

# Effect of Neighbourhood Characteristics on Resident's Satisfaction in Doya Area of Bauchi Metropolis

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**Abstract.** This study determines the effect of neighbourhood characteristics on residents' satisfaction in Doya area of Bauchi metropolis to reveal the significant relationship of the effect. Field data were gathered using a structured, close-ended questionnaire containing 5 Likert scales administered to the household head of Doya area of Bauchi metropolis using simple random sampling. A total number of one hundred and twenty-five (125) valid questionnaires were used for the analysis. The data were analyzed using descriptive statistics (Mean score and frequency table) and linear regression method through SPSS. The study found that electricity, water, drainage, availability of schools, availability of hospital, economic activities, neighbourhood security, sanitary services, recreational facilities and accessibility are factors affecting resident's satisfaction. It further found that satisfaction with proximity to work, water, and educational facilities were striking the highest mean score. Finally linear regression model reveals that neighbourhood condition significantly affects resident's satisfaction. The study suggests a need for the government to provide more social amenities in the study area. Proper routine management of social amenities should be done to enhance the resident's satisfaction in the study area.

**Keywords:** neighbourhood; satisfaction; housing.

## INTRODUCTION

Housing is considered a basic need and a necessity for man's existence. Thus, it's one of the most critical basic infrastructures in the development of every society [3]. Also, [1] admits that housing is one of the three basic needs of humanity. Its performance should meet technical expectations as well as the overall satisfaction of end-users. Housing touches the lives of individuals and the nation; great importance is therefore ascribed to its role in engendering human comfort by nature and society [3, 7]. Authors [1] stated that one of the basic needs of man is shelter. The right to adequate housing is a universal right, recognized at the international level and in more than one hundred national constitutions worldwide. Despite this right, the 'homeless', 'the inadequately housed', and 'the evicted' are numerous in the cities and the countryside across the globe.

Residents' satisfaction refers to the degree of satisfaction felt about the environmental amenities available in different aspects of a residential environment. Information on residents' satisfaction has become a handy tool in the hands of housing developers, analysts, and policymakers for a long time now [4]. Residential satisfaction reflects the degree to which individuals' housing needs are fulfilled [8]. According to [6], residential satisfaction refers to the degree of contentment experienced by a household regarding the current housing situation. It is a non-economic and normative quality evaluation approach to assess the quality of housing units.

Neighbourhoods are defined as residences and the physical, social, and economic circumstances that affect these residences [2]. They are places where people live their daily lives – places where people go for a walk with their pets, where par-

ents spend time with their kids at a playground, where neighbours have a chat at a park, and seniors grow vegetables in a nearby garden. Neighbourhoods are meaningful to people, so magazines feature neighbourhoods and report on their amenities and the personalities of their residents. Residential environment quality and satisfaction are among the primary conditions for quality of life and the main support for economic activities, culture, and society. The importance of the neighbourhood environment to urban dwellers cannot be overemphasized; it remains the most fundamental basis of life because where people live or spend most of their lives affect their economic, social, health, and mental well-being. Due to the diversity of personal senses of looking at things and the varied lifestyles, people's demands, preferences and evaluations of their neighbourhood environment are equally becoming more diversified [5].

Resident's satisfaction can be affected by many factors; one of these factors can be neighbourhood condition. The effect of neighbourhood condition on residential satisfaction can be positively or negatively; when social amenities or infrastructural facilities are good, the satisfaction was significantly excellent and vice versa. Most people in developing countries still lack the necessities of life such as shelter, health facilities, a good road network, portable water, regular supply of electricity, to mention but a few. The lack of these basic needs of life by many could be attributed to poor management of public funds by leaders, lack of adequate workforce to harness the resources available, political instability and lack planning by local authorities [9]. Hence the gap in the literature is identified; therefore, this paper will attempt to address issues on the effect of neighbourhood characteristic on resident's satisfaction in Doya area of the Bauchi metropolis.

This *study aims* to determine the effect of neighbourhood characteristics on residents' satisfaction in Doya area of Bauchi metropolis to reveal the significant relationship between neighbourhood conditions and residents' satisfaction.

Objectives:

1. To identify the neighbourhood characteristics in the study area.
2. To examine the level of resident' satisfaction in the study area.

3. To assess the effect of neighbourhood characteristics on resident' satisfaction in the study area

A field survey research approach was adopted for the study. Data were collected using a sound-structured questionnaire containing close-ended questions (for ease of analysis). The questionnaire was designed for the household head living in the study area using a five-point Likert scale. A total of two hundred (200) copies of the questionnaires were administered to randomly selected residents within the study area. Out of the 200 questionnaires administered, 125 valid copies were filled and retrieved. Mean ranking was used to measure the degree of neighbourhood characteristics and resident's satisfaction. At the same time, linear regression was also used to determine the effect of the neighbourhood characteristic on residents' satisfaction.

## RESULTS AND DISCUSSIONS

Table1 – Demographic Data of the Respondents

	N	%
<b>Gender</b>		
Male	96	76.2
Female	30	23.8
<b>Age</b>		
Less than 30 years	58	46.0
between 31-40 years	30	23.8
between 41-50 years	24	19.0
above 50 years	14	11.2
<b>Marital status</b>		
Single	51	40.5
Married	75	59.5
<b>Education</b>		
Primary school	24	19.0
O level	39	31.0
OND/NCE	42	33.3
HND	12	9.5
BSC	7	5.6
MSC	1	0.8
PHD	1	0.8
<b>Occupation</b>		
Farming	26	20.6
Retired	36	28.6
Artisan	18	14.3
Private Sector	22	17.5
Public Sector	24	19.0
<b>Tenure ship</b>		
Occupier	95	75.4
Renting	31	24.6

The table above shows the demographic data of the respondents. It reveals that most households are male and married couples as it represents 76.2% and 59.5% of the responses. Also, most of them are within the age group of less than 30 years and 31-40 years. Furthermore, it's found that majorities are farmers/retired workers, and they are NCE/OND holders. Finally, it is concluded that most of them are owner-occupiers which represent 75.4% of the responses.

Table 2 – Ranking Neighbourhood Condition / Characteristics

Items	N	Mean	Std. Deviation	Remark
Ranking electric condition in the area	125	3.80	.762	1
Ranking water condition in the area	125	3.75	.973	2
The ranking drainage condition in the area	125	3.41	1.277	3
Ranking recreational facilities condition in the area	125	2.95	1.396	4
Ranking accessibility / road condition in the area	125	2.94	1.220	5
Ranking sanitary service condition in the area	125	2.85	1.251	6
Ranking schools' condition in the area	125	2.83	1.366	7
Ranking economic activities condition in the area	125	2.71	.974	8
Ranking hospitals condition in the area	125	2.60	1.225	9
Ranking neighbourhood security condition in the area	125	2.43	1.080	10

Table 2 above shows the neighbourhood condition according to their mean ranking. It reveals that the electricity condition is in good condition with a mean of 3.80, which has the first rank, water condition is also found to be good as it has a mean of 3.75 which has the second rank. At the same time, health facilities and neighbourhood were and found to be moderate with east mean rank both.

Table 3 – Ranking Residents Satisfaction

Items	N	Mean	Std. Deviation	Remark
Satisfaction for proximity to the place of work	125	3.59	1.115	1
Water satisfaction in the area	125	3.58	1.079	2
Satisfaction for the availability of educational facilities	125	3.05	1.099	3
Electricity satisfaction in the area	125	2.91	.942	4
Satisfaction with respect to infrastructure / services	125	2.90	.990	5
Satisfaction for political activities in the area	125	2.82	1.277	6
Satisfaction with respect to economic activities	125	2.67	1.162	7
Satisfaction for the proximity of the place of worship	124	2.67	1.181	8
Satisfaction for neighbourhood security	125	2.59	1.048	9
Satisfaction with respect to recreational facilities	125	2.39	.999	10

The table above shows the households satisfaction within the neighbourhood for their mean ranking. It admits that proximity to the place of work, water and educational facilities has the first, second and third satisfaction with a mean score 4.58, 3.58 and 3.05 respectively While satisfaction to the proximity of worship places, neighbourhood security and recreational facilities has a mean rank of 8, 9 and 10 respectively.

Table 4 – Model Summary

Model	R	R <sup>2</sup>	Adjusted R <sup>2</sup>	Std. Error of the Estimate
1	.723a	.523	.481	.37384

The R<sup>2</sup> value in the model summary table above tells you how much of the variance in the dependent variable (resident's satisfaction in the study area) is explained by the model (which includes neighbourhood characteristics). This means that the model explains 52.3% of the variance in residents' satisfaction in the study area.

Table 5 shows the statistical significance of the analysis. The table shows a highly significant value of ".000", which is less than .05 (which means  $p < .0005$ ). This means that the regression is suitable and fit well for the analysis.

Table 5 – ANOVA

Df	Mean Square	F	Sig.
10	1.744	12.476	.000b
114	.140		
124			

Table 6 shows the significant effect between neighbourhood characteristic and resident's satisfaction. Water, educational facilities, Drainage, Electricity, Recreational Facilities, sanitary services and health facilities, were the neighbourhood characteristic which significantly affects resident satisfaction which has a Beta value of .298, .303, .179, .170, .149, -.134 and .139 with p-value of both .000, .000, .014, .024, .031, .055 and .065 respectively.

Table 6 – Coefficient Table (model 1)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	.943	.228		4.130	.000
Ranking electric condition in the area	.116	.050	.170	2.295	.024
Ranking water condition in the area	.159	.040	.298	3.949	.000
Ranking drainage condition in the area	.073	.029	.179	2.483	.014
Ranking educational facilities condition in the area	.115	.029	.303	4.024	.000
Ranking hospitals condition in the area	.059	.032	.139	1.860	.065
Ranking recreational facilities condition in the area	.056	.025	.149	2.188	.031
Ranking economic activities condition in the area	.012	.036	.022	.327	.744
Ranking neighbourhood security condition in the area	.020	.035	.043	.585	.560
Ranking sanitary service condition in the area	-.056	.029	-.134	-1.943	.055
Ranking accessibility/road condition in the area	.042	.029	.100	1.443	.152

In contrast, accessibility, neighbourhood security and economic have a Beta value of .100, .043, and .022 with a p-value of .152, .560 and .744, respectively, were found to have a less significant impact. So, this concludes that Water, educational facilities, Drainage, Electricity and Recreational Facilities were the neighbourhood characteristic which significantly affects resident's satisfaction with sanitary services to have a negative effect.

## CONCLUSION

The initial analysis and discussion clearly show that neighbourhood characteristics and residents' satisfaction were analyzed using Statistical Package for Social Science (SPSS). The analysis is based on regression and means score ranking, which reveals that electricity condition, water condition, drainage condition, availability of schools, health facilities, recreational facilities, economic activities, neighbourhood security, sanitary services and accessibility affect housing sat-

isfaction. Furthermore, it reveals that neighbourhood characteristics/condition significantly affect resident's satisfaction in the study area.

Since neighbourhood conditions affect resident satisfaction, the government needs to provide more social amenities to promote residential satisfaction. As most of the households within the neighbourhood agreed that they have poor secu-

rity, there is a need for the government or policymakers to provide better policies to help the area be more secure.

Proper routine management of social amenities should be put in place to ensure good neighbourhood condition and the resident's satisfaction in the study area.

## REFERENCES

1. Ayarkwa, J., Acheampong, A., & Agyekum, K. (2013). Residents' Satisfaction with the Social Security and National Insurance Trust Housing in Ghana. *Engineering Management Research*, 2(2). doi: 10.5539/emr.v2n2p29
2. Baesung, K. (2013). *The effect of neighborhood built environment on neighborhood satisfaction* (Master's thesis); Georgetown University. Washington.
3. Bank of Ghana. (2007). *The Housing Industry in Ghana: Prospects and Challenge*. Retrieved from <https://www.bog.gov.gh/wp-content/uploads/2019/07/pbrief-housing-new.pdf>
4. Galster, G. (1987). Identifying the Correlates of Dwelling Satisfaction. *Environment and Behavior*, 19(5), 539–568. doi: 10.1177/0013916587195001
5. Ge, J., & Hokao, K. (2006). Research on residential lifestyles in Japanese cities from the viewpoints of residential preference, residential choice and residential satisfaction. *Landscape and Urban Planning*, 78(3), 165–178. doi: 10.1016/j.landurbplan.2005.07.004
6. Ibem, E. O., & Aduwo, E. B. (2013). Assessment of residential satisfaction in public housing in Ogun State, Nigeria. *Habitat International*, 40, 163–175. doi: 10.1016/j.habitatint.2013.04.001
7. Jiboye, A. D. (2010). Correlates of Public Housing in Lagos, Nigeria. *Journal of Geography and Regional Planning*, 3(2), 17-28.
8. Nyaboe, Sh. (2016). *An assessment of residential neighbourhood satisfaction: a case of Bahati estate, Eastlands, Nairobi, Kenya*. Retrieved from [https://www.researchgate.net/publication/348975819\\_AN\\_ASSESSMENT\\_OF\\_RESIDENTIAL\\_NEIGHBOURHOOD\\_SATISFACTION\\_A\\_CASE\\_OF\\_BAHATI\\_ESTATE\\_EASTLANDS\\_NAIROBI\\_KENYA](https://www.researchgate.net/publication/348975819_AN_ASSESSMENT_OF_RESIDENTIAL_NEIGHBOURHOOD_SATISFACTION_A_CASE_OF_BAHATI_ESTATE_EASTLANDS_NAIROBI_KENYA)
9. Rashid, S. T., bin Ngah, I., & Eluwa, S. E. (2013). Neighbourhood choice factors and residents satisfaction in old and new neighbourhoods of Slemani City, Kurdistan-Iraq. *Journal of Environment and Earth Science*, 3(2), 72-81.