Mechanisms for Improving the Marketing of Agricultural Products for Increased Profitability

Cajethan U. Ugwuoke¹  Patience Ngozi Odoh¹  Godwin E. Eze¹  Benedicta A. Omeje¹
Nnennaya S. Monwuba²  Scholastica U. Ekwueme¹
¹.Department of Agricultural Education, University of Nigeria, Nsukka
².Department of Vocational Education, Nnamdi Azikiwe University, Awka

Abstract
The high increase in agricultural production has resulted in farmers witnessing some challenges especially in the marketing of their agricultural products. In line with this, the study was aimed at identifying the mechanisms for improving the marketing of agricultural products for increased profitability. The study was guided by two research questions and two null hypotheses. The descriptive survey research design was adopted. The study which was carried out in Nsukka Local Government Area of Enugu State, Nigeria made use of 130 out of 350 registered farmers that reside in the rural and urban areas. The structured questionnaire used for data collection was validated by three experts from the Department of Agricultural Education, University of Nigeria, Nsukka and with a reliability coefficient of 0.65 established using Cronbach alpha method. Data collected were analyzed using mean to answer the research questions while t-test statistic was used to test the null hypotheses at 0.05 level of significance. The study revealed that different marketing outlets and mechanism could be adopted to increase the marketing of Agricultural products and thus, making a high profit. It was therefore recommended that government should construct good road networks for easy transportation of the agricultural product to the markets.

Keywords: marketing, agricultural products, increased profitability, farmers

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Introduction
Agricultural production supports the vital economic sector of many households in Nigeria. It remains fundamental to poverty reduction and economic growth in the 21st century (World Bank, 2008). As an enterprise, agriculture which is mainly seen as the cultivation of crops and rearing of farm animals is mainly for-profit maximization. As so, it has contributed a lot to individual and household income. A lot of scholars have perceived agriculture in different ways, some see it as farming while others see it as mere cultivation of crops and rearing of animals. The significance of agriculture is numerous and varied such as serving individual and industrial need as well as contributing to the economic growth of many countries. Agriculture is a sector of Nigeria’s economy, engaging over 70% of the labour force and contributing about 40% to the Gross Domestic Product (GDP) (FMARD, 2015). Agriculture generates revenue for the government at the local, state and federal levels. It provides food to the teeming population, feeds for animals, raw materials for various industries and the development of rural communities (Eugene, 2007). Having attained this satisfaction, the desire for more satisfaction keep emerging and as a result of this, the exchange of agricultural products for other products (trade by barter) came into play until the formalized system of transaction was introduced. Baba and Etuk (1991) were of the view that agriculture has entirely become an enterprise which primarily seeks for interest in the transaction of its marketable products.

The need for agricultural marketing arises with the production of excess products which were above consumption. This resulted in the concept of marketable surplus which is defined as the proportion of the total output that is available for sale after satisfying the need of the producer. Marketing starts before production and ends after consumption. According to Nwoye (1997), marketing is human activity directed at satisfying needs and wants through exchange process. This definition has some keywords as the operative words, such as needs, wants and exchange. Wants are the expression of human needs as they are shaped by a person, culture and individual development. And want must be backed with money for it to be meaningful to the marketer. Exchange is obtaining the desired object from someone offering in return something of value. Marketing encompasses a series of activities involved in moving the goods from the point of production to the point of consumption. According to Olayemi (1994) the study of agricultural marketing comprises all the operations, and the agencies conducting them, involved in the movement of farm produce, foods, raw materials and their derivatives, such as textiles, from the farms to the final consumers, and the effects of such operations on farmers, middlemen and consumers.

Agricultural marketing is the study of all the activities, agencies and policies involved in the procurement of farm inputs and the movement of agricultural products from the farms to the consumers. The agricultural marketing system is a link between the farm and the non-farm sectors (Acharya, 2016). It includes the
organization of agricultural raw materials supply to processing industries, the assessment of demand for farm
inputs and raw materials, and the policy relating to the marketing of farm products and inputs. Agricultural
marketing system in developing countries including Nigeria can be understood to comprise of two major sub-
systems viz., product marketing and input (factor) marketing. The actors in the product marketing sub-system
include farmers, village/primary traders, wholesalers, processors, importers, exporters, marketing cooperatives,
regulated market committees and retailers. The input subsystem includes input manufacturers, distributors,
related associations, importers, exporters and others who make available various farm production inputs to the
farmers. A dynamic and growing agricultural sector requires fertilizers, pesticides, farm equipment, machinery,
diesel, electricity, packing material and repair services which are produced and supplied by the industry and non-
farm enterprises. The expansion in the size of farm output stimulates forward linkages by providing surpluses of
food and natural fibres which require transportation, storage, milling or processing, packaging and retailing to
the consumers. These functions are obviously performed by non-farm enterprises. Furthermore, if the increase in
agricultural production is accompanied by a rise in real incomes of farm families, the demand of these families
for non-farm consumer goods goes up as the proportion of income spent on non-food consumables and durables
tends to rise with the increase in real per capita income. Several industries, thus find new markets for their
products in the farm sector. From the above definitions, marketing of agricultural produce can be looked at as the
application of marketing knowledge to the marketing of agricultural produce. One may be correct to say that
market starts when farmers plan their output in respect to expected market demand to pricing of the produce in
relation to the existing market price till the product gets to the ultimate consumer. Another view of marketing in
agriculture is the human activities directed at satisfying need and want through exchange of agricultural
products. Uchendu (2013) viewed Agricultural marketing as comprising of all activities involved in supply of
farm inputs to the farmers and movement of agricultural products from the farms to the consumers. Agricultural
marketing system includes the assessment of demand for farm-inputs and their supply, post-harvest handling of
farm products, performance of various activities required in transferring farm products from farm gate to
processing industries and/or to ultimate consumers, assessment of demand for farm products and public policies
and programme relating to the pricing, handling, and purchase and sale of farm inputs and agricultural products
for profit-making.

Profit-making can be affected by the challenges encountered by farmers at the course of production and
moving their goods from one particular point to another. Some farmers do not have storage facilities for their
products, those who have lacked the method of preservation strategies. The need for these facilities is easily
recognized in view of the enormous waste, profit loss and acute price instability of agricultural products. Some
farmers do not know their customers and where to take their products due to poor marketing research. More so,
lack of access to good road and transportation system has hindered agricultural products distribution. The idea of
marketing mix is lacked by the farmers and the mix includes product, price, promotion and physical distribution.
The interest of customers should be considered by the farmers before determining the kind of product to produce
and introduce to the market for specific groups and according to the tastes and standards. In some developed
countries this technique is applied by the government to decide what, when, and where, some social amenities
are provided for the development programme. The uncertainty and price fluctuation faced by the farmers affect
profit-making. If all this consideration is adequately addressed, farmers will be in a better position to make a
good profit from the sales of their products.

Giron et al (2012) stated that viable marketing strategies or mechanism must be employed to drive the
profitability of the products. The study is therefore aimed at determining the mechanisms for improving the
marketing of agricultural products for increased profitability. Specifically, the study sought to determine the
different mechanisms through which the marketing of agricultural products can be improved and the different
marketing outlets that could be adopted to increase the marketing of agricultural products.

Research Questions
The study is guided by the following research questions:
1. What are the different mechanisms through which the marketing of agricultural products could be
improved?
2. What are the different marketing outlets that could be adopted to increase the marketing of agricultural
products?

Research Hypotheses
HO₁: There is no significant difference between the mean ratings of farmers located in urban and rural areas on
the mechanisms through which the marketing of agricultural products could be improved?
HO₂: There is no significant difference between the mean ratings of farmers located in urban and rural areas on
the marketing outlets that could be adopted to increase the marketing of agricultural products?
Methodology
The study adopted a descriptive survey research design. The population for the study was 350 registered farmers in Nsukka local government area of Enugu State. Simple random sampling technique was used to select 130 farmers for the study. A structured questionnaire was developed to elicit responses from the respondents. The questionnaire was validated by three experts from the Department of Agricultural Education, University of Nigeria, Nsukka and a reliability coefficient of 0.67 was obtained through Cronbach alpha method. One hundred and thirty copies of the instrument were administered to the respondents and 120 retrieved giving a return rate of 92%. Mean and the standard deviation was used to answer the research questions while t-test statistic was used to test the null hypothesis at 0.05 level of significance. A null hypothesis was accepted when the probability value was equal or greater than 0.05 (p≥0.05) and rejected when the probability value was less than 0.05 (p<0.05).

Results
Data collected from the study were analyzed based on the objectives and hypotheses formulated for the study.

Table 1: Description of Respondents’ Demographic Characteristics

<table>
<thead>
<tr>
<th>S/N</th>
<th>Characteristics</th>
<th>Frequency (f)</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Sex</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>85</td>
<td>70.8</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>35</td>
<td>29.2</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>120</td>
<td>100</td>
</tr>
<tr>
<td>2.</td>
<td>Type of Farming</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crop production</td>
<td>26</td>
<td>21.7</td>
</tr>
<tr>
<td></td>
<td>Livestock production</td>
<td>38</td>
<td>31.6</td>
</tr>
<tr>
<td></td>
<td>Both of them</td>
<td>56</td>
<td>46.7</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>120</td>
<td>100</td>
</tr>
<tr>
<td>3.</td>
<td>Years of Farming Experience</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-5 years</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>6-10 years</td>
<td>28</td>
<td>23.3</td>
</tr>
<tr>
<td></td>
<td>11-15 years</td>
<td>35</td>
<td>29.2</td>
</tr>
<tr>
<td></td>
<td>16 years and above</td>
<td>39</td>
<td>32.5</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>120</td>
<td>100</td>
</tr>
</tbody>
</table>

The result in Table 1 showed that there was a higher number of male farmers in the study area than females. The table indicated that males were 85 from the sample size of 120 amounting to 70.8% in the overall while female respondents were 35 (29.2%). The table also revealed that most of the farmers were both crop and livestock farmers. Among the respondents, farmers under crop production were 26 (21.7%) while those in livestock were 38 (31.6%). More so, those that practised both crop and animal production were 56 (46.7%). It was equally observed that farmers who had experience of 16 years and above in farming had the highest number of 39 (32.5%) which was followed by the farmers who had a farming experience of 11-15 years with the number of 35 (29.2%). Similarly, farmers with working experience of 6-10 years were 28 (23.3%) while farmers with working experience of 1-5 years had the least number of 18 (15%).

Result in Table 2 showed that the items 1, 2, 7 and 10 had their means ranging from 3.50-3.86 which signifies that the respondents strongly agreed that processing of products before sale, grading the products, storage of the products and providing warehousing, and preserving the perishable produce to avoid spoilage are the mechanisms through which marketing of agricultural products could be improved. Similarly, items 3, 4, 5, 6, 9 and 11 had their means ranging from 3.00-3.45 which implies that the respondents agree that branding of the products, transportation, advertising in social media, packaging the products, handing the product over to commission agents and sorting the produce are the mechanisms through which marketing of agricultural products could be improved. However, item 8 had a mean value of 2.34 which shows that the respondents disagree that fixing prices of products before selling is the mechanism through which marketing of agricultural products could be improved. The standard deviation of the items ranged from 0.54 to 1.6. This shows that the respondents were close to one another in their responses and that they were not far from the mean.

The probability values of the entire items were greater than 0.05 (Table 2). This shows that there is no statistically significant difference (p>0.05) in the mean responses of urban and rural farmers on the mechanisms through which the marketing of agricultural products could be improved. The null hypothesis is therefore accepted.
The data presented in the Table 3 shows that items 13, 14, 16, 17, 19 and 20 had the mean values ranging from 3.54-3.86 which implies that the respondents strongly agree that wholesale in the farmers’ farms, hawking at trade fairs and public meetings, taking the produce to the local markets, exporting to other countries and through exhibiting at trade fairs are the different marketing outlets that could be adopted to increase the marketing of agricultural products. Similarly, items 12, 15 and 18 had their mean values ranged from 3.30-3.33 which shows that the respondents agree that selling in retails in the farmer’s farms, creating roadside shops, and personal contact with the buyers are the different marketing outlets that could be adopted to increase the marketing of agricultural products. However, item 21 had the mean value of 2.29 which shows that the respondents disagree that use of handbills and signposts are the marketing outlets that could be adopted to increase the marketing of agricultural products. The standard deviation of the items ranged from 0.32 to 0.80. This indicated that the respondents were close to one another in their responses as they were not far from the mean.
Furthermore, data in Table 3 shows that the entire p-values are greater than 0.05. This signifies that there is no significant difference (P>0.05) in the mean responses of the respondents on the different marketing outlets that could be adopted to increase the marketing of agricultural products. The hypothesis of no significant difference is therefore upheld.

Discussion of the Findings
The study found out that processing of agricultural products before sale, grading, branding of the produce, transportation near the consumers, advertising the products, packaging, storage or warehousing, preservation to avoid spoilage and sorting are the different mechanisms through which marketing of agricultural products could be improved. The findings were in line with Asogwa and Okwoche (2012) who reported that agricultural products are likely located some distance away from the place of consumption and therefore need to be transported. Storage is equally required to adjust supply to meet demand. The authors reiterated that harvested products are rarely in a form acceptable to consumers and must be sorted, cleaned, processed in various forms and presented to consumers in convenient quality to increase the economic value. In his study, Gbam (2017) discovered that transportation plays a significant role in creating market for agricultural products by conveying farm products to where they are needed. The author maintained that good transportation system helps in reducing spoilage and wastages of farm products and increase profitability. Farmers need to adopt farm level grading and processing to track their profit in a competitive agricultural market (Ogbonna, 2017). The author emphasized the farmers who improve the value of their agricultural produce stand a better chance of making profit from their proceeds.

The study further found out that selling the products in retail in the farmers’ farm, wholesale at the farmers’ farm, hawking the products, creating roadside shops, creating online and social media marketing, selling at the local markets, selling through the personal contact with the buyers, exporting to other countries and exhibiting at trade fairs and public meetings are the different marketing outlets that can be adopted to increase the marketing of agricultural products. The findings are in agreement with Mwagha and Ntong’ond (2014) who reported that customers could order agricultural products online, make payments using PayPal, and receive feedback through email. In line with the findings, Asogwa and Okwoche (2012) discovered that sorghum is sold through different outlets as marketing agents accounts for 70% sales, retailers 8%, wholesalers 20% and farmers 2%. The authors went further to report that 65% sale of sorghum is done in the market square, 20% at the roadside, 10% at the farm while 5% are sold through hawking.

Conclusions
Based on the data collected and analyzed, it was concluded that processing of agricultural products before sale, grading, branding of the produce, transportation near the consumers, advertising the products, packaging, storage or warehousing, preservation to avoid spoilage and sorting are the different mechanisms through which marketing of agricultural products could be improved. Selling the products in retail in the farmers’ farm, wholesale at the farmers’ farm, hawking the products, creating roadside shops, creating online and social media marketing, selling at the local markets, selling through the personal contact with the buyers, exporting to other countries and exhibiting at trade fairs and public meetings are the different marketing outlets farmers can be adopted to increase the marketing of agricultural products.

Recommendations
Based on the findings of the study, the following were recommended:

1. The government should construct good network of roads for easy transportation of agricultural products to the markets and urban areas.
2. Farmers should adopt good marketing strategies where the agricultural product will be processed, packaged and distributed for better economic value.
3. Farmers should diversify their sales outlets instead of selling at the farm gates.

References


