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Alhaji, G. M. and Adamu, H.

College Of Education Waka-Biu, Borno State, Nigeria.

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Positive Impact of Population Growth on Infrastructural and Economic Development, a Case Study of Borno and Yobe States of Nigeria

Alhaji, G. M. and Adamu, H.

College Of Education Waka-Biu, Borno State, Nigeria.

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Abstract

This study examines the positive impact of population growth on infrastructural and economic development in Borno and Yobe States, Nigeria. The research adopted a cross-sectional survey design, utilizing stratified random sampling to select a total of 366 respondents across local government areas in both states. Data were collected through structured questionnaires, focus group discussions, and key informant interviews (KII). Statistical analysis was conducted using descriptive tools such as frequencies and percentages. The study was guided by three objectives: (1) to evaluate the effect of increasing population growth on infrastructural development, (2) to assess the implications of population growth on socio-economic sectors including healthcare and education, and (3) to provide insights into the developmental opportunities associated with population dynamics in conflict-affected areas. Preliminary findings suggest that despite the challenges associated with displacement and insecurity, population growth has contributed positively to the expansion of basic infrastructure, stimulated local markets, and enhanced demand for social amenities. The research highlights the dual role of population growth in shaping economic opportunities and infrastructural transformation within Borno and Yobe States. This study contributes to the broader discourse on population development dynamics, demonstrating that under specific conditions, rapid population increase can serve as a catalyst for infrastructural and socio-economic advancement.

Keywords: Population growth, infrastructure, economic development, Borno, Yobe, Nigeria

For corresponding author:

E-mail: info@esxnpublishers.com

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Introduction

Population growth is a fundamental demographic factor that plays a significant role in the development and socio-economic landscape of regions and countries around the world. It can have both positive and negative implications, depending on how it is managed and harnessed. In Borno and Yobe states of Nigeria, population growth has been a prominent feature over the years, and understanding its potential positive impacts is essential for local policymakers and researchers.

Borno and Yobe states, like many other states in Nigeria, have experienced a rapid increase in population over the years due to several reasons. Factors such as natural population growth, internal migration, and displacement resulting from security challenges have contributed to the population spike. According to the Nigeria Population Commission (NPC, 2006), the combined population of Borno and Yobe states has witnessed steady growth rates over the years despite these demographic pressures.

However, this population growth has presented both opportunities and challenges. On the positive side, a growing population can be harnessed for the progress of Borno and Yobe states. By embracing the potential of a youthful and vibrant population, local policymakers, researchers, and stakeholders can develop strategies that promote economic development, improve infrastructure, and enhance the overall well-being of the residents.

On the other hand, the rapid population growth has also posed serious challenges. The region has been grappling with issues such as insecurity, limited access to basic amenities, and underdevelopment. These challenges have hindered the full realization of the positive impacts of population growth. Therefore, it is crucial to explore and understand the dynamics of population growth in Borno and Yobe states in order to develop effective strategies and policies that can mitigate its negative effects while simultaneously contributing to the progress of the local communities.

Problem Statement /Investigation

Population growth is often viewed as a double-edged sword, with the potential to either drive development or exacerbate existing challenges. In Borno and Yobe states, the rapid increase in population has brought about a complex set of issues that require urgent attention and comprehensive solutions. The studied had been grappling with security challenges, limited access to basic amenities, and underdevelopment, which have been further compounded by the population surge.

This research seeks to investigate the dynamics of population growth in Borno and Yobe states, with a particular focus on understanding its implications for local development. By examining the factors contributing to population growth, the challenges it presents, and the potential opportunities it offers, this study aims to provide valuable insights that can inform policy decisions and development strategies in Borno and Yobe states.

This research gap is particularly evident in the context of Borno and Yobe states, which have been grappling with security challenges, internal displacement, and limited access to basic amenities. The lack of nuanced exploration into the positive aspects of population explosion in Borno and Yobe states inhibits the formulation of targeted policies and strategies that can harness the demographic dividend. Furthermore, without empirical evidence highlighting the potential advantages of a burgeoning population, there is a risk of overlooking avenues for economic growth, job creation, infrastructure development, and community empowerment.

Therefore, the problem at hand lies in the absence of comprehensive studies elucidating the positive impact of population explosion in Borno and Yobe states. This knowledge gap impedes informed decision-making, hindering the development of effective policies tailored to the unique demographic dynamics of the region. Addressing this gap is crucial for devising evidence-based strategies that can transform the challenges associated with population growth into opportunities for sustainable development and enhanced quality of life for the residents of Borno and Yobe states.

Objective(s) of the Study:

The main objective of this study is to determine the positive impact of population explosion in Borno and Yobe states, Specific objectives include:

1. To evaluate the effect of increasing population growth on development of infrastructure.
2. To assess the influences of population growth on the economy of Borno and Yobe states.
3. To find out the impact of population growth on the local environment and natural resources.

Literature Review

Conceptual Framework

This section reviews literature on the topic under study base on conceptual, theoretical and review of related studies. Population Concept Population dynamics is the type of mathematics used to model and study the size and age composition of population as dynamical systems, population is a branch of mathematical biology and uses mathematical techniques such as differential equations to model behavior.

Population dynamics play a pivotal role in shaping the social, economic, and environmental landscape of countries and regions across the globe. The study of population trends, distribution, and growth pattern is crucial for policy makers, economists, and sociologists as provides insights into the challenges and opportunities that come with a changing population. This study explores the various facets of population dynamics, discussing the challenges posed by rapid population growth and aging populations while highlighting the opportunities for sustainable development (Malthus 1978). Rapid population growth remains a significant challenge faced by many nations. Overpopulation can

strain existing resources, issues such as food and water scarcity, inadequate health care, and unemployment. In developing countries, where birth rates often exceed death rates, the strain on infrastructure and social services can be particularly burdensome (Cleland, 2017).

Moreover, unchecked population growth can exacerbate environmental problems contributing to deforestation, pollution, and climate change. These challenges underline the importance of implementing effective family planning programs and policies to manage population growth sustainably (United Nations, 2019). Conversely, several developed nations are experiencing the challenges associated with aging populations. As life expectancy increases and birth rates decline, a larger proportion of the population consists of elderly individuals. While this is a testament to improved healthcare and living standards, it presents unique challenges.

Aging populations strain pension systems, healthcare services, and social security programs. The elderly may require specialized medical care, long-term support, and assistance, impacting health care budgets significantly (Bloom *et al.*, 2015). Additionally, a shrinking workforce due to aging population can lead to labor shortages and reduced economic productivity (Eberstadt, 2016). Amidst these challenges, population dynamics also offer opportunities for sustainable development. A balanced and well-managed population can drive economic growth, innovation, and cultural diversity. A growing workforce can contribute to increased productivity and create a market for goods and services.

Furthermore, a diverse population can foster creativity and innovation. Different perspectives, skills, and experiences within a population can lead to problem solving and entrepreneurial initiatives, contributing to social and economic progress (Florida, 2002).

Population Explosion

Refers to the rapid and unprecedented increase in the human population, especially in short periods of time. This phenomenon typically occurs when birth rates far exceed death rates, leading to a sharp rise in the number of people in a given area or globally.

Population explosion, the rapid and unprecedented growth of the global human population, is a phenomenon that has profound implications for societies, economies, and the environment. With the world's population projected to reach 9.7 billion by 2050 (United Nations, 2019), understanding the causes, challenges, and potential solutions associated with population explosion is crucial for ensuring a sustainable future.

Several factors contribute to the population explosion, including declining mortality rates due to advances in health care, improved living conditions, and better access to education. Additionally, high fertility rates in certain regions, reinforced by cultural norms and limited availability of family planning resources, further exacerbate the issue (Cleland, 2007). This rapid population growth places immense pressure on essential resources such as food, water, and energy. The rising demand for these resources often leads to shortages, price inflation, and potential conflicts over scarce commodities (Lutz, Butz, and KC, 2014). Overpopulation also puts pressure on healthcare systems, education infrastructure, and employment opportunities, leading to reduced quality of life for many individuals (Potts, 2019). Furthermore, environmental degradation, loss of biodiversity, and climate change are exacerbated by the growing human population. Increased consumption patterns and industrial activities contribute to pollution, deforestation, and habitat destruction, threatening the delicate balance of ecosystems worldwide (Steffen *et al.*, 2015).

Addressing the challenges posed by population explosion requires a multi-faceted approach that emphasizes education, healthcare, and empowerment, particularly for women. Educating women about family size, leading to lower fertility rates (Cleland, 2017), comprehensive sex education in schools, health care, particularly maternal and child health services, are essential. Access to health care ensures healthy pregnancies, reduces child mortality, and encourages family planning. Additionally, empowering women economically and socially can help break the cycle of poverty and lead to smaller family sizes (Bongaarts, 2017).

Malthusian Theory of Population

The Malthusian perspective derives from the writings of Reverend Thomas Malthus, an English clergyman and college professor. His first essay titled *On the Principle of Population as its Effects on the Future Improvement of Society* was published in the year 1798. *Improvement of Society* was published in the year 1798. Malthus was of the opinion that food is necessary to the existence of man. He also said that the passion between sexes is necessary and will remain nearly in its present state. The power of population is indefinitely greater than the power in the earth to produce subsistence for man. Population, when unchecked, increases in geometrical ratio; subsistence increases only in an arithmetical ratio. By the law of nature which makes food necessary to the life of man, the effect of these two unequal powers must be kept equal. This implies a strong and constantly operating check on population from the difficulty of subsistence. Malthus believed that human beings, like plants and non-rational animals, are impelled by powerful instinct, the urge to produce. Further, if there were no checks on population growth, human beings would multiply to an incalculable number, filling millions of the world in a few thousand years.

Thomas Robert Malthus was the first economist to propose a systematic theory of population. His views regarding population in his famous book, *Essay on the Principle of Population* (1798), for which he collected empirical data to support his thesis. Malthus had the second edition of his book published in 1803, in which he modified some of his views from the first edition, but essentially his original thesis did not change. In *Essay on the Principle of Population*, Malthus proposes the principle that human populations grow exponentially (i.e., doubling with each cycle) while food production grows at an arithmetic rate (i.e. by the repeated addition of a uniform increment in each uniform interval of time). Thus,

while food output was likely to increase in a series of twenty-five-year intervals in the arithmetic progression 1,2,3,4,5,6,7,8,9, and so on, population was capable of increasing in the geometric progression 1,2,4,8,16,32,64,128,9256, and so forth. This scenario illustrates the contrast between arithmetic food growth and simultaneous geometric human population growth.

Materials and Method

The study involved a sample size of 366 respondents. The sampling technique employed was stratified random sampling. This technique was used to ensure representation from both urban and rural areas within the states, providing a comprehensive view of the impact of population growth. The tool used for collection of data for this study were questionnaire, focus group discussion, interview and others, the questionnaire was designed in such a way that it covers the aspect of the research questions for the study

Nature and Source of Data

The primary source data used were survey which used structured questionnaires, Focus Group Discussion, observation and interview. Thus, questionnaires were designed to gather information on various affected by population, on issues related to healthcare, education, infrastructure, and social services. A sample size of 366 respondents were drawn from both states (Borno and Yobe) by using random sampling of household. Interpreters were hired to interpret some technical issues to the respondents and simple table of percentages were used in analyzing the data.

Results and Discussion

Demographic Characteristics

The demographic distribution of respondents (Table 1; Figure 1) indicates that the majority were aged 26–35 years (126 respondents; 34.4%), followed by those aged 18–25 years (103 respondents; 28.1%), reflecting a relatively young and productive population in both Borno and Yobe States. In terms of gender, 225 respondents (61.5%) were male, while 141 respondents (38.5%) were female.

With respect to occupation, 101 respondents (27.6%) were farmers and 92 respondents (25.1%) were traders, underscoring the agrarian and commercial foundation of the local economies, while 173 respondents (47.3%) engaged in other occupations. Regarding education, 135 respondents (37.0%) had completed secondary education and 94 respondents (25.7%) had attained tertiary education, whereas 137 respondents (37.3%) fell into other categories, including primary, adult, or no formal education. This suggests an emerging literate population with the potential to drive economic transformation if adequate opportunities are provided.

This youthful and fairly educated population indicates a potential demographic dividend (Bloom *et al.*, 2017), but such dividends are only realized when there is sufficient economic absorption capacity. In the absence of job creation and robust infrastructure, this population growth could instead deepen unemployment and poverty.

Infrastructure Outcomes

Table 2 reveal that schools (60% positive) and roads (52% positive) are expanding with population growth, but healthcare facilities are perceived as insufficient (62% rated negative/neutral). Similarly, only 42% reported good access to clean water, which highlights significant disparities across LGAs. This suggests that while population growth stimulates expansion of educational facilities and road construction, social infrastructure such as healthcare and water supply lags behind. Similar findings have been reported in Northern Nigeria, where rural communities often face “infrastructure deficits” despite population expansion (Okeke, 2024).

Focus Group Discussion and KII between LGA and infrastructure perceptions revealed that Maiduguri have more positive improvements compared to Monguno, which aligns with Maiduguri’s role as a regional hub attracting investments. This urban-rural divide is consistent with broader African urbanization trends, where capital cities and commercial hubs grow rapidly, leaving peripheral communities underdeveloped (UN-Habitat, 2020).

Infrastructure (roads, schools, healthcare) positively correlated with overall economic impact ($p = 0.28-0.44$, $p < .01$).

Economic Outcomes (KII and FGD Findings)

Across the six local government areas studied: Maiduguri, Biu, and Konduga in Borno State, and Damaturu, Geidam, and Potiskum in Yobe State both key informants and focus group participants provided insights on the economic implications of population growth.

• Key Informant Interviews (KII):

Informants such as local government officials, market leaders, and business owners consistently highlighted that population growth has stimulated trade and commerce, particularly in Maiduguri and Potiskum where market activities have expanded significantly. They noted that business expansion is evident in Biu and Damaturu, with new shops, food vendors, and transportation services emerging to meet rising demand. Some also pointed out that investment though largely small-scale and informal is gradually increasing in urban centers. However, they cautioned that the benefits are unevenly distributed, as wealthier traders and entrepreneurs are better positioned to capitalize on the expanding market.

These observations resonate with the findings of Adebayo (2019), who reported that demographic pressures in northeastern Nigeria often expand urban markets but create uneven opportunities that favor better-capitalized traders.

- **Focus Group Discussions (FGD):**

Participants, especially ordinary community members, emphasized the persistent poverty across many households despite bustling markets. In Konduga and Geidam, they reported that food prices and cost of living have risen faster than incomes, leaving many families struggling. Youth participants in FGDs noted that while some opportunities exist in construction, petty trading, and transport services in Maiduguri and Potiskum, these jobs are often temporary or poorly paid. Women's groups in Biu and Damaturu also raised concerns that underemployment is widespread, forcing many households to rely on humanitarian aid or informal coping strategies. Some participants warned that frustration among unemployed youth has led to increased vulnerability to social unrest. Similar concerns were highlighted in Okoli and Agada's (2014) study on livelihoods in Borno, which argued that population pressures often deepen poverty and exacerbate social fragility when not matched by corresponding job creation.

Taken together, the findings reveal a dual reality: KIs paint a picture of growing vibrancy in trade, commerce, and small-scale investment, while FGDs underscore the everyday struggles of ordinary people facing poverty, underemployment, and rising prices. Overall, while population growth has injected energy into local economies in Borno and Yobe States, its benefits remain uneven and have not translated into broad-based prosperity. This aligns with Yusuf (2020), who noted that the paradox of "busy markets and poor households" remains a persistent feature of northeastern Nigeria's urban and peri-urban economies.

This duality reflects the Malthusian vs. Boserup debate. On one hand, Malthus (1798) warned that population growth would outstrip resources and cause hardship. On the other hand, Boserup (1965) argued that population growth stimulates innovation, labor specialization, and agricultural intensification. The findings from Borno and Yobe align more closely with Boserup's thesis, as local markets and trade appear to benefit from population expansion. However, the persistence of poverty and underemployment suggests structural barriers such as insecurity, limited capital, and weak institutions that prevent communities from fully benefiting from the economic dynamism brought by population growth.

Environmental Pressures

Environmental challenges are clearly highlighted (Table 3). Farmland pressure (72% severe) and deforestation (64% severe) were the top issues, while land competition (69% severe) and water scarcity (58% severe) also threaten sustainability. These findings echo existing research on the Sahel region, where population pressure accelerates land degradation, overgrazing, and deforestation (Mortimore, 2009). In Borno and Yobe, the combination of rising population and climate change stressors amplifies vulnerability, especially for farming and pastoralist communities. The cross-tabulation further showed that respondents from Monguno and Buni-Yadi rated environmental pressure higher than those from Maiduguri, possibly because rural livelihoods are more directly dependent on natural resources. Environmental degradation negatively correlated with economic impact ($\rho = -0.31, p < .01$).

Policy and Governance

Table 5 show mixed perceptions. While family planning (75% support) and IDPs' contribution (78% positive) were appreciated, only 15% rated government policies as very effective in addressing population issues, with 35% saying policies were ineffective. However, 77% supported new policies to turn population growth into development opportunities.

This indicates that although the population is aware of governance gaps, there is a strong willingness to support policy reforms. In line with UNFPA (2022), such public support is crucial for integrating population dynamics into development planning. Importantly, the positive view of IDPs' contributions highlights a shift from seeing displacement as a burden to recognizing its role in expanding labor supply and stimulating economic activities in host communities.

Summary

This study assessed the positive impact of population growth on infrastructural and economic development in Borno and Yobe States of Nigeria, using data collected from 366 questionnaires distributed equally across six local government areas: Potiskum, Gashua, and Buni-Yadi in Yobe State, and Biu, Monguno, and Maiduguri in Borno State. The findings reveal that population growth has had both positive and negative consequences in the study area. On the positive side, it has contributed to the expansion of educational institutions, road networks, local markets, and business opportunities, particularly in urban centers such as Maiduguri and Potiskum. These improvements have generated employment, enhanced trade, and stimulated local economies. However, population growth has also created significant challenges. The study found that healthcare and water infrastructure remain inadequate relative to population demand, while housing shortages and overcrowding in schools and hospitals are common. Furthermore, population growth has exacerbated environmental pressures, including land degradation, deforestation, and increased competition for farmland. Despite these challenges, respondents expressed strong support for family planning, new policies targeting population management, and recognition of internally displaced persons' (IDPs) contributions to development, though they also indicated that existing government interventions have been largely ineffective.

Conclusion and Recommendations

From the analysis, it can be concluded that population growth in Borno and Yobe States is not inherently detrimental but rather presents opportunities and challenges that must be carefully managed. Infrastructural development such as schools and road networks has improved, yet it lags behind the pace of population increase, particularly in rural LGAs like Monguno and Gashua. Economically, the growing population has boosted market activity, trading opportunities, and the expansion of local businesses, but these gains are overshadowed by rising unemployment and poverty levels. Environmentally, the strain of population growth has manifested in farmland pressure, deforestation, and worsening environmental degradation, consistent with broader patterns in the Sahel region. The study also highlights a governance gap, as weak and poorly implemented policies limit the ability of local governments to transform population growth into sustainable development opportunities. Overall, the evidence suggests that population growth in the region is a double-edged sword: it can drive development when supported by effective policies and investments, but without adequate planning, it risks deepening poverty, inequality, and environmental decline.

To ensure that population growth becomes an engine of development rather than a burden, several measures are recommended. First, infrastructure investment must be strengthened, with particular attention given to healthcare facilities, clean water supply, housing, and rural infrastructural development to balance disparities between urban and rural areas. Second, economic empowerment programs should be prioritized by supporting small and medium-scale enterprises, providing vocational training, and creating job opportunities for the growing youthful population. Third, environmental sustainability needs to be addressed through reforestation, land conservation, and the adoption of climate-smart agricultural practices to mitigate the pressures of deforestation and land degradation.

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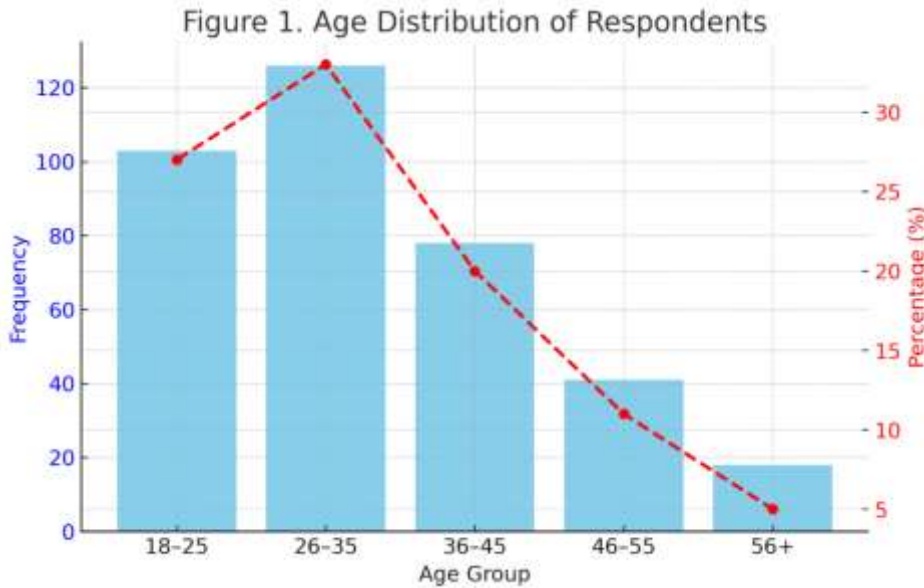
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Figures



Source: Field Survey, 2025

Figure 1. Age Distribution of Respondents

Tables

Table 1. Demographic Characteristics of Respondents (N = 366)

Variable	Category	Frequency	%
Age group	18–25	103	28.1
	26–35	126	34.4
	36–45	78	21.3
	46–55	41	11.2
	56+	18	4.9
Gender	Male	225	61.5
	Female	141	38.5
Occupation	Farming	101	27.6
	Trading	92	25.1
	Civil Service	56	15.3
	Student	64	17.5
	Artisan	33	9.0
	Other	20	5.5
Education	No formal	41	11.2
	Primary	69	18.9
	Secondary	137	37.4
	Tertiary	94	25.7
	Postgraduate	25	6.8

Source: Field Survey, 2025

Table 2. Perceptions of Infrastructure Development

Infrastructure	Positive (%)	Neutral (%)	Negative (%)
Roads	52	20	28
Schools	60	18	22
Healthcare	21	17	62
Clean water access	42	20	38

Source: Field Survey, 2025

Table 3. Environmental Effects of Population Growth

Indicator	Severe (%)	Moderate (%)	Low/None (%)
Farmland pressure	72	18	10
Deforestation	64	20	16
Land competition	69	19	12
Water scarcity	58	24	18

Source: Field Survey, 2025

Table 4: Governance and Policy Perceptions

Indicator	Positive (%)	Neutral (%)	Negative (%)
Effectiveness of current policies	15	50	35
Family planning support	75	15	10
IDPs' contribution to development	78	12	10
Support for new population policies	77	13	10

Source: Field Survey, 2025