# EXPOLATORY ANALYSIS OF CONSTRAINTS TO LIVELIHOOD DIVERSIFICATION AMONG IFAD-VCDP FARMERS IN BENUE STATE, NIGERIA

Sallawu1s, H., Nmadu1, J. N., Coker1, A. A. A. and Mohammed1, U. S.

<sup>1</sup>Department of Agricultural Economics and Extension Technology, Federal University of Technology, Minna, Nigeria.

\*Corresponding Author's E-mail: halima.sallawu@futminna.edu.ng, GSM: 08034532845

### ABSTRACT

This study investigated the constraints to livelihood diversification among IFAD-VCDP farmers in Benue State, Nigeria. A two-stage sampling techniquewas employed in the selection of respondents. A total of 240 respondents were selected for this study. Descriptive statistics and principal component analysis (PCA) were the analytical tools engaged in this study. The study revealed that mean age and household size were 7 and 46 respectively. The PCA result revealed that the most severe constraints the farmers faced in livelihood diversification hierarchically were public and institutional constraint; educational and training constraint; climate and production constraint; trade, norms and religious believes constraint; and time and skilled labour constraint. It was therefore recommended that there is need for both the government and non-governmentorganizations to intensify efforts on public, institutional, educational and climate policies so as to increase livelihood opportunities in the study area.

KEYWORDS: Livelihood diversification, Constraints, IFAD-VCDP, Factor analysis

### INTRODUCTION

Livelihood is an idea that has been gaining increasing currency in recent years and is now seen as fundamental to poverty and climate risk reduction approaches around the world. For most households, and especially for poor farm households assets are deployed in a series of livelihood activities: that is, the means through which a household gains an income and meets its basic needs (Mabe et al., 2014). Livelihoods are dynamic and people adapt and change their livelihoods with internal and external stressors. Ultimately, successful transform assets into income, dignity and agency, to improve living conditions, a prerequisite for poverty alleviation (Sallawu et al., 2016). Livelihood diversification is defined as a process by which household members construct a diverse portfolio of activities and social support capabilities in their struggle for survival and in order to improve their standards of living (Ellis, 2000). Accordingly, in this study, livelihood diversification refers to the attempts by individuals and households to find new ways to raise incomes and reduce vulnerability to different livelihood shocks.

The Value Chain Development Programme (VCDP) is a six-year development initiative of the Federal Government of Nigeria (FGN) and International Fund for Agricultural Development (IFAD) programme that focuses on supporting cassava and rice value chains for small farmers in the six states of Anambra, Benue, Ebonyi, Niger, Ogun and Taraba. Within each state, the programme is being implemented in five (5) Local Government

Areas (LGAs) selected on the basis of objective criteria. VCDP is well anchored in Nigeria government's vision for agricultural transformation through commodity value chain approach, with emphasis on enhancing productivity and access to markets for rice and cassava smallholder farmers.

Climate change and extreme weather events present severe threats and erode essential needs, capabilities and rights more especially for the poor farm households and marginalized thereby redesigning their livelihoods (IPCC, 2014). A number of livelihoods are directly climate sensitive, such as rain fed agriculture, seasonal employment in agriculture and tourism (IPCC, 2014). That is, almost all sectors in agriculture (crop, livestock, pastoralism, fishery) depend on weather and climate whose variability have meant that rural farmers who implement their regular annual farm business plans risk total failure due to climate change effects (Ozor et al., 2010).Livelihood diversification among farm households is very important due to population growth, the subsequent progressive shrinking ofland holdings size and climate variability. The findings of thestudy are expected to indicate the policy interventions that might improve farmers livelihoods to raise incomes and help guide investment priorities in the study area. Researchers will also find the body of literature useful in their quest to extend frontiers of knowledge. The objectives of this study were to describe the socio-economic characteristics of farmers and constraints to livelihood diversification among farmers under IFAD-VCDP in Benue State.

MATERIALS AND METHODS

The study was conducted in Benne State, Neversa which was created from the former Henne-Plateau State in 1978. The State lies in the North Central Nigeria between Laurendex 6°25'and 8° 8 North of the Equator and Longitudes 7°47° and 10° Olast of the Greenwich meridian, with total landmass of 34,059 square kilometers. The State shares boundaries with Nassarawa to the North, Taraba to the Fast, Ebonyi and Cross River to the South Unuga to the South West, Kogi to the West. It also sharex an international boundary with the Republic of Cameroon to the South Last (Figure 1) Going by the population growth rate in Nigeria of 2.8% (World Bank, 2016), the 2006 population of the State(NPC, 2006) is projected to 3,552,212 as at 2017 Benue state comprises of 23 LGAs divided into three Agricultural Development Project zones.

h is inhabited predominantly by the Tiv and Mosna people. Other ethnic groups include lessle, Etido, Abakwa Jukun, Hansa Igho Akweya, and Nyilon. The State experiences two distinct seasons, the wet season and the dry season with mean temperature of 38°C. Henue State has abundant human and material resources, most of the people in the State are farmers while inhabitants of the riverine areas engage in fishing as their primary or secondary occupations. Benue State is acclaimed the nation's food basket because of its diverse rich agricultural produce which includes vams, rice, beans, cassava, soya beans, bennisced, maize, millet, tomatoes and a lot of fruits. Poultry, goat, sheep, pigs and eattle are the major domestic animals kept (Benue State Agricultural and Rural Development Authority (BSARDA), 1998)





Figure 1 Map of Nigeria showing the participating Local Government Areas in IFAD-VCDP in Benue State, Nigeria 1

The maps are produced using a combination of some r packages i.e. Pebesma (2018), Cheng, Karambelkar & Xie (2018), Appelhans, Detsch, Reudenbach & Woellauer (2018), Kahle & Wickham (2013), Wickham, H. (2017)

A two-stage sampling technique was employed in the collection of primary data for this study. In the first stage, all the five (5) participating Local Government Areas (LGAs) in the State were selected. In the second stage, sampling of farm households in each community was determined proportionately using Krejcie and Morgan (1970) formula and adopted by Ardakani et al. (2012). The formular is presented in eqn. (1)

$$S = \frac{X^2 NF(1-F)}{d^2 (N-1) + X^2 F(1-F)}$$

Where:

S = The required sample sare.

 $X^2$  = Table value of chi-square for 1 degree of freedom at the desired confidence level (1.56.).

N = Population size.

P = Population proportion (assumed to be 0 80).

d<sup>2</sup> = Degree of accuracy squared expressed as a proportion (0.05) and

1= Constant

A total of 240 respondents were selected for this study. The data was collected using interview schedules with the aid of trained mumerators. The data were analyzed using descriptive statistics and principal factor model. Factor analysis in a data reduction technique used to reduce a large number of variables to a smaller set of underlying factors that summarize the executed information commond in the variables. The constraints were grouped using principal factor method with various reflogenal rotation method developed by Kauser (1978). The factor solution should explain at least helf of ouch original variable's variance, so the constrancity value for each variable should be 0.30 or higher. The criterion of eigen value or characteristic rost (Eigen value) greater than 1.0 was used for defining the number of the factors that were retained (Clong et al., 2013). Model acceptance was bused on those ceiteria: each variable, in order to be included in the variable cluster of a factor, must load to it more thin 0.4, each factor must have more than two variables and variables that load in more than one constraint were discarded following Akimaghs (2018): Amelia. and Taoloog (2010); Mohammed et al. (2013). The model is presented in eqn. (2) as

$$\begin{split} Y_1 &= a_{11}X_1 + a_{12}X_2 + \cdots + a_{1n}X_n \\ Y_2 &= a_{21}X_1 + a_{22}X_2 + \cdots + a_{2n}X_n \\ Y_3 &= a_{31}X_1 + a_{32}X_2 + \cdots + a_{3n}X_n \end{split}$$

Where:  $Y_1, Y_2, \dots, Y_n = Observed variables constraints to$ 

 $Y_n = \alpha_{n1}X_1 + \alpha_{n2}X_2 + *** + \alpha_{nm}X_n$ 

a<sub>1</sub> . a<sub>n</sub> ~ Constraint loading or correlation medicares.

 $X_1, X_2, \dots, X_n$  — Unobserved underlying flatters constraining from boundeds to diversity livelihood.

To pudge the sampling adequacy and the factorability of the matter in a whole. Burtlett's test of optionsity and the Kanser-Meyer-Olkin (KMO) was used fluction's test of optionisty relates to the options and fluction above the radiates and naturalities of the response collected. If the KMO is present than 4.3 interchanged them for collected in the KMO is present than 4.3 interchanged them for collected as accounted, thigh values Kanser-Mergan-Olkin (KMO) is between 4.3 and 1.8 indicate fluction materies is appropriate follows or all 2013 to

RESELTS AND DOMESTICATION

bucks summer characteristics of IFAB-NUBB furnery in Benac State Figure 1 presents the age host frames of the Jacques which revealed that the provide upon of the compromisents was the sounce Most off by responsible on within the up range of \$6-50. years which accompand for over \$6%. This amplies the instituted distraction is continue county the broseledde brokkel by the strong wher any many marganic and count officed to take the stake assessment with invalidated dissipations. This agrees with the feedings of horsess and belone (2002) which pointed out that companies of the broughestale that are engaged in treditional describation are still in their productor years. They are able to suggest floratelysts in malityle income potenting seriodics that can reliency the investigate purchasing power and consequently fluid william status.

Finding in Egant 2 Sollow revealed dist are resemblelessing respectly of the factories must stall representing ever 70%. This is an indication that the moles destinated agricultural actionies. This agrees with the Endings of Sulfaves at at (2004) who revealed that the moles destinated that work family in Nigeria's agricultural consequences.

Findings in Signer 3 below severabed don't majestry of the Services have Sensity sizes ranging from 3-10 which accounted for over 80%, Franc Sel analysis, himselvid size in the study axis in Senlarge with an average of 7 members, This is at Senwith the Seeling of Okean and Storm (2003) who with the Seeling of Okean and Storm (2003) who offermed that larger boundaries may have to began

100

on more income generating activities for sustainable fivelihood than smaller sized households.

Majority of the respondents were married which accounted for over 70% as depicted in Figure 4. This in time with the findings of Atagher and Okorii (2014) who revealed that revealed that majority of the farmers in Benue Stare were married which accounted for over 70% of the respondents.

In terms of level of education as depicted in figure 5, 25% of the farmers have completed accordary school education, 21% are still undergoing programmes in colleges of education, 13% have completed university education and 11% have completed primary education in the study area. It can be seen that the literacy level of farm households in the study area was fairly low. This is in line with the findings of Awoniyi and Salma (2012) who pointed out that low educational level among farming bouseholds undoubtedly affect their livelihood diversification patterns and that generally, there is a low level of educationamong the rural farming households and this hasimplications for their incomecarning capacity as therespondents may lack the required skill to secure wellpaidjobs. Also, farmers may find it difficult to adoptmodern improved techniques of production or operations because of their lack of education. Education enhances the technical competence and entrepreneurial spirit

Exploratory Factor Analysis: The factorability of the 22 constraint variables was examined. Several well-recognized criteria forfactor analysis were used. Firstly, it was observed that all the 22 variables correlated at least 0.3 with at least one other variable which shows that the variables are correlated but not highly correlated, indicating that there is relationship between the variables and also uniquely contributing to explaining the data matrix of the variables scale, suggesting reasonable factorability. Secondly, the Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy was 0.836 which is meritorious based on the KMO classification. The KMO provides an overall measure of the overlap or shared variance between pairs of variables. Since the study tried to identify variables that are related but yet provide unique information to the factors, higher values indicate overlap but not to the point of hindering the analysis due to multicollinearity. The Bartlett's test of sphericity was significant  $(X^2(231) = 2905.957 \text{ P} <$ 0.001), which shows that the matrix is significantly different from zero (0), that is, the matrix is significantly different from identity matrix. This indicated that there are sufficient inter-correlations to conduct the factor analysis. Given all the above indicators, factor analysis was deemed to be suitable with all 22 variables.

Table I showed the varimax-rotated principal component analysis (PCA) of constraints to livelihood diversification of farmers under (IFAD-VCDP) in Benue Sate, Nigeria. From the result, five factors were extractedbased on the responses of the farmers. The Kaiser criterion (1960) as used by Mohammed et al. (2013) and Chong et al. (2013) was usedfor selecting the number of underlying factors or principal components to be retained. Typically, what was considered in terms of what factors to retained are the eigen values, the uniqueness of each variable, communality and the number of individuals that are in the analysis. In this study, the number of factors was decided by leaving out components with corresponding Figen values (ameasure of explained variance) of less than one. Only variables with factor loadings of ±0.40 andabove at 10% overlapping variance were used in naming the factors. Variables thatloaded in more than one constraint were also discarded. The communality which is the percentage of variance for the variable that is explained by the common factors for all the variables are above 0.30. Uniqueness could be pure measurement error or it could represent something that is measured reliably in that particular variable, but not by any of the others. If the uniqueness is high, then the variable is not well explained by the factor. The eigen values and the proportion of eigen values explained in terms of the variability of 18 variables were retained are presented in Table 1.

After the factor analysis, the first combination of variables in the first factor explained about 31% of the variance, the second factor component explained about 16% of the variance, the third factor explained about 7.8% of the variance, the fourth factor explained about 5.6% of the variance and the fifth factor explained about 4.6% of the variance in the 18 variable scale. The true factors that were retained explained 65% of the variance in the 18 constraining factor or variable components.

To make the structural factor more interpretable, the factors were rotated using varimax orthogonal rotation. This is done to maximize the distance between the factors orthogonally. These factors are: 1: Public and institutional constraint, 2: Educational and training constraint, 3: Climate and production constraint, 4: Trade, norms and religious believes constraint and 5: Time and skilled labour constraint.

Public and institutional constraint: The variables that load high in factor 1 are inadequate infrastructure (0.831), inadequate access to capital (0.825), unstable price of transportation cost (0.791), government policy (0.785), inadequate credit facilities (0.771), no urban centre in proximity (0.638), inadequate input delivery system (0.637).

lack of access to market (0.321) and poor transportation system (0.329). This is in line with the findings of Ewebiyi and Meludu (013) which revealed that there are various challenges to livelihood diversification among the rural dwellers which includes lack of infrastructural facilities, inadequate livelihood assets and, poor transportation system. Lending credence to this, Zigale (2016) pointed out that several constraints act as obstacles to livelihood diversification, and main constraints faced by the households were poor asset base, lack of financial facilities, lack of infrastructure, and lack of opportunities in non-farm activity

Educational and training constraint. The variables that load high in factor 2 are lack of skill training and ability (0.853) and limited education (0.852). This is in accordance with the findings of Hussein and Nelson (2004) which revealed that constraints to livelihood diversification are low population, no urban center in proximity, market access, government policy that extract surplus, limited availability of education and skill training This is also in line with the findings of Zigale (2016) which pointed out that constraints to livelihood diversification are poor asset base, lack of financial facilities, lack of awareness and training facilities and lack of opportunities in non-farm activity.

Climate and production constraint. The variables that load high in factor 3 are rainfall variability (0.882), declining farm size (0.770) and shortage of animal feed (0.624). This is in line with the findings of Ayele (2008) who pointed out that rainfall variability, declining farm size, lack of draught power and institutional deficiencies in credit and input delivery are the major constraints to livelihood endeavours.

Trade, norms and religious believes constraint. The variables that loads high in factor 4 are restriction on trade and movement (0.796) and norms and religious believes (0.585). This is in line with the findings of Hussein and Nelson (2014) revealed that constraints to livelihood diversification are restriction on trade and movement, government policy that extract surplus, terms of trade, norms and religions.

Time and skilled labour constraint. The variables that loads high in factor 5 include shortage of time (0.662) and inadequate skilled labour (0.630). This is in accordance with the findings of Hussein and Nelson (2014) who revealed that constraints to livelihood diversification are availability of infrustructure, skilled labour availability and shortage of time.

By utilizing factor rotation, it was established that there are five constructs that consists of more than one variable. Meanwhile, it is important to calculate the internal consistency reliability for

coefficient alpha for the whole scale and for each factor retained. Crombach's alpha test was used to test the consistency between the fields in the entire scale and for each factor. The Crombach's alpha is based on the average inter-item correlation. According to Pallani (2013), a scale with a Cronbach's alpha higher than 0.7 is required in order to create a reliable. construct of explaratory studies. Based on the results. of the reliability consistency presented in Table 2 revealed that coefficient alpha for the overall scale was 0.877 which is very good. The internal consistency reliability for factor 1 was 0.906 which is excellent, coefficient alpha for factor 2 was 0.826 which is very good, coefficient alpha for factor I was 0.806 which is also very good, coefficient alpha for factor 4 was 0.750 which is good and coefficient alpha for factor 3 was 0.749 which is also good. This implies that the most severe constraint is public and institutional followed by educational and training, followed by climate and production, then trade, norms and religious believes constraint and the least constraint is time and skilled labour. This implies that opportunities to deversity vary among households, with differences in resource endowments (land, labour, capital) and access to markets and institutions playing a central role in the extent to which diversification occurs. The livelihood diversification of the farm household portfolio of activities in determined not only by asset portfolios but also having the skills, location, capital, credit and social

### CONCLUSION

In conclusion the study has validated empirical findings of many studies by revealing the principal constraints that the farmer faced in diversifying their livelihood which are public and instinutional constraint, educational and training constraint, climate and production constraint, trade, norms and religious believes constraint, and time and skilled labour constraint The levelihood deversification of the farm household portfalio of activities is determined not only by asset portfolios but also having the skills. location, capital, credit and social connections. It was therefore recommended that there is need for expansion of tural infrastructure such as schools, pipe born water, rural electrification and wireless telecommunication services by government and nonpercentage organizations to achieve the goal of tarm becausefuld livelihood neversy as stell as parel. development need for establishment of Faitness Francisco Content in SPADEACDF Found offices to an to devolup skills and ability of the formers Covernment and desire applicate about? arried in comparing tune consumence with all acarber reads in order to facilitate ratal artists

linkages and its economic implications by constructing and maintaining feeder roads, and also the government and non-government organizations should intensify efforts on public, institutional, educational and climate policies so as to increase livelihood opportunities in the study area.

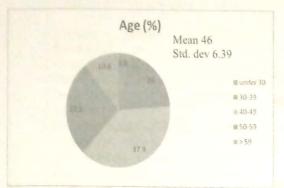


Figure 1: Age distribution of the farmers

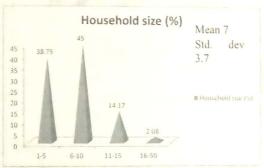


Figure3: Household size of the farmers.

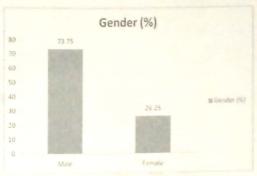


Figure 2: Gender distribution of the farmers.

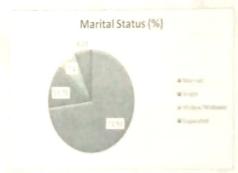


Figure 4: Marital status of the farmers

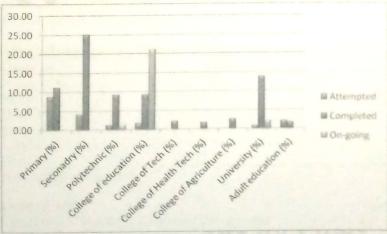


Figure 5: Educational attainment of the farmers

Table 1: Principal component analysis on constraints to livelihood diversification in Benne State

	Grand Buda Brian	Components*					
S/No	Constraints	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Communality
1	Inadequate infrastructure	0.831				T devos	0.729
2	Inadequate access to capital	0.825					0.747
3	Unstable price of transportation cost	0.791					0.663
4	Government policy	0.785					0.689
5	Inadequate credit facilities	0.771					The state of the s
6	No urban centre in proximity	0.638					0.731 0.693
7	Inadequate input delivery system	0.637					0.549
3	Lack of access to market	0.581					
)	Poor transportation system	0.529					0.613
0	Lack of skill training and ability	0.329	0.853				0.554 0.793
11	Limited education		0.852				
2	Rainfall variability		0.832	0.000			0.788
3	Declining farm size			0.882			0.818
4	Shortage of animal feed			0.770			0.717
5	Restriction on trade and			0.624	0.704		0.568
	movement				0.796		0.720
16	Norms and religious				0.000		
	believes				0.585		0.546
7	Shortage of time					0.000	
8	Inadequate skilled labour.					0.662	0.594
4 17 17	Percentage (%) of total	31	16	7.8		0.650	0.503
	variance	51	10	/_0	5.6	4.6	

Source: Field survey, 2018.

Extraction method: Principal Component Analysis, Rotation method: varimax with Kaiser Normalization.

Table 2. Reliability analysis for the scale and factors retained

Construct	Number of variables	Cronbach's alpha 0.877 0.906			
Overall scale	18				
Factor 1	0				
	9				
Factor 2	2	0.826			
Factor 3	3				
Factor 4	2	0.806			
Factor 5	2	0.756			
Course: Field 2019	2	0.749			

Source: Field survey, 2018.

## REFERENCES

Akinnagbe, O. M. (2010). Constraints and strategies towards improving cassava production and processing in Enugu North Agricultural Zone of Enugu State, Nigeria. Bangladesh Journal of Agricultural Resources, 35(3), 387-394.

Anselm, A. E., &Taofeeq, A. A. (2010).

Determinants of Women's contribution to farming decision in cocoa based agroforestry households of Ekiti State,

- cassava women farmers in Benue State, Nigeria. Journal of Agriculture and Veterinary Science, 7(5), 7-12.
- Awoniyi, O. A. & Salman, K. K. (2012). Non-Farm Income Diversification and Welfare Status of Rural Households in South West Zone of Nigeria. International Food Policy Research Institute (IFPRI) Paper. Pp. 1-14.
- Ayele, T. J. (2008). Livelihood adaptation risks and vulnerability in rural Wolaita, Ethiopia. PhD Thesis submitted to Department of International Environment and Development Studies, Noragric Norwegian University of life Science, Norway.
- Benue State Agricultural &Rural Development Authority (BNARDA) (1998) Impact of Benue State Agricultural and Rural Development Authority on Agriculture and Rural Development in Benue State, BNARDA, Makurdi, Nageria.
- Cheng, J., B. Karambelkar & Y. Xie (2018). leader.
  Create Interactive Web Maps with the
  JavaScript "Leaflet" Library. R. package
  version 2.0.1. https://kask.ilproject.org/package=leaflet
- Chong, K. R., Yap, B. C., & Mohammed, Z. (2013). A study on the application of factor analysis and the distriutional properties of financial ratio of Malaysian companies. International Journal of Academic Research in Management (LIARM), 2(4), 83-95.
- Ellis, F. (2000). Rural livelihoods and Diversity in developing countries. London: Outsoil University Press. Pp. 1-10.
- Ewebiyi, I. O., & Meludu, N. T. (2013). Constraints to livelihood diversification assung rurst households in Southwestern Nigeria. Global Approaches to Estension Practice: A Journal of Agricultural Estension, 9(1)(1-20).
- Hussein, K., & Nelson, J. (2014). Sustainable Livelihoods and Livelihood Diversification IDS Working Paper 64.
- Intergovernmental Panel on Climate Change (IPCC)
  (2014). Climate variability, Impacts,
  Adaptation, and Velnerability. Working
  Group II, Fifth Assessment Report Phase I
  Report Launch, 31 March 2014.
- Kable, D. & H. Wickham (2013), ggmap: Spatial Visualization with ggplot2. The B Journal, 5(1), 144-16). URL http://insemilgproject.org/archest/2013-1.5ablewickham.ndf
- Kaiser, H. F. (1958). 'The Various ariterius for analytic rotation in factor analysis'. Psychoinerrika, 23(1), 187-200.

- Krejcie, R. V. & Morgan, D. W. (1970). Determining Sample Size for Research Activities. Educational and Psychological Measurement, 30(1), 607-610.
- Mahr, F. N., Stenso, G., & Donkob, S. (2014). Determinants of choice of climate change adaptation strategies in Northern Ghana. Research in Applied Economics, 6(4), 75-94.
- Mohammed, S. C., Rabiul, I., & Zaburul, A. (2013). Constraints to the development of small and medium scord enterprises in Bangladesh: An emperical investigation. Australian Journal of Basic and Applied Sciences, 7(8), 690-696.
- National Population Commission (NPC) (2006).
  Population Data in Nigoria. Retrieved on 20° Fabruary. 2017 from 100. 5 × × population pricing population.
- Okers, C. P., A Shiros, A. M. (2002), Partners and Decorromants of Londituod Decorations arong Facts. Households in Odeda Local Generation Sana, Opan State, Negeria Paper Proceeded in the Negerian Association of Agricultural Economist Conference held all Obscience Assolitons University, Be-Habettamin, 23–27 September, 2012, Thema-Agriculture in the National Transformation Agriculture in the National Transformation Agriculture The Police Min.
- Orior, N., Madaireo, M. C., Oreshain, P. C., Emite, A., Carrierti, C. J., Efielt, E., Ujab, O. & Amacochina, E. (2005), A francework for agricultural talogramies to identify change in Southern Negeria. A development partnership in higher inhecition (DePHE) 328 project ensentive seatmenty supported by DESS and implemented by Bertick Council, Emigic African Institute for Applied Economics.
- Pallant, I. (2005). SPSE merical manual: a sup by sup-pride for data analysis using SPSS for Windows. (Variant, 12). Opin University Print.
- Peterson, E. (2016), of Soughe Frances for N. N. package version 5.6-5, https://dx.id.
- Authors H. Taran L. Coher A. A. A. S. Saning M. S. (2016) LivedStand and leading Discretization prompts using mill firm formetable in Niger State, Nagoral Areas Journal of April 1984 (2014)
- Load for Delvices E package version 125

