

Original Research Article

Analysis of Sales Marketing Margins and Marketing Efficiency of Gillnet Fisherman in Nusantara Fishery Port Palabuhanratu, Sukabumi

ABSTRACT

The marketing process of gillnet fishing catch sales in Palabuhanratu is not balanced. Gillnet fishing catch sales are not through auction due to the small catch. So that fishermen have no other way than to sell the catch to middlemen because of the consequences of capital borrowing. This study aims to determine marketing activities and marketing margins, costs and profits. Gill nets at the Palabuhanratu Nusantara Fishing Port, Sukabumi. This research was conducted from February 2022 to June 2022. The method used is a descriptive method with a case study approach. The types of data used is primary data by using a questionnaire. The sampling technique used in this research is snowball sampling. A snowball sampling technique is a step in selecting sources at the time in the field or based on previous informants' instructions so that researchers get complete and in-depth data. Based on the data analysis, The biggest cost on channel II range from IDR 3.800- IDR 15.500 Followed by channel IV range from IDR 6.150- IDR 14.000 and the lowest is channel III range from IDR 3000- IDR 7.000. The highest profit is channel II range from IDR 8.200- IDR 17.970 and the lowest profit is channel III range from IDR 1.200- IDR 6.000. The marketing channel that has the smallest marketing margin and the largest share margin is channel type 3, with a margin value of between IDR. 10,000-IDR.5,000 with an average of IDR. 6,700 - and share margins ranging from 64.28% - 77.78% with an average of 71.6% followed by type 1 channels with marketing margins ranging from IDR.7,000-IDR.20,000 with an average of IDR.11,800, - and share margin ranging from 63.3% - 72% with an average of 67.28%. The results showed that there are 4 patterns of marketing channels, where the most efficient marketing channel is through channel type three followed by channel type one. However, it should be underlined that marketing efficiency is not only seen from marketing margins and share margins, although type 3 channel is the most efficient channel, but when viewed from the quality and freshness of fish, type 1 channel is better. To be able to increase the income of fishermen should process abundant fish products into frozen food so that it can be absorbed by the market. In addition, there is a need for government agencies that are able to fight for fishermen in obtaining capital and reactivating existing cooperatives.

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Keywords: Marketing Activities, Marketing Margins, Share Margin, Cost, Profits

1. INTRODUCTION

Palabuhanratu is one of the largest ports on the southern coast of Java and even in West Java (Aritonang 2018). The Palabuhanratu Nusantara Fishery Port

(PPN) is a capture fisheries sector or area that has abundant natural resources as evidenced by varied catches. The catch of course has a direct effect on the level of welfare of fishermen because it is the main source of income for fishermen (Ridha, 2017). The catch is a product that

is sold by capture fisheries business. The increase in sales from the catch is certainly closely related to marketing activities. Marketing activities can run smoothly if they are driven by a balance of purchasing power from consumers (Setyawan et al., 2021). According to Arbi et al (2018) marketing channels are a series of interdependent institutions or organizations involved in the process of making a product acceptable to consumers. The larger the marketing margin, the smaller the percentage of the share received by fishermen. Fishermen need marketing agencies to be able to distribute their catches for sale more quickly and efficiently. This phenomenon can be seen from the low selling price obtained by fishermen (Muninggar et al., 2013). Therefore, information related to what type of catch provides the highest profit margin can certainly increase the income of the fishermen themselves, because the increase in income is also related to welfare level, so that the marketing margin has a big influence on the welfare of fishermen in Palabuhanratu. This study aims to describe the background above regarding the analysis of marketing activities with the catch of gillnet in Palabuhanratu, Sukabumi.

2. MATERIAL AND METHODS

This research was conducted at the Fisheries Port of the Archipelago, Palabuhanratu, Sukabumi Regency, West Java Province, Indonesia, in February 2022 – June 2022. The method used for this research is a descriptive method with a case study approach. This method has a purpose in making a description, and an accurate picture in accordance with the existing facts and the phenomenon being investigated. **The type of data used is primary data by using a questionnaire.** The sampling method used is snowball sampling. The snowball sampling **method was** carried out to trace the institutions involved in the marketing process of fish

caught by drift gillet fishermen, there are, 1 ownerhip, 1 collectors, 2 agents and 2 retailers, and so on.

2.1 Marketing Analysis

The data analysis to answer the objectives of this research is as follows:

1. To find out the marketing channels of fish caught by gillnets observations of the marketing institutions involved ranging from fishermen, retailers. The income received by marketing agencies will vary.
2. To analyze the marketing used quantitative analysis and marketing margins at the agency level in channels and marketing efficiency by calculating the costs, profits and marketing margins for each intermediary agency in various channels (Sudiyono 2002).

2.1.1 Marketing Costs

According to (Sudiyono 2002) Marketing costs are the sum of the costs of each marketing agency formulated as follows

:

$$Bp = Bp1+Bp2+Bp3....+Bpn$$

Description:

Bp : Marketing Costs
Bp1, Bp2, Bp....Bpn : Marketing costs per marketing agency

2.1.2 Marketing Profit

Profit is the sum of the profits received by each marketing agency that is passed in a marketing channel, according to (Sudiyono 2002) which is formulated as follows:

$$Kp1+Kp2+Kp3.....+Kpn$$

Description:

Kp : Marketing advantage
Kp1 , Kp2, Kp3..Kpn : Marketing profit of each marketing agency

2.1.3 Marketing Margin

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Margin The marketing margin is the difference between the price at the producer level and the final consumer level. According to (Sudiyono 2002) it is formulated as follows:

$$MP = Pr - Pf$$

Description:

MP : Marketing Margin (IDR/kg)
Pr : Consumer Price (IDR/kg)
Pf : Producer Price (IDR/kg)

2.1.3 Presentage Marketing Margin

Percentage Margin or Share margin is the percentage of the price received by fishermen to the price paid by consumers.

$$Mp: (Pf / Pr) \times 100\%$$

Description:

Mp : Marketing Margin
Pf : Price at producer level (IDR/kg)
Pr : Price at consumer level (IDR/kg)

3. RESULTS AND DISCUSSION

Marketing system of marine caught landed at PPN Palabuhanratu carried out through two channels. First, through the TPI and some without going through the TPI. Marketing through TPI is carried out based on the results of the auction with system highest bidding. Meanwhile, marketing without going through the TPI is intended for fish to be exported and also fishermen with fishing gear with small catches. The marketing institutions in PPNP include fishermen, baskets, ship owners, middlemen, retailers and agents. Most of the fishermen have not used the existing facilities, namely TPI, to market their caught. According to interviews, fishermen are more attached to boat owners, resulting in the low contribution of fishermen in selling their fish at TPI. The low number of catch production and ship owners who double as baskets and fish collectors are also a factor not carrying out fish auctions at TPI. Some fishermen, especially gillnet fishermen, think that TPI marketing is detrimental. This is because

the catches of drift gillnets are small catches (Lubis et al 2012).

3.1 Marketing Distribution of Fisherman's Catches of Drift Gillnets in Palabuhanratu

There are no distribution channels for fish catches from fishermen who are respondents who sell their catches to other marketing institutions. The price of fish is determined by the owner of the ship as well as the first collector according to the type, quality of fish, as well as the number and size of the fish brought by the fishermen. Before going to sea, fishermen are provided with provisions such as food, drink and cigarettes. In addition, ship owners will also provide fishing capital such as fuel, ice cubes, oil and other equipment that supports fishing activities. So that the fishermen only need to catch fish and hand over the catch to the ship owner and it can be said that the fishermen here are only laborers. Fishermen cannot determine their own prices.

3.2 Distribution Channel Pattern Of Fish Caught By Fishermen In Drift Gillnet

The pattern of marketing channels can be created by the association of marketing institutions ranging from producers (fishers) to consumers. Based on the results of the research that has been carried out, it can be described about the pattern of marketing channels for fish caught by drift gillnet. The following is an illustration of the types of marketing channels traversed by drift gillnet at PPN Palabuhanratu:

- 1) Fishermen - Ship Owners - Retailers - Consumers
- 2) Fisherman - Ship Owners - Wholesaler- Retailers - Consumers

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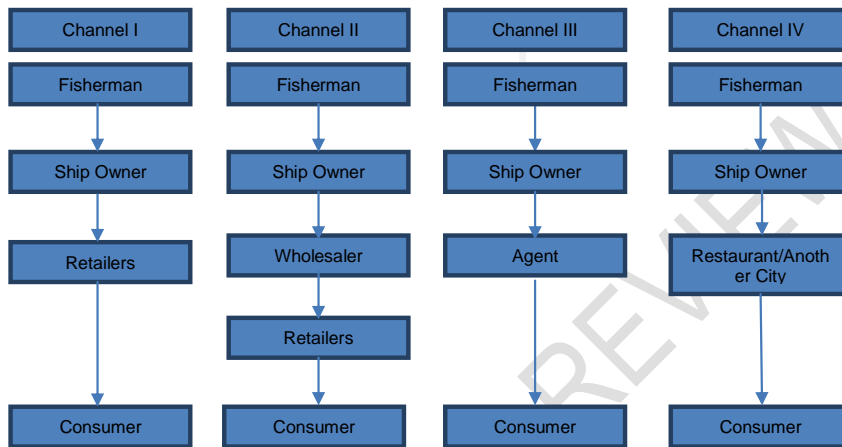
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3) Fishermen - Ship Owners - Agents - Consumers

4) Fishermen - Ship Owners - Restaurants/entrepreneurs-Consumers

Graph 1. Marketing Channels



Based on fish marketing channels the above catchment, fish marketing is carried out through four channels, namely:

a. Channel I

In channel 1, fishermen sell their catch to ship owners. Sales are made by waiting or visiting the fishermen shortly after going to sea. Then from the ship owner/collector, the fish is directly sold to the retailer in a way of the retailer coming to the ship's owner/collector, then the retailer will wait for consumers who will call or send messages to the retailer because they have subscribed.

From the interviews, **fish-to-door** marketing channel is the most widely used channel by marketing fishery business for drift gillnet catches in PPNP.

b. Channel II

This channel is the longest channel compared to other channels. Starting from the fishermen selling their catch

to the ship owner who acts as the first collector, then the fish is bought by the wholesaler then the fish is bought by retailers who then sell the fish to consumers.

c. Channel III

If the sales proceeds from the ship owner/owner are not sold or purchased by retailers and collectors, the catch will be wholesaled by agents and earn high profits, because of the low price. Furthermore, the fish are purchased by retailers and the fish will be sold to consumers. Consumers who buy fish directly from agents will be reprocessed into processed fish such as fish balls, fish nuggets, as well as for the supply of business materials such as restaurants. So that the third channel can be systematically described as follows: fisherman – ship owner/ – agent – consumer.

d. Channel IV

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In this last channel, marketing continues through fishermen as producers, followed by ship owners/collectors. Furthermore, this ship owner/collector sells to restaurants who want very fresh quality fish directly from the sea and

are willing to pay a high price compared to buying fish from an agent that has been frozen. Ship owners/collectors also cooperate with entrepreneurs outside the city who want fresh quality fish.

3.4 Types and Prices of Fresh Fish

The types of fish caught are divided into two types, namely the main catch fish and by catch.

Table 1. Prices and Types of the main catches fish (The selling price fisherman)

| No | Main catch | |
|----|--|----------------|
| | Type of Fish | Price (IDR/kg) |
| 1 | Mackerel (<i>Scomberomorus commerson</i>) | 40,000 |
| 2 | Mackerel Kuwe (<i>Charanx ignobilis</i>) | 35,000 |
| 3 | Marlin/ Jangilus (<i>Istiophoridae</i>) | 30,000 |
| 4 | Cloves / gray tuna (<i>Thunnus tonggol</i>) | 13,000 |
| 5 | Talang talang (<i>Chorinemus tala</i>) | 13,000 |
| 6 | Baby tuna/ jabrig (<i>Thunnus albacares</i>) | 18,000 |
| 7 | Skipjack tuna (<i>Katsuwonus pelamis</i>) | 18,000 |

*Main catch Primary data 2022

The table above shows that mackerel has a higher price compared to other types of fish, that is equal to IDR. 40,000/kg. Mackerel at a price of IDR. 40.000 is mackerel which has a large size with good quality. Then followed by the price of tuna type Kuwe with the offered price of IDR. 35.000/kg with a big size. Then Marlin fish or commonly called jangilus with a price of IDR. 30.000/kg with large

size and good quality, Cengker fish at a price of IDR. 13,000/kg small size, Talang-talang fish at a price of IDR 13,000/kg with a small size, baby tuna, which is a fish that has a local name jabrig, has a price of IDR. 18.000/kg with small size. The main catch in Palabuhanratu is skipjack tuna which has a price of IDR. 18.000/kg which have medium size tend to small.

Table 2. Prices and Types of the by catches fish (The selling price fisherman)

| No | By Catch | |
|----|--|----------------|
| | Type of Fish | Price (IDR/kg) |
| 1 | Waho/male mackerel (<i>Acanthocybium solandri</i>) | 18,000 |
| 2 | Pari/Cawang (<i>Dahsyatis sp</i>) | 6,000 |
| 3 | Bloating (<i>Rastrelliger kanagurta</i>) | 30,000 |
| 4 | Semar (<i>Lampris guttatus</i>) | 28,000 |
| 5 | Balida (<i>Chitala lopsis</i>) | 10,000 |
| 6 | Layur (<i>Trichiurus lepturus</i>) | 55,000-60,000 |
| 7 | Squid (<i>Loligo sp</i>) | 28,000-30,000 |

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*By catch Primary data 2022

Table above shows that Waho fish or male mackerel has a price of IDR. 18.000/kg. Furthermore, stingrays or cawang have a price of IDR. 6,000/kg. Several years ago, stingray/cawang was a by-catch that was very popular in Palabuhanratu. This causes massive exploitation which has an impact on the scarcity of this marine biota. pre-catch to 10 prevent extinction, the government has set a policy. That is the prohibition of catching stingrays/cawang fish as a conservation effort. Fishermen who dare to carry out trading activities and are monitored by units from government

officials will be given a sanction in the form of a fine of IDR. 2,000,000 With this policy, the price of stingrays has declined in the market. Another by-catch is Mackarel (kembung) which has a selling price of IDR. 30,000/kg. Then Semar fish with a selling price of IDR. 28.000/kg, balida fish at a price of IDR. 10,000/kg. In addition, Layur fish has a selling price of IDR. 55,000-60,000/kg. The determination of the price of Layur is based on the quality and size of the fish when it lands. The last by-catch is squid with prices ranging from IDR. 28.000-30.000/kg.

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3.5 Margins, Marketing Costs, and Profits Marketing

Tabel 3. Margins, Marketing Costs, and Profits Marketing Channel I (Main catch)

| No | Description | Main Catches | | | | | | |
|----------------------|------------------|----------------------|--------|----------------------|---------|-------------------|--------------|----------|
| | | Fish species (Rp/kg) | | | | | | |
| | | Mackerel | Kuwe | Marlin/ janguilus | Cengker | Talang- talang | Baby Tuna | Skipjack |
| 1. Fisherman | | | | | | | | |
| a. | Selling Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| 2. Ship Owner | | | | | | | | |
| a. | Purchase Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| b. | Marketing Margin | 10.000 | 15.000 | 10.000 | 5.000 | 5.000 | 5.000 | 2.000 |
| c. | Cost | 5.010 | 7.500 | 5.000 | 2250 | 2250 | 2.250 | 1.150 |
| | Profit | 4.990 | 7.500 | 5.000 | 2.750 | 2.750 | 2.750 | 850 |
| E | Selling Price | 50.000 | 50.000 | 40.000 | 18.000 | 18.000 | 23.000 | 20.000 |
| 3. Retailers | | | | | | | | |
| a. | Purchase Price | 50.000 | 50.000 | 40.000 | 18.000 | 18.000 | 23.000 | 20.000 |
| b. | Marketing Margin | 10.000 | 5.000 | 5.000 | 2.000 | 2.000 | 2.000 | 5.000 |
| c. | Cost | 4.010 | 4.000 | 4000 | 850 | 850 | 850 | 2.150 |
| d. | Profit | 5.990 | 1.000 | 1.000 | 1.150 | 1.150 | 1.150 | 2850 |
| E | Selling Price | 60.000 | 55.000 | 45.000 | 20.000 | 20.000 | 25.000 | 25.000 |

* Primary data 2022

The costs incurred by the ship owner ranged from IDR. 1,150 - IDR. 7,500,- per kilogram the costs were used for transportation and ice blocks as well as risk costs, while at retail institutions the costs incurred ranged from IDR. 850 - IDR. 4,010, - per kilogram the costs were used for transportation, ice and packaging. The marketing agency for ship owners gets quite a large profit, which ranges from IDR. 850- IDR. 7500 per kilogram, while retailers earn around IDR. 1,000- IDR. 5.990,- per kilogram.

Retailers only take small advantage in this channel because usually the number of catches obtained by fishermen is large, so that there is also a lot of fish circulating in the community. Furthermore, the marketing margin of the ship owner ranges from IDR.2000 - IDR15.000,- per kilogram while the retailer ranges from IDR.2000-IDR.10,000 per kilogram. In this channel the highest marketing margin is found in the marketing agency of the ship owner.

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3.5.2 Margins, Marketing Costs, and Profits Marketing Channel I (by catch)

| | | By catch | | | | | | |
|----------------------|------------------|--------------------|----------|---------|--------|--------|---------------|---------------|
| No | Description | Jenis Ikan (Rp/kg) | | | | | | |
| | | Tenggiri laki | stingray | Kembung | Semar | Balida | Layur | Cumi |
| 1. Fisherman | | | | | | | | |
| a. | Selling price | 18.000 | 6.000 | 30.000 | 28.000 | 10.000 | 55.000-60.000 | 28.000-30.000 |
| 2. Ship Owner | | | | | | | | |
| a. | Purchase Price | 18.000 | 6.000 | 30.000 | 28.000 | 10.000 | 55.000-60.000 | 28.000-30.000 |
| b. | Marketing Margin | 5.000 | 2.000 | 5.000 | 4.000 | 8.000 | 10.000-20.000 | 2.000 |
| c. | Cost | 2.250 | 1.050 | 3.000 | 1.300 | 4.000 | 6.300 | 1.200 |
| | Profit | 2.750 | 950 | 2.000 | 2.700 | 4.000 | 3.700-13.700 | 800 |
| E | Selling price | 23.000 | 8.000 | 35.000 | 32.000 | 18.000 | 70.000-75.000 | 30.000 |
| 3. Retailers | | | | | | | | |
| a. | Purchase Price | 23.000 | 8.000 | 35.000 | 32.000 | 18.000 | 70.000-75.000 | 30.000 |
| b. | Marketing Margin | 2.000 | 1.000 | 3.000 | 2.000 | 4.000 | 2000-7000 | 3.000 |
| c. | Cost | 1.650 | 800 | 2.400 | 1.100 | 3.000 | 5.400 | 1.150 |
| | Profit | 350 | 200 | 600 | 900 | 1000 | 1.600 | 1.850 |
| E | Selling Price | 25.000 | 9.000 | 37.000 | 34.000 | 22.000 | 77.000 | 33.000 |

* Primary data 2022

In channel I, with by catch the costs incurred by ship owners ranged from IDR. 1,050 – IDR. 6,300,- per kilogram while the costs incurred by retailers ranged from IDR. 800 - IDR 5,400 per kilogram so that is the most costs incurred by the ship owner. The highest profit is for the ship owner with a price range of IDR.800 - IDR.13,700 per kilogram, while the profit

for retailers is between IDR.800-IDR.5,400 per kilogram. Furthermore, the marketing margin for channel I with the highest by catch is the ship owner/, which ranges from IDR. 2000 - IDR. 20,000 per kilogram, while the marketing margin at retailers ranges from IDR. 1000 - IDR. 7000 per kilogram.

Table 3. Margins, Marketing Costs, and Profits Marketing Channel II (Main Catch)

| | | Main catch | | | | | | |
|----------------------|------------------|-----------------------|--------|---------------------|---------|-------------------|--------------|----------|
| No | Description | Fish Species (IDR/kg) | | | | | | |
| | | Mackerel | Kuwe | Marlin/ jangilus | Cengker | Talang- talang | Baby Tuna | Skipjack |
| 1. Fisherman | | | | | | | | |
| a. | Selling Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| 2. Ship Owner | | | | | | | | |
| a. | Purchase Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| b. | Marketing Margin | 10.000 | 15.000 | 10.000 | 5.000 | 5.000 | 5.000 | 2.000 |
| c. | Cost | 5.010 | 7.500 | 5.000 | 2.250 | 2.250 | 2.250 | 1.150 |
| | Profit | 4.990 | 7.500 | 5.000 | 2.750 | 2.750 | 2.750 | 850 |
| E | Selling Price | 50.000 | 35.000 | 40.000 | 18.000 | 18.000 | 23.000 | 20.000 |
| 3. Wholesaler | | | | | | | | |
| a. | Purchase Price | 50.000 | 35.000 | 40.000 | 18.000 | 18.000 | 23.000 | 20.000 |
| b. | Marketing Margin | 10.000 | 15.000 | 5.000 | 2.000 | 2.000 | 2.000 | 5.000 |
| c. | Cost | 3.010 | 4.000 | 3.000 | 700 | 700 | 700 | 1.550 |
| | Profit | 6.990 | 11.000 | 2.000 | 1.300 | 1.300 | 1.300 | 3.450 |
| E | Selling Price | 60.000 | 55.000 | 45.000 | 20.000 | 20.000 | 25.000 | 25.000 |
| 4. Retailers | | | | | | | | |
| a. | Purchase Price | 60.000 | 55.000 | 45.000 | 20.000 | 20.000 | 25.000 | 25.000 |
| b. | Marketing Margin | 10.000 | 10.000 | 15.000 | 5.000 | 5.000 | 3.000 | 3.000 |
| c. | Cost | 4.010 | 4.000 | 4000 | 850 | 850 | 850 | 2.150 |
| | Profit | 5.990 | 6.000 | 11.000 | 4.150 | 4.150 | 4.150 | 750 |
| E | Selling Price | 70.000 | 65.000 | 60.000 | 25.000 | 25.000 | 28.000 | 28.000 |

* Primary data 2022

In Channel II, the main catch of the highest cost is in the marketing agency is ship owners, which ranges from IDR. 1,150-IDR. 7,500,- per kilogram followed by retailers, which is IDR. 850-IDR. 4010 per kilogram and the lowest cost is in collector 2, which is between IDR. 700-IDR.4000, this is because collector 2 only pays for transportation. The biggest profit is the retailer's, which is in the range of IDR. 750-11,000 per kilogram, although the lowest marketing costs are with the wholesaler, the biggest profit is still in the hands of the retailer because it is the last institution that directly deals with

consumers so that they can determine the most profitable price, besides that marketing channel II is usually used if the catch obtained by fishermen is small so that marketing agencies can increase the selling price of fish. The next profit is for wholesaler which is in the range of IDR.700-IDR.11.000- per kilogram and the lowest profit is the ship owner, which is in the range of IDR.850-IDR.7,500 per kilogram. The marketing margin in marketing channel II is at the retailer's marketing agency, which ranges from IDR.3000-IDR. 15,000 per kilogram followed by ship owners and wholesaler

with marketing margins ranging from IDR.2000-IDR.15,000 per kilogram.

Tabel 4. Margins, Marketing Costs, and Profits Marketing Channel II (by catch)

| No | Description | By Catch | | | | | | |
|----------------------|------------------|-----------------------|----------|---------|--------|--------|---------------|---------------|
| | | Fish Species (IDR/kg) | | | | | | |
| | | Mackerel | Stingray | Kembung | Semar | Balida | Layur | Squid |
| 1. Fisherman | | | | | | | | |
| a. | Selling Price | 18.000 | 6.000 | 30.000 | 28.000 | 10.000 | 55.000-60.000 | 28.000-30.000 |
| 2. Ship Owner | | | | | | | | |
| a. | Purchase Price | 18.000 | 6.000 | 30.000 | 28.000 | 10.000 | 55.000-60.000 | 28.000-30.000 |
| b. | Marketing Margin | 5.000 | 2.000 | 5.000 | 4.000 | 8.000 | 10.000-20.000 | 2.000 |
| c. | Cost | 2.250 | 1.050 | 3.000 | 1.300 | 4.000 | 6.300 | 1.200 |
| d. | Profit | 2.750 | 950 | 2.000 | 2.700 | 4.000 | 3.700-13.700 | 800 |
| E | Selling Price | 23.000 | 8.000 | 35.000 | 32.000 | 18.000 | 70.000-75.000 | 30.000 |
| 3. Wholesaler | | | | | | | | |
| a. | Purchase Price | 23.000 | 8.000 | 35.000 | 32.000 | 18.000 | 70.000-75.000 | 30.000 |
| b. | Marketing Margin | 2.000 | 1.000 | 2.000 | 2.000 | 2.000 | 2000-7.000 | 3.000 |
| c. | Cost | 1.000 | 350 | 1.800 | 900 | 2.000 | 4.500 | 900 |
| d. | Profit | 1.000 | 650 | 200 | 1.100 | - | 2.500 | 2.100 |
| E | Selling Price | 25.000 | 9.000 | 37.000 | 34.000 | 20.000 | 77.000 | 33.000 |
| 4. Retailers | | | | | | | | |
| a. | Purchase Price | 25.000 | 9.000 | 37.000 | 34.000 | 20.000 | 77.000 | 33.000 |
| b. | Marketing Margin | 2.000 | 6.000 | 3.000 | 1.500 | 5.000 | 8.000 | 2.000 |
| c. | Cost | 1.650 | 800 | 2.400 | 1.100 | 3.000 | 5.400 | 1.150 |
| d. | Profit | 350 | 5.200 | 600 | 400 | 2.000 | 2.600 | 850 |
| E | Selling Price | 28.000 | 15.000 | 40.000 | 35.500 | 25.000 | 85.000 | 35.000 |

* Primary data 2022

In Channel II, with by catch costs incurred by ship owner, which ranges from IDR. 1,050-IDR. 6,300 per kilogram followed by institutions retailers in the range IDR 800-IDR5,400 per kilogram and the marketing agency with the lowest cost is wholesaler with ranges from IDR 350-IDR 4,500 per kilogram. The advantage of by catch in this channel is that the marketing agency for the first ship owner ranges from IDR.800-IDR.13,700 per kilogram. Layur

fish gets high profit because it is favored by the people of Palabuhanratu. Followed by retailer marketing agencies ranging from IDR.800-IDR.5,400 per kilogram and the lowest profit on this channel is owned by wholesaler which is in the range of 200-2,500 per kilogram. Furthermore, the highest marketing margin in this channel is owned by the marketing agency of the ship owner, ranging from IDR. IDR.1,000-IDR.7,000 per kilogram

Tabel.5 Margin, Marketing Cost, and Profit Marketing Channel III (Main Catch)

| Main catch | | | | | | | | |
|----------------------|------------------|-----------------------|----------------|---------------------|----------------|-------------------|----------------|----------------|
| No | Description | Fish Species (IDR/kg) | | | | | | |
| | | Mackerel | Kuwe | Marlin/ jangilus | Cengker | Talang- talang | Baby Tuna | Skipjack |
| 1. Fisherman | | | | | | | | |
| a. | Selling Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| 2. Ship Owner | | | | | | | | |
| a. | Purchase Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| b. | Marketing Margin | - | - | - | - | - | - | - |
| c. | Cost Profit | - | - | - | - | - | - | - |
| E | Selling Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| 3. Agent | | | | | | | | |
| a. | Purchase Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| b. | Marketing Margin | 13.000 | 10.000 | 10.000 | 5.000 | 5.000 | 5.000 | 5.000 |
| c. | Cost Profit | 7.000 6.000 | 7.000 3.000 | 7.000 3.000 | 3.500 1.500 | 3.000 2.000 | 3.000 2.000 | 3.000 2.000 |
| E | Selling Price | 53.000 | 45.000 | 40.000 | 18.000 | 18.000 | 23.000 | 23.000 |

* Primary data 2022

The first ship owner/collector will usually sell fish to agents if the fish are not sold in the market either by wholesaler or other retailers. So that the ship owner will sell the catch as low as possible to the agent and then the fish will be stockpiled and then stored in cold storage and will be released when the fish is not in season.

The costs incurred by agents ranged from IDR. 1,500-IDR. 7000 per kilogram with profits between IDR. 1,500-IDR. 6000 per kilogram and marketing margins ranging from IDR. 5000-IDR. 15,000 per kilogram. Profits range from 1,500-6000 and marketing margins range from 5,000-13,000.

Tabel 6. Margins, Marketing Costs, and Profits Marketing Channel IV (Main Catch)

| Main catch | | | | | | | | |
|--|------------------|-----------------------|----------------|---------------------|---------------|-------------------|----------------|----------------|
| No | Description | Fish Species (IDR/kg) | | | | | | |
| | | Mackerel | Kuwe | Marlin/ jangilus | Cengker | Talang- talang | Baby Tuna | Skipjack |
| 1. Fisherman | | | | | | | | |
| a. | Selling Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| 2. Ship Owner | | | | | | | | |
| a. | Purchase Price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| b. | Marketing Margin | 10.000 | 15.000 | 10.000 | 5.000 | 5.000 | 5.000 | 5.000 |
| c. | Cost Profit | 5.010 4.990 | 7.500 7.500 | 5.000 5.000 | 2250 2.750 | 2250 2.750 | 2.250 2.750 | 1.150 3.850 |
| E | Selling Price | 50.000 | 50.000 | 40.000 | 18.000 | 18.000 | 23.000 | 20.000 |
| 3. Restaurant/ another city | | | | | | | | |

| | | | | | | | | |
|----|------------------|--------|--------|--------|--------|--------|--------|--------|
| a. | Purchase Price | 50.000 | 50.000 | 40.000 | 18.000 | 18.000 | 23.000 | 20.000 |
| b. | Marketing Margin | 15.000 | 10.000 | 10.000 | 7.000 | 7.000 | 7.000 | 10.000 |
| c. | Cost | 7.500 | 6.500 | 6.500 | 4.500 | 4.500 | 4.500 | 5.000 |
| | Profit | 7.500 | 3.500 | 3.500 | 2.500 | 2.500 | 2.500 | 5.000 |
| E | Selling Price | 65.000 | 60.000 | 50.000 | 25.000 | 25.000 | 30.000 | 30.000 |

* Primary data 2022

The chain by channel IV is only through two marketing institutions, there are ship owners and restaurants/ other cities. The highest costs are in restaurant marketing agencies/other cities, which range from 1,500-7,500 because restaurants have to

pay for labor and rent. Furthermore, the profits obtained by marketing agencies for ship owners and restaurants are more or less the same, ranging from IDR. Ranged from IDR.7,000-IDR.15,000 per kilogram.

3.6 Marketing Efficiency

Marketing margin or marketing margin consists of costs to perform marketing functions, usually the functions used will be different so that the share margin obtained for each marketing institution involved will also be different.

Tabel 7. Marketing Margin and fisherman's share in Marketing Agencies

| Channel | Description | Type of catch (Rp/kg) | | | | | | |
|---------|------------------|-----------------------|--------|-----------------|---------|-----------------|-----------|----------|
| | | Mackerel | Kuwe | Marlin/jangilus | Cengker | Talang - talang | Baby Tuna | Skipjack |
| I | Selling price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| | Cost | 9.020 | 11.500 | 9.000 | 3.100 | 3.100 | 3.100 | 3.300 |
| | Profit | 10.480 | 8.500 | 6.000 | 3.900 | 3.900 | 3.900 | 3.700 |
| | Purchase Price | 60.000 | 55.000 | 45.000 | 20.000 | 20.000 | 25.000 | 25.000 |
| | Marketing Margin | 20.000 | 20.000 | 15.000 | 7.000 | 7.000 | 7.000 | 7.000 |
| | Share Margin | 66,67% | 63,63 | 66,67% | 65% | 65% | 72% | 72% |
| II | Selling price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| | Cost | 12.030 | 15.500 | 12.000 | 3.800 | 3.800 | 3.800 | 4850 |
| | Profit | 17.970 | 14.500 | 18.000 | 8.200 | 8.200 | 8.200 | 8.200 |
| | Purchase Price | 70.000 | 65.000 | 60.000 | 25.000 | 25.000 | 28.000 | 28.000 |
| | Marketing Margin | 30.000 | 30.000 | 30.000 | 12.000 | 12.000 | 10.000 | 10.000 |
| | Share Margin | 57% | 53,84% | 50% | 52% | 52% | 64,28% | 64,28% |
| III | Selling price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| | Cost | 7.000 | 7.000 | 7.000 | 3.500 | 3.000 | 3.000 | 3.000 |
| | Profit | 6.000 | 3.000 | 3.000 | 1.500 | 2.000 | 2.000 | 2.000 |
| | Purchase Price | 53.000 | 45.000 | 40.000 | 18.000 | 18.000 | 23.000 | 23.000 |
| | Marketing Margin | 7.000 | 10.000 | 10.000 | 5.000 | 5.000 | 5.000 | 5.000 |
| | Share Margin | 75,47% | 77,78% | 75% | 72,2% | 72,2% | 64,28% | 64,28% |
| IV | Selling price | 40.000 | 35.000 | 30.000 | 13.000 | 13.000 | 18.000 | 18.000 |
| | Cost | 12.010 | 14.000 | 11.500 | 6.750 | 6.750 | 6.750 | 6150 |
| | Profit | 12.990 | 11.000 | 8.500 | 5.250 | 5.250 | 5.250 | 5.850 |
| | Purchase Price | 65.000 | 60.000 | 50.000 | 25.000 | 25.000 | 30.000 | 30.000 |
| | Marketing Margin | 25.000 | 25.000 | 20.000 | 12.000 | 12.000 | 12.000 | 12.000 |
| | Share Margin | 61,53% | 58,33% | 60% | 52% | 52% | 60% | 60% |

*Analysis data primer2022

Based on the analysis results presented Table 7 shows that the highest marketing

margin for marketing institutions passed by drift gillnet fishermen in Palabuhanratu

is channel type II because it is the channel with the longest marketing chain compared to other types of channels. This is in line with the expression (Sulistya 2014) which states that the longer the marketing channel (the more commercial institutions involved), the less efficient the marketing margin will be. Then followed by channel type 4, fish sold by culinary

entrepreneurs and entrepreneurs. Furthermore, to determine marketing efficiency, it can be seen from the margin and share received by fishermen (share margin). According to Mubyarto (2002) in Sudana (2019), marketing can be said to be efficient if the goods sold from producers can be delivered to consumers at the lowest possible prices. Based on the data analysis, The biggest cost is on channel II ranging from IDR 3.800- IDR 15.500 Followed by channel IV range from IDR 6.150- IDR 14.000 and the lowest is channel III range from IDR 3000- IDR 7.000. The highest profit is channel II range from IDR 8.200- IDR 17.970 and the lowest profit is channel III range from IDR 1.200- IDR 6.000. The marketing channel that has the smallest marketing margin and the largest share margin is channel type 3, with a margin value of between IDR. 10,000-IDR.5,000 with an average of IDR. 6,700,- and share margins ranging from 64.28% - 77.78% with an average of 71.6% followed by type 1 channels with marketing margins ranging from IDR.7,000-IDR.20,000 with an average of IDR.11,800, - and share margin ranging from 63.3% - 72% with an average of 67.28%. Thus, it can be concluded that the most efficient channel is a type 3 channel followed by a type 1 channel and the least efficient channel is a type 2 channel. The most efficient channel marketing channel that has the largest marketing margin and the smallest farmer share is the inefficient marketing channel. However, it should be underlined that the efficiency of the marketing channel is not only seen from the marketing margin and share margin, although the channel type 3 is the channel analyzed is the most efficient, but when viewed from the quality and

freshness of the fish channel type 1 is better fresh because it is sold on the same day. Same as catch day. While the type 3 channel sells fish that have been frozen and are usually released during certain seasons.

3.7 Marketing Strategy

The community must increase creativity in the field of fish processing to increase market opportunities. Another condition in the fishing community in Palabuhanratu that makes it difficult to increase the income of the fishermen themselves is the lack of capital owned by the ship owner or middleman. Most (90%) of Palabuhanratu PPN fishermen use middlemen, especially to obtain fishing capital (Lubis et al 2012). So that there is a need for government institutions that can fight for the interests of fishermen, especially in obtaining capital on light conditions. Fishermen continue to depend on ship owners and there are no fish auctions, the ship owners or the second marketing agency get more profit than fishermen. The local institution that regulates the operation of the auction must also be able to monitor and supervise individuals who ask for a retribution fee that is too large so that fishermen can sell their catch at auction without feeling aggrieved. It is hoped that this strategy will have an impact on increasing the prices received by fishermen and their families, to increase marketing efficiency and fishermen's income. In addition, Indonesia should begin implementing certification schemes such as in Europe to address market segmentation and support small-scale capture of the most influential fishery actors. This product certification is carried out to track and respect the work environment and workers' rights (Gómez and Maynou 2021). In addition, the use of online platforms needs to be done to expand the sales system that can tighten urban distancing and complete the provision of Fisheries to consumers with difficulty accessing fresh and frozen fish

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4. CONCLUSION

The conclusion that can be drawn from this research is There are 4 patterns of marketing channels traversed by drift gillnet fishermen at PPN Palabuhanratu including: (1) Fishermen – Ship owners/Gatherers – Retailers – Consumers; (2) Fishermen – Ship Owners/ Collectors – Collectors 2-Retailers – Consumers; (3) Fishermen – Ship Owners/Gatherers – Agents – Consumers; (4) Fisherman - Ship owner/Gatherer – Restaurant/entrepreneur outside the city. Based on marketing margin and share margin, the most efficient channel is channel type 3 followed by channel type 1.

REFERENCES

1. Arbi, M., Thirtawati, & Junaidi, Y. (2018). Channel Analysis And Marketing Efficiency Level Of Semi Organic Rice In Rambutan District, Banyuasin Regency. *Jsep*, Vol. 2, No. 1.
2. Aritonang, By (2018). Availability Of Production Of Catches Landed At The Fisheries Port Of Nusantara Palabuhanratu Sukabumi, West Java. 2018.
3. Gómez, S & Maynou, F. 2021. Alternative Seafood Marketing Sstems Foster Transformative Processes in Mediterranean Fisheries. *Marine Policy*. Vol.127
4. Januwiaata, K., Dunia, K., & Indriyani, L. (2014). Analysis Of Marketing Channels For Orange Farming In Kerta Village, Payangan District, Gianyar Regency In 2013. (4) 1.
5. Lubis, E. Pane, Ab, Muningsgar, R., Hamzah, A. 2012. Amount Of Loss To Fishermen In Marketing Of Catches: The Case Of The Palabuhanratu Nusantara Fishery Port. *Maspari Journal*. 4(2) 159-167
6. Muningsgar, R., Lubis, E., & Pane, Ab (2013). Marketing Of Catches And Pump Policy At Palabuhanratu Vat (Fish Marketing And Pump Policy At Palabuhanratu Fishing Port) By: 21(1), 107–118.
7. Rida, A. (2017). Analysis Of Factors Affecting Fishermen's Income In Idi Rayeuk District. *Ocean Journal Of Economics And Business*, 8(1), 646–652.
8. Setyawan, Ha, Wibowo, Ba, & Mudzakir, Ak (2021). Margin And Marketing Efficiency Level Of Mackerel (Scomberomorus Commerson) In Ppi Tanjungsari, Pemalang Regency. *Journal Of Fisheries And Marine Technology*, 11(1), 53–62.
9. Sudana Iw. 2019. Analysis Of Marketing Efficiency Of Fresh Anchovy Catches By Fishermen In Sanggalangit Village, Buleleng Regency. *Journal Of Economic Education*. 11(2): 637-648.
10. Sudiyono, Armand. 2002. *Agricultural Marketing*. Umm Press. Malang
11. Sulistya, Wa (2014). Analysis Of The Influence Of Price, Product Quality, Promotion, And Reference Groups On Android Mobile Purchase Decision Making. Thesis.