



Data | Infographics | Analytics | Training

# MOST EXPENSIVE STATE:

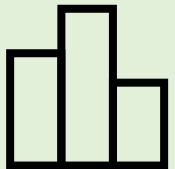
Ranking of Nigerian States  
According to **Affordability**



## INTRODUCTION

With data becoming pervasive in our society, it's imperative we aggregate these data and use them to make meaningful progressions for our future, businesses, evaluate the state of our States among others.

In view of this, **StatiSense** has developed a scientific method to be used to rank States of the federation using a collection of data published by the National Bureau of Statistics (NBS).



## ABOUT US

StatiSense is a data consulting firm with expertise in providing data services such as analytics, research, reporting, monitoring & evaluation and training to individuals, private organizations and non-governmental organizations.

At StatiSense, we make sense of numbers.

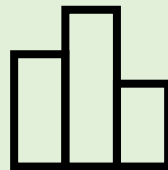
## CONTACT US

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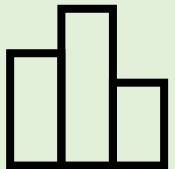


## RANKING METHODOLOGY

We created a model to rank the Nigerian states according to how expensive it is to live in them using some price indicators from the monthly data published by the NBS, such as Selected common foods (Rice, Bean, Yam, Bread and Garri), Transport fares and Petroleum Products prices.

Relative importance were attached to these indicators in order to make the ranking more meaningful and realistic, following which ranks of the State were calculated using the Analytic Hierarchy Process (AHP).

Also, standardize type of ranking (1224) was employed; in which the items with the same score take the same ranking number and a gap is left in the ranking numbers.



## METHODOLOGY

$$\text{Score of State} = W_1X_1 + W_2X_2 + W_3X_3$$

Where

$W$  = associated weight of the indicator

$X$  = rank of the indicator

These indicators are further simplified into

- ❑ **Selected food price ( $x_1$ )** – Rice, Bean, Yam, Bread and Garri prices.
- ❑ **Transportation price ( $x_2$ )** – Bus journey within city per drop, motorcycle per drop and water way prices.
- ❑ **Petroleum products price ( $x_3$ )** – PMS (1Litre), AGO (1Litre), NHK (1Litre) and LPG (5kg) prices.

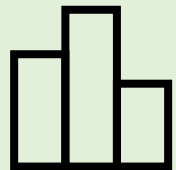
### Analytic Hierarchy Process (AHP)

It is the determination of relative weights to rank the decision alternatives.

AHP uses a discrete scale 1-9 in which

- $a_{ij} = 1$  indicates  $i$  and  $j$  are equally important
- $a_{ij} = 5$  indicates that  $i$  is strongly more important than  $j$
- $a_{ij} = 9$  indicates  $i$  is extremely important more than  $j$ .

For consistency in the decision making,  $a_{ij} = a_{ji}$



## RANKING WEIGHT DETERMINATION

	Selected foods	Transport fare	Petrol product
Selected foods	1	1	3
Transport fare	1	1	2
Petrol Product	0.333333333	0.5	1
	2.333333333	2.5	6

	Selected foods	Transport fare	Petrol Product	Weight	AW
Selected foods	0.428571429	0.4	0.5	0.44	0.588367
Transport fare	0.428571429	0.4	0.333333333	0.39	0.450008
Petrol products	0.142857143	0.2	0.166666667	0.17	0.086538
					1.124913

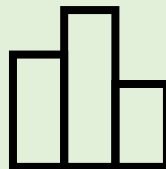
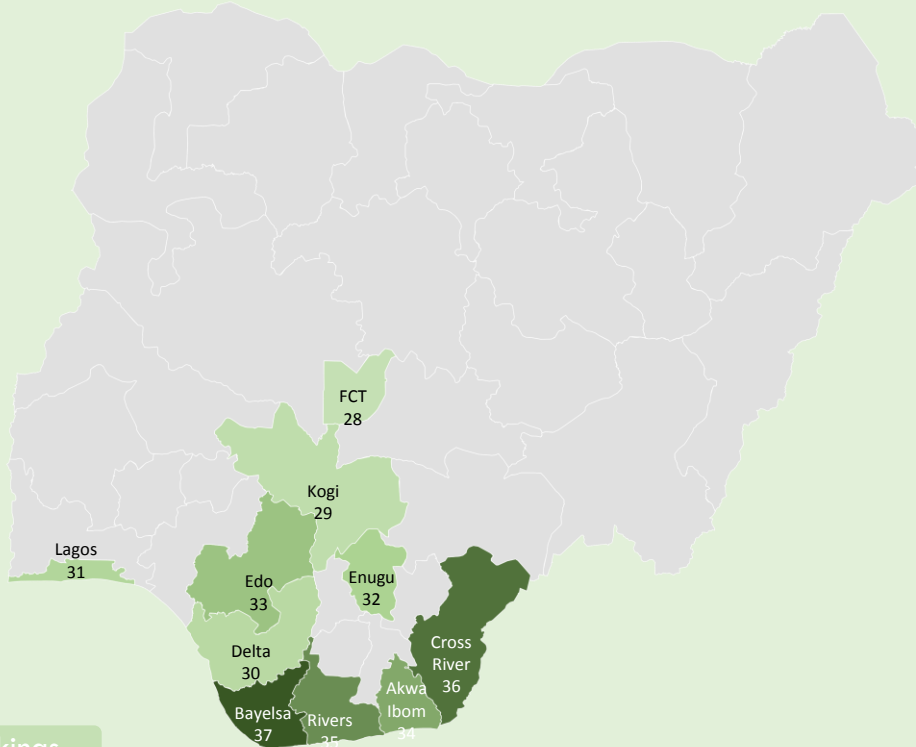
AW – Average Weight

Consistency Index	-0.937543462	
Random Constituency	0.99	
Constituency Ratio	-0.947013598	<0.1



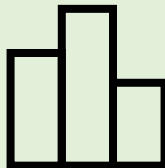
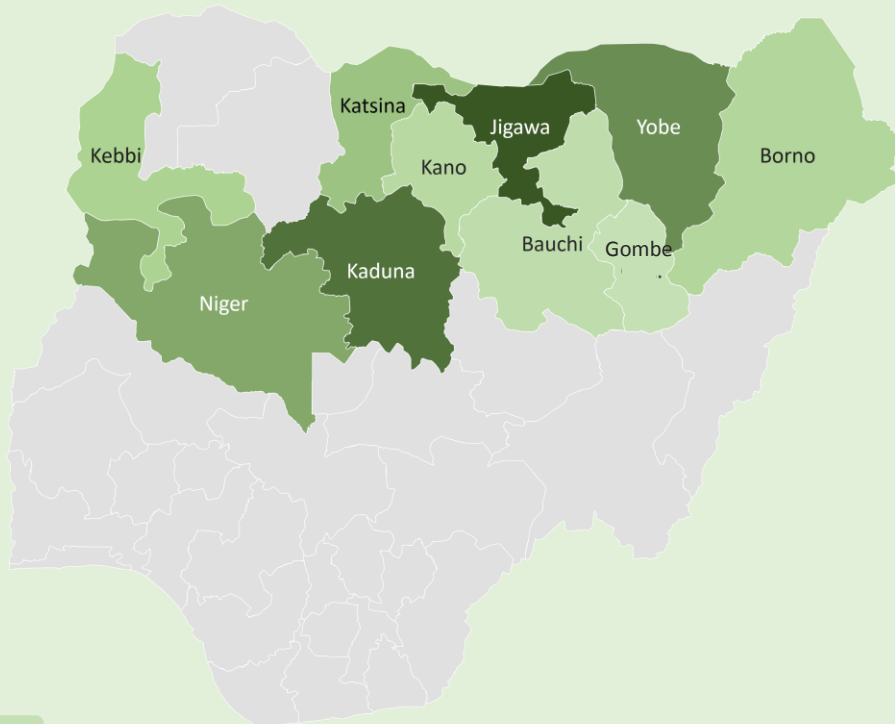
# TOP EXPENSIVE STATES IN THE MONTH OF JULY

Top 10 Most Expensive Nigerian States to Live in



## TOP LESS EXPENSIVE STATES IN THE MONTH OF JULY

Top 10 Least Expensive Nigeria States to live in

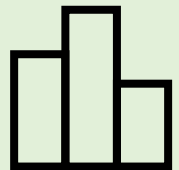




## TOP & BOTTOM RANKINGS MOVEMENT POSITION (JUNE VS JULY)

State	May	June	Movement
Kwara	10	17	▼
Niger	5	12	▼
Nasarawa	18	24	▼
Kogi	27	32	▼
Ekiti	15	19	▼

STATE	JUNE	JULY	MOVEMENT
Plateau	22	16	▲
Nasarawa	24	19	▲
Niger	12	7	▲
Benue	21	17	▲
Ebonyi	30	27	▲



## JULY 2020 FULL RANKINGS

State	Total Score	Overall Ranking	State	Total Score	Overall Ranking
Gombe	9	1	Anambra	19	20
Bauchi	10	2	Osun	19	21
Kano	11	3	Ogun	19	22
Borno	11	4	Abia	20	23
Kebbi	12	5	Oyo	20	24
Katsina	13	6	Imo	21	25
Niger	13	7	Ondo	22	26
Yobe	13	8	Ebonyi	22	27
Kaduna	13	9	Abuja	22	28
Jigawa	14	10	Kogi	22	29
Sokoto	14	11	Delta	23	30
Adamawa	16	12	Lagos	23	31
Taraba	16	13	Enugu	23	32
Kwara	17	14	Edo	25	33
Zamfara	17	15	Akwa Ibora	26	34
Plateau	19	16	Rivers	27	35
Benue	19	17	Cross River	28	36
Ekiti	19	18	Bayelsa	30	37
Nasarawa	19	19			

