



ISSN Print: 2664-6064
ISSN Online: 2664-6072
Impact Factor: RJIF 5.2
IJAN 2022; 4(1): 61-64
www.agriculturejournal.net
Received: 18-05-2022
Accepted: 04-06-2022

Revi Sunaryati
Teaching Staff of the
Agribusiness Study Program,
Faculty of Agriculture,
University of Palangka Raya,
Indonesia

Yuni Erlina
Teaching Staff of the
Agribusiness Study Program,
Faculty of Agriculture,
University of Palangka Raya,
Indonesia

Abdul Mukti
Teaching Staff of the
Agribusiness Study Program,
Faculty of Agriculture,
University of Palangka Raya,
Indonesia

Corresponding Author:
Revi Sunaryati
Teaching Staff of the
Agribusiness Study Program,
Faculty of Agriculture,
University of Palangka Raya,
Indonesia

Analysis of the proportion of food expenditures for rice farming households in Lampuyang village, Teluk Sampit district, Kotawaringin Timur Regency

Revi Sunaryati, Yuni Erlina and Abdul Mukti

DOI: <https://doi.org/10.33545/26646064.2022.v4.i1a.113>

Abstract

The purpose of this study was to determine the proportion of food expenditure to the total expenditure of rice farming households. Knowing the quantity and quality of household food consumption of rice farmers. Knowing rice farmer household food security. In this research, 41 rice farming households were taken as samples.

The method used in this research is descriptive method. The method of taking the research location was carried out by purposive sampling, namely in the village of Lampu which is in the Teluk Sampit District, East Kotawaringin Regency. Types and sources of data used consist of primary data and secondary data. Data collection techniques were carried out by interviews, observation, and recording. Data analysis method is descriptive with average and percentage analysis.

Based on the results of the study, the average total expenditure of rice farming households was IDR 2,752,117.40. It is known that spending on food is around IDR 1,647,079.45 (59.85%) and spending on non-food is around IDR 1,105,037.95 (40.15%). The average energy adequacy level of rice farming households is in the sufficient category of 51.8%, while the average protein adequacy level of rice farming households is 90.2% which is in the sufficient category. Conditions Food security in rice farming households is mostly food vulnerable, namely 36.6%, followed by food shortages of 29.3%, food insecurity of 19.5%, while food secure households are only 14.6%. So that it can be said that the food security of farmer households is still relatively poor.

Keywords: Analysis of the proportion of food expenditures, energy consumption, household food security

Introduction

According to Marwanti in Yudanigrum (2011) ^[8] expenditure is divided into two, namely food and non-food expenditure. An increase in the proportion of expenditure for the food group can be an indicator of declining population welfare and widening poverty due to deepening limited income conditions. In limited conditions, someone will prioritize meeting food needs and most of the income is spent on food consumption According to Widowati (2009) ^[7] Food security is defined as guaranteed access to food for all households and individuals at all times so they can work and live healthily. Food security is determined by the availability and access of individuals or households to get it depending on the availability of food. The food sector determines the level of welfare of the majority of the rural population, which consists of farmers with narrow land and agricultural labourers, as well as urban poor consumers who use a large portion of their income for consumption.

According to Purwantini (2009) ^[5] broadly speaking, household needs can be grouped into two broad categories, namely food and non-food needs. With Thus, at a certain level of income, households will allocate their income to meet these two needs. The amount of income (Proxied as total expenditure) spent on food for a household can be used as an indicator of the level of welfare of the household, or in other words, the higher the share of food expenditure, the less prosperous the household, conversely, the smaller the share of food expenditure, the ladder is getting better The average per capita expenditure for food expenditure in Central Kalimantan in the period 2011 to 2018 has decreased, while non-food expenditure has increased. The percentage of average monthly expenditure per capita for food and non-food items in Central Kalimantan Province can be seen in Table 1 below.

Table 1: Percentage of average per capita monthly spending on food and non-food in central Kalimantan province, 2011-2018

Year	Food Consumption	Non-Food Consumption
2014	56,55	43,45
2015	55,81	44,19
2016	55,20	44,80
2017	54,79	45,21
2018	53,74	46,26
2019	52,29	47,71
2020	54,77	45,23
2021	54,63	46,12

Source: Central Kalimantan Province Food Security Service, 2021

As shown in Table 1. Spending on food consumption from 2014 to 2021 average spending on food consumption is 54.72% while non-food consumption is 45.37%. This shows that it is not good where most of the household income is allocated for food consumption expenditure. As Ernest Engel, known as Engel's law, states that the higher the people's income, the smaller the proportion of people's spending on food. In other words, along with an increase in income, a shift will gradually occur, namely a decrease in the portion of income spent on non-food items. Shifts in the composition or pattern of spending.

This occurs because the elasticity of demand for food is generally low. Thus, the share of household food expenditure is an indicator of the level of community prosperity. So the share (in %) spending on food is getting smaller, then the level of community prosperity is said to be getting better (Trisnowati, 2013) [6].

Increase in National Rice Production (P2BN) 2012 Rice farming is constantly being developed because apart from being a source of income for farmers, rice is also the staple food for the majority of Indonesian people.

Efforts to achieve food security in Indonesia cannot be separated from increasing food production in particular Rice is the staple food for the majority of Indonesia's population. East Kotawaringin Regency has 17 sub-districts, Sampit Bay is the sub-district that has the largest lowland rice production with the potential for large enough agricultural land and large yields, so the most dominant livelihood is rice farming. The district that produces the largest rice in the district

East Kotawaringin is Sampit Bay District. Teluk Sampit sub district, where the majority of the population are rice farmers. As a rice center area, Teluk Sampit District consists of 7 villages including Lampuyang Village which has the highest land area and production. Harvested area and rice production in Teluk Sampit District can be seen in Table 2. below:

Table 2: Harvested Area and Rice Productivity by Village in Teluk Sampit District, East Kotawaringin Regency, 2020

No	Village	Land Area (Ha)	Production (Ton)
1.	Ujung Pandaran	12	28
2.	Lampuyang	5.338	20.066
3.	Regei Lestari	2.433	6.041
4.	Kuin Permai	1.999	6.592
5.	Basawang	453	1.532
6.	Parebok	240	761
	Amount	10.475	35.020

Source: Ujung Pandaran Agricultural Extension Center 2020.

The amount of production produced does not necessarily

meet sufficient food availability so that it cannot reflect household food security. The amount of production produced does not necessarily meet sufficient food availability so that it cannot be reflects household food security. Low income will result in poor household food conditions, because more income is spent on food consumption. The higher the income level of a farmer household, the larger the farmer household obtain good food so that welfare is guaranteed. In addition, Lampuyang Village is one of the Teluk Sampit Districts which has an uneven food distribution problem/food and non-food shopping places that are still far from residence community. Based on the background, the objective of this study was to determine the proportion of food expenditure to the total expenditure of rice farming households in Lampuyang Village, Teluk Sampit District.

Research methods

This research was conducted in Lampuyang Village, Teluk Sampit District, East Kotawaringin Regency. The location determination was carried out purposively with the consideration that the area has the highest production and harvested area in Teluk Sampit District. Sampling uses Simple Random Sampling, namely data collection or respondents are carried out in a simple random way, where the sample is taken in such a way that each population unit has the same opportunity to be selected as a sample. Considering the criteria of the respondents the sample is those who work as rice farmers, the number of heads of rice farming families is 411 families.

In determining the sample size, the researcher followed the opinion of Suharsimi Arikunto (2006) [1], that is, if there are less than 100 subjects, all of them should be taken so that this study is a population study. Furthermore, if the number of subjects is large, it can be taken between 10-15% or 20-25% or more according to the ability of the researcher. Nasution (2006) [4] also revealed that the appropriate sample size is often called the tenth rule, which is 10% of the total population. If the population is 1000 people, then 100 people is considered sufficient. The population of rice farmers in Lampuyang Village, Teluk Sampit District, East Kotawaringin Regency is 411 families, so that 10% of 411 is 41.1, if rounded up the number of samples selected is 41 families.

The type of research method chosen is descriptive analysis, analysis takes problems or focuses attention on problems as they were when the research was carried out, the results were then processed and analyzed to draw conclusions. The data obtained will be studied, calculated, complicated, Presented in a form tabulation (Table). This data is processed quantitatively by using a computer through the SPSS 16.0 application. The tool used to answer the objective is to find out the proportion of food expenditure to the total expenditure of farming households using the formula Yudaningrum (2011) [8] as follows:

$$PF = \frac{PP}{TP} \times 100 \%$$

Where

PF = Proportion of food expenditure (%)

PP = Food expenditure (Rupiah)

TP = Farm household total expenditure (Rupiah)

Farmer household characteristics

The characteristics of the respondents are a general description of the condition of the respondents. The respondent's household includes data on education and the number of family members and income per month from rice farming. In this study, 41 respondents were taken from Lampuyang Village, Teluk Sampit District, East Kotawaringin Regency. The characteristics of the respondent's household can be seen in the table 3 as follows:

Table 3: Characteristics of rice farmer households in Lampuyang village

Characteristic	N	%
Education Level of Head of Family	9	22.0
Not Elementary School	8	19.5
SMP	10	24.4
SMA	12	29.3
PT	2	4.9
Amount	41	100.0
Number Of Family Members	1	43.
Small (≤ 4 people)	8	9
Big (> 4 people)	2	56.
	3	1
Jumlah	41	100.0
income of the head of the family	1	43.
Up UMK	8	9
Under UMK	2	56.
	3	1
Amount	41	100.0

Source: Primary Data (processed) for 2021

Table 4: Average rice farmer household food expenditures in Lampuyang village

Food Production	Average (Rp/month) N-41	%
Grain	365.626,40	22.20
Tubers	15.780,49	0.96
Nuts	83.170,73	5.05
Sugar	42.975,61	2.61
Oily seeds	13.495,12	0.82
Vegetables	64.580,49	3.92
Meat	29.475,00	1.79
Egg	52.146,34	3.17
Milk	13.414,63	0.81
Fish	93.902,44	5.70
Fruit	56.707,32	3.44
Spice	37.853,66	2.30
Oil and fat	67.463,41	4.10
Beverage ingredients	37.853,66	2.30
Ready drink and food	132.756,10	8.06
Cigarette production	539.878,05	32.78
Amount	1.647.079.45	100,00

Source: Primary Data (processed) for 2021

Based on Table 4, it can be seen that the largest average food expenditure, namely cigarettes, was Rp. 539,878.05 (32.78%) while the smallest average food expenditure was found in milk, which was Rp. 13,414.63 (0.81%).

Cigarette expenditure also affects the consumption of other foods to obtain food nutritious. Respondents' households thought that they were used to smoking in carrying out their daily activities and it was difficult to get rid of, of course this had an effect on food consumption patterns. Milk,

From Table 3 it can be seen that the last education was in the SMA group of 12 households (29.3%). The average educational level of the head of the family is 7 years. This means that the education level of the respondents is still low. The low education of respondents is due to limited funds, the school is far from where they live, so they experience difficulties in accessing transportation.

It is known that the highest number of household members is ≥ 4 people (53.7%). Large households affect food needs, the more family members, the more food needs. The number of family members can also increase family income because more family members are working. The income of the head of the family is in the low income group below the East Kotawaringin District Minimum Wage (Rp. 2, 991, 946) for 23 households or around (56.1%). The source of the respondents' income comes from the income of husband, wife and children and others. Family income is an important factor in determining the quality and quantity of food consumed by households. High income will increase the quantity and quality of food, whereas households with low income are more concerned with food in quantity and not yet or less concerned with the nutrition contained in food.

Rice farmer household expenditures

Household food expenditure is the amount of money spent for household consumption. Food expenditure can be divided into two, namely expenditure for food and non-food expenditure. Average monthly expenditure on food in Lampuyang Village can be seen in Table 4 below.

tubers and meat provide energy and protein for the body but are rarely consumed by the respondents.

Apart from spending on food, other expenses for households are non-food expenses, namely housing and home facilities, various goods and services, clothing, footwear and head coverings, durable goods, taxes, levies and insurance, party and ceremonial needs. The average household non-food expenditure of rice farmer respondents can be seen in Table 5. as follows.

Table 5: Average Non-Food Expenditure of Rice Farming Households in Lempuyang Village

Expenditure	Average (Rp/month) N-41	Persen
Housing and Home Facilities	647.940,39	58,64
Various goods and services	328.317,07	29,71
Clothing, footwear, head coverings	15.365,85	1,39
Needs for parties, ceremonies/festivities	111.804,88	10,12
durable goods	00	0,00
Tax and Insurance	1.609,76	0,15
Amount	1.105.037,95	100,00

Source: Primary Data (processed) for 2021

Based on Table 5. above, it can be seen that the largest average non-food expenditure is for housing and housing facilities, which is 58.64%. The largest expenditure on housing and housing facilities is gasoline, with an average expenditure of Rp. 306,048.78. Non-food costs. The high number of respondent households is due to the daily use of machines and vehicles.

Based on Table 4 and Table 5. it can be seen that the average total expenditure. Total expenditure is expenditure for food consumption plus non-food expenditure. The size of the average total expenditure in this study is IDR 2,752,117.40. It is known that spending on food is around IDR 1,647,079.45 (59.85%) and spending on non-food is IDR. 1,105,037.95 approximately (40.15%). It can be concluded that food expenditure is greater than non-food expenditure in total expenditure. According to Engel's law, the higher the proportion of food expenditure, the lower the level of household welfare.

References

1. Arikunto, Suharsimi. *Qualitative Research Methods*. Earth Script: Jakarta; c2006.
2. Keynes, John Maynard. *The General Theory of Employment, Interest and Money*. Penerbit Palgrave Macmillan. Hal 472 edition; 1936-2007.
3. Maxwell DC, Levin MA, Klemeseau M, Rull S, Morris Aliadeke C. *Urban Livelihoods and Food Nutrition security in Greater Accra, Ghana*. IFFRI and Collaborative with Noguchi Memorial for Medical Research and World Health Organization Research Report No.112; c2000.
4. Washington DC Nasution. *Naturalistic-qualitative Research Methods*. Bandung: Tarsito; c2006.
5. Purwantini. *Food Insecurity and Nutrition Approaches: Magnitude Characteristics and Causes*. Center for Agricultural Socioeconomics and Policy. Jl. A Yani No. 2014, 70 Bogor; c1661.
6. Trisnowati J. 7 K. Budiwinarto, *Study of the Effect of Prices and Income on the Proportion of Household Food Expenditures (Complete Demand Linear Model Approach)*. In the Proceedings of the Diponegoro University National Statistics Seminar; c2013.
7. Widowati S. *Flour of Assorted Tubers A Solution to Food Security*, Center for Research and Development of Agricultural Postharvest in the Sinar Tani Tabloid; c2009.
8. Yudaningrum, Agnes. *Analysis of the Relationship of the Proportion of Food Expenditure and Consumption with Food Security of Farmer Households in Kulon Progo Regency*, Thesis, Faculty of Agriculture, University of Muhammadiyah. Surakarta; c2011.