



Research Paper

Effects of resource-use conflicts on rural women farmers in south-east agro-ecological zone of Nigeria

Accepted 15th March, 2018

ABSTRACT

This study analyzed specifically the effects of resource-use conflict especially, land on rural women farmers in Southeast, Nigeria. A total of 300 rural women farmers were purposively selected from 3 states in southeast where conflicts have occurred. Data collected were analyzed descriptively – using percentages, mean and standard deviation. Results obtained showed that farmer-farmer conflicts, pastoralists – farmer conflicts and communal conflicts were predominant in the study area with 100% response. The major causes of resource use conflicts were increasing population (M = 3.37), overgrazing of farmland (M = 3.35), breakdown of moral economy (M = 3.57), pollution of water (M = 3.46), among others. The effects on women included reduced crop yields (M = 3.37), burning of crops (M = 3.38), reduced farm, reduced income (M = 3.01), loss of human lives (M = 3.56), rape/abduction of women (M = 3.00), hatred (M = 2.63), fear (M = 2.57), widowhood (M = 2.93) among others. The following strategies were identified, giving financial assistance to victims (M = 2.65), creating job opportunities (M = 2.53), proper land use planning (M = 2.63), and compensation to land owner (M = 3.67). These farmers could be helped by providing credit facilities and proper land use planning programme.

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Key words: Conflicts, farmers, agriculture, health, women.

INTRODUCTION

Land remains an important natural capital for every nation and individuals worldwide, and as a result, it is not unusual that there is land conflict across the world, especially in developing nations where a huge population depends on agriculture for their livelihood (Wehrmann 2008). Land-related conflicts are increasingly becoming a threat to rural economic activities, such as agriculture in most sub-Saharan African countries (Yamano and Deininger, 2005; Deininger and Castagnini, 2006). The prevalence of these conflicts is escalating at a time when crop yields are stagnant or even declining for some countries in the region (Otsuka, 2006). It is therefore apparent that, as governments grapple to enhance technology adoption and revamp the agriculture sector's performance to meet the high and increasing demand for food, land tenure security becomes crucial in attaining this

goal (World Bank, 2008).

In most African countries, land conflict commonly arise at the countries' boarder level, district boarder, among ethnic groups, in the community over common land, and between individuals over boundary (Mamo, 2006). Land conflict between individuals is the most common type of conflict in the rural community, and yet in many cases, conflict at this level lack sufficient attention from the authority. On the other hand, countries' boarder conflict, district and inter-ethnic land conflict received major response, which tends to result into immediate solution due to political dimension involved (Mamo, 2006). Because of lack of attention by the authorities over land conflict at the rural community, some vulnerable people such as women and orphans have continued to lose their rights to land to the greedy people. Some people have

lost their lives due to land fight and some incidences of land conflict creates hatreds among the parties involved, which goes on from generation to another. Moreover, the individuals who lose their rights to land due to conflict find themselves in deep poverty, due to decline in productivity, food insecurity and a fall on the income level. The increase in the incidences of land conflict in Africa is largely being attributed to the failure of existing land tenure systems to address the challenges that hinders the use of land in more effective way, which would permit investment and enhance productivity ref. The struggle for land is also being exacerbated by increase in population, resource scarcity and other factors, such as technological change, improved terms of trade for agriculture and demand for land for non-agricultural use (Deininger and Castagnini, 2005). Sjaastad et al. (2007) also looked at exclusion and relative deprivation as major cause of conflict in Africa.

Nigeria has experienced conflicts of grave proportions among several ethnic and religious communities in different regions and states. In the far north, for instance, a conflict of religious nature continues to break out at locations, such as Kano, Katsina, Zaria and Kaduna, and more recently, Maiduguri among other places (Chikaire et al., 2011). In the Southwest, there were violent communal conflicts at Sagamu, Lagos, Ife -Modakeke, etc. In the South-East, the Umuleri-Aguleri conflicts were most noticeable. The communal and oil-induced conflicts in the Niger Delta also increased in scope and intensity (Best, 2009). However, a research conducted by Elaigwu (2005) confirms that some states in the Northern Nigeria have experienced one or more ethno-religious conflicts except Kogi and Zamfara States. These conflicts have adversely affected the country's development and security.

Land is probably the most important resource needed by man for his day-to-day existence. All human livelihoods and activities are directly or indirectly dependent on land at varying thresholds (Chikaire et al., 2011). Land connotes different meanings to the various user groups. For instance, builders, manufacturers, fishermen, miners, hunters and farmers have different specifications in their requirement for land for their production/services. Out of all user-groups, agricultural production perhaps exhibits the highest form of sophistication in its use of land (Isah, 2012). Not only must agricultural land be capable of supplying crop-specific nutrient and water; soil temperature, structure, texture and pH levels are inevitable requisites in the choice of land for agricultural production activities; yet, land is a limited, somewhat scarce resource with natural access and usage barriers.

These factors of specifications, multifarious uses of land and its limitedness have necessitated that various shades of competition for its utilization must ensue. Thus, competition for land between and within various user groups has been the bane of mankind since time immemorial. Non-agricultural user groups compete with agricultural user groups on one hand, while there are various levels of intra user -group competition on the

other hand. Indeed, competition for land use is becoming keener and fiercer, largely due to increasing human and animal populations (Gefu and Kolawole, 2002). It has been shown that increasing population growth rate has continued to exert great pressure on available land resources with varying environmental and socio-economic implications (Dietz et al., 2001; Tarhule and Lamb, 2003; Fiki and Lee, 2004).

Farmer-herdsmen conflict has remained the most preponderant resource-use conflict in Nigeria (Ajuwon, 2004; Fasona and Omojola, 2005). The necessity to provide food of crop and animal origin, as well as raw materials for industry and export in order to meet ever-growing demands, has led to both intensification and intensification of land use (Nyong and Fiki, 2005). The competition of these two agricultural land user-groups, however, has often times turned into serious overt and covert manifestation of hostilities and social friction in many parts of Nigeria. The conflicts have demonstrated high potential to exacerbate the insecurity and food crisis particularly in rural communities where most of the conflicts are localized, with reverberating consequences nationwide (Isah, 2012).

Ajuwon (2004) reported farmer – herdsmen conflict in Imo State, Southeast Nigeria. He noted that between 1996-2003, nineteen (19) people died and forty two (42) people injured in this rising incident of farmers–herders conflicts, and the violence that often accompanies such conflict is an issue that can be regarded as being of national concern (Ajuwom, 2004). These conflicts were threats to both peace and national stability. Also, in a study carried out in Nigeria's Guinea Savannah, Fiki and Lee (2004) reported that out of 150 households interviewed, 22 reported loss of a whole farm of standing crops, 41 reported losses of livestock, while eight households from either sides reported loss of human lives. Their study also indicated that stores, barns, residences and household items were destroyed in many of the violent clashes. Serious health hazards are also introduced when cattle are made to use water bodies that serve rural communities.

Statement of the problem

The effects of conflicts world over have been documented in scholarly literature. These include death, displacement, health, and education (Justino, 2007). In the view of Yahaya (2011), conflict disrupts markets, banking, and credit systems. In the absence of all these facilities, life becomes unbearable for the society at large, but women and children face the consequences more than men because of cultural roles assign to them. Nevertheless, even when exposure to actual armed violence is limited, the effects in terms of loss of security, income and service access, displacement, and other such phenomena are considerable. Notwithstanding, little attention have been given to the socio-economic, health and psychosocial

effects of land conflict on women in Southeast states of Nigeria, where land conflicts of different categories have occurred. It is in line with this that this study sought to examine the socio-economic effects of land conflict on women and children in the three southeast states namely Abia, Imo, and Enugu. The general objective of the study was to examine the socio-economic effects of land conflict on women and children in the studied states. The specific objectives were to a). Identify the various forms/types of conflicts in the studied states, b). Ascertain perceived causes of land-related conflicts in the areas, c). Describe effects of land-related conflicts on agricultural production, health and psychosocial well-being of the respondents, and d). Identify strategies for cushioning the effects of land-related conflicts on the respondents.

METHODOLOGY

This study was conducted in southeast agro-ecological zone of Nigeria, characterized by tropical rainforest. The Southeast agro-ecological 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, and 400 ha with population figure of 17, 381, and 729 persons in 2016 projected from 2006 National Population Commission Census figure (National Population Commission, 2006). The multi-stage (4-stage) sampling technique was adopted in the process of sample selection. The first stage was the purposive selection of three states from the Southeast agro ecological zone, where cases of conflicts including farmer-pastoralists conflicts have occurred and were reported. Here, Abia, Enugu and Imo States were selected since conflicts occurrences have been recorded and reported widely. Also, Enugu was selected because it is the gateway through which the nomads enter southeast from the North-central, settle and graze before moving to the other states of the Southeast. The second stage involved the purposive selection of the Local Government Areas where these conflicts occurred. In Abia State, two Local Government Areas were selected, namely Umunneochi and Ugwunagbo Areas. In Enugu, Uzo-uwani, Nkanu West and Udi Local Government Areas were also selected for the study, while in Imo State, Ohaji/Egbema, Owerri West, and Okigwe Local Government Areas were chosen, as well. The third involved the purposive selection of the communities in the Local Government Areas, where conflicts between crop farmers and pastoralists have occurred. In Abia, Isuochi and Lokpanta communities were chosen from Umunneochi Area, while Uturu was selected from Ugwunagbo Area. From Enugu State, Nimbo (Uzo-uwani), Ishi-ozalla (Nkanu West) and Ogui-Agueke (Udi) communities were chosen from the three Local Government Areas. From Imo State, Awarra and Umuapu (Ohaji/Egbema), Irete (Owerri West) and Ihube (Okigwe)

communities were selected. The fourth stage involved the proportionate selection of 105 crop farmers from a total of 1050 affected farmers from Abia state, 69 crop farmers from a total of 695 crop farmers from Enugu state and a selection of 126 affected crop farmers from a total of 1260 affected farmers from Imo state. This gave a total sample size of 300 crop farmers selected from the household lists of 3,005 crop farmers affected by the conflicts obtained and compiled by various agencies of the three States (Office of the Governor on Peace and Conflict Resolution; Local Government and Chieftaincy affairs). The primary data were collected through questionnaire (survey), observation, and interview schedule. The data were collected from women farmers only. The secondary data were obtained from publications, such as research reports, academic journal and conference proceedings found relevant to this study. Descriptive statistical tools, such as percentages presented in frequency distribution tables, bar chart, mean and standard deviation were used to achieve objective 1. 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). The values were added and divided by 4 to obtain the discriminating mean value of 2.5. Any mean value equal to or above 2.5 was regarded as a major factor causing conflict, while values less than 2.5 were regarded as minor factors. Mean was also computed on a 3-point Likert type rating scale of major effect, minor effects, and no effect assigned weight of 3,2,1 to capture the perceived effects of land-related conflicts on the respondents (objective 3). The values were added and divided by 3 to obtain the discriminating mean value of 2.0. Any mean value equal to or above 2.0 was regarded as major factor effects of land-related conflict, while values less than 2.0 were regarded as no effects. The 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 strategies to cushion the effects of land-related conflicts (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 strategy for cushioning the effects of land-related conflict, while values less than 2.5 were not regarded as strategies.

RESULTS AND DISCUSSION

Types/dimensions of Conflicts in study states

Table 1 shows that the respondents have witnessed conflicts of different dimensions in the study area. The commonest being communal conflicts, farmer-farmer conflicts and pastoralists-crop farmer's conflicts (100%). These 3 types of conflicts are regularly occurring in the studied states with grave consequences on individuals living. The 3 types of conflicts identified are mostly

Table 1: Types/dimensions of conflicts in study states.

Conflict types	Frequency	Percentage
Farmer – farmer conflicts	300	100
Farmer – conservationist conflicts	10	3.3
Pastoralists – conservationist conflicts	0	0
Pastoralists – fishermen conflicts	53	17.6
Pastoralists – fishermen conflicts	300	100
Communal conflicts	300	100
Religious conflicts	110	36.6
Political/civil unrest/disturbances	64	21.3

Field survey (2016).

Table 2: Causes of land -related conflicts.

Causes	Mean	SD
Increasing population	3.43	0.932
Loss of respect for culture	2.76	0.751
Breakdown of moral economy	3.57	0.638
Encroachment without permission	3.30	0.984
Disregard for traditional authority	2.85	1.021
Increasing needs/marginalization	3.76	1.155
Theft of farm produce	2.68	1.239
Land tenure issues	3.28	0.608
Tress-passing boundary markers	2.86	0.382
Overgrazing of farm land	3.35	0.757
Pollution of water sources	3.46	0.695
Land grabbing	3.38	0.655
Scarcity of land	3.03	1.054
Inheritance problems	3.56	0.774
Overlapping ownership	3.42	0.632
Fragmented land	2.61	0.875
Low awareness of stock routes	3.10	0.952
Disobedience of tenancy rules	3.40	0.712
Orchestration of climate change	2.62	0.552
Sexual harassment of women/girls	2.86	0.787
Destruction of crops by animals	3.04	1.252
Impunity in use of land resources	3.56	1.574
Political instability/insensitivity	2.78	0.564
Loss of tradition relationship	3.08	0.744

Field survey (2016). Mean = 2.50 above were major causes.

occasioned by land use competition and control. Other forms of conflicts were religious conflicts (36.6%), political/civil unrest/disturbances (21.3%) and farmer-conservationists conflicts (3.3%), which occurs in forest reserves and settlements where farmers fell trees for staking yam and homestead buildings. According to Mohamed and Ventura (2000), conflict on land and other natural resources can be a result of disputes within one or among several communities, such as boundary dispute between the community and outsiders, boundary dispute between members of the community, resource use dispute between community and outsiders, resource use dispute between community members, land use dispute between community and outsiders, as well as land use dispute between community members. This means that conflicts

inland uses and other natural resources are typically associated with opposing interests over the type of land use, limited access and use rights, unclear ownership and property rights, and the delineation of boundaries

Perceived causes of land-related conflicts in the study states

Table 2 showed the distribution of respondents by their perceived causes of land – related conflicts. Based on a discriminating index of 2.50, the causes of land – related conflicts varied and were many. They are increasing population with a mean response of 3.43, loss of respect for culture (M = 2.76), breakdown of moral economy (M =

Table 3: Perceived effects of land –related conflicts on agricultural production.

Effects on agriculture	Mean	SD
Reduced crop yield/productivity	3.37	0.816
Burning of crops in field	3.38	0.640
Stealing of farm produce	3.31	0.484
Inadequate food for the family	2.68	0.858
Reduced farm income	3.01	0.902
Land redundancy	3.56	0.648
Unable to repay debts and loans	3.65	0.600
Missing of planting season	3.22	0.579
Poor harvest	3.55	0.765
Loss of capital investment	2.90	0.981
Migration/loss offarm labour	3.48	0.811
Farmers turn refugees	3.50	0.738
Scarcity of food items	3.55	0.785
Denial/loss of land right	3.00	0.507
Loss of human lives	3.56	0.516
Loss of houses and properties	2.54	0.604
Reduction in the quality of farm produce/animal products	2.91	0.903
Loss of stored produce/livestock product	3.13	0.678
Reduced access to farm resources	3.24	0.556
Loss of access to firewood collection	3.43	0.742
Reduction in quantity of food crop/animal product	3.35	0.662
Loss of food sources	3.56	0.638
Engagement in non-farm activities	3.00	0.735

Field survey (2016). Mean score 2.50 above are major effects.

3.57), encroachment without permission (M= 3.30), land tenure issues (M = 3.28), trespassing boundary markers (M = 3.35), land grabbing (M= 3.38), scarcity of land (M= 3.03), inheritance problems (M = 3.56), overlapping ownership (M = 3.42), fragmented landholdings (M = 2.61), disobedience of tenancy rules (M= 3.40), and loss of traditional relationship (M = 3.08). These are major causes of land – related conflicts when those involved are all crop farmers.

In addition, when pastoralists are involved, the following are possible causes conflicts: theft of farm produce for poverty alleviation by pastoralists (M = 2.68), pollution of water sources (M = 3.46), this happens when cattle defecate on rivers/streams, regarding land as common property (M = 3.10), sexual harassment of women and girls (M = 2.85), and destruction of crops by animals (M = 3.04). Other causes of land related conflicts could be climate change issues (M = 2.62), which affects the distribution of natural resources, such as water and grasses, increasing needs for land and marginalization (M= 3.76). Moreover, political instability/insensitivity (M = 2.78) could also cause conflicts when there is change in policies of government and when the government cannot live up to its responsibility in protecting the citizenry.

When resources are either scarce or abundant, political instability makes countries much more vulnerable to conflict. Instability impacts not only the governance structure, but also all other infrastructures that depend on government control and oversight, such as the banking system, national oil-production facilities, highways and

ports. Population growth, environmental degradation, and resource inequality can combine to weaken an already unstable government's capacity to address the needs of the populace and thus fuel conflicts. And abundance of natural resources can provide the incentive for increased conflict over control of the income-generating sources (USIP, 2007).

Furthermore, political conflicts that turn violent often result in destruction of the environment and infrastructure that increases the scarcity of resources, which in turn increases the potential for violent conflicts over the scarce resources. Conflicts often damage infrastructure, such as pipelines or oil fields, and decrease productivity of mining, thus furthering the downward spiral in economies affected by conflict. In addition, poor management and oversight resulting from political instability accelerate the economic decline.

Perceived effects of land-related conflicts on agricultural production of respondents.

Table 3 shows that all the respondents suffered the consequences of land – related conflicts as it touched their livelihood activity – agricultural production. The effects of the conflicts on agricultural production were reduced crop yield/ productivity (M = 3.37), burning of crops in field (M = 3.8), stealing of farm produce (M = 3.31), inadequate food for the family (M = 2.68), reduced farm income (M = 3.01), land redundancy /abandonment (M = 3.56), unable

Table 4: Perceived effects of land –related conflicts on health of respondents.

Effects on health	Mean	SD
Physical injuries/wounds	3.35	0.662
Malnutrition	3.45	0.638
Emotional trauma	3.19	1.025
Increased hunger	3.70	0.635
Rape/abduction of women	3.45	0.598
Reduction in family Medicare	2.94	0.548
Increased poverty	3.09	0.966
Increased diseases/illness	3.16	0.750
Sexual violence/abuse	3.00	0.627
Occurrence of miscarriage	3.25	0.742

Field survey (2016). Mean 2.50 and above were major effects.

Table 5: Effects of land –related conflicts on psychosocial well-being of respondent.

Effects on psychosocial well-being	Mean	SD
Hatred	2.63	0.774
Humiliation	2.83	0.952
Fear/trauma/worry	2.57	0.888
Loss of sleep/rest	2.98	0.552
Reduces social relationships	2.70	0.545
Loss of education for children	3.05	1.011
Loss of trade	3.13	0.790
Widowhood	2.93	0.916
Low esteem	3.56	0.664

Field survey (2016). Mean = 2.50 above are major effect.

to pay debts and loans (M = 3.65), missing of planting seasons (M = 3.22), poor harvests (M = 3.55), loss of capital investments (M = 2.90), migration/loss of farm labour (M = 3.48), farmers turn refugees (M = 3.50), denial of land rights (M = 3.00), loss of human lives (M = 3.56), loss of houses and property (M = 2.54), reduction in the quality of farm produce (M = 2.91), loss of stored produce/livestock products (M = 3.13), reduced access to farm resources (M = 3.43), loss of access to firewood collection (M = 3.43), reduction in quantity of food for human consumption (M = 3.35), loss of food sources (M = 3.56) and engagement in non-farm activities (M = 3.00). Since rural community, rely on their produce mainly for home consumption, reduced production result into food scarcity / insecurity. The victims of land conflict are therefore vulnerable to malnutrition, as a result of inadequate food, which are known to affect women and children most and is a main factor for 60% death of children under five years of age (USAID, 2010). More so, in the course of conflict resolution, the victims have to spend money or saving which reduces the capital investment. Sometimes, they failed to pay for family needs such as school fees for their children and some food stuffs. Reduced production also undermines potential for future growth (Deininger and Castagnini, 2005).

In addition, certain members of households and

communities have less access to regular food sources or emergency rations because they are relatively powerless as a result of their age or gender status. These include women, children, and the elderly, who are the most frequent victims of hunger in food wars, because they are left behind when active males migrate in search of food or are commandeered into military service where they are fed. Women often are forced to give up local assets (land, seeds), go without extra labour (especially of absent males), suffer lack of protection (against violence, as local community moral and social structures are destroyed), and enjoy less health care. Both women and children suffer disproportionately from illness, where malnutrition and destruction of healthcare services render them more vulnerable, especially if, in the end, they are forced to flee in search of survival.

Health effects

The health effects of land-related conflicts on women farmers were as follows: occurrence of miscarriages/bleeding (M = 3.25), physical injuries/wounds (M = 3.45), emotional traumas (M = 3.19), increased hunger (M = 3.70), rape/abduction of women (M = 3.45), reduction in family medicare (M = 2.94), increased

Table 6: Strategies to cushion effects of land-related conflicts.

Strategies	Mean	SD
Resettlement packages for victims	2.65	0.662
Giving financial assistance to victims	2.53	0.500
Creating job opportunities	2.63	0.505
Scholarship to promote children education	2.90	0.503
Provision of small scale credit facilities	2.80	0.751
Counselling services for victims	2.60	0.777
Land use planning	2.63	0.590
Livelihood development programmes	2.64	0.558
Health facilities for rape victims	3.62	0.764
Provision of free drugs	2.53	0.627
Trauma healing	2.65	0.806
Compensation for land owners	3.67	0.528

Field survey (2016). Mean = 2.00 and above as major strategies.

poverty (M = 3.09), increased diseases/illness (M = 3.16), sexual violence/ abuse (M = 3.00) and malnutrition (M=3.45). These results are in line with the findings of Justino and Verwimp (2006), who, in their studies, concluded that armed violence conflict leads to severe injuries, spread of infectious disease, and increases in permanent physical disabilities mostly among women and children. This according to them may also result in large decreases in household welfare, leading to poverty. Households may also have to draw on existing savings to pay for medical bills, which will pose severe financial burden on already vulnerable households.

Psychosocial effects

Land - related conflicts also have psychosocial effects on women farmers. The following psychosocial effects were identified- hatred (M= 2.63), humiliation (M = 2.83), fear/traumas worry (M = 2.57), loss of sleep/restlessness (M = 2.98), reduction of social relationships (M = 2.70), loss of education for children (M = 3.05) loss of trade (M= 5.13), widowhood (M=2.93) and low esteem (M= 3.56). The findings of Fearon and Laitin (2003) confirms this result when they observed that most conflicts lead to killing and displacing of populations, often limiting the access of households to employment and earnings and increasing levels of instability and loss of trust. In this case, the women and children are disadvantage because of the conflict since they have to move from their place of abode to a new place in search for security and jobs to earn a decent living. The result of this study is in agreement with that of Akresh and de Walque (2008) who showed in their study that conflict had a negative effect on schooling outcomes of children, with exposed children completing half a year less the normal in their education. In the same

vein, Shemyanika (2011) study supported the findings by observing that conflict has negative effects on children education, and presents evidence of the negative impact of armed conflict on schooling in the case of Tajikistan. Sany (2010) findings also revealed that education services were also disrupted in conflict areas, where half of school-age children were deprived of education.

Strategies to cushion the effects of land-related conflicts

Table 6 shows that victims of violent land-related conflicts could be helped to manage their situations if certain provisions are put in place. These provisions included resettlement packages for victims (M = 2.65), giving financial assistance to victims (M = 2.53), creating job opportunities (M = 2.67), scholarship to promote children education (M = 2.90), provision of small scale credit facilities (M = 2.80), counselling services for victims (M = 2.60), land use planning (M = 2.63), livelihood development programmes (M = 2.64), health facilities for rape victims (M = 3.62), provision of free drugs (M = 2.53), trauma healing (M = 2.65) and compensation for land owners (M = 3.67).

Conclusion

The most predominant form of conflicts in the study area were communal conflicts, farmer/pastoralist conflicts and farmer/farmer conflict with grave consequences for the women farmers. The major causes of conflict were use of resource – land, water, and grasses. These conflicts lead to loss of human lives, agricultural produce, illness/health problems and many more. These conflicts could be

managed by use of strategies, such as proper land use planning, and provision of aids to victims in various ways.

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Cite this article as:

Chikaire JU, Ajaero JO (2018). Effects of resource-use conflicts on rural women farmers in south-east agro-ecological zone of Nigeria. *Acad. J. Agric. Res.* 6(3): 057-064.

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