

Ethiopia Socioeconomic Survey 2018/19: Survey Methodology



February 26, 2021



Background



- **The Ethiopian Socioeconomic Survey (ESS)** is a collaborative project between the Central Statistics Agency of Ethiopia (CSA) and the World Bank Living Standards Measurement Study- Integrated Surveys of Agriculture (LSMS-ISA) Project. ESS is supported by the Bill and Melinda Gates Foundation (BMGF).
- **ESS Objectives**
 - Making available multitopic panel household survey data with a special focus on improving agricultural statistics and the link between agriculture and other household income activities.
 - Introducing innovative approaches in data collection – Experiments on input and output measurement
- **ESS Panels and Survey Waves**
 - **First Panel:** 3 waves: ESS1 -ERSS(2011/12), ESS2 (2013/14), ESS3 (2015/16)
 - ESS1 – Rural and Small towns
 - ESS2 & ESS3 – Rural, Small towns, Medium and Large towns
 - **Second Panel:** 2 waves- ESS4 (2018/19), ESS5 (2021/22)
 - ESS4 – Rural and Urban areas

ESS Questionnaires



- **ESS has 3 main questionnaires: HH, Community and Agriculture**
- **Household**
 - Demographics, Education, Health, Labor and Time Use, Banking and Finance, Food and Non-food Consumption, Non-Farm Enterprises, Housing, Shocks, Assets, other income
 - LSMS+ module added in this round. Collected individual disaggregated data on selected assets (Land, Livestock, Mobile Phone, Financial Assets)
 - Collected at individual (member) and household level depending on the module.
- **Community**
 - Infrastructure and service access, community needs, economic activities, Productive Safety Net Program(PSNP) and prices
 - Community level information- one per EA-
 - Information is collected from key informants and from enumerator observations

ESS Questionnaires



- **Agriculture**
 - 3 main modules: Post-planting, Postharvest and Livestock
 - The holder (HH member in charge of managing the activity) is the respondent
 - Information is holder level ~ 99% of households -one holder in ESS4
 - **Post-Planting**
 - Main rosters include: Parcel, Field, Crop-field, Seed and crop-cut
 - Additional module on holder level miscellaneous questions
 - **Livestock**
 - Livestock type, inputs, stock changes and livestock products
 - **Post-harvest**
 - Crop-harvest by field, harvest labor, crop-disposition and sales
- **Notes:**
 - ESS data comes with additional constructed variables: Consumption aggregate, Geospatial data, conversion factors
 - ESS4 Agriculture modules were fielded in rural EAs only.

Fieldwork



- Conducted in 3 visits in rural areas and one visit in urban areas
- Following the CSA's Annual Agricultural Sample Survey Schedule- Main agricultural season
- [Survey Solutions](#) is used for ESS4
- One resident enumerator in a rural EA (for about a year) and one enumerator in up to 2 EAs in urban areas (for about 3 months)

Questionnaire	2018				2019				
	Sep	Oct	Nov	Dec	Feb	Mar	Jun	Jul	Aug
Post-planting agriculture and livestock	■	■							
Crop cut	■	■	■	■					
Post-harvest agriculture					■	■			
Household and community							■	■	■

Sampling & Weighting Procedures



ESS4 Sample

- Representative of rural and urban areas
- Representative – region level
- Fresh-Not related to previous waves
- Baseline sample and the next ESS (ESS5) will be fielded in 2021/22

Sample Frame

- The ESS4 Sample Frame is the 2018 pre-census cartographic database of enumeration areas

Sampling & Weighting Procedures



	First Stage	Second Stage	Listing for Second Stage Random Selection
Rural	EAs from the CSA's Annual Agricultural Sample Survey (AgSS). AgSS EAs -selected using PPS - Zone stratification	10 Agricultural HHs (Also half of AgSS households)	EA List of Agricultural HHs
		2 Non-Agricultural HHs- if available	EA List of non-Agricultural HHs
Urban	Urban EAs stratified by region using PPS	15 HHs	EA List of All Households

ESS4 Sample Selection

- Two stage stratified probability sampling
 - First Stage EAs in each region
 - Second Stage Households in each EA
- Slightly different approaches in rural and urban areas
- Sample distribution by region and by rural and urban (next table).

Sampling & Weighting Procedures



Region	Urban		Rural		Total	
	Sample EAs	Sample households	Sample EAs	Sample households	Sample EAs	Sample households
Tigray	19	285	35	420	54	705
Afar	15	225	31	372	46	597
Amhara	19	285	43	516	62	801
Oromia	20	300	45	540	65	840
Somali	17	255	36	432	53	687
Benishangul						
Gumuz	16	240	30	360	46	600
SNNP	18	270	42	504	60	774
Gambela	20	300	22	264	42	564
Hareri	24	360	18	216	42	576
Addis Ababa	53	795	-	-	53	795
Dire Dawa	28	420	14	168	42	588
Ethiopia	249	3,735	316	3,792	565	7,527

- Completed interviews are 6,770 households
- Discrepancies due to security reasons and non-ag households in rural areas

Sampling & Weighting Procedures

Weighting

- 3 household types – rural agricultural households, rural-non-agricultural households and urban households
- Weight adjustment for completed interviews
 - Adjustment for non-response due to security and other reasons or refusals
 - Adjustment for availability of non-ag households in rural areas



High Frequency Phone Survey of Households to Monitor the Impact of COVID-19



ESS4 and the COVID-19 survey extension

- WB is implementing a high-frequency phone survey of households to monitor the impact of COVID-19.
- The ESS4 sample is the frame- reaching those households with access to a phone. Coverage and non-response bias- Weights adjusted to minimize bias.
- 3,249 households interviewed at baseline.
- Data collected on Behavior, Access to Basic Needs and Services, Employment and Income Dynamics, Assistance, Food Insecurity Experience, Household Debt, Agriculture
- High frequency – every 4 weeks. First round in April 2020. Ten rounds as of March 2021.

Additional Information



- ESS4 Basic Information Document
<https://microdata.worldbank.org/index.php/catalog/3823>
- Ethiopia High-Frequency Phone Survey of Households
[LSMS-Supported High-Frequency Phone Surveys on COVID-19 \(worldbank.org\)](#)
- Questions on ESS data and ET HH Phone Survey data:
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Thank you!