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Structure of Revenue and Expenditure of Fishermen Household In South Kaur Subdistrict Kaur District

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ABSTRACT: This study aims to determine the structure of fishermen household income and expenditure. This research was conducted in March-April 2018 in Sekunyit Village. Research location is determined by purposive with Sekunyit consideration that in the village is one of the fishing villages in the district portrait Kaur. Data processed using analysis of receipts and expenditures of households. The results showed the average amount of fisherman household income in Sekunyit Village was Rp. 8,606,594,59 / month. Revenue from the capture fisheries sector contributed the most (82.08%) to the fishermen household income. Meanwhile, the average expenditure of a fisherman's household in Sekunyit Village is Rp. 3,980,499 / month, where 69.24% was used to finance the capture fisheries business sector.

Key words: Revenue, Expenditures, Fisherman Households

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INTRODUCTION

Bengkulu Province is one of the areas where the majority of the population works as fishermen because most of Bengkulu is a coastal area. One of the coastal areas in Bengkulu Province is Kaur Regency. Kaur Regency has considerable potential in its marine sector. Therefore, the majority of the residents' livelihoods are as fishermen.

Sekunyit Village is a portrait of a fishing village in Kaur Regency. This village became one of the suppliers of fishery production in the South Kaur District. As is the case with households in general, the structure of the reception of fisherman households in Sekunyit sourced from Village is its main occupation capture as fisheries. However, fishing activities for fishermen are very dependent on weather and season factors. At certain times, fishermen often can not go to sea

because it is constrained by bad weather, high waves or natural obstacles that can not be conditioned.

To continue to be able to meet household needs, fishermen generally have side jobs as an alternative source of income for their households. These side jobs can take the form of trading, drivers, motorcycle taxi drivers, construction workers, or farm laborers. For those who own farming land, they can work in the agriculture or plantation sector. But for fishermen who do not have farming land, generally choose to participate in the service sector.

In addition to the reasons for dependence on weather conditions, the high necessities of life that must be met by households also encourage fishermen to have various sources of income. Therefore, the source of income of fishermen households can come from the capture fisheries business sector, nonfisheries sector, or from other sectors outside the agricultural sector.

entire The revenue that the fishermen in the end used to finance all the household expenses of his, such as expenditures of food, education, health, and other purposes. Expenditures for fishery business also must be spent fishing, such as repairing nets, treatment vessel and gear, fishing fees and the cost of feed. Therefore, in generals structures are at expenditure in households of fishermen can be grouped into the fisheries sector spending, spending nonfisheries sector, and non-agricultural expenditure. The distribution of fishermen household expenditure for each sector of expenditure will produce an interesting distribution pattern of expenditure to be studied. This study specifically aims to analyze the structure of income and expenditure of fishermen households and analyze the distribution of each component making up the structure of income and expenditure in households fishermen in Sekunyit Village.

METHOD

Determination of the location in this study was conducted *purposively*, namely in Desa Sekunyit, Kaur Selatan District, Kaur Regency. This location was chosen based on the consideration that almost 75% of the villagers work as fishermen. This research was conducted in during March-April 2018.

The population of this research is household. Not fisherman all populations are used as respondents. Determination of the number of research samples using the Slovin formula in order to obtain 74 fishing households that were respondents of the study. households Fisherman selected as respondents are then randomized using the lottery. Revenue analysis is carried out by describing the description of the

structure of fishermen's revenue based on the sources of basic income and side income of fishermen's household (Soekartawi, 2003) The same formulation was used by Fatma A K and Sudrajat (2012), Mawardati. 2015, Tarigan, et al (2013), Kustiawati et al (2015), Putri, E.A., et al (2015), Zargustin, et al (2015) and Fauziyah (2010). This formulation by Manalu, (2018) was modified to be the calculation of fisherman household income. Formulated as follows:

$$\sum \text{TR} = \sum_{i=1}^{n} TR_{SI} + \sum_{i=1}^{m} TR_{SNI} + \sum_{i=1}^{p} TR_{SNP}$$

- \sum TR = Total revenue (Rp / month)
- SI = Total Fisheries sector revenue (Rp / month)
- SNI = Total non-fisheries agriculture sector revenue (Rp / month)
- SNP = Total non-agricultural sector revenue (Rp / month)

I = 1n = Types of fish receipts (Rp / month)

- J = 1 ... m = Non-fisheries agriculture sector revenue (Rp / month)
- K = 1 p = Non-agricultural sector revenue (Rp / month)

Analysis of household expenditures fishing is done by decomposing in the description of the structure of household expenditure based on kinds of expenses, spending the fisheries sector, the agricultural sector and the non-fisheries non fisheries sector. The following is the formulation of the equation:

$$\sum TC = \sum_{i=1}^{n} TC_{SI} + \sum_{i=1}^{m} TC_{SNI} + \sum_{i=1}^{p} TC_{SNP}$$

 Σ TR = Total expenditure (Rp / month)

- SI = total fisheries sector expenditure (Rp / month)
- SNI = Total expenditure for non-fisheries agriculture sector (Rp / month)
- SNP = Total non-agricultural sector expenditure (Rp / month)

 $I = 1 \dots n = Expenditures$ for tool

depreciation + variable costs (Rp / month)

- J = 1 ... m = Non-fisheries agriculture sector expenditure (Rp / month)
- K = 1 p = Non-agricultural sector expenditure (Rp / month)

Next to analyze the distribution of each component making up the structure of revenue and expenditure in fishermen households used a descriptive approach using a distribution table.

RESULTS AND DISCUSSION

Fisheries Household Acceptance Structure

1. Revenue from the Fisheries Sector

Revenue from the fisheries sector is revenue from fishing. This revenue is obtained from the production of types of fish and then multiplied by the selling price per type of fish. Fisheries sector revenue is determined by the large amount of production and the high and low price of fish per kg.

Based on Table 1, the average amount of revenue from the fishery sector in Sekunvit village is Rp. 7,064,702,70.-. Revenue is quite high because at the time of the study the condition of the weather is good enough so that Fisherman can fishing every day. The frequency of fishing at sea if in good weather conditions is an average of 24 times per month. However, if the weather is bad, fishermen can only sail 12 times and sometimes fishermen cannot go to sea at all. Therefore, the fishermen's acceptance depends very much on the weather, price and catch production. Acceptance of fishermen in Sekunyit Village when compared with Dwi et al, (2016) research is still relatively low. Dwi et al, (2016) in his research in the Belitung area concluded the average monthly fishing that revenue could reach Rp. 11,531,255.

No	Description	Average (Rp)	Percentage (%)
1	Crow	431,621.62	6.11
2	Pari	52,878.38	0.75
3	Jenehe	748,108.11	10.59
4	Gebur	714,594.59	10.11
5	Rivet	507,432.43	7.18
6	Mackerel	451,891.89	6.4
7	Geez	486,891.89	6.89
8	Belide	149,189.19	2.11
9	Courtesy	838,378.38	11.87
10	Ruwan	107,432.43	1.52
11	Uncommon Teeth	308,108.11	4.36
12	Haur-haur	357,094.59	5.05
13	Simbe	419,189.19	5.93
14	A bag	396,216.22	5.61
15	Grouper	532,972.97	7.54
16	Big brother	562.702.70	7.96
	total	7,064,702.70	100

Table 1. Fisheries Sector Revenue in March-April 2018

Source: Primary Data Processed, 2018

2. Non Fisheries Sector Revenue

Aside from going to sea, a number of fishermen in Sekunyit Village also work in the agricultural sector, namely in the paddy farming. Farming lowland rice is only managed once a year. This is because the developed paddy rice farming only relies on rain-fed water sources. Therefore, the acceptance received from this paddy farming is not too large. Value of revenues generated amounted to Rp. 750,000.00 per planting season with an average production of 264 kg.

3. Non-Agricultural Sector Revenue

Non-agricultural sector revenue is a side income received by fisherman households. Non-agricultural revenues can be seen in detail in Table 2.

No	Description	Average (Rp)	Percentage (%)
1	Entrepreneur	81,081.08	20.15
2	Coolie	18,378.38	4.57
3	Honor	55,405.41	13.77
4	Employee	62,162.16	15:45
5	Shop	31,756.76	7.89
6	Private	128,378.38	31.91
7	Labor	25,202.70	6.26
	total	791,891.89	100

Table 2. Non-Agriculture Sector Revenue in Sekunyit Village

Source: Primary Data Processed, 2018

The non-farm fishermen household income in Sekunyit Village varies considerably based on the type of work performed. types The of private occupations, self-employed and honorarium are the side jobs that contribute significantly to the acceptance of fishing households from the nonagricultural sector. But overall the contribution of non-agricultural sector

revenue is smaller when compared to revenue from other sectors.

Total Fishermen Household Revenue

Fishermen household income is the total income received by fisherman households from the fisheries sector, non-fisheries sector and non-agriculture sector within a certain period.

Table	e 3. Fisherman Household Recept	tion in Sekunyit V	Village
No	Type of Household Acceptance	Average (Rn)	Percenta

No	Type of Household Acceptance	Average (Rp)	Percentage (%)
1	Capture Fisheries Sector	7,064,702.70	82.08
2	Non-Fisheries Sector (Rice)	750,000.00	8.71
3	Other Sectors	791,891.89	9.2
	total	8,606,594.59	100

Source: Primary Data Processed, 2018

Fishermen household revenue of fisheries catch is Rp. 7,064,702.70/ month or accounted for 82.08 percent of the total income of fishing households. Furthermore, revenue from the nonfisheries sector (rice farming) is Rp. 750,000.00 per planting season. While household income from other sectors (non-agriculture) is Rp. 791,891.89 per month. Based on the distribution of

these data it appears that the capture fisheries sector revenue provided the highest contribution to households for fishermen in Sekunyit Village. This shows that work as a fisherman is the main livelihood of the people there.

Fishermen Household Expenditure Structure

1. Fisheries Sector Expenditures

Fisheries sector spending is the value of the use upon the means of

production, etc. incurred during the production process.

Based on Table 4 the biggest fisheries sector expenditure on the second point is the average variable cost of Rp. 1,376,527.03. Variable costs are costs that are used up in one use. The types of variable costs incurred such as fuel, ice cubes, cigarettes, bait and consumption. For their own fuel, fishermen use Pertamax.

No	Expenditures type	Average (Rp)	Percentage (%)
1	Tool Depreciation Costs	493,923.96	16.64
2	Variable Cost	1,376,527.03	46.38
3	Labor costs	157,212.16	5.3
4	Sales fee	708,783.78	23.88
5	Maintenance costs	231,252.86	7.79
	total	2,967,699.77	100

Source: Primary Data Processed, 2018

While for fishermen bait using octopus, later octopus will be cut into pieces and put on the hook, in addition to octopus fishermen usually use bait from the results of the fish obtained from fishing.

2. Expenditure in the Non-Fisheries Sector of Rice Farming

Non-fisheries sector expenditures donated from rice farming. In this study, rice farming expenditure only calculates expenditure from the variable cost component and ignores the fixed cost component.

Table 5. Expenditures on Non-Fisheries Sector for Rice Farming

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No	Expenditures type	Average (Rp)	Percentage (%)
1	Seed	25,472.97	7.65
2	Fertilizer	72,128.38	21.66
3	Pesticide	12,695.95	3.81
4	Labor (Planting and Harvesting)	164,864.86	49.5
5	Tractor Rentals	42,554.05	12.78
6	Land lease	15,342.47	4.61
	total	333,058.68	100

Source: Primary Data Processed, 2018

Based on Table 5, the biggest expenditure is on labor, which consists of labor for planting and harvesting. The small amount of costs incurred for nonfisheries sector expenditure is rice farming, because these costs are used

once a year. Rice farming in Sekunyit Village in one year is only one planting season.

3. Fishermen Household Food Expenditures

Fisherman household expenditure is expenditure spent by each household during the research for one month. Fishermen household expenditure consists of food and non-food expenditure.

Based on Table 6, the total household expenditure of fishermen's

household in Sekunyit Village per month is Rp. 554,100, 03, -. The highest average expenditure is for rice consumption for daily consumption, which is Rp. 211,891.89 per month with a percentage of 38.24%. Rice is a staple food as a source of carbohydrates.

No	Types of Food Expenditures	Average (Rp)	Percentage (%)
1	Side dishes	29,824.32	5.38
2	Vegetables	122,682.43	22.14
3	Spices	16,250.00	2.93
4	Beverage Ingredients	93,371.62	16.85
5	Cooking oil	21,945.95	3.96
6	Rice	211,891.89	38.24
7	Chicken meat	33,951.39	6.13
8	Egg	22,898.65	4.13
9	Fruit	1,283.78	0.23
	Total	554,100.03	100

Table 6. Fishermen Household Food Expenditures

Source: Primary Data Processed, 2018

While the smallest expenditure is found in fruit consumption expenditure, which is Rp. 1,283.78, - with a percentage of 0.23%. Fruit is a small percentage of vegetable protein and vitamins, because the villagers rarely consume fruit, this is also because the place to buy fruits is also far enough they have to buy to the market (in the city). By looking at this relatively small purchasing power, villagers reduce the types of expensive food such as chicken and eggs. Where for the price of one kg of chicken is Rp. 40,000 and Rp. 2,000 per piece.

Food expenditure in Sekunyit Village is said to be low, due to their own side dishes such as fish they don't buy anymore and for their own fish consumption almost every day. According to Hans (2015), Humaidi, *et al* (2015). The higher the revenue, the portion of expenditure will shift from expenditure for food to non-food expenditure. The lower the portion of revenue spent on food ingredients and the higher the portion spent on non-food ingredients, the level of welfare increases.

4. Fishermen Household Non-Food Expenditures

Non-food expenditure needs are other basic needs for fishing households such as body care, fuel, electricity, education and other needs.

From Table 7 shows that the household expenditure of average fishermen for non-food expenditure per month is Rp. 431,878, 38, -. Each fisherman household has different expenses to meet their needs. Household food expenditure fisherman in the village of Sekunyit larger than the nonfood expenditure, at the same time fishermen household can be said to have not been prosperous. According to Arida et al, (2015), Nasution (2007), Hans (2015) stated that the proportion of food expenditure that is higher than the proportion of non-food expenditure

shows that fishermen households are still not prosperous.

Fishermen Household Expenditures

Fishermen household xpenditure is the total expenditure spent by each

fisherman household in one month, both expenditures from the fisheries sector, non-fisheries and non-agricultural sectors (food and non-food).

Table 7. Fishermen Ho	ousehold Non-	-Food Expenditures
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No	Types of Food Expenditures	Average (Rp)	Percentage (%)
1	Body Care	34,209.46	7.92
2	Fuel	67,439.19	15.62
3	Electricity	95,986.49	22.23
4	Communication	23,189.19	5.37
5	Education	71,324.32	16.51
6	Credit installments	121,486.49	28.13
7	Social activities	18,243.24	4.22
	total	431,878.38	100

Source: Primary Data Processed, 2018

Table 8. Total fishermen household expenditure in Sekunyit Village

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No	Type of Household Expenditures	Average (Rp)	Percentage (%)
1	Capture Fisheries Sector	2,967,699.77	69.24
2	Non-Fisheries Sector for Rice Farming	333,058.68	7.77
3	Non Agriculture (Food and Non Food)	985,060.81	22.98
	total	4,285,819.26	100

Source: Primary Data Processed, 2018

Expenditure fisheries catch is the amount of the costs incurred to finance the activities of fishermen at sea. Expenditu renon fisheries sector is the cost incurred by fishermen in the farming of rice per cropping season. Whereas non-agricultural expenditure is calculated based on food expenditure and non-food expenditure of fishermen households. From the research, the largest expenditure in the fisheries sector contained in the fisheries sector fishing is Rp. 2,967,699.77, or accounted for 69.24 percent of the total fishermen household expenses each month.

CONCLUSIONS AND SUGGESTIONS

Conclusion

1. The structure of fishermen household acceptance comes from the capture

fisheries sector, non-fisheries sector (lowland rice farming) and nonagricultural sectors (entrepreneurs, laborers, coolies, honorariums, stalls, private sector). The amount of revenue from the capture fisheries sector is Rp. 7,064,702.70 per month, non-fisheries sector (lowland rice) of Rp. 750,000.00, - per month and of the non-agricultural sector amounted to Rp. 791,891.89 per month.

2. Fishermen household expenditure structure consists of capture fisheries sector, non-fisheries sector (lowland rice) and non-agriculture sector (food and non-food sector). The amount of expenditure for the capture fisheries sector is Rp. 2,967,699.77 per month, non-fisheries sector (lowland rice) of Rp.333,058.68, - per month and of the non-agricultural sector amounted to Rp. 554,100.03 per month (food expenditure) and non-food expenditure of Rp. 431,878.38 per month.

Suggestion

The role of side jobs becomes an alternative for fishermen to increase household income. Work outside the capture fisheries sector is one of the fishermen's businesses to meet their household needs if at any time bad weather continues which results in fishermen being unable to go to sea.

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