



Pastoralists' Perception of Resource-Use Conflicts as a Challenge to Livestock Development and Animal Agriculture in Southeast, Nigeria

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Abstract

One of the major but hidden challenges to livestock development and animal agriculture the world over is resource-use conflicts between crop farmers, pastoralists and other land users. This is so because during conflict situation, almost all human livelihood activities come to a standstill including livestock farming. This study therefore sought to examine how conflicts involving different land users hinder livestock production. Questionnaire and oral interview were used to obtain information from a total of 120 pastoralists in three selected states of Southeast (Abia, Enugu and Imo). Data were analyzed using percentages, mean and standard deviation. The results showed that the mean age of pastoralists was 38, and the mean household size was 10, mean herding experience was 18. The following were the causes of resource-use conflicts - blocking of water sources by crop farmers with a mean (M) response of 3.30, farming across cattle routes (M = 2.95), burning of fields (M = 3.30), theft/stealing of cattle (M = 3.40), among others. The factors attracting the pastoralists to the study area were availability of special pasture (M=2.37), availability of land for lease (M=2.52), water availability (M=2.60) among other reasons. Conflicts, therefore, affect livestock production in the following ways - unsafe field for grazing, poor animal health, loss of human and animal lives, abandonment of herds for dear life and many others.

Keywords: Animal; Agriculture; Conflict; Livestock; Pastoralists

Introduction

In Nigeria, grazing lands are rarely demarcated, and this large sector of agriculture always suffers compared to crop farming or fruit plantation [1]. The latter two are mostly demarcated favorably for the fact that most people are sedentary, and areas needed are small. The establishment of demarcated rangelands and passageways (cattle corridors) allow the livestock to access water points and pastures without causing damage to cropland [2]. Pastoralists usually graze over areas outside farm lands, and these have been accepted to be the norm from time immemorial. Their movements are opportunistic and follow pasture and water resources in a pattern that varies seasonally or year-to-year according to availability of resources [2].

Livestock production in the form of pastoral livestock keeping is among the most suitable means of land use in arid areas of Africa because of its adaptability to highly variable environmental conditions. In Nigeria, most pastoralists do not own land but graze

their livestock in host communities [3]. While a few have adopted the more sedentary type of animal husbandry, the increasing crises between farmers and pastoralist presupposes that grazing is a major means of animal rearing in Nigeria. The livestock sector in Nigeria is plagued by several challenges such as lack of adequate supplies of quality feed and pasture, diseases, weak market network, unavailability of adequate water and poor veterinary services [4-7], reiterate that the sector is constrained by institutions, markets and policy as well as technical issues. More recently concern on herdsmen-farmers' conflicts has appeared in literature and policy discourse as one of the formidable challenges facing livestock production (particularly ruminant) in many developing countries. Resource-use conflicts in Nigeria have persisted and stands out as a threat to national food security, livestock production and eradication of poverty with pastoralists often regarded as the most vulnerable. Resource-use conflicts not only have a direct impact on the lives and livelihoods of those involved, they also disrupt and

threaten the sustainability of agriculture and pastoral production in West Africa [8]. So many land users make their livelihood within the same geographical, political, and socio-cultural conditions, which may be characterized by resource scarcity [9] or political inequality and population pressure. Pastoralists are believed to be more vulnerable compared with farmers because their cattle can be confiscated and/or seized and released only on payment of a fine. Besides, sometimes they are in the minority and could lack political power to their advantage [10].

Resource use conflicts/clashes according to Adisa and Adekunle [11], are becoming fiercer and increasingly widespread in Nigeria. A study of 27 communities in central Nigeria by Nyong and Fiki [12] shows that over 40% of households surveyed had experienced agricultural land-related conflicts, with respondents recalling conflicts that were as far back as 1965 and 2005. Okoli and Atelhe [13], showed that about 13 cases of farmer-herdsmen conflicts across states of the federation which claimed 300 lives of the citizens. In Abia, Enugu and Imo States, there have been cases of conflicts between pastoralists and crop farmers in Umunneochi, Ugwunagbo Uzo-uwani, Nkanu-West, Udi, Ohaji/Egbema, Owerri West, and Okigwe areas of the States over crop destruction by cattle, killing of herders and stabbing of farmers following reprisal attack on different occasions [14]. Therefore, the study examined challenges of resource-use conflicts to livestock production in the Southeast region of Nigeria. It specifically sought to: describe the socioeconomic attributes of respondents; b. examines causes of conflicts as perceived by the pastoralists; c. identifies factors that attract the pastoralists to the state; and, d. ascertain challenges of resource-use conflicts to livestock agriculture.

Methodology

This study was conducted in Southeast agro-ecological zone of Nigeria. The zone lies within latitudes 5°N to 6°N of the equator

and longitudes 6°E and 8°E of the Greenwich meridian. Southeast Nigeria is made up of five (5) states-Abia, Anambra, Ebonyi, Enugu and Imo. The zone occupies a total land mass of about 10,952,400 hectares with a population figure of about 33,381,729 persons in 2018 projected from 2006 National Population Commission Census figure [15]. About 60-70% of the inhabitants of the zone are observed to engage in agriculture, mainly crop farming and animal rearing [16]. The 2-stage sampling technique was adopted in the process of sample selection. The first stage was the purposive selection of three states from the Southeast agroecological zone where cases of farmer-pastoralists conflicts have occurred and were reported (Abia, Enugu and Imo). The second stage involved the random selection of 120 pastoralists from the list of 180 pastoralists from their various camps in the three states. Both primary and secondary data sources were used. Simple descriptive statistics such as mean, percentage, frequency distribution was used to analyze the socio-economic characteristic of the respondent. Objective 1 was analyzed using percentage presented in table. Mean was computed on a 4-point Likert type rating scale of strongly agree, agree, disagree and strongly disagree assigned weight of 4,3,2,1 to capture the perceived causes of the conflicts (objective 2) and challenges of conflicts to livestock development (objective 4). The values were added and divided by 4 to get the discriminating mean value of 2.5. Any mean value equal to or above 2.5 was regarded as a major factor causing conflict and challenge to livestock development, while values less than 2.5 were regarded none. Again, mean was also computed for objective 3 which looked at factors attracting pastoralists to the area on a 3-point Likert type rating scale of very serious, serious and not serious assigned values of 3,2,1. The values were added and divided by 3 to obtain a discriminating mean value of 2.0. Any value with mean equal to or greater than 2.0 was considered very serious and vice versa (Figure 1).

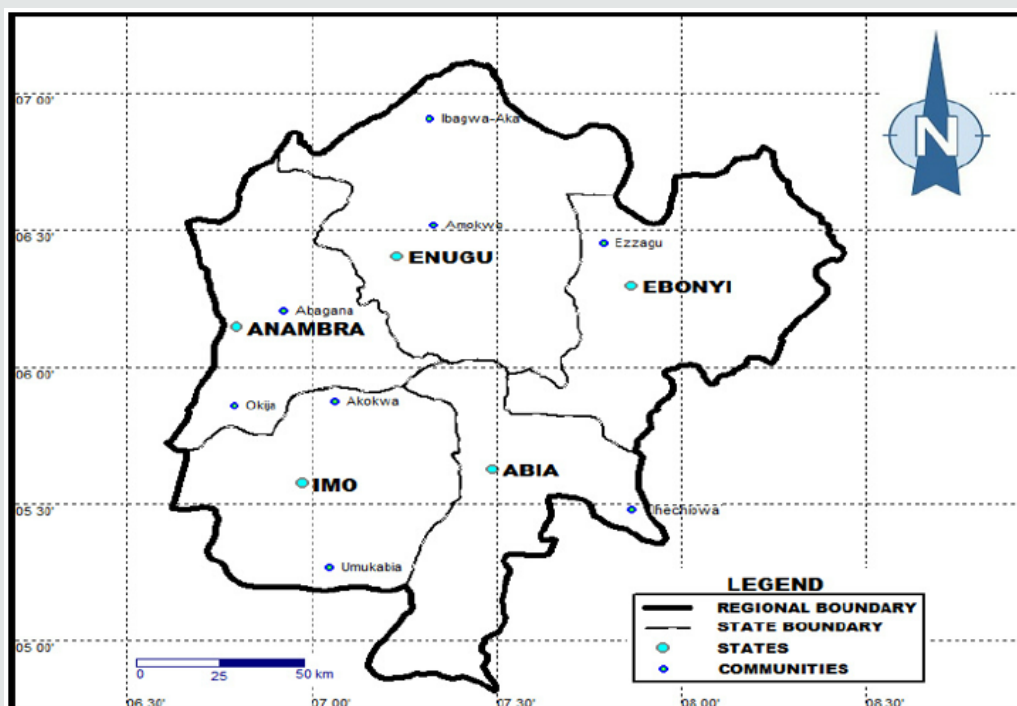


Figure 1: Map of Southeast Nigeria Showing the Three States under Investigation (Abia, Enugu and Imo).

Results and Discussion

Socioeconomic Characteristics of Respondents

Table 1 showed that 83.3 percent of the pastoralists were married, while 16.6% were single. The predominance of married people among the pastoralists could be attributed to the complementarity experienced in farm labour provision at the household level. The man, woman and children pool their physical reserves to keep the arm on course. It is worthy to note that there are potential soldiers at the event of land use conflict. Whereas 85.8% of the pastoralists had quranic education, 10 percent had primary education, then, only 4.2% had no formal education. The pastoralists, all (100%) belonged to social organizations; Islamic unions and or herder unions. These respondents who belonged to social organization will likely benefit and share knowledge and experiences through contacts and cross-fertilization of ideas. The organization could also provide forum to plot, plan and execute attack.

Table 1: Socioeconomic Characteristics of Respondents(N=120).

Characteristics	Frequency	Percentage
Marital status		
Single	20	16.6
Married	100	83.3
Education level		
No formal education	5	4.2
Quaranic education	103	85.8
Primary school	12	10
Organizational membership		
MACBAN	90	75
FYAN	30	25
Ownership of cattle		
Self	3	2.5
Politician	25	20.8
Alhaji/traditional ruler	35	29.2
Military officer	57	47.5
Other characteristics	Mean	
Age	38	
Household size	10	
Herding experience	18	
Herd size	61	
Income	N53.500 monthly	

The table reveals that 47.5 percent of the pastoralists indicated that the animals are not their own but that of military officers, retired and serving. Some of the animals are also owned by alhajis and traditional rulers in the north (29.2%) who have established contacts with their kits and kins to protect their interest where ever they may be. Also, 20.8 percent and 2.5 percent respectively are owned by the pastoralists themselves and few politicians who also trade in animals. The result explains the effrontery of the pastoralists and their seeming more powerful than the natives who are always helpless at their audacity. The mean age range

was 38 years. This implies that the pastoralists are also young and can endure the difficult nature of their practice of trekking very long-distance day and night. The average herding experience was 18 years. Experience is a valuable asset. The years of experience of the pastoralists could enable them to relate encounters they had; causes, effects and resolution. The mean herd size was 61. This is indeed large, and it reveals the fears of the crop farmers should cattle numbering into 30-100 invade their farms. A great deal of damage would be done, livelihood activities may be lost, food insecurity enthroned in addition to accentuated poverty. The average monthly income was N53,500.00. The pastoralists in their course sell the cattle and they also reproduce under their care.

Perceived Causes of Resource-Use Conflicts in the Study Area

Table 2 showed the pastoralists perception of the causes of the conflicts involving them and the crop farmers. Although they may seem to blame crop farmers or shy away from reality of telling the truth. To them the causes of the conflicts included blocking of water source by crop farmers (M= 3.30), farming across cattle routes (M = 2.95), limited grazing areas (M = 2.70), burning of rangeland/field by crop farmers (M = 3.28). They claim that farmers block the wells, ponds and river routes where their animals drink. They also assert that farmers set their grazing areas ablaze and farm across their animal routes thereby hindering their movement. Other causes of conflict were claim of land ownership (M = 2.64) by the farmers; farmers fight herdsman (M = 3.00), setting of traps along the cattle way (M = 2.74), harassment of pastoralists (M = 3.01) by the youths, stealing/theft of cattle (M = 3.40), and poisoning of water source (M = 2.80). The pastoralists see land as a free gift of nature and as such nobody should prevent others from the use of it and make laws regarding it against others. To them, land is for all and should be used as desired.

Table 2: Perceived causes of Resource-use conflicts.

Perceived causes	Mean	Standard
Sexual harassment of crop farmers	2.05	0.932
Blocking of water source by crop farmers	3.3	0.833
Farming across cattle routes	2.95	0.638
Limited grazing areas	2.7	0.984
Population growth	1.8	0.75
Burning of rangeland/field	3.28	0.784
Claim of land ownership	2.64	0.841
Farmers fight with herdsman	3	0.571
Setting traps for herds by crop farmers	2.74	0.741
Harassment of nomads by community youths	3.01	0.875
Theft/stealing of cattle	3.4	0.916
Stealing of farm produce by nomads	1.5	0.547
Contamination of stream by cattle	2	0.578
Farm fragmentation	1.8	0.645
Cultural differences	2.5	0.784
Lack of respect for authority	2.15	0.656
Poisoning of water sources	2.8	0.745

Factors Attracting Pastoralists to the Study Area

Table 3 showed that several factors attracted the Fulani pastoralists to the state. Among the factors were water availability with a mean (M) response of 2.60 and availability of land to lease with mean score of 2.52. Water is life of both man and animals and the availability of streams and rivers in the Southern part of Nigeria becomes a reason for the pastoralists' invasion of Imo state. Again, even during the dry season, water sources remain intact as families get water either from streams, rivers and even ponds. Land for lease or rent (M=2.52) to the head of the pastoralists is also available. These lands are mostly abandoned land not good enough for immediate crop production. The pastoralists are given this type of land for a specified period of time. Availability of special pasture with mean score of 2.37, market opportunity (M = 2.04), absence of tse-tse fly (M = 2.41) and support/backing from influential people with mean (M=2.11) were other reasons attracting pastoralists to the study area. Special pasture here means grasses and legumes that are highly nutritious to the animals and that can grow faster after being eaten by the animals. It involves digestibility, palatability and fastens reproduction of animals. This type of pasture draws the animals to the area often. Influential people in community also work with the pastoralists. These include traditional rulers who come in contact with the pastoralists, politicians, retired/serving civil servants, and military men-retired/serving who have established relationship with the pastoralists. Because they have the backing / support of those individuals, the pastoralists flock to the study.

Table 3: Factors that Attract the Fulani man to the Area.

Factors	Mean	Standard
Availability of special pasture	2.37	0.667
Availability of land to lease	2.52	0.508
Support/backing from influential people	2.11	0.386
Water availability	2.6	0.351
Absence of tse-tse fly	2.41	0.67
Market opportunity	2.04	0.57

Conflicts as a Challenge to Livestock Development and Animal Agriculture

Conflict is a major challenge to livestock development and animal agriculture not only in the study area, but the world over. Any situation that brings chaos is not healthy for humans and animals as all will be restless and disturbed. Table 4 revealed that during conflicts the grazing field for animals becomes unsafe as shown by a mean response of 3.30, poor animal health (M = 3.27), animal/herd abandonment (M = 3.38), loss of human lives (M = 3.33), loss of farm income (M = 3.37), cattle rustling/raiding (M = 3.32) and high cost of animal products (M = 3.25). The above situation presents a big challenge to animal agriculture as rearers of animals will put a stop to business and run for their dear lives thereby making the livestock suffer neglect and abandonment. Due to concern for human lives and property, the business of animal rearing will take second fiddle, after all, the living will do the things that are important because there is life. Again, during conflict, livestock markets are closed (M = 3.20) as both buyers and sellers will be in fear of going to the market to risk being attack. Market is an area where buying and

selling and other economic transactions take place for the survival of man. When market for livestock is cease, the economic life of the people is touched. Demand for livestock is reduced (M = 3.27), total loss of pasture (M = 3.40) where animals feed is also a challenge to livestock development and animal agriculture. Conflicts reduces the facilitating functions of animals (M = 3.21). Rearers of animals sell them for meeting up with their financial obligation and family responsibilities. The money from cattle and other animals facilitates the performance of other necessary roles, function and obligation sponsoring social gathers and other traditional events.

Table 4: Challenges of Conflicts to Livestock/ Animal Agriculture.

Perceived challenges	Mean	Standard
Unsafe field for grazing	3.3	0.853
Poor animal health	2.27	0.816
Animal/herd abandonment	3.38	0.64
Insufficient food for livestock	2.68	0.858
Insufficient beef supply	2.5	0.877
Outbreak of animal diseases	2.65	0.662
Loss of human lives	3.33	0.828
Loss of farm income	3.37	0.622
Loss of animals	2.9	0.981
Forced migration of herders	2.75	0.757
Poisoning of animal water source	2.95	1.011
Cattle rustling/raiding	3.32	0.853
High concentration of animals	3	0.678
High cost of animal products	3.25	0.638
Insecurity of trade routes	2.98	1.025
Livestock market closures	3.2	0.966
Lack of demand/reduced demand	3.27	0.75
Total loss of pasture	3.4	0.735
Reduced facilitating functions of animals	3.21	0.967
Disrupt salable services of animals	3.41	0.841

Conflict changes the structure of livestock market which disproportionately affects the livelihoods of livestock producers and livestock traders as well as consumers' access to livestock products. Other major factors are: insecurity of trade routes; market closures or destruction; lack of demand; the departure of traders from some conflict-affected counties FAO [17], forced migration of millions of heads of livestock. In some cases, herders' choices of migration routes were influenced by the need to protecting their livestock rather than feed and water availability.

Conclusion

Conflicts between pastoralists and crop farmers in agrarian communities present a formidable challenge to livestock production in Nigeria. This is due to the problems of incompatibility of livelihood strategies, competition for access and use of natural resources such as land and water. Pastoralists - crop farmers' conflict has production and economic consequences for herding. Among the most direct effects are loss of human lives, reduced number of livestock as well as reduced access to water, pasture and even loss of homes. In addition, the conflicts lead to distrust in other

communities and a strong omnipresent perception of insecurity which entails several and partly interconnected subsequent effects. These effects include ineffective resource use, reduced mobility, closing of markets and schools and obstacles for investments. There is a need for effective conflict mitigation that breaks the cycle of violence, retaliation and impoverishment. There is need to move from the conflicting to a cooperative path, which could start by addressing the capability of the actors.

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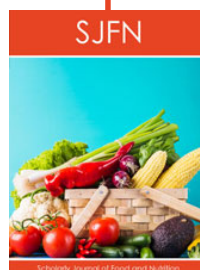


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