



NATIONAL BUREAU OF STATISTICS

2019 Poverty and Inequality in Nigeria: Executive Summary

Full Report Will Be Published At A Later Date

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CONTENTS

Poverty In Nigeria, 2019: Measurement And Estimates	1
Executive Summary	1
Poverty Measurement	1
Construction of official poverty lines	3
Poverty Measurement	4
Poverty rates	5
Annex	23
Acknowledgment and Contact	25

POVERTY IN NIGERIA, 2019: MEASUREMENT AND ESTIMATES

Executive Summary

1. **The Nigerian Living Standards Survey (NLSS) is the official survey that is the basis for measuring poverty and living standards.** Between September of 2018 and October of 2019, the National Bureau of Statistics (NBS) conducted the latest round of the NLSS after a decade. It is representative at the state level with a sample size of 22,110 households, focusing on increasing the understanding of living conditions of the Nigerian population. The survey collected data on household and individual demographics (age, gender, marital status, among others), access to education, health and basic services, employment, assets, and income. The survey is used to measure prevalence of poverty and to estimate a wide range of socio-economic indicators including benchmarking of the Sustainable Development Goals.
2. **Several important methodological improvements were implemented in NLSS 2018-19 compared to the last official survey from 2009-10.** First, the NLSS was designed and collected using Computer Assisted Personal Interviewing (CAPI) software on tablet devices. This significantly improved quality and speed of data collection and processing. Second, by administering a seven-day recall food consumption module instead of a month-long diary (as done previously), the survey improved accuracy and cost-effectiveness of collecting food expenditures data. In addition, extra effort was made to measuring food quantities where households used non-standard units of measurement that resulted in better quantification of food consumption.
3. **These improvements in questionnaire design and survey implementation techniques have produced an overall outcome of high-quality data.** With the support of the World Bank, the NBS adopted best practice in the collection and processing of household data. As is often the case, making such improvements often comes at the expense of giving up some degree of comparability with past rounds while achieving high standards in survey practice. Recognizing the benefits that come with a better survey infrastructure, a deliberate decision was made to use NLSS 2018-19 as a new and improved baseline for Nigeria's living standards survey system. One key indicator of survey quality is whether households agree to participate in the survey. The NLSS had an impressive response rates of over 95 percent.

Poverty Measurement

4. **Poverty is measured using consumption expenditures rather than income in Nigeria— similar to the approach taken by many other countries globally.** Conceptually, consumption expenditures as opposed to income better reflects the achievement of a particular level of welfare (or “utility”) by a household, while income represents the opportunity of reaching a certain level of well-being.

Practically, the calculation of consumption expenditures has an advantage of being comparatively easier to tabulate, since household income may come from multiple sources, across different seasons, it can be difficult to remember and track. But more importantly, households rarely report income with an acceptable degree of accuracy, possibly because of concerns of tax implications or privacy.

5. **The measurement of consumption using NLSS 2018-19 adopts a comprehensive approach to understanding monetary welfare.** The “consumption aggregate” is the monetary value of food and non-food goods and services consumed by the household. Thus, the consumption aggregate has the following main components: (i) expenditures on food, from all sources, including from purchased, self-production and gifted, and meals; (ii) schooling and education expenditures; (iii) expenditures related to health care of household members; (iv) housing expenditures; and (v) expenditures on other non-food goods and services, like clothing, small appliances, fuel, recreation, household items and repairs, etc. Once all components are calculated and added up for each household, the ensuing nominal consumption aggregate is adjusted for household size and regional price differences.
6. **In order to compare household consumption across Nigeria, nominal prices are adjusted. Nominal expenditures are affected by substantial price differences between regions of a country.** In addition, there are temporal price differences, whereby prices faced by household at the beginning of the survey might differ from prices at the end of the survey timeline (due to inflation). To ensure the comparability of aggregate consumption across geographical areas and survey months, an adjustment deflator is calculated and applied. The price deflator for NLSS 2018-19 was obtained by constructing a Paasche index of food unit values where the relative prices are weighted by the budget share of the item from the household itself. The Paasche index usually works better when there are significant differences in relative prices faced across regions within a country and if the hypothetical reference household is not representative of the significant parts of the country; it allows the most flexibility of incorporating the regional differences in the prices and budget shares. The adjustment of nominal household consumption expenditure aggregate by household composition and regional deflator results in real per capita total consumption expenditure, which represents individual welfare and thus can be used to rank individuals from the poorest to the richest.
7. **The identification of the poor and calculation of poverty rates requires establishing a poverty line.** The poor are defined as those who subsist below the poverty line, while the non-poor have consumption expenditures higher than the poverty threshold. An “absolute” poverty line is fixed in quantitative terms at a specific welfare level. It represents the minimum amount of consumption below which persons are considered poor. It also allows for measuring changes in poverty over time or across regions can be consistently tracked. The absolute poverty line for Nigeria was previously calculated in 2004 but has become outdated given the structural changes in the survey instrument and household consumption patterns.

Construction of official poverty lines

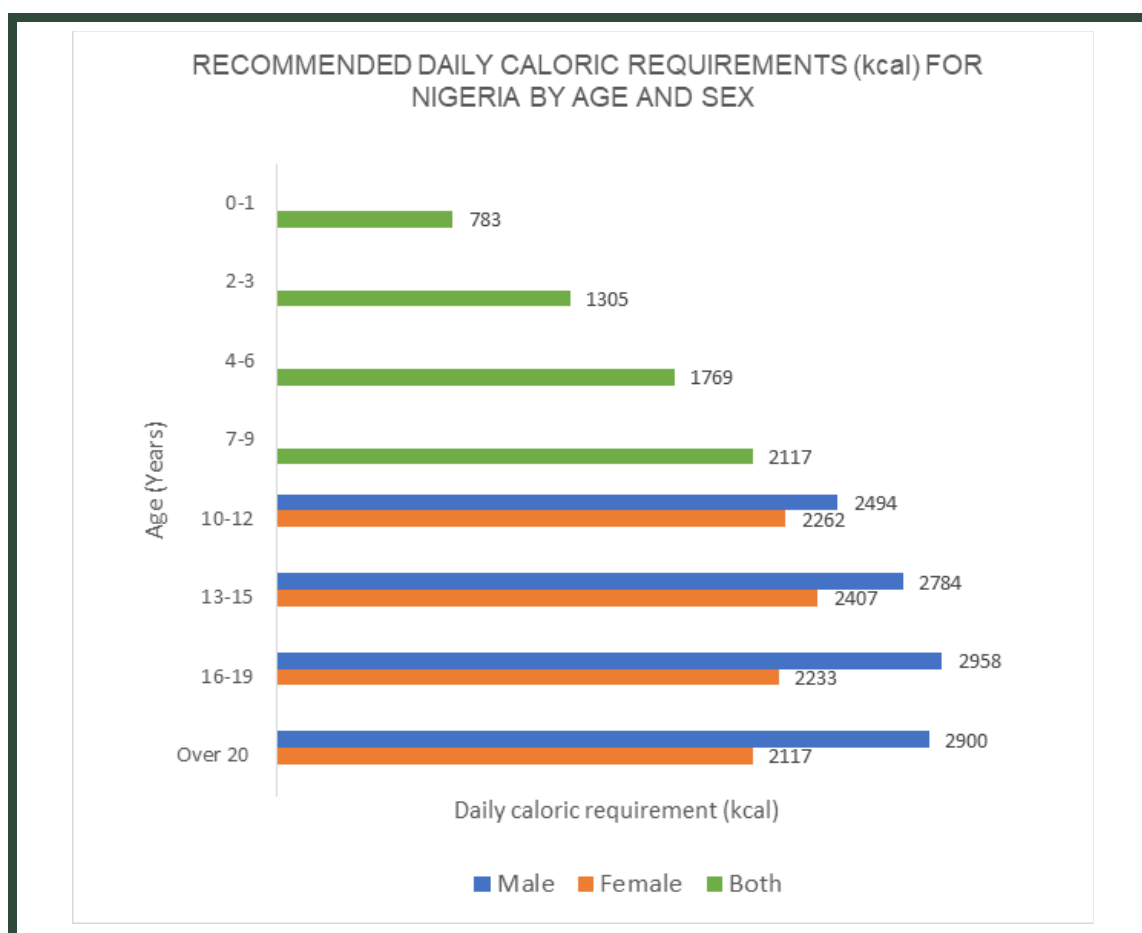
8. **The official poverty line should be interpreted as the monetary value of the food and non-food expenditures needed for an individual to achieve a basic level of welfare.** This is often referred to as a “cost of basic needs” approach. The poverty line is anchored in the minimum nutritional requirement of individuals and calculated in two steps.
9. **The first step requires computing the cost of the minimum nutritional basket.** This minimum nutritional requirement is expressed in terms of caloric intake derived from Nigeria's caloric allowances table. The table below shows the daily caloric requirements, disaggregated by sex and age groups.

Table 1: Daily recommended caloric allowances for Nigeria, by age and sex

Age group (in years)	Caloric Requirement (in kcal)	
	Female	Male
0-1	783	
02-Mar	1305	
04-Jun	1769	
07-Sep	2117	
10-Dec	2262	2494
13-15	2407	2784
16-19	2233	2958
20 and higher	2117	2900

Based on the table of caloric allowances and Nigeria's latest demographic profile, i.e., distribution of population by age and sex, derived directly from NLSS 2018-19, the per capita calorie requirement is calculated in two steps. First, the caloric allowances are summed up across all individuals in different age and sex groups, then that aggregate is divided by the total population. The average per capita calorie allowance was calculated for Nigeria at 2251 calories per day, which serves as a nutritional reference value for food poverty threshold in 2019.

10. **Next, to obtain the monetary value of 2251 calories, the food basket of households in the second through the fifth deciles ranked by real per capita consumption expenditures are selected and aggregates of food expenditures and calorie intakes for this group are calculated.** Based on the aggregates, the cost per calorie is derived, which is then multiplied by minimum nutritional requirement of 2251 calories. Thus, the food poverty line is estimated at 81,767 Naira per person per year.



Poverty Measurement

11. **The second step is computing non-food component of the poverty line.** The welfare of an individual depends not only on nutritional intake, but also on consumption of non-food goods and services, such as clothing, housing, education and health care. In the second stage, the food poverty line needs to be translated into a threshold that also incorporates the expenditure required to attain basic non-food needs. There are two ways of defining the basic non-food needs, which produce lower and upper bounds of poverty lines.
12. **The lower bound of the non-food poverty line is defined as the average of non-food expenditures among households whose total expenditures is close to the value of food poverty line.** Such households' non-food expenditure should be considered as absolutely necessary for sustaining the minimum living standards, simply because any amount of spending on non-food items for such households necessarily reduces their food expenditure below what is required to attain the minimum calorie requirement.
13. **The upper bound of the non-food poverty line is defined as the average per-capita non-food expenditure of households whose per capita food expenditure is close to the food poverty line.** The rationale for such an "upper bound" is that, the average non-food expenditures among households whose food expenditure is around the food poverty line is applicable to households

that no longer need to sacrifice food expenditures necessary to meet the minimum calorie requirement in order to consume nonfood items. Given that even the poor need to spend money on non food goods and services to sustain minimum living standards, the upper bound is used in Nigeria to set the non-food allowance.

14. **The national poverty line is then calculated by adding food poverty line and cost of non-food basic needs.** This results in value of poverty line equal to 137,430 Naira per person per year. The implication of this value is as follows: the individuals living in households whose per capita annual consumption expenditures is below 137,430 Naira are considered poor by national standards.

Table 2: Values of food, total lower and upper levels of poverty lines in Nigeria in 2019 (in Naira)

Annual food line	Annual lower line	Annual upper line
81,767	124,948	137,430

Source: Nigeria Living Standards Survey, 2018-19.

Note: The estimates exclude Borno state.

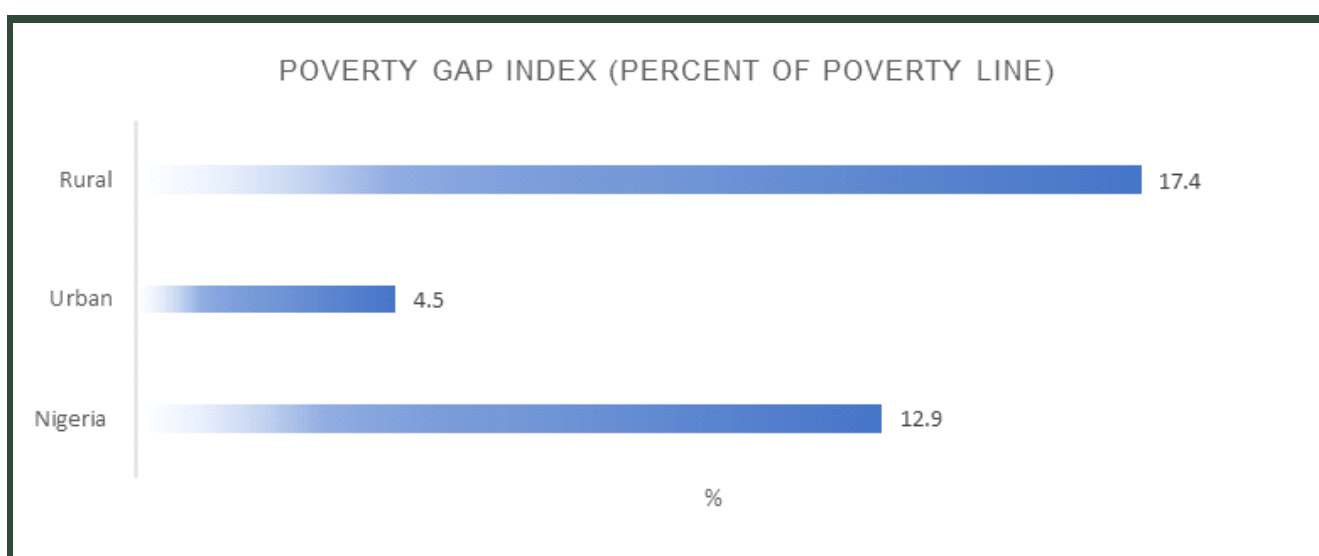
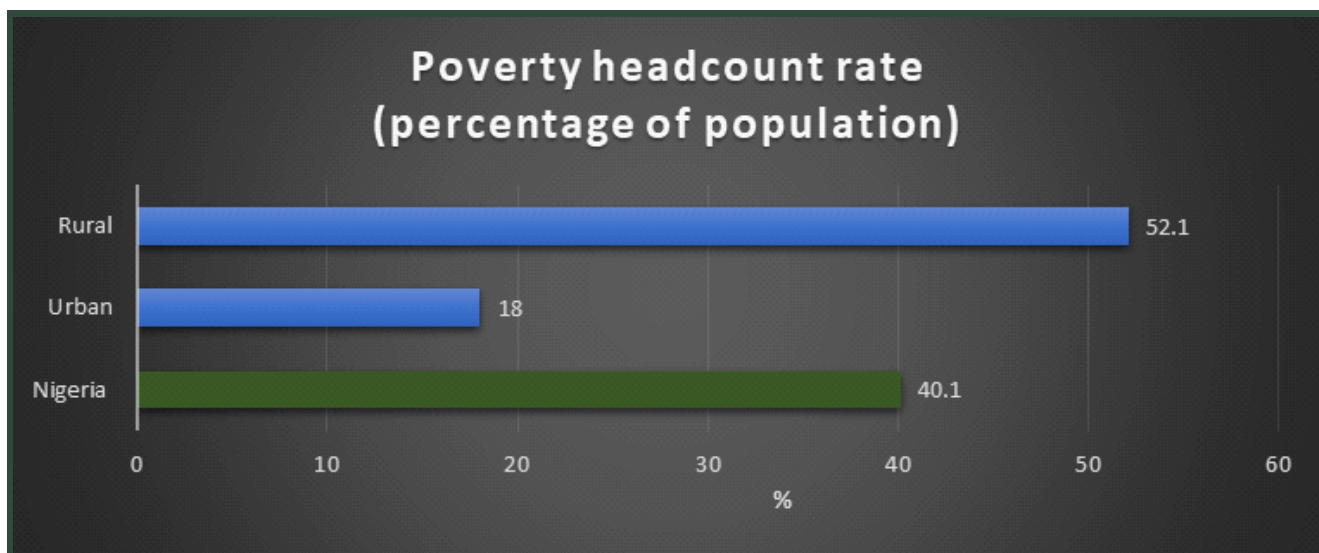
Poverty rates

15. **The national poverty line is based on a welfare aggregate—regionally adjusted per capita consumption expenditures across all households.** As such, it is possible to apply the national poverty line to the consumption aggregate to estimate the poverty and inequality indicators across all states. Three indicators are of particular interest and policy use: poverty headcount ratio, poverty gap and Gini index. The headcount ratio defines the proportion of population that is living in the households where the value of per capita total consumption expenditure is below or equal to the poverty line. Poverty gap measures the depth of poverty. In other words, the distinction could be made between those who are just a little below the poverty line and those who are significantly below the line. The poverty gap index measures the extent to which a person falls below the poverty line as a percentage of the poverty line. Gini index is a statistical measure of expenditure distribution in the country. It is widely used as a measure of economic inequality. Gini index ranges from near 0, which would indicate perfect equality and 100 -perfect inequality.

Table 3: Poverty and inequality indicators in Nigeria in 2019

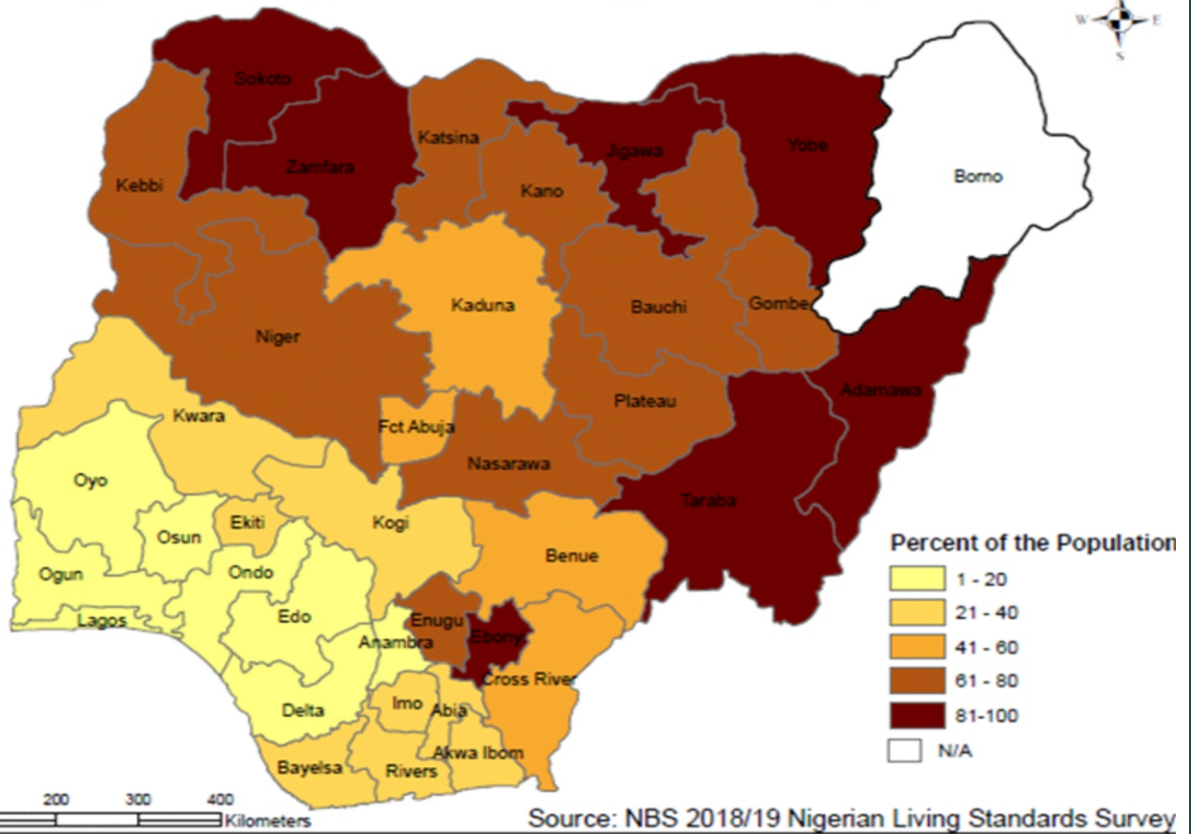
	Poverty headcount rate, in percent of population in strata	Poverty gap index, in percent of poverty line	Gini coefficient
NIGERIA	40.1	12.9	35.1
Urban	18	4.5	31.9
Rural	52.1	17.4	32.8

Source: Nigeria Living Standards Survey, 2018-19. Note: The estimates exclude Borno state.

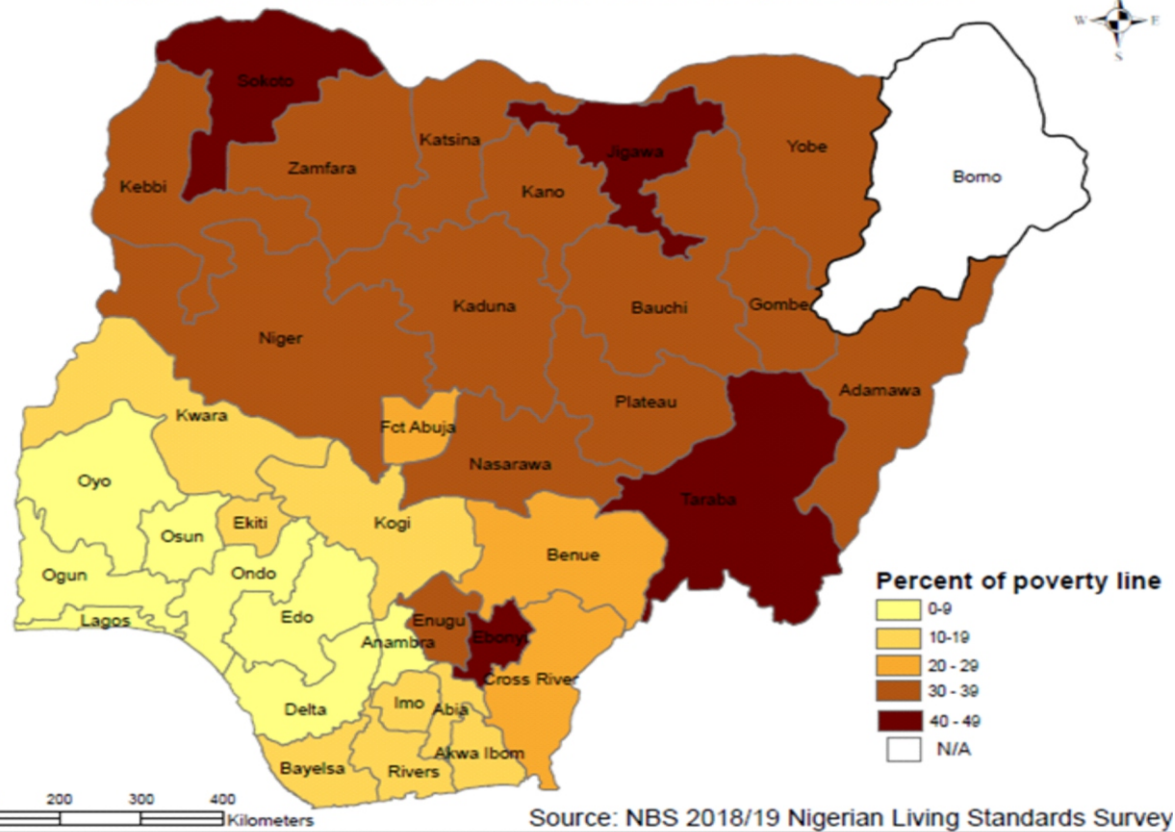


16. **In Nigeria 40.1 percent of total population were classified as poor.** In other words, on average 4 out of 10 individuals in Nigeria has real per capita expenditures below 137,430 Naira per year. This translates to over 82.9 million Nigerians who are considered poor by national standards. It is important to note, that this number excludes the state of Borno. While the NLSS 2018-19 includes households from Borno, that sample was not representative of the whole state since only households from “accessible” (safe to visit, areas only) were interviewed. Thus, the Borno sample is considered non-random and non-representative.

Nigeria: Poverty headcount rate, percent of population

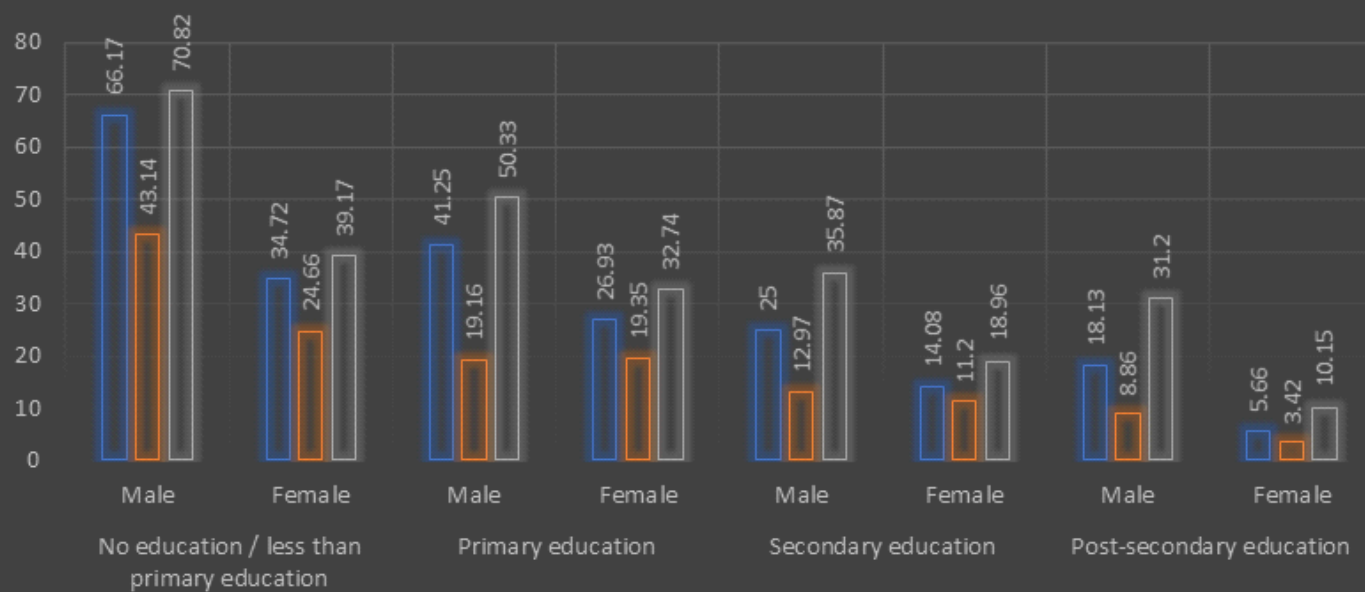


Nigeria: Poverty gap index, percent of poverty line

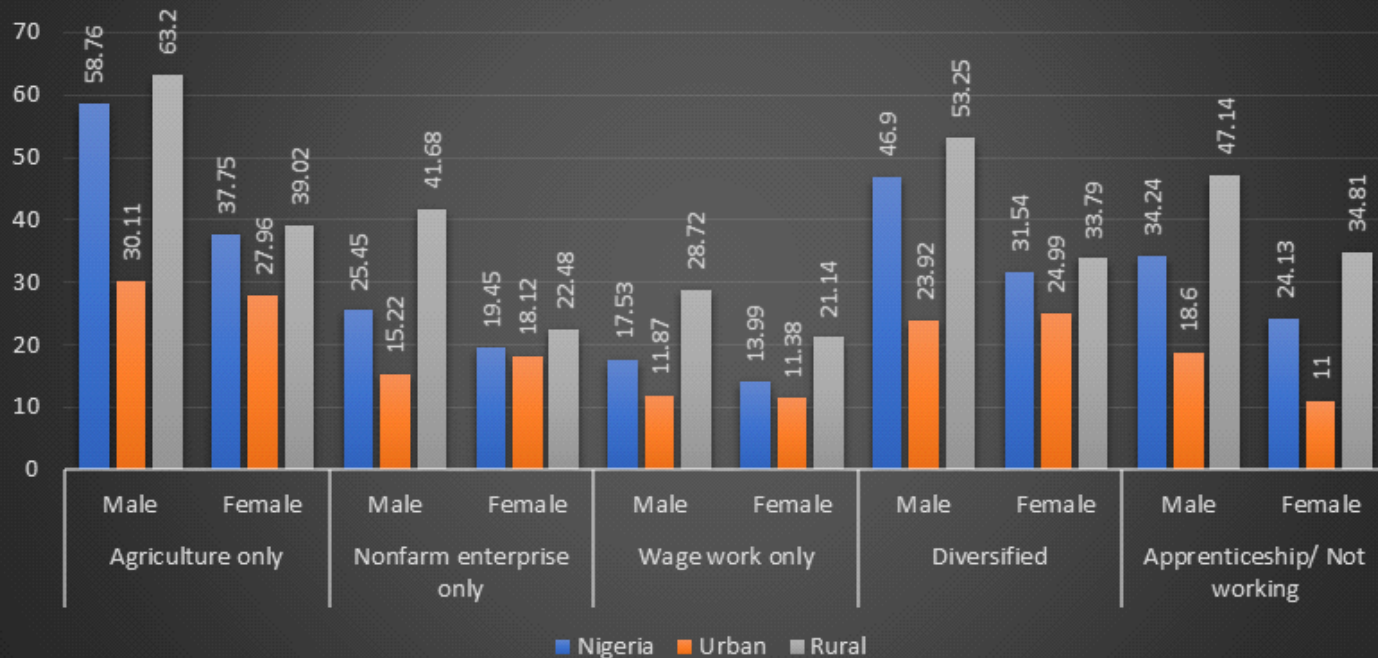


Poverty Headcount Rate by Educational level and Sex of Household Head (%)

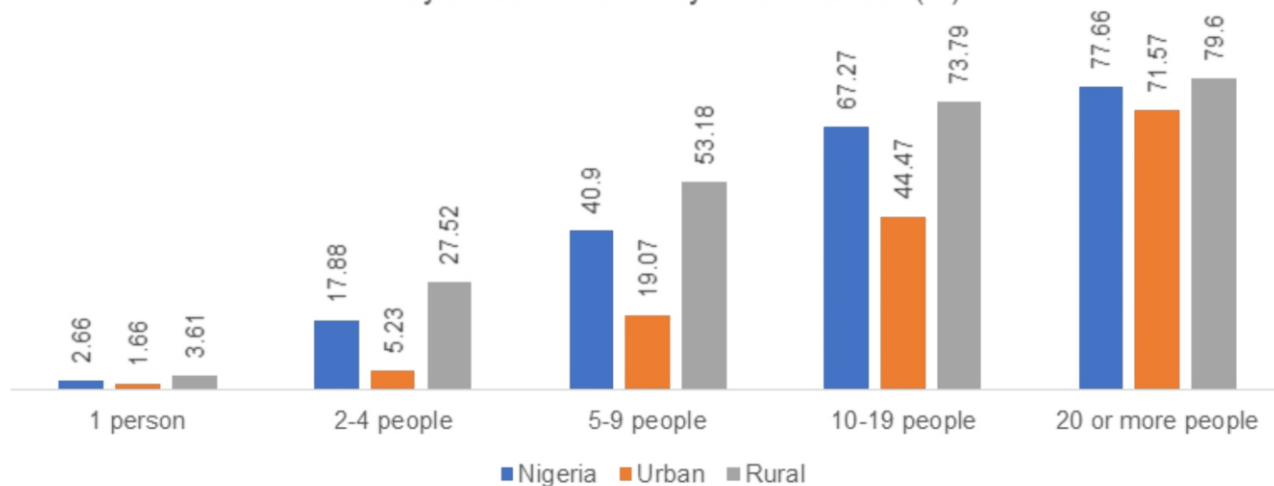
■ Nigeria ■ Urban ■ Rural



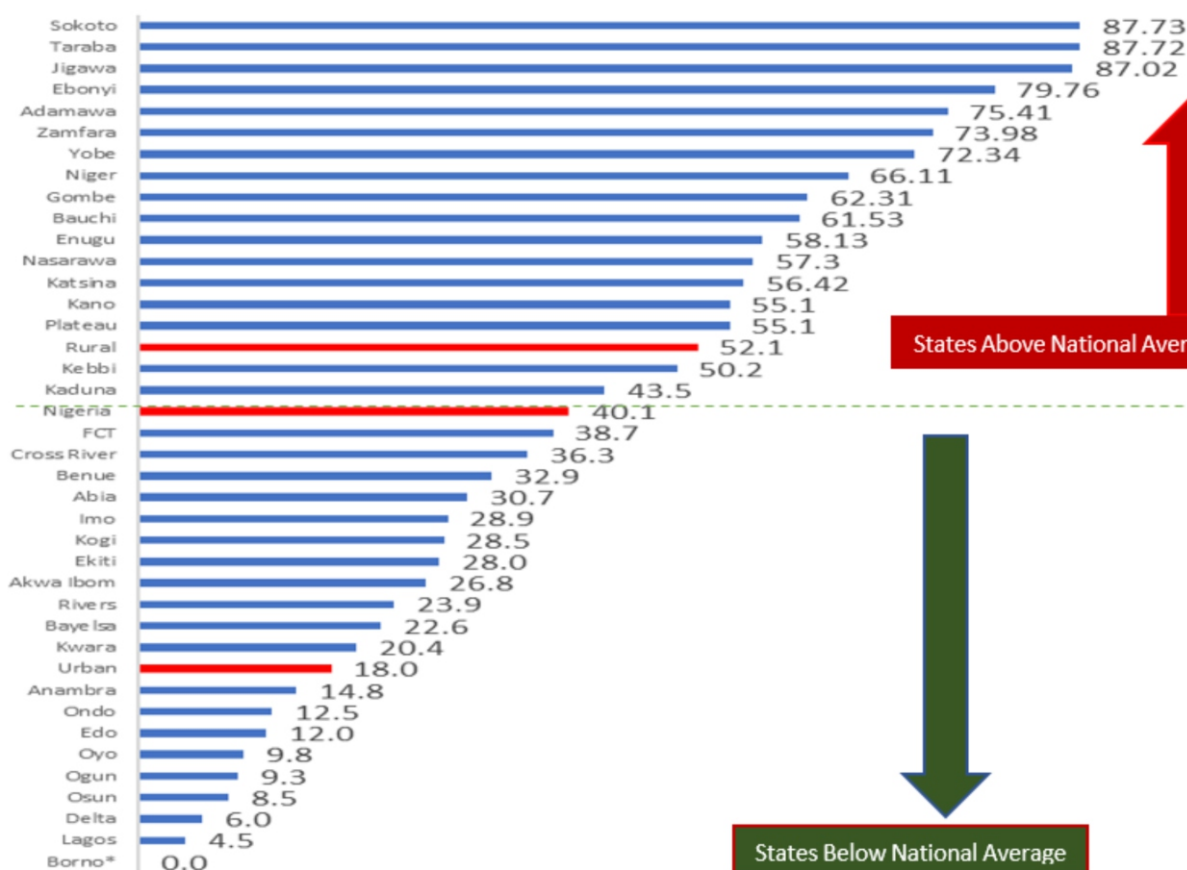
Poverty Headcount Rate by Income-generating activity and Sex of Household Head (%)



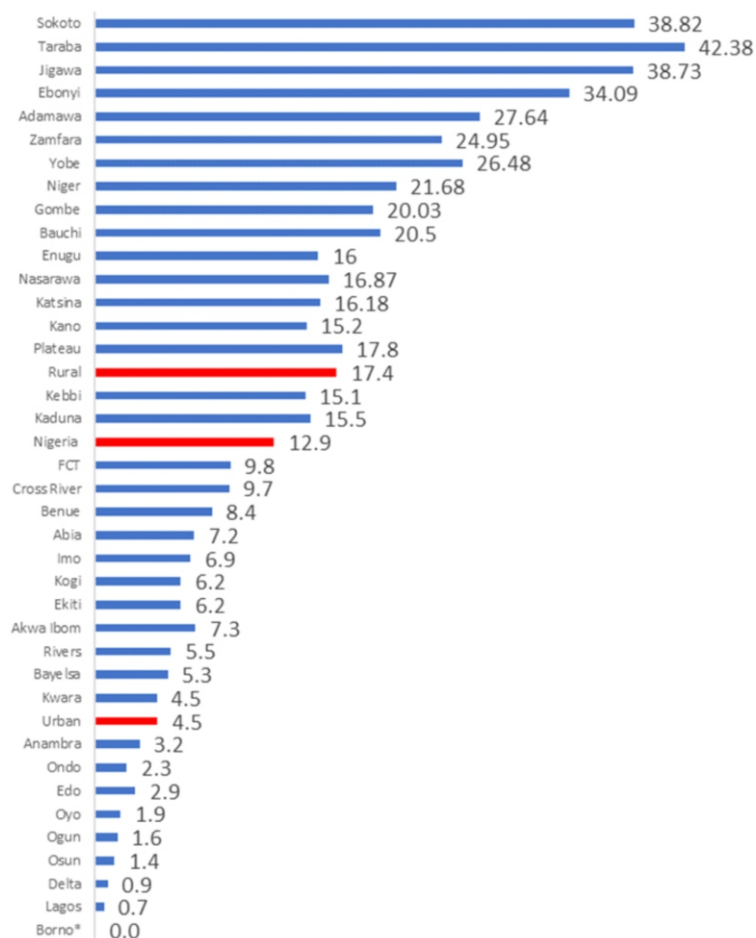
Poverty Headcount Rate by Household Size (%)



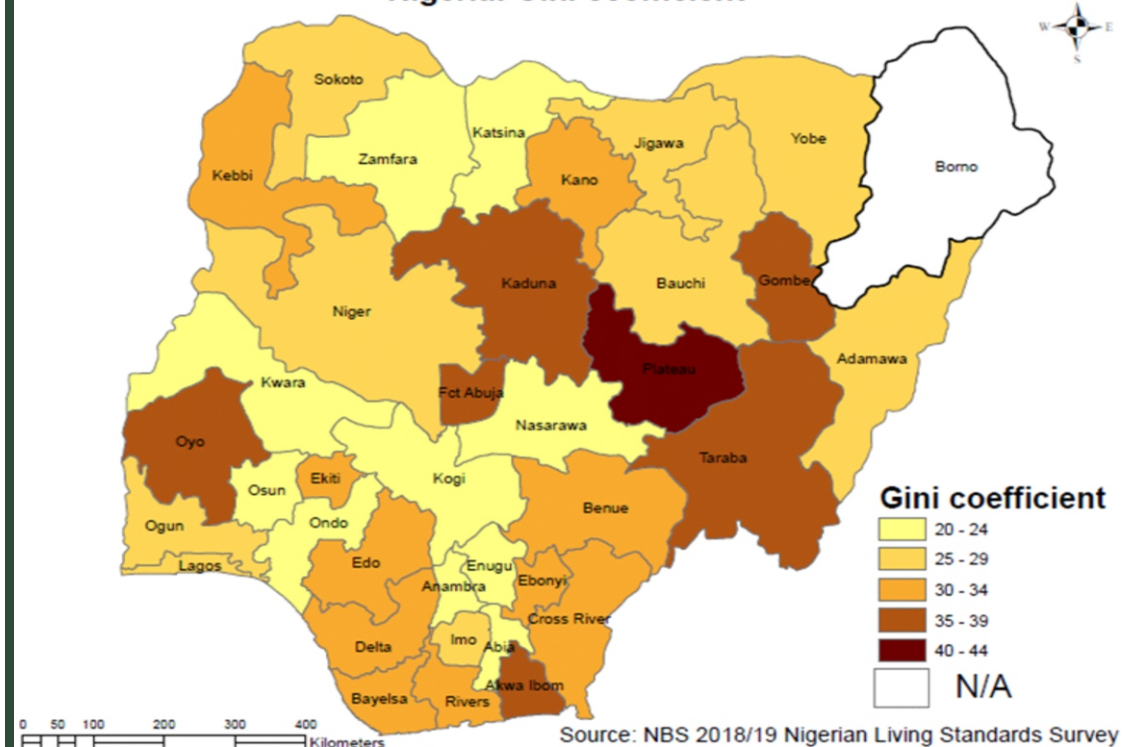
Poverty headcount rate (percentage of population)

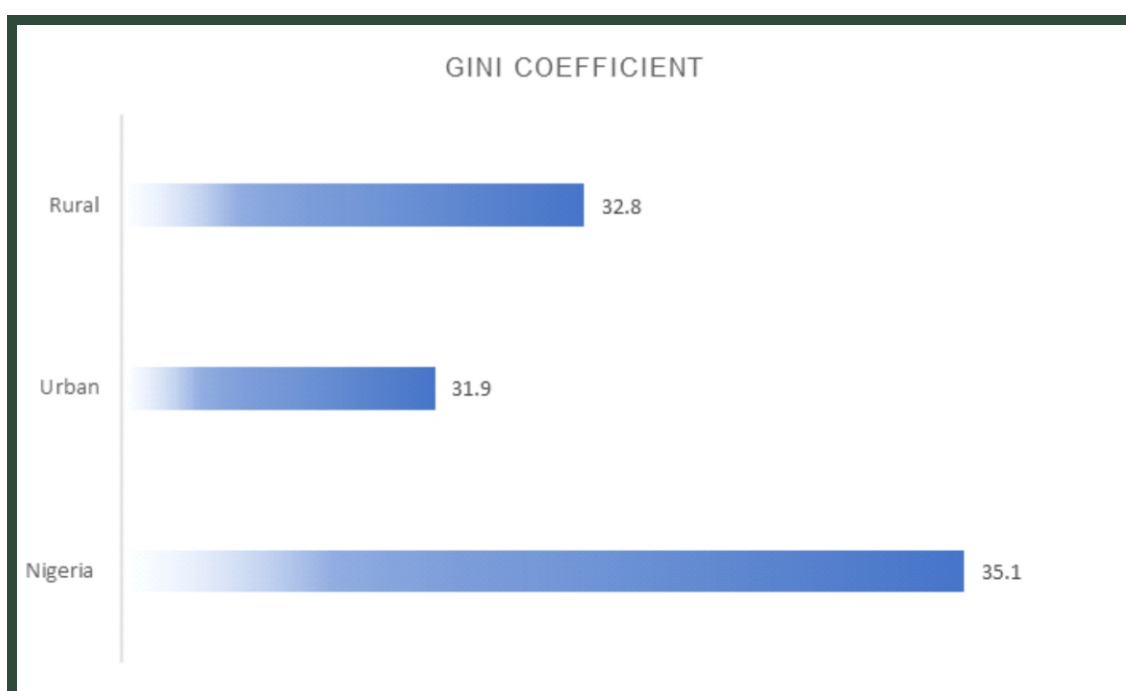
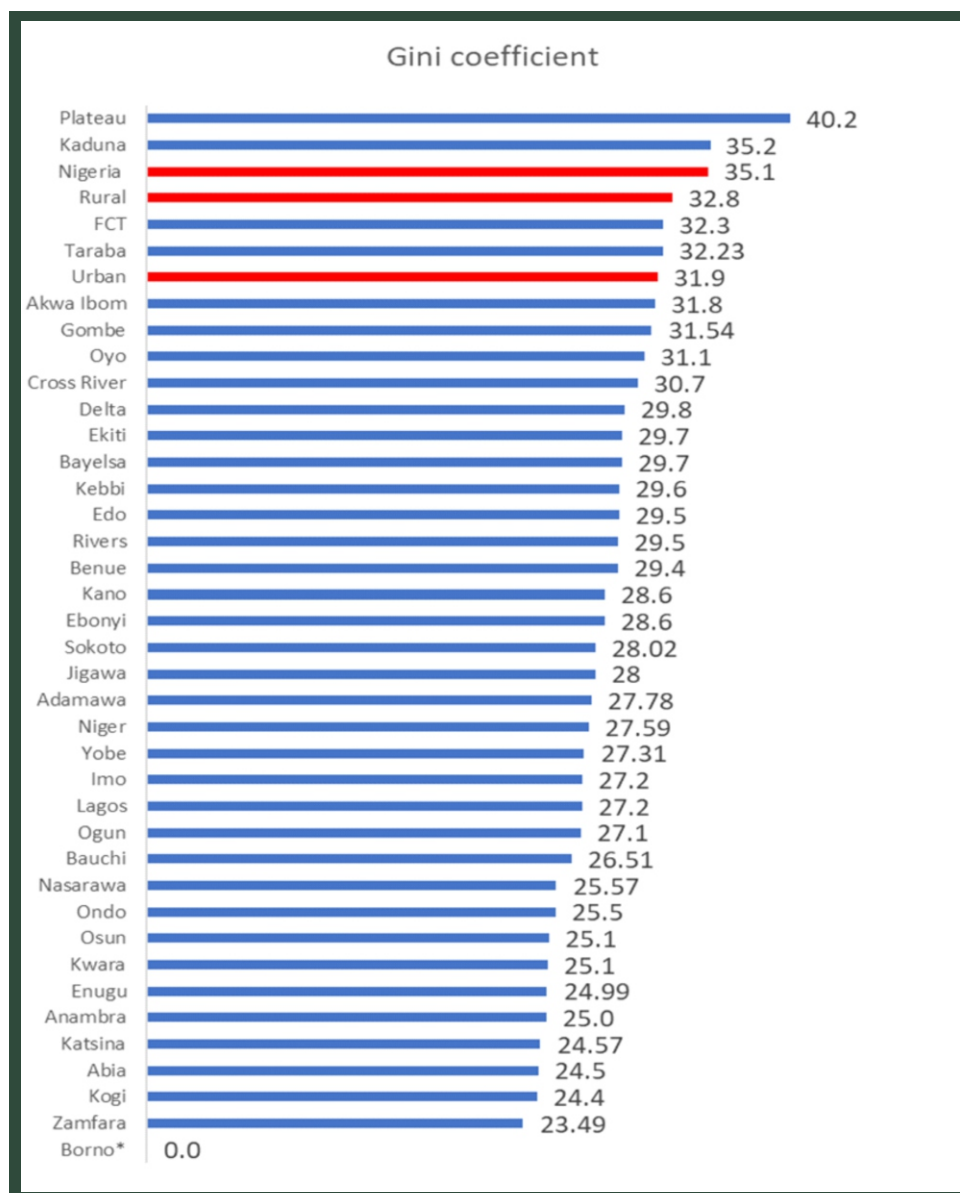


Poverty gap index (percent of poverty line)



Nigeria: Gini coefficient



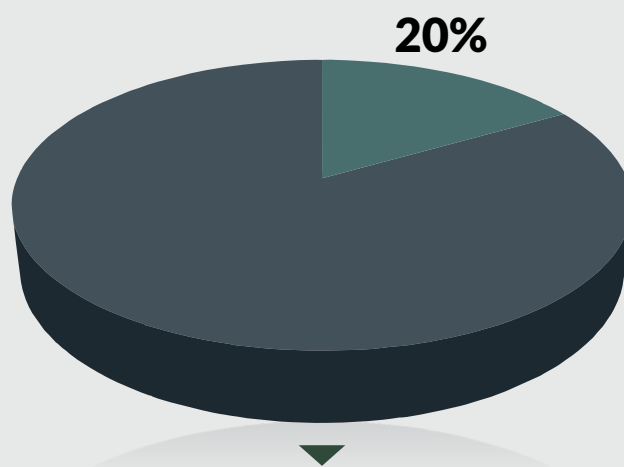


Quintiles - Nominal Consumption Aggregate			Quintiles - Spatially and Temporally Deflated Consumption Aggregate	
Quintile	Mean		Quintile	Mean
1	65,690	Fifth 20%	1	70,918
2	108,730	Fourth 20%	2	115,642
3	154,290	Third 20%	3	161,735
4	219,195	Second 20%	4	226,436
5	415,254	Top 20%	5	422,977

17. **Given that NLSS 2018-19 is not technically comparable to either the NLSS 2003-04 and to HNLSS 2009-10, it is not possible to compare poverty levels between 2003-04, 2009-10 and 2018-19.** In order to compare poverty rates across time, the underlying data should be collected in a similar method. The way the data is collected has great effect on the values reported by households. For example, empirical studies find that mean and variation of reported consumption might be higher in surveys that collected data using pen-and-paper interviewing (PAPI)—the way the data was collected in 2003-04 and 2009-10 as compared to CAPI—the mode used in 2018-19. That difference is amplified by modification in the survey instrument, i.e., transition from a month-long diary of measuring food consumption (administered back in 2003-04/2009-10) to 7-day recall (implemented in 2018-19). The innovations of NLSS 2018-19, while introducing accuracy and cost-effectiveness of the survey also rendered the incomparability of data and statistics derived from NLSS 2009-10, including the poverty levels. **The 2019 study is accordingly treated as a base study and any comparisons with previous poverty studies should be treated with caution.**

POVERTY AND INEQUALITY IN NIGERIA - 2019

QUINTILES - NOMINAL CONSUMPTION AGGREGATE



QUINTILES - NOMINAL CONSUMPTION AGGREGATE

Quintile	Mean
1	65,690
2	108,730
3	154,290
4	219,195
5	415,254



QUINTILES - SPATIALLY AND TEMPORALLY DEFLATED CONSUMPTION AGGREGATE

Quintile	Mean
1	70,918
2	115,642
3	161,735
4	226,436
5	422,977

POVERTY AND INEQUALITY IN NIGERIA - 2019

POVERTY HEADCOUNT RATE
AND POVERTY GAP INDICES

Nigeria

POVERTY
HEADCOUNT
RATE

40.09

POVERTY
GAP
INDEX

12.85

SQUARED
POVERTY GAP
INDEX (SEVERITY)

5.63



Urban

POVERTY
HEADCOUNT
RATE

18.04

POVERTY
GAP
INDEX

4.47

SQUARED
POVERTY GAP
INDEX (SEVERITY)

1.68



Rural

POVERTY
HEADCOUNT
RATE

52.10

POVERTY
GAP
INDEX

17.42

SQUARED
POVERTY GAP
INDEX (SEVERITY)

7.78

STATE		POVERTY HEADCOUNT RATE	POVERTY GAP INDEX	SQUARED POVERTY GAP INDEX (SEVERITY)
Abia		30.67	7.15	2.59
Adamawa		75.41	27.64	13.21
Akwa Ibom		26.82	7.25	2.74
Anambra		14.78	3.24	1.06
Bauchi		61.53	20.50	9.07
Bayelsa		22.61	5.25	1.89
Benue		32.90	8.43	3.05

POVERTY AND INEQUALITY IN NIGERIA - 2019

POVERTY HEADCOUNT RATE AND POVERTY GAP INDICES

STATE		POVERTY HEADCOUNT RATE	POVERTY GAP INDEX	SQUARED POVERTY GAP INDEX (SEVERITY)
Borno		-----	-----	-----
Cross River		36.29	9.66	3.60
Delta		6.02	0.94	0.21
Ebonyi		79.76	34.09	17.05
Edo		11.99	2.90	1.01
Ekiti		28.04	6.16	2.00
Enugu		58.13	16.00	6.34
Gombe		62.31	20.03	8.97
Imo		28.86	6.89	2.35
Jigawa		87.02	38.73	20.53
Kaduna		43.48	15.51	6.74
Kano		55.08	15.24	5.68
Katsina		56.42	16.18	6.50
Kebbi		50.17	15.14	6.19
Kogi		28.51	6.19	2.01

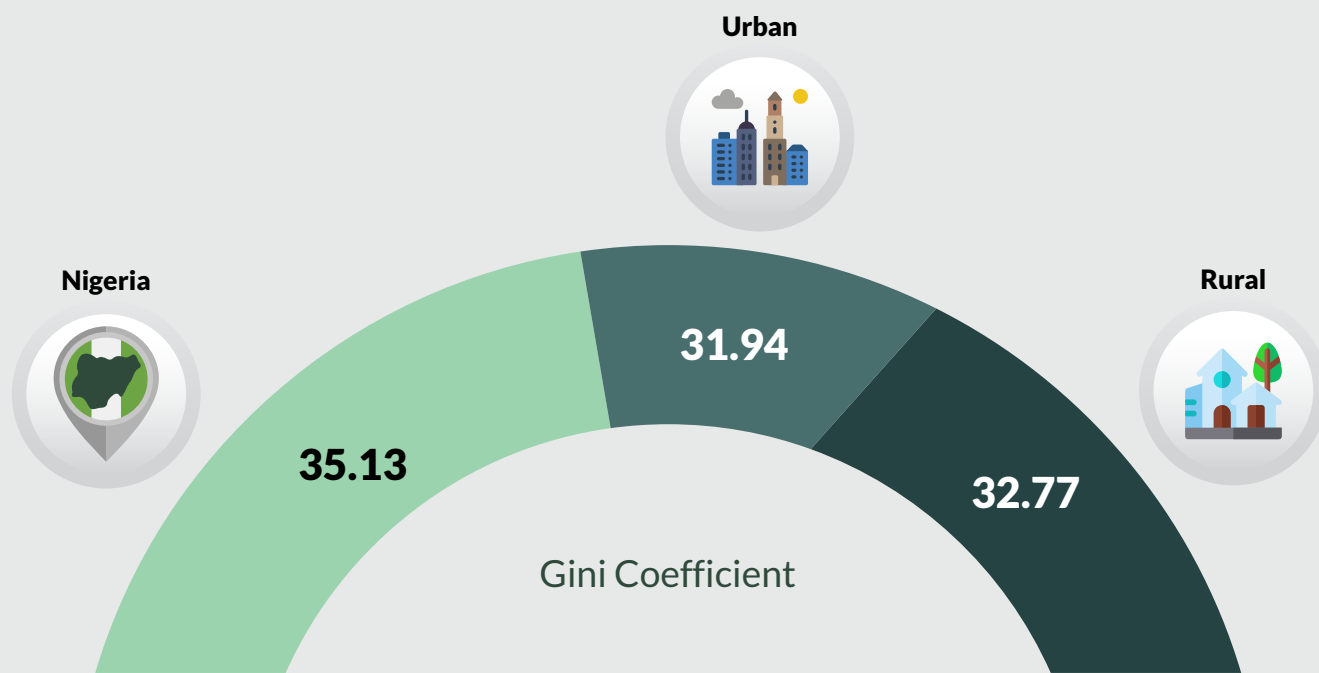
POVERTY AND INEQUALITY IN NIGERIA - 2019

POVERTY HEADCOUNT RATE AND POVERTY GAP INDICES

STATE		POVERTY HEADCOUNT RATE	POVERTY GAP INDEX	SQUARED POVERTY GAP INDEX (SEVERITY)
Kwara		20.35	4.45	1.50
Lagos		4.50	0.67	0.18
Nasarawa		57.30	16.87	6.62
Niger		66.11	21.68	9.12
Ogun		9.32	1.63	0.44
Ondo		12.52	2.28	0.58
Osun		8.52	1.43	0.44
Oyo		9.83	1.85	0.52
Plateau		55.05	17.80	7.61
Rivers		23.91	5.46	1.73
Sokoto		87.73	38.82	20.34
Taraba		87.72	42.38	24.44
Yobe		72.34	26.48	12.84
Zamfara		73.98	24.95	10.41
FCT		38.66	9.77	3.80

POVERTY AND INEQUALITY IN NIGERIA - 2019

INEQUALITY STATISTICS



STATE

GINI COEFFICIENT

Abia		24.48
Adamawa		27.78
Akwa Ibom		31.78
Anambra		24.99
Bauchi		26.51
Bayelsa		29.69
Benue		29.43

POVERTY AND INEQUALITY IN NIGERIA - 2019

INEQUALITY STATISTICS

STATE

GINI COEFFICIENT

Borno		-----
Cross River		30.68
Delta		29.84
Ebonyi		28.60
Edo		29.52
Ekiti		29.70
Enugu		24.99
Gombe		31.54
Imo		27.24
Jigawa		28.00
Kaduna		35.19
Kano		28.64
Katsina		24.57
Kebbi		29.55
Kogi		24.42

POVERTY AND INEQUALITY IN NIGERIA - 2019

INEQUALITY STATISTICS

STATE

GINI COEFFICIENT

Kwara		25.06
Lagos		27.23
Nasarawa		25.57
Niger		27.59
Ogun		27.10
Ondo		25.54
Osun		25.12
Oyo		31.09
Plateau		40.22
Rivers		29.47
Sokoto		28.02
Taraba		32.23
Yobe		27.31
Zamfara		23.49
FCT		32.26

POVERTY AND INEQUALITY IN NIGERIA - 2019

POVERTY HEADCOUNT RATE BY HOUSEHOLD HEAD'S EDUCATION LEVEL AND SEX



Male



Female

No Education/ Less than Primary Education

66.17

Primary Education

41.25

Secondary Education

25.00

Post - Secondary Education

18.13



Nigeria

34.72

No Education/ Less than Primary Education

26.93

Primary Education

14.08

Secondary Education

5.66

Post - Secondary Education

No Education/ Less than Primary Education

43.14

Primary Education

19.16

Secondary Education

12.97

Post - Secondary Education

8.86



Urban

24.66

No Education/ Less than Primary Education

19.35

Primary Education

11.20

Secondary Education

3.42

Post - Secondary Education

No Education/ Less than Primary Education

70.82

Primary Education

50.33

Secondary Education

35.87

Post - Secondary Education

31.20



Rural

39.17

No Education/ Less than Primary Education

32.74

Primary Education

18.96

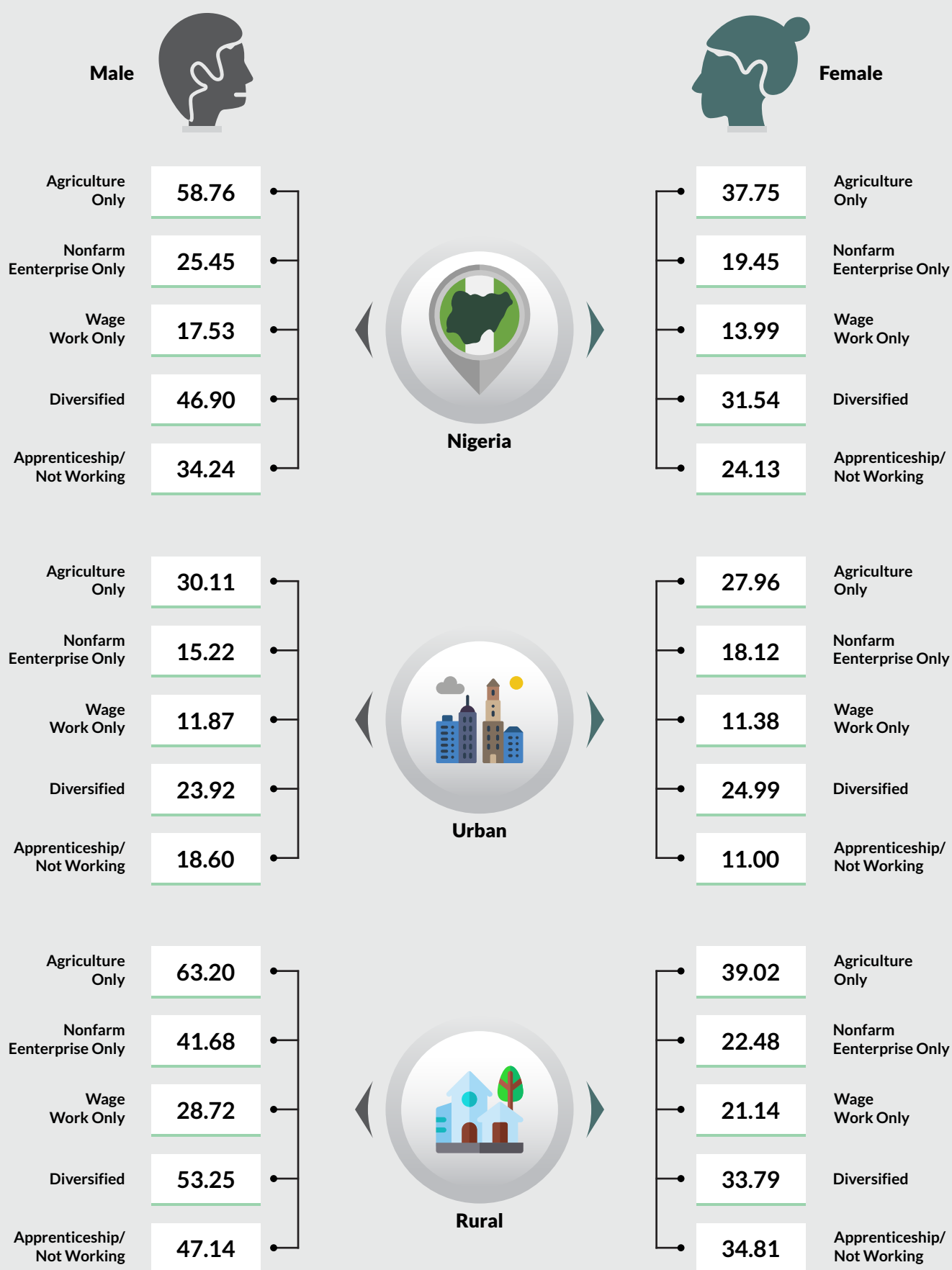
Secondary Education

10.15

Post - Secondary Education

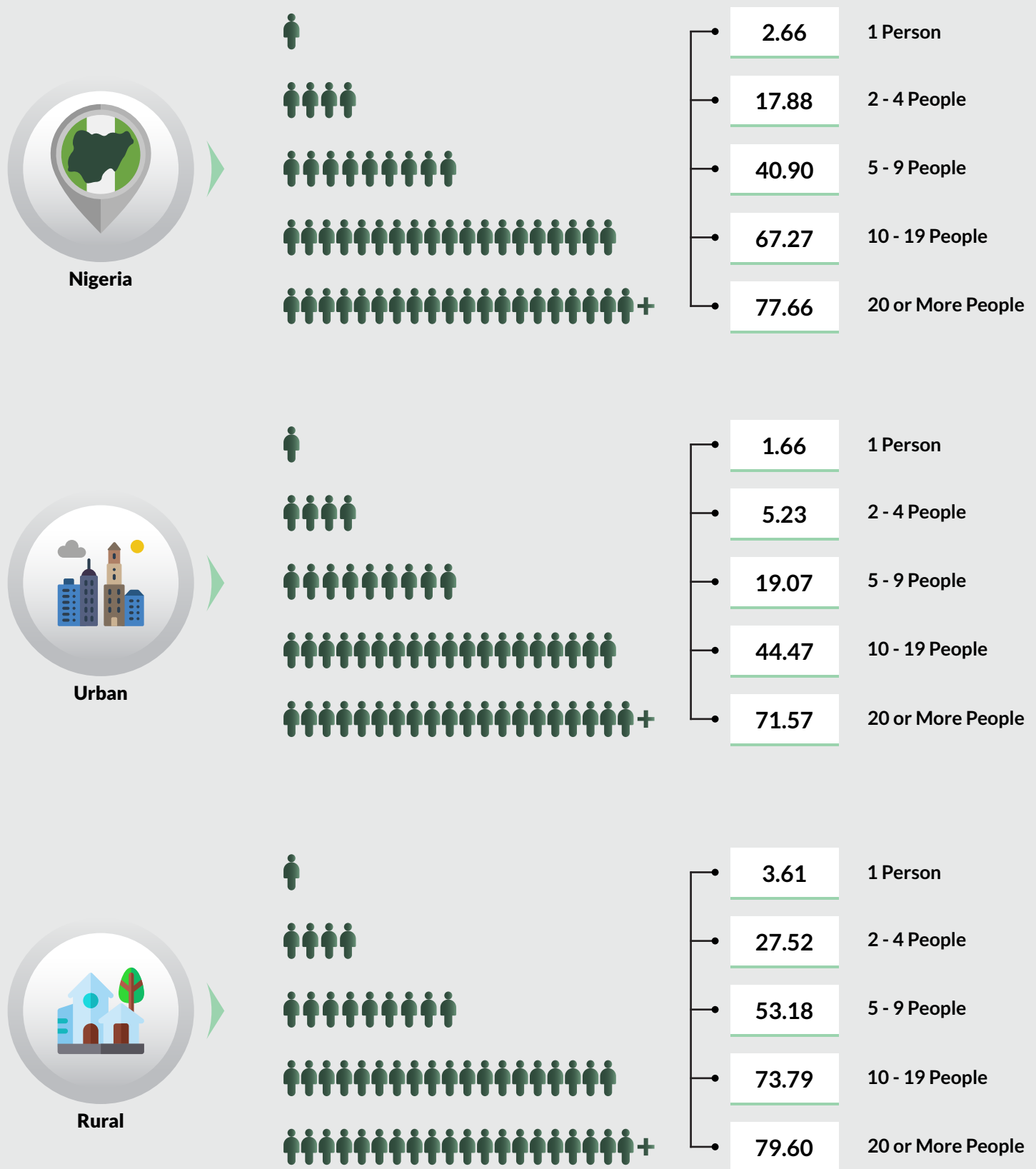
POVERTY AND INEQUALITY IN NIGERIA - 2019

POVERTY HEADCOUNT RATE BY HOUSEHOLD HEAD'S INCOME - GENERATING ACTIVITY AND SEX



POVERTY AND INEQUALITY IN NIGERIA - 2019

POVERTY HEADCOUNT RATE BY HOUSEHOLD SIZE



Top category (20 or more people) is too small - just 17 observations for urban areas

Annex

Table 4: Poverty and inequality indices by states

State	Poverty headcount rate	Poverty gap index	Squared poverty gap index (Severity)
NIGERIA	40.09	12.85	5.63
Urban	18.04	4.47	1.68
Rural	52.10	17.42	7.78
Abia	30.67	7.15	2.59
Adamawa	75.41	27.64	13.21
Akwa Ibom	26.82	7.25	2.74
Anambra	14.78	3.24	1.06
Bauchi	61.53	20.50	9.07
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Kaduna	43.48	15.51	6.74
Kano	55.08	15.24	5.68
Katsina	56.42	16.18	6.50
Kebbi	50.17	15.14	6.19
Kogi	28.51	6.19	2.01
Kwara	20.35	4.45	1.50
Lagos	4.50	0.67	0.18
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Niger	66.11	21.68	9.12
Ogun	9.32	1.63	0.44
Ondo	12.52	2.28	0.58
Osun	8.52	1.43	0.44
Oyo	9.83	1.85	0.52
Plateau	55.05	17.80	7.61
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Yobe	72.34	26.48	12.84
Zamfara	73.98	24.95	10.41
FCT	38.66	9.77	3.80

Source: Nigeria Living Standards Survey, 2018-19.

Note: * The estimates exclude Borno state.

Table 5 Poverty Headcount Rate by Household Head's Education Level and Sex

State	No education/ less than primary education		Primary education		Secondary education		Post-secondary education	
	Male	Female	Male	Female	Male	Female	Male	Female
NIGERIA	66.17	34.72	41.25	26.93	25.00	14.08	18.13	5.66
Urban	43.14	24.66	19.16	19.35	12.97	11.20	8.86	3.42
Rural	70.82	39.17	50.33	32.74	35.87	18.96	31.20	10.15

Table 6 Poverty Headcount Rate by Household Head's Income-generating Activity and Sex

State	Agriculture only		Nonfarm enterprise only		Wage work only		Diversified		Apprenticeship/ Not working	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
NIGERIA	58.76	37.75	25.45	19.45	17.53	13.99	46.90	31.54	34.24	24.13
Urban	30.11	27.96	15.22	18.12	11.87	11.38	23.92	24.99	18.60	11.00
Rural	63.20	39.02	41.68	22.48	28.72	21.14	53.25	33.79	47.14	34.81

Table 7 Poverty Headcount Rate by Household Size

State	1 person	2-4 people	5-9 people	10-19 people	20 or more people
NIGERIA	2.66	17.88	40.90	67.27	77.66
Urban	1.66	5.23	19.07	44.47	71.57
Rural	3.61	27.52	53.18	73.79	79.60

Top category (20 or more people) is too small - just 17 observations for urban areas

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Contact Us

 @nigerianstat

 NBSNigeria

 www.nigerianstat.gov.ng

 **Head Office Address**
Plot 762, Independence Avenue, Central
Business District, FCT, Abuja Nigeria.

 +234 803 386 5388

 feedback@nigerianstat.gov.ng