15 Playing games and sports with children	11, 13			415	513				
5	16 Attending children's sports or games match, play, dance or talent show, or similar (includes training, practice, rehearsals)	11, 13			416	513				
	17 [Minding or watching over] children	11, 13			416	513				
	18 Providing physical care, practical assistance, or emotional support to adults with a disability, illness, or frailty	11, 13			421-424, 426, 429, 431-439	514				
	19 [Minding or watching over] adults with a disability, illness, or frailty	11, 13			425	514				
	20 Waged or salaried employment / self-employment / paid traineeship	11, 12, 13								
5	21 Helping without pay in a family or household business	12, 13				515				
	22 Looking for paid work or setting up a new business	16, 17								
5	23 Unpaid traineeship or internship					53				
5	24 Volunteering / community or social organising / environmental / nature conservation / protection of wild or street animals					51, 52				
6	25 Studying, learning	15					61, 62, 63, 69			
	26 Growing crops, including kitchen garden, [clearing, planting, fertilising, irrigating, weeding, picking / harvesting]	121	211			529				
	27 Tending to livestock / Milking, collecting eggs, wool, dung, other livestock products	122	212			529				
	28 Gathering / processing firewood, straw	129	241			529				
	29 Fetching water from natural source	129	242			529				
5	30 Fishing / Aquaculture / Gathering wild products / [Hunting or trapping animals]	123-125, 129	213-217			529				
	31 Forestry / Logging / Mining / Quarrying	126, 128	218, 230			529				
	32 Construction, major renovations, or major repairs	127	222-229			529				
	33 Weaving, knitting, sewing, embroidering, tanning, bead-, textile- / leather- / metal- / wood- / stone- / brick- work	127	222-229			529				
7	34 Socializing, visiting with, talking to friends / family / neighbours							74		
	35 Religious practice (individual or collective)							72, 73		
	36 Participating in community festivals, celebrations								81	
	37 Attending cultural / entertainment / sports events								83	
	38 Playing sports or doing exercise								84	
8	39 Watching tv shows, movies, online visual media / Reading for leisure / Listening to music, radio, podcasts, online audio media								82, 85	
	40 Hobbies, games, pass-times, relaxing								82, 85	
9	41 Travelling or commuting / Transporting or accompanying people or goods	18	25	38	44	54	64	75	86	95

Features of the new LFS add-on time-use modules (hybrid light diary)

1	Sleeping or napping		
2	Personal hygiene and health		
3	Eating or drinking		
4	Cooking / baking / preparing		
5	Manufacturing / processing	20	Waged or salaried employment / self-employment / paid traineeship
6	Cleaning and tidying indoor	21	Helping without pay in a family or household business
7	Outdoor cleaning and upke	22	Looking for paid work or setting up a new business
8	Pet care (includes feeding,	23	Unpaid traineeship or internship
9	Decorating or minor repairs	24	Voluntee
10	Laundry / repair or mainten	25	Studying
11	Shopping for/purchasing go	26	Growing
12	Paying bills, budgeting, adr	27	Tending
13	Providing physical care or c	28	Gatherin
14	Teaching, helping, talking w	29	Fetchin
15	Playing games and sports w	30	Fishing /
16	Attending children's sports	31	Forestry
17	[Minding or watching over]	32	Construc
18	Providing physical care, practical assistanc	33	Weaving
19	[Minding or watching over] adults with a dis	34	Socializing, visiting with, talking to friends / family / neighbours
		35	Religious practice (individual or collective)
		36	Participating in community festivals, celebrations
		37	Attending cultural / entertainment / sports events
		38	Playing sports or doing exercise
		39	Watching tv shows, movies, online media / Reading for leisure / Listening to music, radio, podcasts, online audio
		40	Hobbies, games, pass-times (includes resting / relaxing, "doing nothing")
		41	Travelling or commuting / Transporting or accompanying people or goods
		42	Other: Specify
		43	NOTHING ELSE
		97	DON'T KNOW

► Features of the new LFS add-on time-use modules, sampling and fielding

■ Bar on proxy response for the time use module

- The (probabilistically sampled) individual(s) must respond directly for the time use module
- May increase the number of re-visits required to obtain response

■ Inclusion of “time dimension” in the sample design for the time use module

- Time use sample designs probabilistically assign response units to a designated “diary” day to:
 - Achieve a representative sample of days of the week
 - Avoid selection bias (“convenient-day” may systematically differ from other days)
 - Permit probabilities of selection to be calculated

➤ Strict adherence pits high response rates against inflated survey costs and complexity


- Strategies for the recovery of pending interviews can resolve this tension (together with weights)

■ Probabilistic sampling of respondent(s) within households

- Minimum of one respondent per [selected] household probabilistically selected to respond to the time use module
- May increase the number of re-visits required to obtain response
- Balance between analytical goals, survey costs, and statistical efficiency of the survey design

Features of the new LFS add-on time-use modules, schematic overview

slot	Closed episodes	LDB_1: Activity One		IF LDB_1 NE 1 (SLEEPING)	IF LDB_1B NE 2 – 42 “NOTHING ELSE”	IF LDB_1 NE 40 “TRAVEL”	IF LDB_1 = 40 “TRAVEL”	IF LDB_1 NE 1 (SLEEPING)	CONDITIONAL ON LDB_1 / LDB_1B	CONDITIONAL ON LDB_1 / LDB_1B+ LDB_4 / LDB_6	
		LDB_1B: Activity Two [OPTIONAL FOR COUNTRIES]		LDB_2: Location		LDB_2A: Travel reason	LDB_3: Co-Presence	LDB_4: For Whom	LDB_5: Market orientation	LDB_6: For Whom	LDB_7: Market orientation
		Thinking back to yesterday, what were you doing at 4am?	...Until when?	Were you doing anything else at the same time as [LDB_1]?	PROBED RESPONSE: -ACTIVATES ONCE- “For instance, were you talking with a family member, friend, or neighbour, or [looking after, minding, or keeping an eye on] a child, or listening to the radio or watching television...”	...Until when?	Where were you when you were [LDB_1]?	What was the <u>main</u> reason for this travel?	IF LDB_1 NE 40 “TRAVEL”: Who was there with you when you were [LDB_1]?	Who did you <u>mainly</u> do [LDB_1] for?	Are the products from [LDB_1] intended...?
		Subsequent loops: What did you do next?				[FLAG ACTIVATES if location changes from one iteration of LDB_1 to another, in the absence of “Travel” episode]		That is, close enough that you could see them, or hear them if they called for you?	Who did you <u>mainly</u> do [LDB_1B] for?	Who did you <u>mainly</u> do [LDB_1B] for?	
		CODE LIST DROP DOWN MENU: 40 pre-coded activities	DROP DOWN ROSTER: [15 minute closed episodes]	CODE LIST DROP DOWN MENU: 40 pre-coded activities	CODE LIST DROP DOWN MENU: 40 pre-coded activities	DROP DOWN ROSTER: [15 minute closed episodes]	CODE LIST DROP DOWN MENU	CODE LIST DROP DOWN MENU	CODE LIST DROP DOWN MENU	CODE LIST DROP DOWN MENU	
1	04:00 - 04:15										
...	...										
96	03:45 - 04:00										

 Items recording simultaneity, optional for countries

Features of the new LFS add-on time-use modules, schematic overview

Hour	IF RSB_1 = 01 (YES)			IF RSB_4 = 01 (YES)		
	Supervisory care, children			Supervisory care, adults		
	RSB_1	RSB_2	RSB_3	RSB_4	RSB_5	RSB_6
	Were there any times yesterday when you were [supervising / minding / watching over] a child aged under 18, staying close by – <i>that is close enough to see or hear them</i> – and ready to respond in case of need?	When was that?	What was their relationship to you?	Were there any times yesterday when you were [supervising / minding / watching over] an adult aged 18 or over who needs help with daily life, staying close by – <i>that is close enough to see or hear them</i> – and ready to respond in case of need?	When was that?	What was their relationship to you?
CLOSED EPISODES: 96 x 15 minute slots	CODES: 01: YES 02: NO 97: DON'T KNOW	DROP DOWN ROSTER: [15 Minute closed episodes <i>within</i> <u>LDB 1 Activity Blocks</u>]	CODE LIST DROP DOWN MENU (Multiple responses permitted)	CODES: 01: YES 02: NO 97: DON'T KNOW	DROP DOWN ROSTER: [15 Minute closed episodes <i>within</i> <u>LDB 1 Activity Blocks</u>]	CODE LIST DROP DOWN MENU (Multiple responses permitted)
04:00 - 04:15						
... - ...						
03:45 - 04:00						

▶ Thank you