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Housing Security and Implications for Socio-Economic Status of Residents in Ogbomoso

By Atolagbe, A.M.O

Ladoke Akintola University of Technology, Ogbomoso, Nigeria

Abstract - This study examines the relationship between the residents' socio-economic status and their attitudes to the issue of security in their houses. It surveys the housing environments in the different residential zones of Ogbomoso, taking cognizance of physical devices adopted by residents for ensuring adequate protection of their lives and properties. The physical security devices examined include the presence of a perimeter fence, security gate, security gatehouse and employment of security guard/gateman. The incidence/employment and distribution of scores for these physical and human devices across the city are examined in relation to the socio-economic status of residents. The result shows a high incidence of security personel/devices among the residents with high socio-economic status; found mostly in the lower density residential zones of the city; and vice versa.

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I. INTRODUCTION

Beyond the protection of residents from the scorch of the sun, on-slaught of hales, strong winds and other harsh effects of inclement weather, protection of houses in primitive settlements of Africa and the Third World nations consisted of devices to ward off aggression from unfriendly animals and fellowmen from neighbouring ecological environments. Residents on tree-branches, hunting decks and hill-tops (Buah, 1969) relied on height advantages over aggressors who had to climb to their height level before affecting an attack. The time lag, for the intruder, to reach such heights, and energy spent in such effort provided some advantage to the home front, for a counter attack on the intruder. Spears, missiles (of stones), cutlasses and cudgels came handy as weapons to repudiate intruders' aggression. Others included ethno-medical devices, relying on fetishes, potent charms and incantations in the Yoruba (African and Asian) traditional medicine (Atolagbe, 2011).

This was a period when riparian house-steads were sparse and consisted of a relatively few, homogenous households that knew themselves and shared the same traditional and cultural beliefs. The first suspicion of an impending intrusion in such close knitted house-steads was the mere sighting of a strange man, animal, phenomenon, etc, in the housing environment that had only few accesses; and thus, enabling intruders to be seen from a warning distance.

With urbanization, agglomeration of larger numbers of households and human populations

with diverse tribal and socio-cultural backgrounds resulting in one single, dense and extensive urban settlement, ensuring security of a household has become intricate and complicated. First, strangers could no longer be easily identified as in previous, relatively smaller homogenous settlements. Next-neighbour households in cities are now strangers, as households now change often, in an urban setting characterized by changing tenants and immigrants. Second, property and thus, household boundaries and areas of influence and authority have become smaller and much more curtailed. This may, at first, appear to be an advantage; by limiting areas for security concern of each household. This is however not so, for another third reason! The urban setting is characterized by provision of urban facilities and services, whose agencies like the police, water and electricity boards, gas, milk, paper, etc, agencies, may, by virtue of their duties, have statutory rights of entrance into household premises. Thus the additional communal security provided by the vigilance of every member of the neighbourhood is lost in the urban setting where the challenge of adequate security in the house is largely the responsibility of individual households.

Today, among the major factors of discomfort in urban residential houses in Nigeria is the fear of burglary attack, rape, murder, kidnapping and other similar criminal assaults (Microsoft library, 2007). How do individual households respond to this challenge? Is this response the same for all residents across the different residential zones of the city? If not, what factors account for the differences?

II. METHODOLOGY OF STUDY

First, a reconnaissance survey was made to draw up a checklist of physical security devices used in the city. These include erection of boundary fence, building of security gate, provision of security gatehouse and employment of security guard/gateman.

A total of 1,250 houses, constituting about ten percent (10%) of the projected number of houses (1,2504) in Ogbomoso, by 2008, was sampled in a randomly systematic method. This was done in fifty percent (50%) of the total number of streets in the city; consisting of 18, from the high, 15, from the medium and 14, from the low density residential zones, respectively. In each sampled house, the incidence of any of each of the physical security devices and the socio-economic status of the household were noted

Author : Department of Architecture Ladoke Akintola University of Technology, Ogbomoso, Nigeria.

and recorded. The data obtained was transformed using contingency tables for houses with security fence, security gate, security gate house, and security gateman as in tables 1.0, 2.0, 3.0 and 4.0 respectively.

Similarly, the income, education and employment status of each household sampled was examined; and the comparison shown on contingency Tables 5.0, 6.0 and 7.0 respectively.

Chi-square tests were run to show the significance of the scores on all indicators of physical security devices (Tables 1.0 to 4.0), and indicators of socio-economic status (Tables 5.0, 6.0 and to 7.0) respectively; in the different zones of the city.

Finally, adopting the Pearson product moment coefficient, a correlation test was run between indicators of socio-economic status of residents and incidence of physical security devices in the city (Table 8.0).

III. FINDINGS

The frequency of each indicator of housing security and for indicators of socio-economic status are as shown in the score distributions in Tables 1.0, 2.0, 3.0, 4.0; and 5.0, 6.0 and 7.0 for the high, medium

and low density residential zones of Ogbomoso, respectively.

IV. SECURITY DEVICES

About 68, 64, 45 and 53 percents of the households in the city have security fence, security gate, security gate-house and employ security gateman in the low residential density zone of the city. This is the zone with the highest proportion of households with physical security devices in the city. This is followed by the medium residential density zone with 31.6, 18.6, 12.7 and 10.1 percents, with similar devices; while the high residential density zone generally have the least; with about 8, 1.2, 1.9 and 2.8 percents of the devices, respectively (Tables 1.0, 2.0, 3.0 and 4.0). The Chi-square test result is also shown in the Tables (1.0 to 4.0) as 358.217, as 468.433, 301.918 and 394.301; at 99 percent level of confidence, respectively.

Thus physical security devices are significantly higher or more frequently installed by residents in the low density residential zone of the city. This is followed by residents in the medium density and least in the high density residential zones.

Table 1.0 : Houses with Security Fence

Variables	Residential Density Type						Total	
	High		Medium		Low			
	No	%	No	%	No	%	No	%
No Response	25	4.9	6	1.6	10	2.8	41	3.3
Yes	39	7.7	119	31.6	246	67.8	404	32.4
No	443	87.4	252	66.5	107	29.3	794	63.6
Total	508	100	377	100	363	100	1248	100

X² value: 358.217

Significance level: 0.000 (99%)

Table 2.0 : Houses with Security Gate

Variables	Residential Density Type						Total	
	High		Medium		low			
	No	%	No	%	No	%	No	%
No Response	22	4.3	11	2.9	2	0.6	35	2.8
Yes	6	1.2	70	18.6	233	64.2	309	24.8
No	480	94.5	296	78.3	128	35.3	902	72.3
Total	508	100	377	100	363	100	1248	100

X² value: 468.433

Significance level: 0.000 (99%)

Table 3.0 : Houses with Security Gate House

Variables	Residential Density Type						Total	
	High		Medium		Low			
	No	%	No	%	No	%	No	%
No Response	21	4.1	8	2.1	5	1.4	34	2.7
Yes	4	1.9	48	12.7	164	45.2	216	17.3
No	483	95.1	321	85.1	194	53.4	998	80.2
Total	508	100	377	100	363	100	1248	100

X² value: 301.918

Significance level: 0.000 (99%)

Table 4.0 : Houses with Security Gate Man

Variables	Residential Density Type						Total	
	High		Medium		Low			
	No	%	No	%	No	%	No	%
No Response	14	2.8	5	1.3	2	0.6	21	17
Yes	14	2.8	38	10.1	191	52.6	243	19.5
No	479	94.5	333	8.4	167	46.0	973	78.0
Total	508	100	377	100	363	100	1248	100

X_2 value: 394.301

Significance level: 0.000 (99%)

V. MONTHLY INCOME OF HOUSEHOLDS

Over four (4), and two (2), percents of residents in the low residential density zone of the city earn between ₦60,001 and ₦80,000; and ₦80,001 and ₦150,000 per month respectively. No single household in the medium and high density residential zones, earns this much range of monthly income. Moreover, about 5.3 and 10.7 percents of residents in the medium and low density residential zones earn between ₦40,001 and ₦60,000 per month.

The highest set of income earners (on ₦20,001 – ₦40,000), in the high density residential zone constitutes only 1.2 percent, while those earning such and above in the medium and low density residential zones of the city constitute 19.4 and 42.3 percents respectively. The greatest percentage of those earning below ₦20,000 per month are in the high (69.0%) and medium (57.3%) residential zones. Thus residents with the highest monthly income are in the low followed by the medium density residential zones. Chi-square test for the distribution of these scores across the zones gives 260.512 and is significant at 99 percent confidence level (Table 5.0)

VI. EDUCATIONAL STATUS

About 58 percent of the residents in the low, 30 percent in the medium and 13 percent in the high density residential zones have tertiary education respectively, in the city. Conversely, a higher percentage of residents in the high (38.9%), 27.3 percent in the medium and only 15.4 percent in the low density residential areas have below secondary education (Table 6.0). This result, with a Chi-square value of 251.096 is significant at 99 percent level of confidence. Thus, education status in the city is significantly higher and better among residents in the lower density residential zones of the city.

VII. EMPLOYMENT STATUS

The result of the analysis on the employment status in the city also shows that the cumulative percentage of those employed in the public service (government) and private company is higher for residents in the low residential density zone (37.5%).

This is closely followed by the medium (35.0%) and least in the high (13.8%), density residential zones. It will be recalled that the result on level of income (Table 5.0) shows a much higher trend in the low; and the least in the high residential zones. It is thus clear, that the self-employed, public service employed and private company-employed, in the higher residential density zones earn lower salaries compared to employees in the lower density zones. The latter may mostly be senior and management employees while the former belong to the junior cadre:

With the Chi-square value of 37.271 and at 99 percent level of confidence, the employment status is significantly higher and better in the low followed by the medium, and least in the high density residential zones of the city (Table 7.0).

Table 5.0 : Monthly Income of Respondents

Variables	RESIDENTIAL DENSITY TYPE						Total	
	High		Medium		Low		No	%
	No	%	No	%	No	%		
No Response	151	29.8	88	23.3	80	22.0	319	25.6
1 – 20,000	350	69.0	216	57.3	129	35.5	695	55.7
20,001 – 40,000	6	1.2	53	14.1	92	25.3	151	12.1
40,001 – 60,000	0	0	20	5.3	39	10.7	59	4.7
60,001 – 80,000	0	0	0	0	15	4.1	15	1.2
80,001 – 150,000	0	0	0	0	8	2.2	8	0.6
Total	151	100	377	100	363	100	1247	100

X² Value = 260.512

Significant level = 0.000 (99%)

Table 6.0 : Educational Status of Respondents

Variables	RESIDENTIAL DENSITY TYPE						Total	
	High		Medium		Low		No	%
	No	%	No	%	No	%		
No Response	8	1.6	2	0.5	6	1.7	16	1.3
Non formal	153	14.3	54	14.3	24	6.6	231	18.5
Primary School	125	24.6	50	13.3	32	8.8	207	16.6
Secondary School	141	27.8	20	31.8	87	24.0	348	27.9
Vocational NCE/Nursing	47	9.3	76	20.2	65	17.9	188	15.1
Tertiary/University Education	34	13.2	75	29.1	149	57.8	258	20.7
Total	508	100	377	100	363	100	1248	100

X² Value = 251.096

Significant level = 0.000(99%)

Table 7.0 : Employment Status of Respondents

Variables	RESIDENTIAL DENSITY TYPE						Total	
	High		Medium		Low		No	%
	No	%	No	%	No	%		
No Response	14	2.8	9	2.4	3	0.8	26	2.1
Unemployed	32	6.3	27	7.2	26	7.2	85	6.8
Self employed	368	72.6	198	22.5	18.5	51.0	751	60.2
Public (Govt.) Service Employed	48	9.5	84	22.3	99	27.3	231	18.5
Private Company Employed	22	4.3	48	12.7	37	10.2	107	8.6
Pension	23	4.5	11	2.9	13	3.6	47	3.8
Total	507	100	377	100	363	100	1247	100

X² Value = 87.271

Significant level = 0.000 (99%)

VIII. SECURITY DEVICES AND RESIDENTS' SOCIO-ECONOMICS STATUS

Pearson product moment correlation test was run to examine the relationship between incidence of security devices and residents' socio-economic status. The result, shown in Table 8.0, confirms the direct correlation between these two sets of variables. The trio of monthly income, educational status and employment status – all indicators of residents socio-economic status, each correlates, directly and

significantly, with incidence of boundary fence (0.16, 0.318 and 0.162); houses with security gate (0.49, 0.297 and 0.120); houses with security gate house (0.107, 0.22 and 0.153); and with security gateman (0.118, 0.219 and 0.104), Table 8.0. Thus all indicators of housing security vary directly; and at 99 percent level of significance with the indicators of socio-economic status of residents. Both incidence of security device and residents' socio-economic status increase directly with decreasing residential population density.

Table 8.0 : Correlation between Socio-Economic Status of Household and Physical Security Devices

Variables	Monthly income	Educational status	Employment status	Apartment with Fence	House with Security Gate	House with Security Gatehouse	Houses with Security Gateman
Monthly Income	1						
Educational Status	0.252**	1					
Employment Status	0.196**	0.370**	1				
Apartment with Fence	0.169*	0.318**	0.162**	1			
Houses with security gate	0.149**	0.297**	0.120**	0.495**	1		
Houses with security gatehouse	0.107**	0.220**	0.153**	0.3700.	490**	1	
Houses with security gate man	0.118**	0.219**	0.104**	0.326**	0.378**	0.423**	1

** Correlation is significant at the 0.01 level

* Correlation is significant at the 0.05 level

IX. RESULTS AND DISCUSSION

All physical security devices have significantly, greater incidence of occurrence among residents in the low residential areas of the city. This is followed by the medium, and least in the high residential zones. These indicators and their Chi-square values include security fence (358.217), security gate (468.433), security gatehouse (301.918), and security gateman (394.301), are all significantly higher in the low, followed by the medium and least in the high density residential zones, at 99 percent confidence level.

Similarly, all indicators of socio-economic status (Table 6.0), and Employment status (Table 7.0) are significantly higher in houses within the low, followed by the medium and least in the high density residential zones of the city. The result, each of which is significant at 99 percent confidence level, also has Chi-square values of 260.512, 251.096 and 87.271, respectively.

Thus, households in the lower density residential zone and with higher incidence of physical security devices are also, of the highest socio-economic status. This implies that residents with higher income, education and employment status are

enlightened enough to realize they are at higher risk of burglary attacks. They are also more economically buoyant; on account of their higher pay. The burglary devices are also more easily affordable to them. It is no surprise therefore, that majority of them have these devices in their houses.

X. CONCLUSIONS AND RECOMMENDATIONS

Incidence of security devices against intruders with criminal motives is significantly higher in the lower density residential zones. The variables of such indicators also increase significantly with decreasing residential population. Similarly, residents' socio-economic status is significantly higher in the lower residential zones. Its variables also increase significantly, with decreasing population and residential density zones.

Thus households in the higher residential density zones are of significantly lower incidence of security devices; as they have lower income regime. They can therefore, ill-afford these physical security devices. They are, also, however at lower risk of criminal assault by reason of their lower socio-economic status; and thus, materials possession.

Inspite of the lower likelihood of criminal attacks at a scale possible in the lower density residential zones, residents in the high, and to a greater level in the medium residential zone, may be accosted with petty criminals within their immediate zones. This explains why within the high density zone, security devices consisted more of ethno-medical indigenous forms as noted by Atolagbe (2011). These potent, native charms, that have satisfied this indigenous settlement zone in the past, should be further encouraged within the richer, residents of the lower density residential zones. The latter can choose between the ethno-medical, and conventional, physical forms of anti-criminal security devices. In the face of increasing rate of crime at home, work and highways in Nigeria, and the dwindling efficacy of conventional security devices against the use of grenades, armoured tanks; with which sophisticated burglars break, formidable barriers, alternative devices are due for a welcome. Besides, the ugly trend in current burglary attacks is the invasion of the victim by criminals in large, intimidating numbers. Such burglars have, in the past, knocked and forced victims to open their doors voluntarily; or risk a complete wreck of whole apartments. Ethno-medical devices, with their latent potency, can safe, nay, forestall such harrowing situations.

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