

Time Use Measurement in Mexico

Methodology, challenges and proposals

June 2018



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DE ESTADÍSTICA Y GEOGRAFÍA

1. Mexico's experience using stylized questions.
 1. Advantages
 2. Disadvantages
2. Main challenges faced in the ENUT (TUS) 2014
3. Experience on data collection in different surveys with stylized questions.
4. Standardized questions proposal and standardized data collection criteria.
5. Next steps: ENUT 2019



EXPERIENCE OF STYLIZED QUESTIONS

INEGI has carried out **five time use surveys**, **two** as a **modules**:

- 1996** They are asked questions about activities carried out on the previous week, but not the place or with whom.
- 1998** Diary's methodology; hard to answer for less educated population, high non-response rate and data bias due to atypical days.

Three surveys, in which a questionnaire with **pre-coded activities** or Stylized questions was used in 2002, 2009 y 2014.



For the conceptual design, in 2014, a **selection of activities** was made based on the International Classification of Time Use Activities (**ICATUS, 2008**) and the Mexican Classification of Activities on Time Use (**CMAUT, 2014**), in order to **ensure** that all activities were **included** at the **main division level**.

EXPERIENCE OF STYLIZED QUESTIONS

- From the list of pre-coded activities, the respondent answers if the activity was carried out or not, and the time used in each activity during the last week (mon-fri & sat-sun)

CONVIVENCIA FAMILIAR, SOCIAL Y PARTICIPACIÓN CIUDADANA

6.21 Durante la semana pasada, ¿usted...

REGISTRE EL CÓDIGO CORRESPONDIENTE

Sí..... 1 →

No..... 2 ↓

6.21a ¿Cuánto tiempo le dedicó...

REGISTRE CON NÚMERO

de lunes a
viernes?

sábado y
domingo?

HORAS

MINUTOS

HORAS

MINUTOS

1 **dedicó tiempo especial** (sin hacer otra actividad) **a los integrantes de su hogar para platicar de las actividades diarias, consolar o aconsejar?**

		:			:		
--	--	---	--	--	---	--	--

2 **asistió o participó en actividades o celebraciones religiosas?** (actividades ceremoniales en casa u otro lugar, misas, rosarios u otro tipo de oraciones grupales, funerales, fiestas patronales, kermés de la iglesia)

		:			:		
--	--	---	--	--	---	--	--

3 **asistió a celebraciones cívicas o políticas?** (desfiles, mítines, marchas, reuniones)

		:			:		
--	--	---	--	--	---	--	--

WHY WAS IT DECIDED TO USE A DIARY WITH STYLIZED QUESTIONS INSTEAD OF A 24-HOUR DIARY?

A 24-hour diary involves the active participation of respondents in recording activities.

The **Mexican population** is not used to fill journals or forms, the experience of 1998 left it in evidence. This was also confirmed in the Income-expenditure survey (ENIGH), which uses a diary per week for all expenses on food, transportation; **the interviewer** has to check it everyday and **usually has to fill it out.**¹

- Thus, in Mexico, the **presence of the interviewer is necessary to record** the information in the questionnaire.



ADVANTAGES OF STYLIZED QUESTIONS

- **Avoid codification activities** and the impact that this has on the cost of the project and the time required.
- **Reduces collection costs.** The interviewer does not have accumulated interviews of past samples days when they do not find the responder or when the diary is not filled.
- **Avoids additional questions** to determine the context of the activity, because the question is addressed, and inquires about exclusive activity.

PRODUCCIÓN DE BIENES PARA CONSUMO EXCLUSIVO DEL HOGAR											
6.3 Durante la semana pasada, <u>SÓLO para el consumo de su hogar</u> , ¿usted...				6.3a ¿Cuánto tiempo le dedicó...							
REGISTRE EL CÓDIGO CORRESPONDIENTE				REGISTRE CON NÚMERO							
Sí.....		1 →		de lunes a viernes?		sábado y domingo?					
No.....		2 ↓									
				HORAS		MINUTOS					
				HORAS		MINUTOS					
1 cuidó o crió animales de corral (ordeñar, recolectar huevos, etc.)?				□	□	:	□	□	:	□	□
2 recolectó leña?				□	□	:	□	□	:	□	□

ADVANTAGES OF STYLIZED QUESTIONARY

The questionnaire used by Mexico collects activities in two cycles, from Monday to Friday, and Saturdays and Sundays:

This avoids the problem of having every day of the week statistically represented in the sample. In the operational organization, the sample is not divided to have each day represented, nor does it require a weekends sample.

In data analysis, does not exist the problem of determining for what period the data should be generalized at the time to data presentation.

The reference period for the work's data collection for the market (last week) is matched with the total of activities, unpaid and personal.

An exhaustive list of daily activities (107) is made in order to not exclude any; an open question is added to capture any activity not considered.



DISADVANTAGES OF STYLIZED QUESTIONS

- One week has 168 hours. The time use reported are an average estimated per week of what is dedicated to each activity.
- It is not possible to know the activities chronological order.
- Despite having an open question to capture other activities that are not considered in stylized questions, their collection is very low.
- There may be problems recalling issues the activities that were carried out in the previous week.



MAIN CHALLENGES

Collection Method: computer Assited Personal Interview.

- An electronic questionnaire is used for data collection.
- **Validation** tools:



- **Time limits of activities** (minimum and maximum per activity, identifying outliers).
- Time calculation tool (**calculator** to support the interviewer).
- Immediate validation: interviewer can **verify values out of range and check answers** with the informant.



MAIN CHALLENGES

Focus on the time use for main activities.

- The main activities were captured in the questionnaire, that is, they are carried out exclusively (criteria in the interviewer's manual).

6.22 Durante la semana pasada, PARA ENTRETENERSE ¿usted...	6.22a ¿Cuánto tiempo le dedicó...								
<i>REGISTRE EL CÓDIGO CORRESPONDIENTE</i>	<i>REGISTRE CON NÚMERO</i>								
Sí..... 1 →	de lunes a viernes?	sábado y domingo?							
No..... 2 ↓									
	<i>HORAS</i>	<i>MINUTOS</i>	<i>HORAS</i>	<i>MINUTOS</i>					
1 vio televisión <u>sin hacer otra actividad?</u> (películas, series, videos, documentales, noticias, novelas, etc.).....									
2 escuchó la radio u otros medios de audio <u>sin hacer otra actividad?</u> (música, noticias, documentales, comentarios, etc.).....									
3 revisó el correo, consultó redes sociales o chateó <u>sin hacer otra actividad?</u> (whatsapp, facebook, twitter, entre otros)									

MAIN CHALLENGES

About passive care

A question is included to collect the data time dedicated to "passive care", differentiated by vulnerable groups:

- People with some disability, chronic or temporary illness.
- Household members from 0 to 14 years old.
- Household members aged 60 and over.

while you did other things, did you watch them or take care of them?

Encouraging participation in TUS

Introductory letters are sent to sensitize the population about the importance of the survey and to motivate interest.



DATA COLLECTION OF TIME USE IN DIFFERENT SURVEYS EXPERIENCE

Mexico has decided to incorporate a small set of questions regarding Time Use in the Labor Survey (**ENOE**) and in the Income-Expenditure survey such as **ENIGH** and recently in the **Intercensal Survey 2015** as make statistics available to analyze poverty or labor markets thoroughly.

This allows INEGI to obtain more regular information mainly on **unpaid work** and which can also be referenced with other topics such as **employment and income**, as well as having representative data at the state and municipal level, where many policies are developed in Mexico.

Then are some results of these projects and main problems encountered.¹

¹ INMUJERES made a comparison of the results of various INEGI surveys. This review was presented in the **Specialized Technical Committee on Information with a Gender Perspective**, which approved that it be considered as a basis to consolidate the proposal of a standardized question about the use of time in non-specialized surveys. The Technical Committees are part of the National System of Statistical and Geographical Information, it is the set of Units organized through the Subsystems, coordinated by the INEGI.

TIME USE IN DIFFERENT SURVEYS

Name of the survey	Temporary coverage	Periodicity	Target population	Reference period	Total questions	Activities performed simultaneously
ENUT	2002, 2009, 2014	Not determined	12 years old or over Direct respondent	Monday to Friday, Saturday and Sunday	107 activities	Yes
ENIGH-MCS	2008, 2010, 2012, 2014, 2016	Biennial	12 years old or over	Monday to Sunday	8 activities	No
ENOE	A partir de 2005	Quarterly	12 years old or over	Monday to Sunday	10 activities	No
Encuesta Intercensal	2015	Not determined	12 years or over	Monday to Sunday	8 activities	No



Activities for the market

ENUT

ENOE
(Labor)

ENIGH
(Income-
expenditure)

Encuesta
Intercensal
(Population)

Work
(includes own-
consumption)

Transfer to
work

Work
(includes own-
consumption)

Work
(includes own-
consumption)

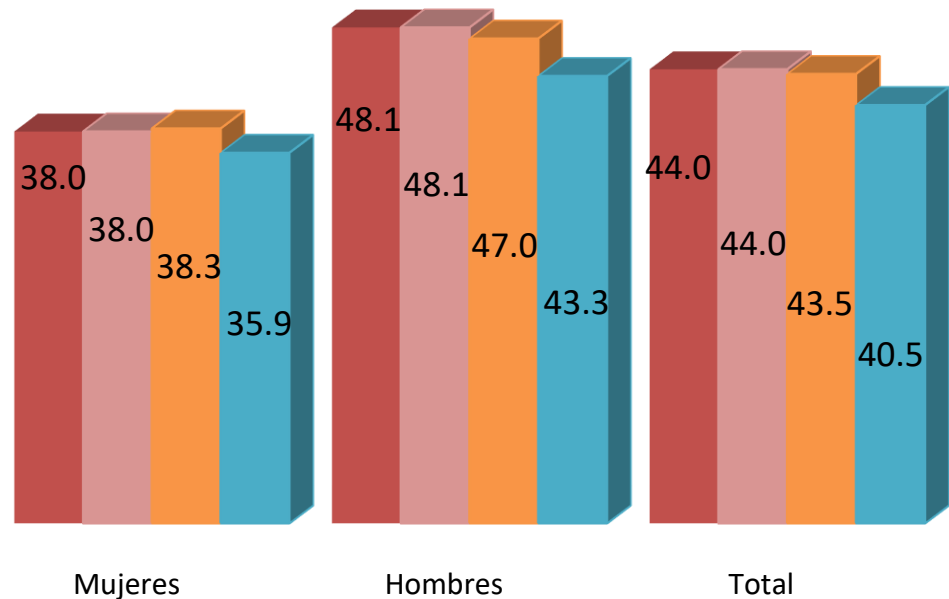
Only if the
respondent
worked

Search and
management



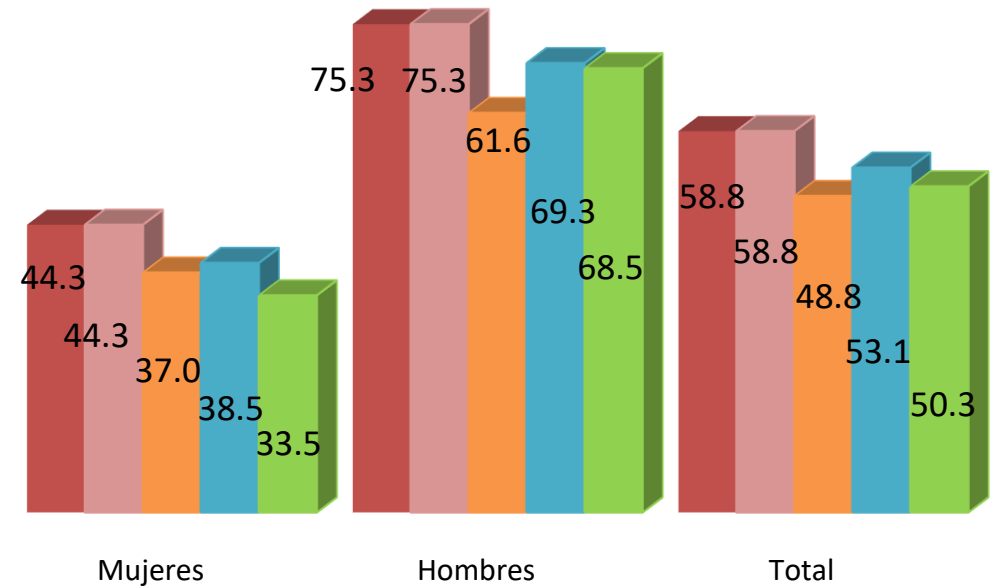
Work for the market 12 years old and over people

Average Hours



■ ENUT La V ■ ENUT La D ■ ENIGH-MCS ■ ENOE

Participation rate



■ ENUT La V ■ ENUT La D ■ ENIGH-MCS ■ ENOE ■ Intercensal

Fuente: Inmujeres con base en: Inmujeres-INEGI. Encuesta Nacional sobre Uso del Tiempo 2014. Base de datos

Inmujeres con base en INEGI. Encuesta Intercensal 2015. Base de datos. Se consideró al número de personas que realizan la actividad y a las que la realizaron pero no pero no recuerdan cuanto.

INEGI. Módulo de Condiciones Socioeconómicas (MCS), anexo a la Encuesta Nacional de Ingresos y Gastos de los Hogares (ENIGH). 2014. Base de datos

(No incluye a los trabajadores domésticos, a sus familiares y a los huéspedes).

INEGI. Encuesta Nacional de Ocupación y Empleo 2014. Base de datos. Se consideró al número de personas que realizan la actividad y a las que la realizaron pero no saben cuanto.



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Domestic work

ENUT

House cleaning

Payments and paperwork

Administration and management

Feeding and caring for pets

Preparation and food service

Dress and shoe cleaning

Shopping for the home

Repair and Maintenance

Production of goods for the home

ENOE

Housework: washing, ironing, preparing and serving food, sweeping.

Make purchases, keep accounts or perform procedures for the home or take care of security (such as saving the car)

Repair or maintain

Build or expand your home

ENIGH - MCS

Housework: wash, iron, cook, wash dishes, sweep, take care of backyard animals

Repair and Maintenance

Carry water or firewood

Encuesta Intercensal

Clean your house, wash or iron your family's clothes

Prepare or serve food for your family

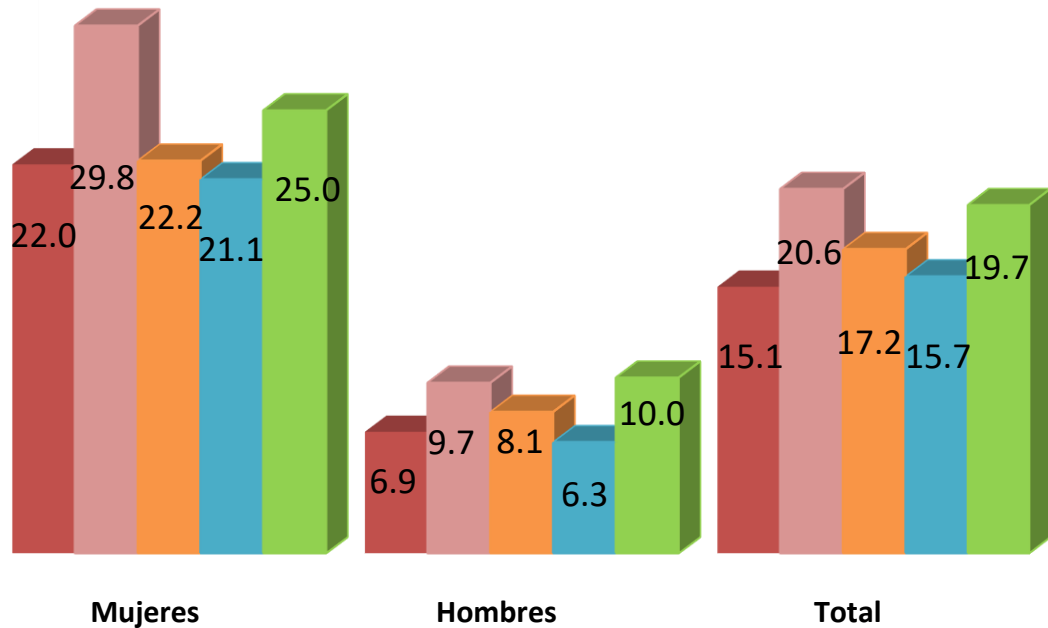
Make purchases for food or cleaning



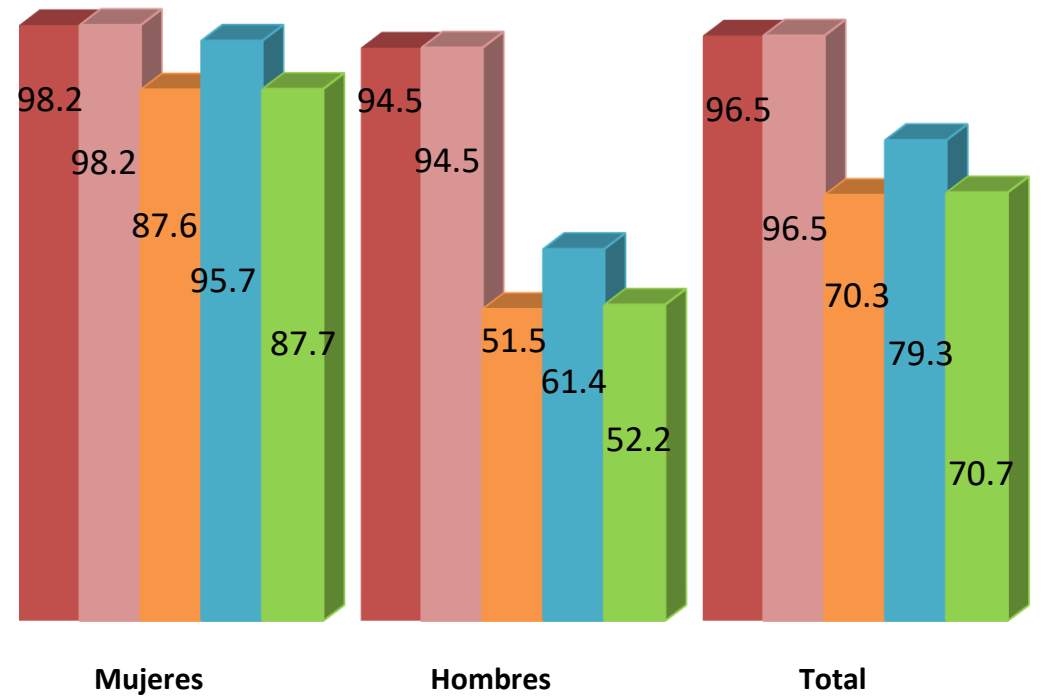
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Domestic Work

Average Hours



Participation rate



■ ENUT L a V ■ ENUT L a D ■ ENIGH-MCS ■ ENOE ■ Intercensal

■ ENUT L a V ■ ENUT L a D ■ ENIGH-MCS ■ ENOE ■ Intercensal

Fuente: Inmujeres con base en:

Inmujeres-INEGI. Encuesta Nacional sobre Uso del Tiempo 2014. Base de datos

Encuesta Intercensal 2015. Base de datos. Se consideró al número de personas que realizan la actividad y a las que la realizaron pero no pero no recuerdan cuanto.

INEGI. Módulo de Condiciones Socioeconómicas (MCS), anexo a la Encuesta Nacional de Ingresos y Gastos de los Hogares (ENIGH). 2014. Base de datos

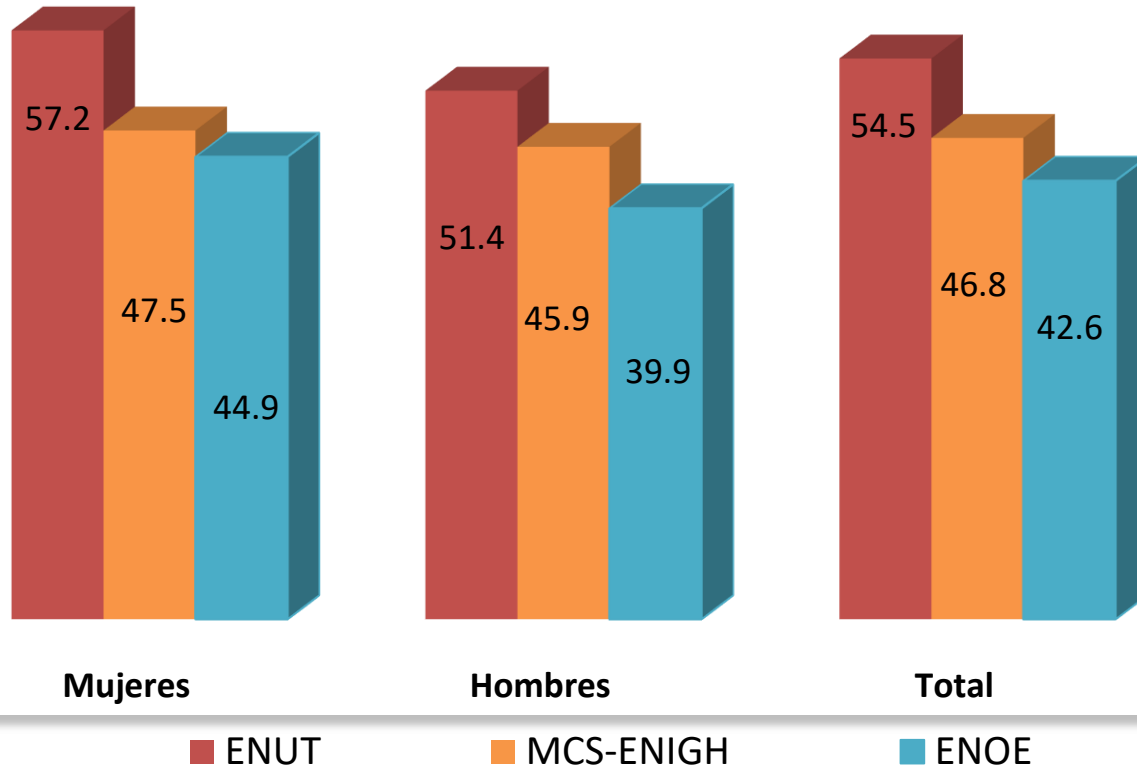
(No incluye a los trabajadores domésticos, a sus familiares y a los huéspedes).

INEGI. Encuesta Nacional de Ocupación y Empleo 2014 . Base de datos. Se consideró al número de personas que realizan la actividad y a las que la realizaron pero no saben cuanto.



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Total work time



Derived from the data differences between ENOE, ENIGH and Intercensal in relation to ENUT, it is concluded that:

- The impact by the type of informant (direct or indirect).
- The impact of the design questions, and the number of activities considered.
- The need for specify the reference period to the respondent.
- Need to specify the simultaneous activities collection.

Fuente: Inmujeres con base en:

Inmujeres-INEGI. Encuesta Nacional sobre Uso del Tiempo 2014. Base de datos

Encuesta Intercensal 2015. Base de datos. Se consideró al número de personas que realizan la actividad y a las que la realizaron pero no pero no recuerdan cuanto.

INEGI. Módulo de Condiciones Socioeconómicas (MCS), anexo a la Encuesta Nacional de Ingresos y Gastos de los Hogares (ENIGH). 2014. Base de datos

(No incluye a los trabajadores domésticos, a sus familiares y a los huéspedes).

INEGI. Encuesta Nacional de Ocupación y Empleo 2014 . Base de datos. Se consideró al número de personas que realizan la actividad y a las que la realizaron pero no saben cuanto.



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TU HOMOLOGATED QUESTIONS PROPOSAL¹

Motivation: dissimilarity in activities contained in each project, which makes difficult conceptual comparability between surveys, preventing a homogeneous data collection.

Therefore, the need to have homologated variables on unpaid work and care, with an **homogenous classification** was considered, in order to obtain **comparable data in time and between projects**.

The proposal identifies the activities of paid and unpaid work, which are most important for the SNA. It includes an manual with concepts, descriptions and standardized criteria.

It should be noted that the questions have not been tested yet in the field.

TU HOMOLOGATED QUESTION STRUCTURE

- The battery includes 11 productive activities relevant to national accounting, and one more non-productive or personal related to the study.
- The battery of questions always begins with the committed activities, work and then study.

SECCIÓN 1. USO DEL TIEMPO									
Ahora permítame preguntarle por sus actividades de la semana pasada y el tiempo que destinó en realizarlas.									
<p>FILTRO UT: VERIFIQUE SI LA PERSONA TRABAJÓ EL MES PASADO</p> <ul style="list-style-type: none"> · SI EN ## ES CÓDIGO X, o ## CON CÓDIGO X → CONTINÚE · DE LO CONTRARIO PASE A OPCIÓN 2 DE 1.1 (ACTIVIDADES DE ESTUDIO). 									
PARA PERSONAS DE 12 AÑOS O MÁS DE EDAD DEL HOGAR									
TRABAJO PARA EL MERCADO Y ACTIVIDADES DE ESTUDIO									
<p>1.1 ¿Durante la semana pasada...</p> <p>REGISTRE EL CÓDIGO CORRESPONDIENTE</p> <p>Sí 1 →</p> <p>No 2 ↓</p>	<p>1.2 Incluyendo el traslado, ¿cuánto tiempo le dedicó...</p> <p>REGISTRE CON NÚMERO</p> <table border="0"> <tr> <th colspan="2">de lunes a viernes?</th> <th colspan="2">el sábado y domingo?</th> </tr> <tr> <td>Horas</td> <td>Minutos</td> <td>Horas</td> <td>Minutos</td> </tr> </table>	de lunes a viernes?		el sábado y domingo?		Horas	Minutos	Horas	Minutos
de lunes a viernes?		el sábado y domingo?							
Horas	Minutos	Horas	Minutos						
1 dedicó tiempo a su trabajo (actividad)?..... : :								
2 asistió a clases, hizo tareas, estudió o tomó cursos?..... : :								

TU HOMOLOGATED QUESTION STRUCTURE

- They are arranged to do easier the declaration and estimation of the time used to each one by persons of 12 years old or more.
- It starts with activities of committed time (work and study); continue with care and then with unpaid domestic work.

ACTIVIDADES DE TRABAJO NO REMUNERADO			
2.1 Durante la semana pasada, <u>sin recibir un pago a cambio</u> , ¿usted... REGISTRE EL CÓDIGO CORRESPONDIENTE Si 1 → No 2 ↓		2.2 ¿Cuánto tiempo le dedicó... REGISTRE CON NÚMERO de lunes a viernes? el sábado y domingo? Horas Minutos Horas Minutos	
01 cuidó de manera exclusiva a personas de su hogar enfermas o con alguna discapacidad (física o mental)? Como darles medicamentos, llevarlos a terapia, bañarlos, moverlos.....	_____	_____	_____
02 cuidó de manera exclusiva a bebés, niños, adultos mayores u otras personas sanas de su hogar? Como llevarlos a la escuela o a consultas médicas, apoyarlos en tareas, acompañarlos en trámites.....	_____	_____	_____
03 realizó los quehaceres domésticos de su hogar? Como preparar y servir comida, lavar, planchar, limpiar la casa, cuidar el jardín o mascotas.....	_____	_____	_____
04 hizo compras, pagos o trámites para su hogar? Como surtir despensa, pagar servicios, llevar o supervisar la reparación, limpieza o mantenimiento de aparatos o vehículos.....	_____	_____	_____
05 construyó o amplió por sí mismo(a) su vivienda?.....	_____	_____	_____
06 elaboró productos como ropa, muebles, conservas, queeos, pan para consumo de un familiar, amistad o de su propio hogar?.....	_____	_____	_____
07 hizo reparaciones o dio mantenimiento por sí mismo(a) a su vivienda, a muebles, aparatos o vehículos de un familiar, amistad o de su propio hogar?.....	_____	_____	_____
08 apoyó al hogar de un familiar o de una amistad de manera exclusiva en el cuidado de niños(as), adultos mayores, personas enfermas o con alguna discapacidad (física o mental)? (darles medicamentos, llevarlos a citas médicas, darles de comer, bañarlos, moverlos, llevarlos a la escuela.....	_____	_____	_____
09 apoyó al hogar de un familiar o de una amistad en los quehaceres domésticos, en la preparación de comida o en realizar trámites o pagos? (lavar, planchar, limpiar la casa, cuidar mascotas, pago de luz, agua).....	_____	_____	_____
10 hizo trabajo comunitario o de voluntariado como dar asistencia en asilos, hospitales, reforestar, limpiar calles, apoyar en festividades, entre otras?.....	_____	_____	_____

TOWARDS ENUT 2019

The next survey of the **ENUT** will be in **2019**.

- The aim is to maintain comparability with the ENUT 2014, and stylized questions remain.
- It seeks to aligned to the national, regional and international classification.
- We looking for national coverage that allows an urban-rural geographical breakdown, increase the sample size for subnational breakdown.
- Hold meetings with different public and academic institutions to prepare the project.
- Do a pilot test at the last part of 2018.



!!!!!!THANK YOU!!!!!!



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