Tanzania - National Panel Survey 2014-2015

National Bureau of Statistics

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Identification

SURVEY ID NUMBER
TZA_2014_NPS-R4_v03_M_v03_A_EXT

TITLE
National Panel Survey 2014-2015

SUBTITLE
Wave 4 - Extended Panel

COUNTRY/ECONOMY

Name	Country code
Tanzania	TZA

STUDY TYPE
Living Standards Measurement Study

SERIES INFORMATION
The 2014/2015 Tanzania National Panel Survey (NPS) is part of the fourth round in a series of nationally representative household panel surveys that collect information on a wide range of topics including agricultural production, non-farm income generating activities, consumption expenditures, and a wealth of other socioeconomic characteristics. All four rounds of the NPS have been implemented by the Tanzania National Bureau of Statistics (NBS). The first round of the survey was conducted over twelve months, from October 2008 to September 2009. The main fieldwork of the second round of the NPS started in October 2010 and finished in September 2011, with specialized tracking teams remaining in the field until November 2011. Similarly, the duration and timing of the field work for the third round of NPS was from October 2012 to November 2013. Field work for the fourth round started in October 2014 and lasted until January 2016.

ABSTRACT
The main objective of the NPS is to provide high-quality household-level data to the Tanzanian government and other stakeholders for monitoring poverty dynamics, tracking the progress of the Five Year Development Plan (FYDP) II poverty reduction strategy and its predecessor plans, and evaluating the impact of other major, national-level government policy initiatives. As an integrated survey covering a number of different socioeconomic factors, it compliments other more narrowly focused survey efforts, such as the Demographic and Health Survey (DHS) on health, the Integrated Labour Force Survey (ILFS) on labour markets, the Household Budget Survey (HBS) on expenditure, and the National Sample Census of Agriculture (NSCA). Secondly, as a panel household survey in which the same households are revisited over time, the NPS allows for the study of poverty and welfare transitions and the determinants of living standard changes.

KIND OF DATA
Sample survey data [ssd]

UNIT OF ANALYSIS
Households; Individuals

Version

VERSION NOTES
Added new dataset consumptionnps4_extended_panel.

Scope

NOTES
The 2014-15 NPS covers the following topics:

- HOUSEHOLD: Household identification; Survey staff details; Household member roster; Education, Health, Labour; Food outside the household; Subject welfare; Food security; Housing, water and sanitation; Consumption of food over the past one

week; Non-food expenditures (past one week & one month); Non-food expenditures (past twelve months); Household assets; Family/household non-farm enterprises; Assistance and groups; Credit; Finance; Recent shocks to household welfare; Deaths in the household; Household recontact information; Filter questions; Anthropometry.

- AGRICULTURE:Household roster; Plot roster; Plot details; Crops by plot; Crops - Household totals (production and sales); Permanent crops by plot; Permanent crops - Household totals (production and sales); Input vouchers; Outgrower schemes and contract farming; Processed agricultural products and agricultural by-products; Farm implements and machinery extension; Extension.

- LIVESTOCK AND FISHERY: Household member roster; Livestock stock; Animal health; Feed, water, housing, breeding; Livestock-labour; Milk; Animal power & dung; Other livestock products; Fishery- Household labour; Fishery- Hired labour; Fishing inputs; Fisheries output; Fish trading.

- COMMUNITY: Community identification; Survey staff details; Access to basic services; Investments projects; Land use; Demographics, land & livestock, Market prices; Local units.

Coverage

GEOGRAPHIC COVERAGE
National

UNIVERSE
The universe includes all households and individuals in Tanzania with the exception of those residing in military barracks or other institutions.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
National Bureau of Statistics	Ministry of Finance and Planning

PRODUCERS

Name	Affiliation	Role
World Bank Living Standard Measurement Study Team	Development Partner	Technical assistance

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
European Commission	EC	Funding
Bill and Melinda Gates Foundation	BMGF	Funding

OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Role
NPS Technical Committee	Technical Advice

Sampling

SAMPLING PROCEDURE
The NPS sample was refreshed for NPS 2014/2015. Longitudinal surveys tend to suffer from bias introduced by households leaving the survey over time (i.e. attrition). Although the NPS maintains a highly successful recapture rate (roughly 96% retention at the household level), minimizing the escalation of this selection bias, a refresh of longitudinal cohorts is typically done to ensure proper representativeness of estimates while maintaining a sufficient primary sample to maintain cohesion

within panel analysis. Additionally, the refreshing of a longitudinal sample realigns the sample with any changes in administrative boundaries, demographic shifts, or updated population information. In the case of Tanzania, a newly completed Population and Housing Census (PHC) in 2012 providing updated population figures, along with changed in administrative boundaries, emboldened an opportunity to realign the NPS sample. Similar to the sample in NPS 2008/2009, the sample design for the "Refresh Panel" allows analysis at four primary domains of inference, namely: Dar es Salaam, other urban areas on mainland Tanzania, rural mainland Tanzania, and Zanzibar. The sample design is a stratified two-stage design. The design consists of 51 design strata (identified in the data as 'strataid') corresponding to a rural/urban designation for each of the 26 regions; however, Dar es Salaam is pure urban and therefore constitutes only one stratum. The allocation across the design strata was informed by the last round of the NPS and seeks to balance multiple survey objectives and maximize precision given survey parameters. The intended sample design consisted of a new selection of 3,360 households corresponding to 420 EAs from the latest PHC in 2012. This new cohort in NPS 2014/2015 will be maintained and tracked in all future rounds between national censuses. A nationally representative sub-sample was selected to continue as part of an "Extended Panel". This "Extended Panel" allowed general comparison of sample groups and monitoring indicator comparability.

WEIGHTING

In order to produce nationally representative statistics with the NPS data, it is necessary to apply weighting or expansion factors. The panel survey weights adjust for differences in the probability of selection into the NPS 2008/2009 sample for observations in various strata, 2008/2009 households splitting into multiple households in 2010/2011 and splitting even further in 2012/2013, and attrition between rounds of the survey. The first round of the NPS sample was a multi-stage clustered sample design. First stage sampling involved the selection of survey clusters with the probability of selection proportional to cluster size within a stratum. The sampling of these clusters was stratified along two dimensions: (i) eight administrative zones (seven on Mainland Tanzania plus Zanzibar as an eighth zone), and (ii) rural versus urban clusters within each administrative zone. The combination of these two dimensions yields 16 strata. In rural areas a cluster is defined as an entire village. In urban areas a cluster is defined as a census enumeration area. As a general rule, the probability of selection was higher for clusters within strata where existing data sources showed that the variance of key variables of interest for the NPS (e.g., household consumption and maize production) were likely to be very high – implying the need for more observations to produce reliable estimates. The expansion factors for the NPS-EP 2014/2015, variable "y4_panelweight", have been integrated into Section A, "HH_SEC_A" of the household dataset. Additionally, unique identifiers for the first-stage sampling units, "clusterid", and for the sampling strata, "strataid" can also be located in Section A of the household dataset. The methodology used to calculate the panel weights for the NPS 2012/2013 was developed as part of the LSMS-ISA work program. Details on the methodology can be found in the paper: Himelein, Kristen. 2013. "Weight Calculations for Panel Surveys with Subsampling and Split-off Tracking." Statistics and Public Policy, vol (1), pp40-45.)

Data Collection

DATES OF DATA COLLECTION

Start	End
2013-10-01	2016-01-01

DATA COLLECTION MODE
Other [oth]

Data Processing

DATA EDITING

Additional data cleaning was conducted as the final stage of the data processing. Further adjustment of the data post-entry was conducted under the principle of absolute certainty where adjustments must be evidence-based and correction values true beyond a reasonable doubt. As such, the resulting final data files may still contain some inconsistencies and outliers. Handling of these values is thus left entirely to the data user. Throughout the data processing system, versions of the data are archived at all key steps and all checking and cleaning syntax documented and archived.

Access policy

CONTACTS

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Living Standards Measurement Study	World Bank	lsms@worldbank.org	www.worldbank.org/lsms

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2. The data will be used for statistical and scientific research purposes only. They will be used solely for reporting of aggregated information, and not for investigation of specific individuals or organizations.

3. No attempt will be made to re-identify respondents, and no use will be made of the identity of any person or establishment discovered inadvertently. Any such discovery would immediately be reported to the National Bureau of Statistics.

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CITATION REQUIREMENTS

Tanzania National Bureau of Statistics (NBS). 2015. National Panel Survey (NPS) - Wave 4 - Extended Panel 2014 - 2015. Ref. TZA_2014_NPS-R4_v03_M_v03_A_EXT. Downloaded from [URL] on [Date]. Dar es Salaam, Tanzania: NBS. (www.nbs.go.tz)

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Metadata production

DDI DOCUMENT ID

DDI_TZA_2014_NPS-R4_v03_M_v03_A_EXT_WB

PRODUCERS

Name	Abbreviation	Affiliation	Role
Development Economics Data Group	DECDG	The World Bank	Documentation of the DDI

DATE OF METADATA PRODUCTION

2017-07-17

DDI DOCUMENT VERSION
Version 03 (Dec 2022) - added new dataset consumptionnps4_extended_panel.

Data Dictionary

Data file	Cases	Variables
ag_filters Agriculture Questionnaire - Filters	989	6
ag_network Agriculture Questionnaire - Network Roster	1910	6
ag_sec_01 Agriculture Questionnaire - Section 1: Household Roster	3726	7
ag_sec_2a Agriculture Questionnaire - Section 2a: Plot Roster	1726	15
ag_sec_2b Agriculture Questionnaire - Section 2b: Plot Roster - Additional Plots	990	15
ag_sec_3a Agriculture Questionnaire - Section 3a: Plot Details - Long Rainy Season	1726	171
ag_sec_3b Agriculture Questionnaire - Section 3b: Plot Details - Short Rainy Season	1731	172
ag_sec_4a Agriculture Questionnaire - Section 4a: Crops by Plot - Long Rainy Season	2014	39
ag_sec_4b Agriculture Questionnaire - Section 4b: Crops by Plot - Short Rainy Season	1177	40
ag_sec_5a Agriculture Questionnaire - Section 5a: Crop Production and Sales Long Rainy Season	1649	52
ag_sec_5b Agriculture Questionnaire - Section 5b: Crop Production and Sales Short Rainy Season	1107	52
ag_sec_6a Agriculture Questionnaire - Section 6a: Permanent Crops by Plot - Fruit Crops	1668	19
ag_sec_6b Agriculture Questionnaire - Section 6b: Permanent Crops by Plot - Permanent Crops	1446	19
ag_sec_7a Agriculture Questionnaire - Section 7a: Permanent Crops by Crop - Fruit Crops	1538	27
ag_sec_7b Agriculture Questionnaire - Section 7b: Permanent Crops by Crop - Permanent Crops	1276	27
ag_sec_10 Agriculture Questionnaire - Section 10: Processed Agricultural Products and Agricultural By-Products	1431	22
ag_sec_11 Agriculture Questionnaire - Section 11: Farm Implements & Machinery	9711	12
ag_sec_12a Agriculture Questionnaire - Section 12a: Extension	3481	20
ag_sec_12b Agriculture Questionnaire - Section 12b: Extension	5350	6
ag_sec_a Agriculture Questionnaire - Section A-1: Household Identification	989	31

com_sec_a1a2 Community Questionnaire - Section A-1: Community Identification, Section A-2: Survey Staff Details	42	45
com_sec_cb Community Questionnaire - Section CB: Access to Basic Services	1302	8
com_sec_cc Community Questionnaire - Section CC: Investment Projects	588	9
com_sec_cd Community Questionnaire - Section CD: Land	42	36
com_sec_ce Community Questionnaire - Section CE: Demographics, Land & Livestock	42	40
com_sec_cf Community Questionnaire - Section CF: Market Prices	2184	9
com_sec_cf_id Community Questionnaire - Section CF - Location	62	24
com_sec_cg Community Questionnaire - Section CG: Local Units	1008	11
hh_filters Household Questionnaire - Filters	989	9
hh_sec_b Household Questionnaire - Section B: Household Member Roster	4742	44
hh_sec_c Household Questionnaire - Section C: Education	4742	42
hh_sec_d Household Questionnaire - Section D: Health	4742	62
hh_sec_e Household Questionnaire - Section E: Labour	4742	74
hh_sec_f Household Questionnaire - Section F: Food outside the Household	4742	18
hh_sec_g Household Questionnaire - Section G: Subjective Welfare & Crime	4742	20
hh_sec_h Household Questionnaire - Section H: Food Security	989	59
hh_sec_i Household Questionnaire - Section I: Housing, Water & Sanitation	989	41
hh_sec_j1 Household Questionnaire - Section J: Consumption of Food over Past One Week	59340	14
hh_sec_j3 Household Questionnaire - Section J: Consumption of Food over Past One Week	9890	4
hh_sec_j4 Household Questionnaire - Section J: Consumption of Food over Past One Week	3956	5
hh_sec_k Household Questionnaire - Section K: Non-Food Expenditure – Past One Week and One Month	25714	5
hh_sec_l Household Questionnaire - Section : L: Non-Food Expenditure – Past Twelve Months	25714	6
hh_sec_m Household Questionnaire - Section M: Household Assets	52417	7

hh_sec_n Household Questionnaire - Section N: Family/Household Non-Farm Enterprises	1119	40
hh_sec_o1 Household Questionnaire - Section O: Assistance and Groups	5934	13
hh_sec_o2 Household Questionnaire - Section O: Assistance and Groups	993	17
hh_sec_p Household Questionnaire - Section P: Credit	1010	15
hh_sec_q1 Household Questionnaire - Section Q: Finance	989	33
hh_sec_q2 Household Questionnaire - Section Q: Finance	1139	23
hh_sec_r Household Questionnaire - Section R: Recent Shocks to Household Welfare	16813	8
hh_sec_s Household Questionnaire - Section S: Deaths in Household	993	20
hh_sec_u2 Household Questionnaire - Section U-2: Filter Questions	989	13
hh_sec_v Household Questionnaire - Section V: Anthropometry	4742	12
lf_filters Livestock and Fisheries Questionnaire - Filters	989	7
lf_network Livestock and Fisheries Questionnaire - Network Roster	1058	6
lf_sec_01 Livestock and Fisheries Questionnaire - Section 1: Household Roster	3003	7
lf_sec_02 Livestock and Fisheries Questionnaire - Section 2. Livestock Stock	6629	43
lf_sec_03 Livestock and Fisheries Questionnaire - Section 3. Animal Health	2869	23
lf_sec_04 Livestock and Fisheries Questionnaire - Section 4. Feed, Water, Housing, Breeding	2869	28
lf_sec_05 Livestock and Fisheries Questionnaire - Section 5. Livestock Labour	2866	25
lf_sec_06 Livestock and Fisheries Questionnaire - Section 6. Milk	2869	20
lf_sec_07 Livestock and Fisheries Questionnaire - Section 7. Animal Power and Dung	2869	11
lf_sec_08 Livestock and Fisheries Questionnaire - Section 8. Other Livestock Products	1741	15
lf_sec_09 Livestock and Fisheries Questionnaire - Section 9. Fishery- Household Labour	993	12
lf_sec_11a Livestock and Fisheries Questionnaire - Section 11. Fishing Inputs	1574	11
lf_sec_11b Livestock and Fisheries Questionnaire - Section 11. Fishing Inputs	1529	6

lf_sec_12
Livestock and Fisheries Questionnaire - Section 12. Fisheries Output

1009   42

lf_sec_13a
Livestock and Fisheries Questionnaire - Section 13. Fish Trading

1005   21

lf_sec_13b
Livestock and Fisheries Questionnaire - Section 13. Fish Trading

1124   5

lf_sec_a
Livestock and Fisheries Questionnaire - Section A- 1. Household Identification

989   32

hh_sec_a
Household Questionnaire - Section A-1 : Household Identification
Section A-2: Survey Staff Details

989   57

consumptionnps4_extended_panel
Consumption dataset

988   48