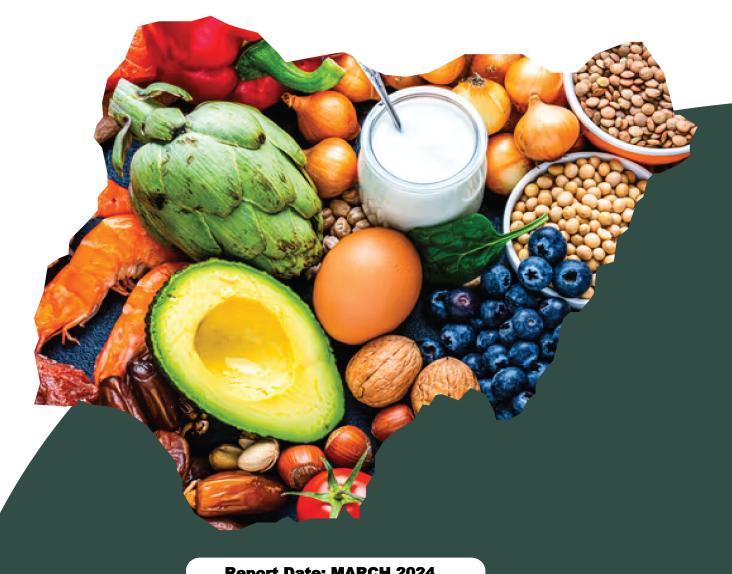




COST OF A HEALTHY DIET

(FEBRUARY 2024)



Report Date: MARCH 2024

Data Sources: National Bureau of Statistics (NBS)

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INTRODUCTION

HIGHLIGHTS

- The Cost of a Healthy Diet (CoHD) is the least expensive combination of locally available items that meets globally consistent food-based dietary guidelines. It is used as a measure of physical and economic access to healthy diets. This is a lower bound (or floor) of the cost per adult per day excluding the cost of transportation and meal preparation.
- ♦ The National average Cost of a Healthy Diet was N938 in February 2024.
- In February 2024, the average CoHD was highest in the South West at N1,157 per adult per day, compared to N723 per adult per day in North West.
- In recent months, the CoHD has risen faster than general inflation and food inflation. However, the CoHD and the food CPI are not directly comparable; the CoHD includes fewer items and is measured in Naira per day, while the food CPI is a weighted index. The food CPI increased approximately 4% between January and February 2024, while CoHD increased by 9%.

Food environments determine a household's physical and economic access to sufficient, safe, and nutritious food for an active and healthy life. A suite of indicators known as the Cost and Affordability of a Healthy Diet (CoAHD) have been developed to improve the measurement of food access and are now monitored globally by the United Nations and the World Bank as a metric of food security. The Cost of a Healthy Diet (CoHD) metric uses the availability, price, and nutritional composition of retail food items to identify the *least expensive* combination of items that meet requirements for a healthy diet. To compute the Cost of a Healthy Diet indicator, the following data are required: (a) Retail Food Prices, (b) Food Composition Data, and (c) Healthy Diet Standard.

Retail Food Prices

The retail food price data used in this analysis is collected by the National Bureau of Statistics (NBS) monthly from 10,534 informants spread across the country, from urban and rural outlets in each State and FCT. NBS collects these prices routinely for monitoring inflation, including prices of over 200 retail food items. Nearly 150 of these food items are potentially included in a healthy diet and the price data for these items are used for the computation of the CoHD.

Healthy Diet Standard

In Nigeria, CoHD is the minimum cost of foods needed to meet international recommendations defined in the Healthy Diet Basket (HDB), a globally relevant set of criteria that captures similarities across most national food-based dietary guidelines (FBDG) (Table 1). The HDB was created as a comparable standard to calculate and compare the cost and affordability of healthy diets across countries; the HDB is most relevant for countries where there is not yet a quantified national FBDG, like Nigeria.

Table 1. Description of the Healthy Diet Basket (HDB)

Food Group	Number of food items selected	Energy content (kilocalories)	Share of total calories (%)	Typical weights of example foods (g)
Starchy Staples	2	1 , 160	50	322 g dry rice
Oils and Fats	1	300	13	34 g oil
Fruits	2	160	7	230-300 g
Vegetables	3	110	5	270-400 g
Legumes Nuts and Seeds	1	300	13	85 g dry bean
Animal Source Foods	2	300	13	210 g egg
Total	11	2,330	100	





RESULT

Average Cost of a Healthy Diet (National, State & Zonal Levels)

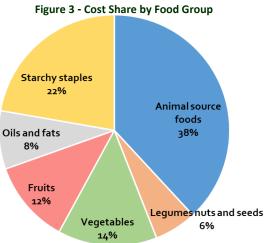
The National average Cost of a Healthy Diet was N938 per adult per day in February 2024. At the State level Ekiti, Lagos and Osun States recorded the highest cost with N1295, N1195, and N1184 respectively. Katsina accounted for the lowest costs with N673, followed by Sokoto and Zamfara with N714 and N720, respectively. Lastly, at the Zonal level, the average CoHD was highest in the South West Zone at N1157 per day, followed by South East Zone with N1077 per day. The lowest average Cost of a Healthy diet was recorded in North West Zone with N723 per day. (*Please see Appendix for full graphic representation*)

Cost Share by Food Group

Animal Source foods were the most expensive food group recommendation to meet in February, accounting for 38% of the total CoHD to provide 13% of the total calories. Fruits and vegetables were the most expensive food groups in terms of price per calorie; they accounted for 12% and 14%, respectively, of total CoHD while providing only 7% and 5% of total calories in the Healthy Diet Basket. Legumes, Nuts and Seeds were the least-expensive food group on average, at 6% of the total cost.

General and Food Inflation Relative to the Cost of a Healthy Diet

The Consumer Price Index (CPI) is a measure of inflation, the average change over time in the prices of goods and services consumed by peo-



ple for day-to-day living, while the food index is a subset of the CPI which reflects changes in prices that households pay for food. It records the development of market prices of agricultural commodities and foodstuffs. Figure 4a compares the general CPI and the food CPI (indices with 2009 as the base year) with the nominal Naira value of the Cost of a Healthy Diet, to understand whether the least-cost items needed for a healthy diet are rising in cost at a rate like that of the rest of the goods and services in Nigeria. Food prices and the Cost of a Healthy Diet are both expected to rise over time; here we focus on the relative rate of that inflation. The food CPI includes a larger number of items, and more packaged and value-added items than the Cost of a Healthy Diet, as least-cost items are often unprocessed.

In the past year, the CoHD and the cost of all other goods and services increased at roughly the same rate, until July 2023, when CoHD increased at a faster rate than all goods and services (general CPI) and more than all foods for which retail prices are collected. In the most recent month, the CoHD continues to rise at a faster rate than food CPI which rose approximately 4% in the past month compared to 9% for CoHD.

Least-Cost Diets and Frequently Selected Least-Cost Items

Table 2, (Please see Appendix) demonstrates a complete least-cost diet in the least and most expensive locations in February 2024. In February 2024, Ekiti (Urban) had the most expensive Cost of a Healthy Diet at N1359 per adult per day, while the least expensive location was Katsina (Urban) with CoHD at N625. While there were similarities in the least-cost item in February (e.g. Bitter leaf, Avocado Pear & Soya Beans), the cost per food was different in these locations because of underlying price differences. Most of the food groups had different least-cost items; for example garri white was the most expensive starchy staple in Ekiti (Rural), compared with Guinea corn (Sorghum) white grains in Katsina (Urban).

Finally, Table 3 (*Please see Appendix*) shows frequently selected least-cost items in each food group across all state-sector combinations. This table demonstrates that some items are commonly the least-cost across different locations. For example, in the Oils and Fats Food group, Palm Oil was the least expensive item in 89% of State-Sectors, and Soya Beans was the least-expensive item in the Legumes, Nuts and Seeds Food Group in 76% of all the State-Sectors. Coconuts were selected as a least-cost item for the Fruits Food Group in 41% of State-Sectors.





POLICY IMPLICATIONS

The Cost of a Healthy Diet provides important information about food access, a key aspect of food security, which is useful for government, civil society and development partners, private sector, and researchers.

For instance, where the Cost of a Healthy Diet is high, it is possible to identify which least-cost items and food groups are driving the high cost. Stakeholders can identify supply challenges in specific foods or food groups to be addressed, for example with improved production, distribution, or market access.

The Cost of a Healthy Diet can also inform:

- The minimum income needed by households to access a healthy diet, and social protection and transfer amounts for vulnerable populations.
- Prioritization of commodities for agricultural production and trade policy interventions.
- Targeting interventions, including nutrition education, to populations with the most potential to benefit; nutrition education is only effective when people can afford to comply with the recommendations.
- Research on the relationship between food access and other food system factors and outcomes.

These results can also foster collaboration among a wide range of stakeholders, such as policymakers, researchers and civil society actors that focus on food security, to devise strategies that tackle access, availability, and affordability of healthy diet effectively. Future research incorporating income can also be used to determine the proportion and number of the population that are unable to afford a healthy diet.

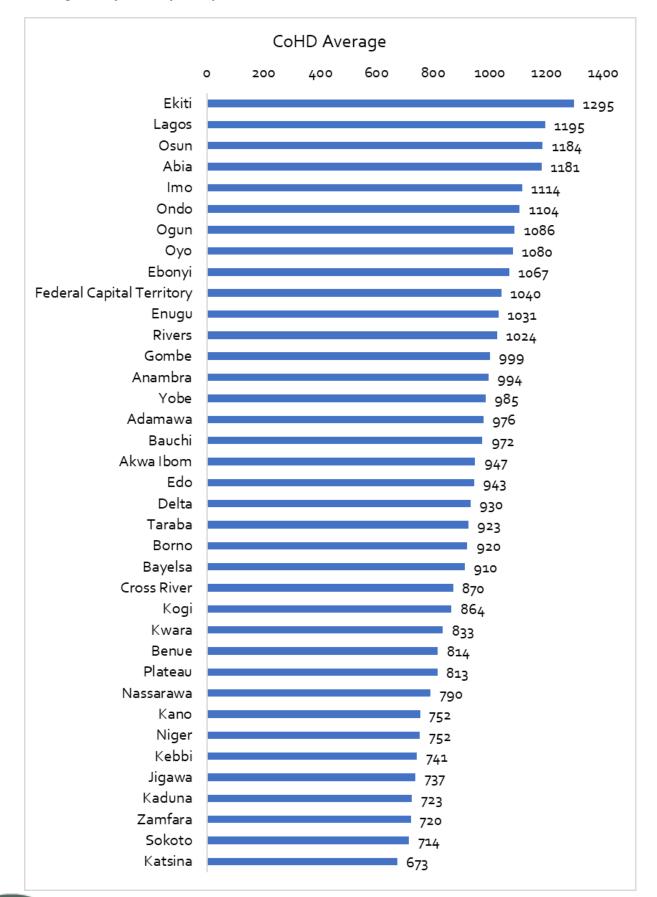
This bulletin was produced by the National Bureau of Statistics (NBS), Nigeria in collaboration with Global Alliance for Improved Nutrition (GAIN) and technically supported by the Food Prices for Nutrition project, led by the Friedman School of Nutrition Science and Policy at Tufts University, in partnership with International Food Policy Research Institute (IFPRI) and the World Bank. This bulletin aims to inform decision-makers from government agencies, UN agencies and NGOs to improve access to healthy diets. The bulletin is available online at https://nigerianstat.gov.ng/elibrary





APPENDIX

Figure 1. Average Cost of a Healthy Diet by State



APPENDIX

Figure 2. Zonal Average CoHD

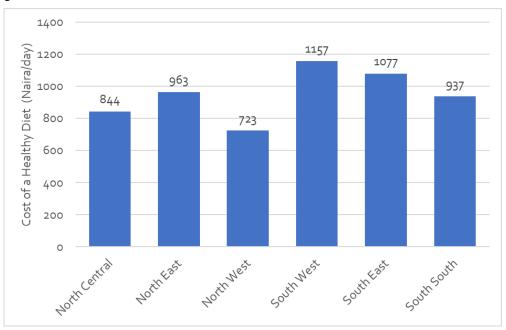


Figure 4a. National Average CoHD (Naira/day) and Consumer Price Indexes (2009=100)

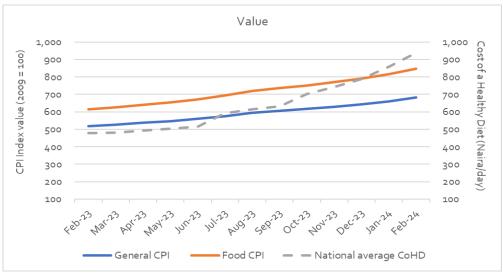
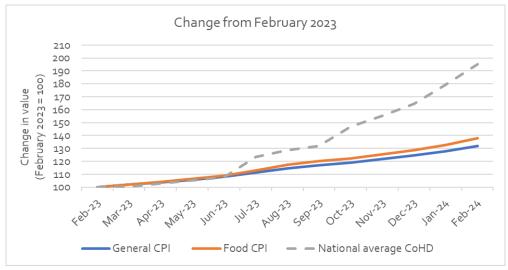


Figure 4b. National Average CoHD and Consumer Price Indexes (Feb 2023= 100)





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APPENDIX

Table 2. States with Least and Most expensive cost of items

	Most expensive: Ekiti Urban		Least expensive: Katsina Urban	
February 2024				
	Least-cost item	Cost (N)	Least-cost item	Cost (N)
Starchy staples	Garri White	120	Guinea Corn (Sorghum)	74
	Millet Whole Grain	121	Millet Whole grain	62
Oils and fats	Vegetable Oil	101	Palm Oil	73
Fruits	Avocado Pear	89	Date Palm fruit (Debenu)	49
	Coconut	47	Avocado Pear	27
Vegetables	Cabbage	115	Kuka Dried	20
	Bitter Leaf	78	Bitter Leaf	27
	Green Leaf (Tete)	87	Dried Okra	10
Legumes nuts seeds	Soya Beans	62	Soya Beans	35
Animal source foods	Agric Eggs	265	Crayfish (Small White)	140
	Shrimps Red Dried	275	Shrimps Red-Dried	108
Total (CoHD)		1,359		625

Table 3. Top 3 most frequently selected least-cost items by Food Group

Food Group	Item Name	Selected as least-cost % of possible selection
Starchy staples	Garri White	20%
	Maize Grains White	18%
	Maize Grains Yellow	16%
	Palm Oil	89%
Oils and fats	Vegetable Oil	7%
	Groundnut Oil	4%
Fruits	Coconut	41%
	Avocado Pear	28%
	Date Palm fruit (Debenu)	20%
Vegetables	Bitter Leaf	26%
	Dried Okra	23%
	Kuka Dried	16%
1	Soya Beans	76%
Legumes nuts and seeds	Groundnut (Shelled)	24%
	Crayfish (Small White)	24%
Animal source foods	Fresh Milk (Nono)	15%
	Shrimps (Red Dried)	9%





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