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Living Standards Measurement Study

Basic Information Document

GENERAL HOUSEHOLD SURVEY-PANEL NIGERIA UNIVERSAL PANEL DATA (NUPD)

2023

ACRONMYS

BID	--	Basic Information Document
GHS	--	General Household Survey
HH	--	Household
hhid	--	Household Identifier
Indiv	--	Individual Identifier
MOD	--	Module
NUPD	--	Nigeria Universal Panel Dataset
PH	--	Post-Harvest
PP	--	Post-Planting
UPD	--	Universal Panel Dataset
UPQ	--	Universal Panel Question

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I - INTRODUCTION

Panel data possess several advantages over conventional cross-sectional and time-series data, including their power to isolate the effects of specific actions, treatments, and general policies often at the core of large-scale econometric development studies. While the concept of panel data alone provides the capacity for modeling the complexities of human behavior, the notion of *universal* panel data - in which time- and situation-driven variances leading to variations in tools, and thus results, are mitigated - can further enhance exploitation of the richness of panel information.

This Basic Information Document (BID) provides a brief overview of the Nigerian General Household Survey (GHS) but focuses primarily on the theoretical development and application of panel data, as well as key elements of the universal panel survey instrument and datasets generated by the four rounds of the GHS. As this BID does not describe in detail the background, development, or use of the GHS itself, the wave-specific GHS BIDs should supplement the information provided here.

The Nigeria Universal Panel Data (NUPD) consists of both survey instruments and datasets from the two survey visits of the GHS - Post-Planting (PP) and Post-Harvest (PH) - meticulously aligned and engineered with the aim of facilitating the use of and improving access to the wealth of panel data offered by the GHS. The NUPD provides a consistent and straightforward means of conducting user-driven analyses using convenient, standardized tools.

The design of the NUPD combines the four completed Waves of the GHS Household Post-Planting and Post-Harvest Surveys - Wave 1 (2010/11), Wave 2 (2012/13), Wave 3 (2015/16), and Wave 4 (2018/19) - into pooled, module-specific survey instruments and datasets. The panel survey instruments offer the ease of comparability over time, with modifications and variances easily identifiable as well as those aspects of the questionnaire which have remained identical and offer consistent information. By providing all module-specific data over time within compact, pooled datasets, panel datasets eliminate the need for user-generated merges between rounds and present data in a clear, logical format, increasing both the usability and comprehension of complex data.

II - Background

GHS-Panel Household Surveys - Post-Planting and Post-Harvest: The Household Survey collects information on demographics, education, health, child immunization and development, labor and time use, food consumption and non-food expenditure, household nonfarm income generating activities, food security and shocks, conflicts, deaths, safety nets, housing conditions, asset sales and acquisition, remittances, attitudes, behavior, information and communication technology, and other sources of household income.

The Household Questionnaire is slightly different for the two visits. Some information was collected only in the post-planting visit, some only in the post-harvest visit, and some in both visits.

A. Table 1: GHS - Household Post-Planting Waves and Dates

WAVE	VISITS	GHS	DATES
1	POST- PLANTING	GHS - 2010/2011	2010/2011
2	POST- PLANTING	GHS - 2012/2013	2012/2013
3	POST- PLANTING	GHS - 2015/2016	2015/2016
4	POST- PLANTING	GHS - 2018/2019	2018/2019

B. Table 2: GHS - Household Post-Harvest Waves and Dates

WAVE	VISITS	GHS	DATES
1	POST- HARVEST	GHS - 2010/2011	February / March 2011
2	POST- HARVEST	GHS - 2012/2013	February / March 2013
3	POST- HARVEST	GHS - 2015/2016	February / March 2016
4	POST- HARVEST	GHS - 2018/2019	January / February 2019

As a panel household survey in which the same households are revisited over time, the GHS allows for the study of poverty and welfare transitions and the determinants of living standard changes. The survey instruments and datasets for the NUPD were generated following completion of the GHS 2018/19, after recognizing the value and vast quantity of the data available and the need for easily accessible and usable datasets to measure such determinants.

III - OVERVIEW

The NUPD consists of a universal panel survey instrument and universal panel datasets, presented by module and in a format similar to previously released wave-specific GHS products. This document describes fundamental elements of the NUPD, including information on Survey Instruments (Section IV), Datasets (Section V), and Module-Specific Information (Section VI). Please see the GHS BIDs for each round for detailed descriptions of the sample design used in each round and their respective implementation efforts. Sample design information pertinent to the use and comprehension of the NUPD data sets is summarized in Section VI of this document.

IV - Survey Instrument:

A - Universal Questionnaire Development

The NUPD survey instrument was developed to highlight the similarities and examine the comparability of both questions and response codes across waves and allows for easy identification of information reported in all waves of the GHS. The NUPD survey instrument includes 26 module-specific questionnaires for Post-Planting visits and 17 module-specific questionnaires for Post-Harvest visits which correlate directly to the NUPD datasets in terms of module names, variable names, variable labels, and response codes.

B - Questionnaire Layout

The format of the NUPD survey instrument is similar to previously disseminated GHS survey instruments. Each module has a questionnaire and clearly identifies if the module collects information at the individual or household level. Within each module-specific questionnaire of the NUPD survey instrument, there are four distinct sections, arranged vertically on the NUPD survey instrument: “U” the UPD, W4, W3, W2, and W1 - the latter four sections presenting each questionnaire in its original form at time of its respective dissemination.

The uppermost section of each module’s questionnaire (“U”) presents the model *universal panel questionnaire*, with questions generated from the comprehensive listing of questions across all four waves of the GHS and codes generated from the comprehensive collection of codes. The following sections are arranged vertically by wave, considering W4 as most recent, though this depends on the module covered in each wave. While not all waves will have data reported for each question in the UPD and not each question will have reports for each of the UPD codes listed, the NUPD survey instrument represents the visual, all-inclusive set of information collected by the GHS over time.

The four wave-specific sections (W4, W3, W2, W1) are aligned with their UPD-equivalent question, visually presenting their contribution to compatibility with the UPD. Each wave-specific section includes the original wave-specific questions, variable names, response codes and skip patterns (corresponding to their respective wave-specific NUPD datasets, and despite their variance from other waves or from the comprehensive UPD code listing)¹.

C - Variable Names

Variable names for NUPD questions were assigned following the comprehensive listing of questions from all four waves within each particular module and used the naming convention defined in Table 3. Therefore, the UPD variable name will not always match the original wave-specific variable name.

Moreover, those questions that seem to be identical, but the response options are either single select or multi-select across waves, are presented as two questions in UPD.

Table 3: NUPD Variable Naming Convention

EXAMPLE 1: No Subset	EXAMPLE 2: Subset Question	EXAMPLE 3: Multi-responses
Variable Name: ha_02	Variable Name: hc_27a	Variable Name: hd_14_0
where <i>h</i> = household a = module A _02 = question # two	where <i>h</i> = household c = module C 27 = question # twenty-seven a = subset of Q27	where <i>h</i> = household d = module D 14 = question # fourteen _0 = multi-response of Q14

¹ Skip patterns within the wave specific sections of questionnaires are directed to the variable name of the UPD to facilitate ease of direction, as more complicated modules often cannot maintain the conventional numerical order of variables within each of the round (W4 is again considered most recent and therefore is best preserved as the conventional structure).

D - Response Codes

Response codes for each UPD question were generated from the comprehensive listing of response codes from all four GHS waves for that particular question. Similar to the variable naming structure, since response code values for the UPQ questions were reassigned following this comprehensive listing they will not necessarily correspond to each original wave-specific response code value. The UPD code listings intend to present the all-inclusive set of information gathered at any point in time by the GHS.

E - Changes in Questions Over Rounds

Identical Questions: Whenever possible, questions that are identical or nearly identical across rounds (i.e. “What kind of toilet facility do members of your household generally use?” and “What is the main toilet facilities usually used in this household?”) are presented as a single, unified UPD question. These will be vertically aligned in the module’s questionnaire. Minor changes in question wording that are not anticipated to affect interpretation or results are noted as footnotes, but the slight variations will not be presented as unique UPD questions.

Distinct Variations of Questions: When a question is considerably different across waves (i.e. “*What measures does this household take to ensure the safety of drinking water?*” and “*What do you usually do to the water to make it safer to drink in the dry season?*”), all variations of the question will be included in the UPD questionnaire with the appropriate blackouts for the respective rounds that the UPD question is not present in. For these cases, it will be up to the user’s discretion to combine.

Prevalence of Questions: Whether a question exists in some or all of the four NUP waves, it will be included in the UPD questionnaire and will either have the respective wave-specific variables presented below it, or will have the appropriate blackouts for the respective waves that the question is not present in.

V - DATASETS

The NUP datasets were developed in accordance with the UPD survey instrument and aim to neatly present and facilitate the use of the wealth of panel data collected by the GHS. By offering compact, standardized data sets, data are readily available and pre-standardized for optimal panel analyses.

The design of the universal panel datasets combines the four waves of GHS data - GHS 2010/11 (W1), GHS 2012/13 (W2), GHS 2015/16 (W3), and GHS 2018/19 (W4) - into pooled, module-specific data sets. The NUPD consists of a total of 43 data files in Post-Planting and Post-Harvest visits, each pertaining to a single module or portion of the module (i.e. “NUP_PP_MOD_A_B.dta” and “NUP_PH_MOD_Flap_A_Roster_B.dta”). Each data file will include data for all waves that reported information on that module. The complete set of data files, as well as the level of observation, unique identifier for that module (*within* each wave), and waves of data included, are described in the tables of Section VI & VII.

Merging Datasets

In the merging process, all waves of household datasets in both the post-planting and post-harvest files contain a variable name *hhid*, which is a unique identifier for the household-level data collection. This variable is used as the unique variable in the merging of all household-level datasets. In the case of individual-level datasets, the variable that uniquely identifies the individual within the household is *indiv*. So, in order to merge any two individual-level datasets, both the *hhid* and *indiv* variables would be used.

VI - POST-PLANTING and POST-HARVEST Module Specific Information

Universal Panel Datasets (UPD)

POST-PLANTING

FLAP A - HOUSEHOLD MEMBER ROSTER			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_A_B.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2, W3, W4
<p>Description: Roster of individuals living in the household, relationship to the head, gender, date of birth.</p> <p>Original Data Files: W1: sect1_plantingw1.dta W3: sect1_plantingw3.dta W2: sect1_plantingw2.dta W4: sect1_plantingw4.dta</p> <p>Key Notes: None</p>			

POST-PLANTING

SECTION 1 - ROSTER B			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_A_B.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2, W3, W4
<p>Description: Respondent's age, marital status, spouse identification, religion, parental status, date and reason of joining household if new, migration.</p> <p>Original Data Files: W1: sect1_plantingw1.dta W3: sect1_plantingw3.dta W2: sect1_plantingw2.dta W4: sect1_plantingw4.dta</p> <p>Key Notes: This module has been combined with the above</p>			

POST-PLANTING

SECTION 2 - EDUCATION			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_C.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2
<p>Description: Ability to read, write, ever attended school, reason for non-attendance, age at entrance to school, attendance in current school year (varies by round), type of school, result of school year (varies by round), reason for non-attendance, level of completion, transportation means and time taken to get to school, scholarship obtained/amount/covered years, type of school, expenditure, highest level of school for those who attended in the past, year last attended school, class repetition and reason.</p> <p>Original Data Files: W1: sect2_plantingw1.dta W2: sect2_plantingw2.dta</p> <p>Key Notes: Household members 5 years and older completed this module.</p>			

POST-HARVEST

SECTION 2a - EDUCATION			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PH_MOD_C.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2, W3, W4
<p>Description: Educational attainment, school characteristics, expenditures, repetition.</p> <p>Original Data Files: W1: sect2a_harvestw1.dta W3: sect2_harvestw3.dta W2: sect2a_harvestw2.dta W4: sect2_harvestw4.dta</p> <p>Key Notes: Household members 5 years and older completed this module.</p>			

POST-PLANTING

SECTION 3a - LABOR			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_D.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2, W3, W4
<p>Description: Labor market participation during the last 7 days, temporary absence, job search, and wage work (includes benefits, time of work, and payment).</p> <p>Original Data Files: W1: sect3_plantingw1.dta W3: sect3_plantingw3.dta W2: sect3a_plantingw2.dta W4: sect3_plantingw4.dta</p> <p>Key Notes: Household members 5 years and above completed this module. Module NUP_PP_MOD_D2.dta is a supplementary dataset to this labor module and includes just one question at the household level for Wave 4 only.</p>			

POST-HARVEST

SECTION 3a - LABOR			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PH_MOD_D.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2, W3, W4
<p>Description: Labor market participation during the last 7 days, temporary absence, job search, and wage work (includes benefits, time of work, and payment)</p> <p>Original Data Files: W1: sect3a_harvestw1.dta W3: sect3_harvestw3.dta W2: sect3a_harvestw2.dta W4: sect3a_harvestw4.dta</p> <p>Key Notes: Household members 5 years and above completed this module. Module NUP_PP_MOD_D2.dta is a supplementary dataset to this labor module and includes just one question at the household level for Wave 4 only.</p>			

POST-PLANTING

SECTION 3b - LABOR 12 MONTHS			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_E.dta
Unique Identifier	hhid indiv	WAVES present:	W2
<p>Description: Labor market participation during the last seven days, wage work, and domestic activities within the home.</p> <p>Original Data Files: W2: sect3b_plantingw2.dta</p> <p>Key Notes: Household members 5 years and above completed this module.</p>			

POST-HARVEST

SECTION 3b - LABOR (12 MONTHS)			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PH_MOD_E.dta
Unique Identifier	hhid indiv	WAVES present:	W2
<p>Description: Labor market participation during the last seven days, wage work, and domestic activities within the home.</p> <p>Original Data Files: W2: sect3b_harvestw2.dta</p> <p>Key Notes: Household members 5 years and above completed this module.</p>			

POST-PLANTING

SECTION 3c - (LABOR 6 MONTHS)			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_F.dta
Unique Identifier	hhid indiv	WAVES present:	W2
<p>Description: Labor activity during the last six months (March 2012 to August 2012).</p> <p>Original Data Files: W2: sect3c_plantingw2.dta</p> <p>Key Notes: Household members 5 years and above completed this module.</p>			

POST-PLANTING

SECTION 3d - LABOR ACTIVITY TABLE			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_G.dta
Unique Identifier	hhid indiv	WAVES present:	W2
<p>Description: Labor market participation and summary labor activity during the last twelve months. Includes wage work, and domestic activities within the home.</p> <p>Original Data Files: W2: sect3d_plantingw2.dta</p> <p>Key Notes: Household members 5 years and above completed this module.</p>			

POST-HARVEST

SECTION 3d - LABOR ACTIVITY TABLE			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PH_MOD_G.dta
Unique Identifier	hhid indiv	WAVES present:	W1
<p>Description: Labor market participation during the last 7 days, wage work, and domestic activities in the home.</p> <p>Original Data Files: W1: sect3b_harvestw1.dta</p> <p>Key Notes: Household members 5 years and above completed this module.</p>			

POST-PLANTING

SECTION 3e - LABOR ACTIVITY SUMMARY			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_H.dta
Unique Identifier	hhid indiv	WAVES present:	W2
<p>Description: Labor market participation during the last 7 days, wage work, and domestic activities in the home.</p> <p>Original Data Files: W2: sect3e_plantingw2.dta</p> <p>Key Notes: Household members 5 years and above completed this module.</p>			

POST-PLANTING

SECTION 3B - TIME USE			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_I.dta
Unique Identifier	hhid indiv	WAVES present:	W4
<p>Description: Information on activities performed for the household including domestic work.</p> <p>Original Data Files: W4: sect3b_plantingw4.dta</p> <p>Key Notes: Household members 5 years and above completed this module.</p>			

POST-PLANTING

SECTION 4A - CREDIT, SAVINGS, AND INSURANCE			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_J.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2, W3, W4
<p>Description: Savings made, loans or credit received, insurance, remittances received by the household during the last twelve months, and conditions of the transaction. Microfinance institutions, savings association or cooperative, banking transactions including domestic and international money transfers, and type of insurances.</p> <p>Original Data Files: W1: sect4_plantingw1.dta W3: sect4a_plantingw3.dta W2: sect4a_plantingw2.dta W4: sect4a1_plantingw4.dta</p> <p>Key Notes: Household members 15 years and above completed this module. Module NUP_PP_MOD_J2.dta is a supplementary dataset to this module and includes a small set of questions on insurance at the household level for Wave 4 only.</p>			

POST-PLANTING

SECTION 4B - FINANCIAL CAPABILITY			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_K.dta
Unique Identifier	hhid indiv	WAVES present:	W2
<p>Description: Household budgeting and members' contribution to household expenses as well as household financial planning and preparation for unexpected expenses.</p> <p>Original Data Files: W2: sect4b_plantingw2.dta</p> <p>Key Notes: Household members 15 years and above completed this module.</p>			

POST-PLANTING

SECTION 4B - ICT-BANKING			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PP_MOD_L.dta
Unique Identifier	hhid indiv	WAVES present:	W3, W4
<p>Description: Ownership of mobile phone, access to mobile phone and internet, perform any banking activity using mobile phone - paying bill, transferring money, checking bank account, etc.</p> <p>Original Data Files: W3: sect4b_plantingw3.dta W4: sect4b_plantingw4.dta</p> <p>Key Notes: Household members 10 years and above completed this module.</p>			

POST-PLANTING

SECTION 4C - CREDIT			
LEVEL OF OBSERVATION	Household, Loan	UPD Data File:	NUP_PP_MOD_MC1.dta NUP_PP_MOD_MC2.dta NUP_PP_MOD_MC3.dta
Unique Identifier	hhid, hhid-lid	WAVES present:	W3, W4
<p>Description: Credit history including main reason for applying for loans, type of lender, loans received, amount of borrowed money and date of receiving the loan, loans pending, or loan refusals and loan repayment status.</p> <p>Original Data Files: W3: sect4c1_plantingw3.dta, sect4c2_plantingw3.dta, sect4c3_plantingw3.dta W4: sect4c1_plantingw4.dta, sect4c2_plantingw4.dta, sect4c3_plantingw4.dta</p> <p>Key Notes: Household members 15 years and above completed this module. Modules MC1 and MC3 are at the household level, and module MC2 is at the loan level.</p>			

POST-PLANTING

SECTION 5 - HOUSEHOLD ASSETS			
LEVEL OF OBSERVATION	Household, Item	UPD Data File:	NUP_PP_MOD_N.dta NUP_PP_MOD_N1.dta
Unique Identifier	hn_hhid	WAVES present:	W1, W2, W3, W4
<p>Description: Ownership of assets, acquisition date and current value, number of each asset owned and description of asset, status of ownership - jointly or individually owned.</p> <p>Original Data Files: W1: sect5_plantingw1.dta W1: sect5b_plantingw1.dta W2: sect5a_plantingw2.dta W2: sect5b_plantingw2.dta W3: sect5_plantingw3.dta W4: sect5_plantingw4.dta</p> <p>Key Notes: Household head or most knowledgeable person responds to this module.</p>			

POST-PLANTING

SECTION 6 - NON-FARM ENTERPRISE			
LEVEL OF OBSERVATION	Enterprise	UPD data file:	NUP_PP_MOD_O.dta
Unique Identifier	hhid entid	WAVES present:	W1, W2
<p>Description: Enterprise ownership, status, labor, value of stock, sales, business costs, and constraints to opening and operating a non-farm enterprise.</p> <p>Original Data Files: W1: sect6_plantingw1.dta W2: sect6_plantingw2.dta</p> <p>Key Notes: The owner or manager of the non-farm enterprise responds to this module.</p>			

POST-HARVEST

SECTION 9 - NON-FARM ENTERPRISE			
LEVEL OF OBSERVATION	Enterprise	UPD Data File:	NUP_PH_MOD_O.dta NUP_PH_MOD_O_2_1.dta NUP_PH_MOD_O_2_2.dta
Unique Identifier	hhid (indiv) entid	WAVES present:	W1, W2, W3, W4
<p>Description: Enterprise ownership, status, labor, value of stock, sales, and business costs.</p> <p>Original Data Files: W1: sect9_harvestw1.dta W2: sect9_harvestw2.dta W3: sect9_harvestw3.dta W3: sect9b_harvestw3.dta W4: sect9b_harvestw4.dta W4: sect9c_harvestw4.dta W4: sect9d_harvestw4.dta</p> <p>Key Notes: The owner or manager of the enterprise responds to this module. Module NUP_PH_MOD_O.dta is at the enterprise level and has information for all four waves. Module NUP_PH_MOD_O_2_1.dta is at the household level, and only was collected in waves 3 and 4. Module NUP_PH_MOD_O_2_2.dta is at the individual-enterprise level (unique identifier: hhid indiv entid) and was only collected in wave 4.</p>			

POST-HARVEST

SECTION 9a - NON-FARM ENTERPRISES			
LEVEL OF OBSERVATION	Household	UPD Data File:	NUP_PH_MOD_O_A.dta
Unique Identifier	hhid	WAVES present:	W4
<p>Description: Enterprise ownership, status, labor, value of stock, sales, and business costs.</p> <p>Original Data Files: W4: sect9a_harvestw4.dta</p> <p>Key Notes: The owner or manager of the enterprise responds to this module.</p>			

POST-PLANTING

SECTION 7A - MEALS AWAY			
LEVEL OF OBSERVATION	Food item/group	UPD Data File:	NUP_PP_MOD_P.dta
Unique Identifier	hhid item_cd	WAVES present:	W1, W2, W3, W4
<p>Description: Naira value of food consumed outside the home during the last seven days.</p> <p>Original Data Files: W1: sect7a_plantingw1.dta W2: sect7a_plantingw2.dta W3: sect7a_plantingw3.dta W4: sect7a_plantingw4.dta</p> <p>Key Notes: The most knowledgeable person/senior female household member responds to this module.</p>			

POST-HARVEST

SECTION 10A - MEALS AWAY			
LEVEL OF OBSERVATION	Food item/group	UPD Data File:	NUP_PH_MOD_P.dta
Unique Identifier	hhid item_cd	WAVES present:	W1, W2, W3, W4
<p>Description: Naira value of food and drinks prepared and consumed outside the home during the last 7 days.</p> <p>Original Data Files: W1: sect10a_harvestw1.dta W2: sect10a_harvestw2.dta W3: sect10a_harvestw3.dta W4: sect10a_harvestw4.dta</p> <p>Key Notes: The most knowledgeable household member responds to this module.</p>			

POST-PLANTING

SECTION 7B - HH FOOD CON & EXPENDITURE			
LEVEL OF OBSERVATION	Food item/group	UPD Data File:	NUP_PP_MOD_Q.dta
Unique Identifier	hhid item_cd	WAVES present:	W1, W2, W3, W4
<p>Description: Quantity and value of food consumed within the household during the last 7 days, and quantity and value of food purchased during the last 30 days.</p> <p>Original Data Files: W1: sect7b_plantingw1.dta W2: sect7b_plantingw2.dta W3: sect7b_plantingw3.dta W4: sect7b_plantingw4.dta</p> <p>Key Notes: The household member responsible for food purchases or food preparation responds to this module.</p>			

POST-HARVEST

SECTION 10B - HH FOOD CON & EXPENDITURE			
LEVEL OF OBSERVATION	Food item/group	UPD Data File:	NUP_PH_MOD_Q.dta
Unique Identifier	hhid item_cd	WAVES present:	W1, W2, W3, W4
<p>Description: Quantity and value of food consumed within the household during the last 7 days, and quantity and value of food purchased during the last 30 days.</p> <p>Original Data Files: W1: sect10b_harvestw1.dta W2: sect10b_harvestw2.dta W3: sect10b_harvestw3.dta W4: sect10b_harvestw4.dta</p> <p>Key Notes: The household member responsible for food purchases or food preparation responds to this module.</p>			

POST-PLANTING

SECTION 8 - HH NONFOOD EXPENDITURE			
LEVEL OF OBSERVATION	Item	UPD Data File:	NUP_PP_MOD_R_A.dta NUP_PP_MOD_R_B.dta NUP_PP_MOD_R_C.dta
Unique Identifier	hid item_cd	WAVES present:	W1, W2, W3, W4
<p>Description: Non-food expenditure during the last week or last 7 days/last month or last 30 days/last 6 months/last 12 months.</p> <p>Original Data Files: W1: sect81_plantingw1.dta W1: sect82_plantingw1.dta W1: sect83_plantingw1.dta W1: sect84_plantingw1.dta W1: sect85_plantingw1.dta W2: sect8a_plantingw2.dta W2: sect8b_plantingw2.dta W2: sect8c_plantingw2.dta W2: sect8d_plantingw2.dta W2: sect8e_plantingw2.dta W3: sect8a_plantingw3.dta W3: sect8b_plantingw3.dta W3: sect8c_plantingw3.dta W4: sect8a_plantingw4.dta W4: sect8b_plantingw4.dta W4: sect8c_plantingw4.dta</p> <p>Key Notes: The household member responsible for household purchases responds to this module.</p>			

POST-HARVEST

SECTION 8 - HOUSING			
LEVEL OF OBSERVATION	Household	UPD Data File:	NUP_PH_MOD_V.dta
Unique Identifier	hhid	WAVES present:	W1, W2
<p>Description: Homeownership and characteristics of home (type of roof, floor, outside wall, number of rooms, type of cookstove and cooking fuel, electricity connection, drinking water source, sanitation facility, refuse collection).</p> <p>Original Data Files: W1: sect8_harvestw1.dta W2: sect8_harvestw2.dta</p> <p>Key Notes: The household head (or most knowledgeable adult) responds to this module.</p>			

VII - POST-HARVEST Module Specific Information

Universal Panel Datasets (UPD)

The modules below are only found in the Post-Harvest Survey

SECTION FLAP A - HOUSEHOLD MEMBER ROSTER			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PHX_MOD_Flap_A_Roster_B.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2, W3, W4
<p>Description: Roster of individuals living in the household, relationship to the household head, gender, year of birth, age, marital status, spouse identification, religion, parental status, date, and reason of joining household if new, migration.</p> <p>Original Data Files: W1: sect1_harvestw1.dta W3: sect1_harvestw3.dta W2: sect1_harvestw2.dta W4: sect1_harvestw4.dta</p> <p>Key Notes: The head of household or their spouse responds to this module.</p>			

SECTION 2b - EDUCATION ORIGINAL			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PHX_MOD_C.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2
<p>Description: Educational attainment, school characteristics, and expenditures. Section 2a collects information for new members of the household while Sect 2b collects follow-up and current information on original household members for the 2010-11 academic year.</p> <p>Original Data Files: W1: sect2b_harvestw1.dta W2: sect2b_harvestw2.dta</p> <p>Key Notes: Individuals ages 3 years and above respond to this module.</p>			

SECTION 4a - HEALTH			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PHX_MOD_D.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2, W3, W4
<p>Description: General health status and utilization and cost of health services for those that need medical care. Data on effect of disabilities on activity and functioning; and anthropometrics.</p> <p>Original Data Files: W1: sect4a_harvestw1.dta W2: sect4a_harvestw2.dta W3: sect4a_harvestw3.dta W4: sect4a_harvestw4.dta</p> <p>Key Notes: None</p>			

SECTION 4B - CHILD IMMUNIZATION			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PHX_MOD_E.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2
<p>Description: Child immunization information.</p> <p>Original Data Files: W1: sect4b_harvestw1.dta W2: sect4b_harvestw2.dta</p> <p>Key Notes: The file only contains information on children one year old or younger.</p>			

SECTION 4B - CHILD DEVELOPMENT			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PHX_MOD_F.dta
Unique Identifier	hhid indiv	WAVES present:	W3
<p>Description: Information about ability to communicate and motor skills.</p> <p>Original Data Files: W3: sect4b_harvestw3.dta</p> <p>Key Notes: The mother or primary caretaker of each child between 2 and 18 years responds to this module.</p>			

SECTION 5 - INFORMATION AND COMMUNICATION TECHNOLOGY			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PHX_MOD_G.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2
<p>Description: Access to and use of communication technology, including computers and internet.</p> <p>Original Data Files: W1: sect5_harvestw1.dta W2: sect5_harvestw2.dta</p> <p>Key Notes: Individuals ages 10 years and above respond to this module.</p>			

SECTION 6 - REMITTANCES			
LEVEL OF OBSERVATION	Individual	UPD Data File:	NUP_PHX_MOD_H.dta
Unique Identifier	hhid indiv	WAVES present:	W1, W2, W3, W4
<p>Description: Remittances received from abroad by household members 10 years and older.</p> <p>Original Data Files: W1: sect6_harvestw1.dta W2: sect6_harvestw2.dta W3: sect6_harvestw3.dta W4: sect6_harvestw4.dta</p> <p>Key Notes: Individuals ages 10 years and above respond to this module.</p>			

SECTION 6A - BEHAVIOR			
LEVEL OF OBSERVATION	Household	UPD Data File:	NUP_PHX_MOD_I.dta
Unique Identifier	hhid	WAVES present:	W3
<p>Description: Data on household preferences.</p> <p>Original Data Files: W3: sect6a_harvestw3.dta</p> <p>Key Notes: The head of household, their spouse, or other senior household member responds to this module.</p>			

SECTION 6B - ATTITUDE			
LEVEL OF OBSERVATION	Item	UPD Data File:	NUP_PHX_MOD_J.dta
Unique Identifier	hhid hj_00	WAVES present:	W3
<p>Description: Data on emotional or mental state (“item”, in this case, is a particular attitude).</p> <p>Original Data Files: W3: sect6b_harvestw3.dta</p> <p>Key Notes: The head of household or other senior household member responds to this module.</p>			

SECTION 7 - ASSET SALES AND ACQUISITION			
LEVEL OF OBSERVATION	Item	UPD Data File:	NUP_PHX_MOD_K.dta
Unique Identifier	hhid hk_item_cd	WAVES present:	W1, W2
<p>Description: Household assets sale and acquisition in the past 6 months.</p> <p>Original Data Files: W1: sect7_harvestw1.dta W2: sect7_harvestw2.dta</p> <p>Key Notes: The head of household or most knowledgeable member responds to this module.</p>			

SECTION 10C - HH AGGREGATE FOOD CONSUMPTION			
LEVEL OF OBSERVATION	Item	UPD Data File:	NUP_PHX_MOD_L.dta NUP_PHX_MOD_L_1.dta NUP_PHX_MOD_L_2.dta
Unique Identifier	hhid item_cd	WAVES present:	W1, W2, W3, W4
<p>Description: Number of days the household consumed each food group item during the last 7 days.</p> <p>Original Data Files: W1: sect10c_harvestw1.dta W2: sect10c_harvestw2.dta W3: sect10c_harvestw3.dta W4: sect10c_harvestw4.dta</p> <p>Key Notes: The member responsible for food preparation or food purchases responds to this module. Module L1 is only at the household level.</p>			

SECTION 14 - SAFETY NETS			
LEVEL OF OBSERVATION	Household	UPD Data File:	NUP_PHX_MOD_M.dta
Unique Identifier	hhid hm_snet_cd	WAVES present:	W1, W2, W3, W4
<p>Description: Household access to and utilization of safety nets.</p> <p>Original Data Files: W1: sect14_harvestw1.dta W2: sect14_harvestw2.dta W3: sect14_harvestw3.dta W4: sect14_harvestw4.dta</p> <p>Key Notes: The head of household or most knowledgeable member responds to this module.</p>			

SECTION 15a - SHOCKS			
LEVEL OF OBSERVATION	Shock	UPD Data File:	NUP_PHX_MOD_N.dta
Unique Identifier	hhid hn_shock_cd	WAVES present:	W1, W2, W3, W4
<p>Description: Economic shocks affecting the household and coping mechanism adopted by the household.</p> <p>Original Data Files: W1: sect15a_harvestw1.dta W2: sect15a_harvestw2.dta W3: sect15a_harvestw3.dta W4: sect15a_harvestw4.dta</p> <p>Key Notes: The head of household or most knowledgeable member responds to this module.</p>			

SECTION 15b - DEATHS			
LEVEL OF OBSERVATION	Household	UPD Data File:	NUP_PHX_MOD_O.dta
Unique Identifier	hhid	WAVES present:	W1, W2, W3
<p>Description: Deaths of household members in the past 12 months, including age of deceased and cause of death.</p> <p>Original Data Files: W1: sect15b&b1_harvestw1.dta W2: sect15b2&b1_harvestw2.dta W3: sect15b2&b1_harvestw3.dta</p> <p>Key Notes: The head of household or most knowledgeable member responds to this module.</p>			

SECTION 15C - CONFLICT			
LEVEL OF OBSERVATION	Event	UPD Data File:	NUP_PHX_MOD_P.dta
Unique Identifier	hhid hp_event_cd	WAVES present:	W3
<p>Description: Data on the frequency of various types of violence experienced by any member of the household.</p> <p>Original Data Files: W3: sect15c_harvestw3.dta</p> <p>Key Notes: None</p>			

VIII- APPENDIX

A - Section Coverage in Nigeria Universal Panel Questionnaire (NUPQ)

POST-PLANTING AND POST-HARVEST Combined

MODULES NAME	UNIVERSAL MODULES CODE	POST PLANTING				MODULES NAME	POST HARVEST				PH Modules combined w/ PP HH_Universal
		WAVE 1	WAVE 2	WAVE 3	WAVE 4		WAVE 1	WAVE 2	WAVE 3	WAVE 4	
FLAP A	A	P	P	P	P						
SECTION 1-ROSTER	B	P	P	P	P						
SECTION 2-EDUCATION	C	P	P			SECTION 2A- EDUCATION-NEW	✓	✓	✓	✓	P
SECTION 3-LABOR	D	P		P	P	SECTION 3-LABOR			✓	✓	P
SECTION3A-LABOR			P								
SECTION 3B-LABOR 12 MONTHS	E		P			SECTION 3A-LABOR	P	P	P		P
SECTION 3C-LABOR 6 MONTHS	F		P			SECTION 3B-LABOR 12 MONTHS		P			P
SECTION 3D-LABOR ACTIVITY TABLE	G		P								
SECTION 3E-LABOR ACTIVITY SUMMARY	H		P			SECTION 3B-ACTIVITY TABLE	P				P
SECTION 3B-TIME USE	I				P						
SECTION 4A-CREDIT_SAVINGS_INSURANCE	J			P	P						
SECTION 4-CREDIT SAVINGS		✓	P								
SECTION 4B-FINANCIAL CAPABILITY	K		P								
SECTION 4B-ICT-BANKING	L			P	P						
SECTION 4C-CREDIT	M			P	P						
SECTION 5-HH ASSETS	N			P	P						
SECTION 5-ASSETS		P	P								
SECTION 6-NON-FARM ENTERPRISES	O	P	P			SECTION 9- NON-FARM ENTERPRISES - 2 & 3	P	P		P	P
								P	P		
	1_0					SECTION 9-NONFARM ENTERPRISES				P	Note: This module is not combined with PP HH as no questions found in PP HH Module matched with questions in this section
SECTION 7A-MEALS AWAY	P	P		P	P	SECTION 9 NON-FARM ENTERPRISES - 1					
SECTION 7A-MEALS OUTSIDE HH				P							
SECTION 7B-HH FOOD CON & EXP	Q	P	P	P	P	SECTION 10A-MEALS OUTSIDE HH	P	P	P	P	P
SECTION 8-HH NONFOOD EXP	R	P	P	P	P	SECTION 10B-HH FOOD CON & EXP	P	P	P	P	P
SECTION 9-FOOD SECURITY	S	P	P	P	P	SECTION 11-HH NON-FOOD EXP	P	P	P	P	P
SECTION 9B-SUBJECTIVE WELLBEING	T			P		SECTION 12-FOOD SECURITY	P	P	P	P	P
SECTION 10-OTHER INCOME	U	P	P								
SECTION 11-HOUSING	V			P	P	SECTION 13-OTHER INCOME	P	P	P	P	P
						SECTION 8-HOUSING	P	P			P

B - Section Coverage in Nigeria Universal Panel Questionnaire (NUPQ)

POST-HARVEST

MODULES NAME	UNIVERSAL MODULES CODE	WAVE 1	WAVE 2	WAVE 3	WAVE 4
FLAP	A	P	P	P	P
SECTION 1 - ROSTER	B	P	P	P	P
SECTION 2B - EDUCATION - ORIGINAL	C	P	P		
SECTION 4 - HEALTH	D			P	P
SECTION 4A - HEALTH		P	P		
SECTION 4B - CHILD IMMUNIZATION	E	P	P		
SECTION 4B - CHILD DEVELOPMENT	F			P	
SECTION 5 - INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)	G	P	P		
SECTION 6 - REMITTANCES	H	P	P	P	P
SECTION 6A - BEHAVIOR	I			P	
SECTION 6B - ATTITUDE	J			P	
SECTION 7 - ASSET SALES & ACQUISITION	K	P	P		
SECTION 10C - HH AGGREGATE FOOD CONSUMPTION	L	P	P	P	P
SECTION 14 - SAFETY NETS	M	P	P	P	P
SECTION 15A - SHOCKS	N	P	P	P	P
SECTION 15B - DEATHS	O	P	P	P	
SECTION C - CONFLICTS	P			P	

C - Post Planting and Post-Harvest Combined Household Questionnaire

WAVE 1				WAVE 2				WAVE 3				WAVE 4				UPQ		UPQ	
Section	PP	Section	PH	Section	PP	Section	PH	Section	PP	Section	PH	Section	PP	Section	PH	Post Planting		Post Harvest	
A-1	Household Identification, Name of HH head, and Survey staffs details	A-1	Household Identification, Name of HH head, and Survey staff details	A-1	Household Identification, Name of HH head, and Survey staff details	A-1	Household Identification, Name of HH head, and Survey staff details	A-1	Household Identification, Name of head, and Survey staff details	A-1	Household Identification, Name of head, and Survey staff details	A-1	Household Identification, Name, and Phone # of HH head, Survey staff details	A-1	Household Identification, Name, and Phone # of HH head, Survey staff details	A-1	Household Identification, Name, and Phone # of HH head, Survey staff details	A-1	Household Identification, Name, and Phone # of HH head, Survey staff details
FLAP-A	Household Member Roster	FLAP-A	Household Member Roster	FLAP-A	Household Member Roster	FLAP-A	Household Member Roster	FLAP-A	Household Member Roster	FLAP-A	Household Member Roster	FLAP-A	Household Member Roster	FLAP-A	Household Member Roster	FLAP-A	Household Member Roster	FLAP-A	Household Member Roster
1	Household Member Roster	1	Household Member Roster	1	Household Member Roster	1	Household Member Roster	1	Household Member Roster	1	Household Member Roster	1	Household Member Roster	1	Household Member Roster	1	Household Member Roster	1	Household Member Roster
2	Education	2b	Education ORIGINAL	2	Education	2b	Education ORIGINAL			2	Education			2	Education	2	Education	2	Education
		2a	Education NEW			2a	Education NEW											2a	Education NEW
3	Labor	3a	Labor	3a	Labor	3a	Labor	3	Labor	3	Labor	3	Labor	3	Labor	3a	Labor	3	Labor
												3b	Time use			3b	Time use		
				3b	Labor - 12 Months	3b	Labor - 12 Months									3b	Labor - 12 Months	3b	Labor - 12 Months
				3c	Labor - 6 Months											3c	Labor - 6 Months		
		3b	Labor - Activity Table	3d	Labor - Activity Table											3d	Labor - Activity Table	3b	Labor - Activity Table
				3e	Labor - Activity Summary											3e	Labor - Activity Summary		
4	Credit and Savings			4A	Credit and Savings											4A	Credit and Savings		
				4B	Financial Capability											4B	Financial Capability		
								4A	Savings & Insurance			4A	Savings & Insurance			4A	Savings & Insurance		
		4a	Health			4a	Health			4	Health			4	Health			4	Health
		4b	Child Immunization			4b	Child Immunization											4b	Child Immunization
										4b	Child Development							4b	Child Development
		5	ICT			5	ICT	4B	ICT-Banking			4B	ICT-Banking			4B	ICT-Banking	5	ICT

WAVE 1				WAVE 2				WAVE 3				WAVE 4				UPQ		UPQ	
Section	pp	Section	PH	Section	pp	Section	PH	Section	pp	Section	PH	Section	pp	Section	PH	Post-Planting		Post-Harvest	
		6	Remittances			6	Remittances			6	Remittances			6	Remittances			6	Remittances
										6A	Behaviors							6A	Behaviors
										6B	Attitude							6B	Attitude
										FLAP B	IGA Roster							FLAP B	IGA Roster
								4C	Credit			4C	Credit			4C	Credit		
5	Assets	7	Assets Acquisition	5	Assets	7	Assets Acquisition	5	Assets			5	Assets			5	Assets	7	Assets Acquisition
6	Non-farm Enterprise	9	Non-farm Enterprise	6	Non-farm Enterprise	9	Non-farm Enterprise (1 & 2)			9	Non-farm Enterprise (1 & 2)			9	Non-farm Enterprise (1, 2 & 3)	6	Non-farm Enterprise	9	Non-farm Enterprise (1, 2 & 3)
7A	Meals outside HH	10A	Meals outside HH	7A	Meals outside HH	10A	Meals outside HH	7A	Meals outside HH	10A	Meals outside HH	7A	Meals away	10A	Meals outside HH	7A	Meals away	10A	Meals outside HH
7B	HH Food Expenditure	10B	HH Food Con. & Expenditure	7B	HH Food Con. & Expenditure	10B	HH Food Con. & Expenditure	7B	HH Food Con. & Expenditure	10B	HH Food Con. & Expenditure	7B	HH Food Con. & Expenditure	10B	HH Food Con. & Expenditure	7B	HH Food Con. & Expenditure	10B	HH Food Con. & Expenditure
		10C	Aggregated Food Consumption			10C	Aggregated Food Consumption			10C	Aggregated Food Consumption			10C	Aggregated Food Consumption			10C	Aggregated Food Consumption
8	HH Non-food Expenditure	11	HH Non-food Expenditure	8	HH Non-food Expenditure	11	HH Non-food Expenditure	8	HH Non-food Expenditure	11	HH Non-food Expenditure	8	HH Non-food Expenditure	11	HH Non-food Expenditure	8	HH Non-food Expenditure	11	HH Non-food Expenditure
9	Food Security	12	Food Security	9	Food Security	12	Food Security	9	Food Security	12	Food Security	9	Food Security	12	Food Security	9	Food Security	12	Food Security
								9B	Subjective Wellbeing							9B	Subjective Wellbeing		
10	Other Income	13	Other Income	10	Other Income	13	Other Income			13	Other Income			13	Other Income	10	Other Income	13	Other Income
		8	Housing			8	Housing	11	Housing			11	Housing			11	Housing	8	Housing
		14	Safety Nets			14	Safety Nets			14	Safety Nets			14	Safety Nets			14	Safety Nets
		15a	Shocks			15a	Shocks			15a	Shocks			15a	Shocks			15a	Shocks
		15b	Deaths			15b	Deaths			15b	Deaths							15b	Deaths
										15c	Conflict							15c	Conflict