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ANALYSIS OF BUSINESS STRATEGY FOR PANGAS CATFISH (PANGASIUS SP.) FISHING USING FLOATING NET CAGES IN CONDITIONS OF BANJARMASIN CITY, INDONESIA

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ABSTRACT

Pangas catfish cultivators in floating net cages have constraint that is exists limitations place fish farming in the river. Data analysis aimed to answer the strategic objectives of pangas catfish rearing business development in floating net cages in the city of Banjarmasin, namely through enhancement of production quality, repair access, government support policy for guarding water quality and improvement of human resources.

KEY WORDS

Pangas catfish, floating net cages, strategy, Banjarmasin.

Waters commonly used for development of fisheries cultivation that include freshwater fishery like rivers, reservoirs, swamps, and lakes (Armanda, 2019). Pangas catfish is a freshwater fish with high economic value (Arthatiani et al., 2018) and several advantages for consumption (Siagian, 2010). Fisheries business in Banjarmasin City utilize existing potential, fish enlargement is done in the field yard, land empty, pool concrete, pool tarp as well as floating net cages with the type of fish being cultivated namely, pangas catfish, pangas catfish, carp, betok, cork and tilapia with total production in 2021 is 2,333,338 tons. Pangas catfish farming in floating net cages hold important role in fisheries development (Lake, 2019). Growing pangas catfish in floating net cages in the District of East Banjarmasin has a long local history thanks to the supportive climate conditions and stream river (DKP City of Banjarmasin, 2020). This study aimed to analyze business strategy for extending of pangas catfish production in the conditions of Banjarmasin City of South Kalimantan.

MATERIALS and METHODS OF RESEARCH

Study implemented floating net cages in Banjarmasin City, South Kalimantan. Taking of sample done with method sampling proportions, i.e. sample taken in a manner on purpose to pangas catfish cultivators and stakeholders, to the total amount of respondents is 27 people. SWOT analysis used to evaluate the strengths, weaknesses, opportunities and threats to the development strategy for pangas catfish farming in floating net cages.

RESULTS and DISCUSSION

The strategy analysis was carried out using the SWOT method. It shows that fair production can covers rapid growth, uniform size and quality of meat. Sufficient power sources can support operational effort and minimize associated costs. Good reputation among consumers can become strength important to operate business and influence decisions to make purchase and provide competitive superiority. System management covers planning, strict supervision and business finance.

According to Husni (2014) in framework maximizing powers it is important to increase quality production, maintenance access to production source and maintain good reputation among consumers, as well as support system management efforts. It is also important to monitor market trends and adapt to changes that occur in the industry of pangas catfish farming.

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Table 1 – Analysis of Internal Factors (Strengths and Weaknesses)

No	Strength / Strength	Weight	Weight Ratings Score		
1	Pangas catfish production from cage net floating own good quality	0.1 4 0.3		0.39	
2	Pangas catfish farming business has own access to source power sufficient nature	0.06	2 0.15		
3	Pangas catfish farming business in cages net floating own superiority technical	0.07	3 0.24		
4	Pangas catfish farming business in cages net floating own good reputation	0.07	7 3 0.25		
5	Pangas catfish farming business in cages net floating own strong partnership with suppliers and distributors	0.07	0.26		
6	Pangas catfish farming business in cages net floating own system effective management	0.07	3 0.25		
7	Pangas catfish farming business in cages net floating can done throughout season	0.07	4	0.25	
Tota	Strength	0.5		1.79	
No	Weaknesses / Weaknesses	Weight	Ratings	Score	
1	Pangas catfish farming business in cages net floating prone to change possible weather influence fish growth	0	2	0.1	
2	Limitations source Power financial limit ability business Cultivation of pangas catfish in cages net floating For develop	0.1	3	0.2	
3	Lack of Skills or knowledge in management business Cultivation of pangas catfish in cages net floating	0.07	3	0.24	
4	Cost high operational in guard water quality and fish health in cages	0.01	4	0.3	
5	Limitations in marketing and promotion of pangas catfish consumption	0.01	3	0.2	
6	Dependency only on one type of fish (pangas catfish)	0.01	4	0.3	
7	Limited infrastructure on - site support business	0.01	4	0.3	
Total Weaknesses				1.59	
Tota	Internal Factor Analysis Summary (IFAS)	1			
The	difference between total strengths - total weaknesses = 1.79 - 1.59 = 0.20 (element x)				

Source: Primary data, 2023.

SWOT strategy analysis consisting of external Factor Analysis Summary (EFAS) presented in Table 2:

Table 2 – Analysis of External Factors (Opportunities and Threats)

No	Opportunity / Opportunity	Weight	Ratings	Score
1	Market demand for pangas catfish Keep going increase	0.07	4	0.27
2	There is opportunity market expansion to area or a new country	0.07	3	0.23
3	ossibility cooperation with restaurant or local market For increase sale of pangas catfish 0.07 4			
4	Potency development products processed pangas catfish from results cage net floating	0.07	4	0.25
5	Support government or incentive programs For sector fishery	0.08	4	0.30
6	Development supporting technology efficiency and sustainability business	0.07	3	0.25
7	Enhancement awareness consumer will food healthy and sustainable	0.073	4	0.26
Total Chances		0.5		1.80
No	Threats	Weight	Ratings	Score
1	Competition with business cage net another floating that is getting increase	0.08	3	0.433
2	Change of regulation or government policy	0.07	4	0.534
3	Risk the quality of pangas catfish which is not fulfill standard or hope of consumer	0.07	4	0.535
4	Disturbance experience like plague fish disease or predatory attack	0.07	4	0.490
5	Fluctuation of material feed price or other factors	0.06	3	0.424
6	Change preference consumer to kind of fish or product fishery	0.07	3	0.478
7	Limitations market access as a result competition with product fishery import	0.07	3	0.481
	Total Threat	0.5		1.65
	Total External Factor Analysis Summary (EFAS)	1		
Differ	ence in total opportunities – total threats = 1.80 – 1.65 = 0.15 (v element)			

Source: Primary data, 2023.

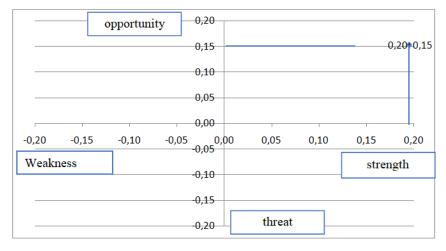


Figure 1 – SWOT Analysis Diagram

Finance availability, extreme weather, water quality and fish health have significant impact on pangas catfish business, so it is necessary to monitor and take proper actions to mitigation possible risks for production process (Syafruwardi, 2012).

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Table 3 – SWOT Matrix

	Internal	Strengths	Weaknesses
		Good pangas catfish production	Prone to change weather
		Access to sufficient nature source	source Power financial limited
		Good reputation among consumers	quality and fish health
External		Effective management system	Limited infrastructure
Opportunities		Strategy (S-O)	Strategy (W–O)
Market demand		Enhancement quality production	Procurement feed
cooperation with restaurant or market		Repair access	Enhancement processed
development products processed		Give support form policy	Government support
Government support		Enhancement resource	Research natural resource conditions
Threats		Strategy (S–T)	Strategy (W–T)
Business competition		Regulation in stakeholders policy	Repair cultivation
Change of regulation or policy		Guard river water quality	Increase human resources
Risk of pangas catfish quality		Increase results processed	Fix finance
Change consumer preferences		Enhancement resource man	Fix policy

Source: Primary data, 2023.

Enhancement of quality production can be done through a number of steps, i.e. through usage of quality pangas catfish seeds and balanced feed management. It is also important to control diseases and use appropriate treatment to environment problems.

Supportive government policies for pangas catfish production are important for developing of existing technology and innovations.

CONCLUSION

Development of business strategy for pangas catfish production can be done through enhancement of production quality, repair access, government support policy for guarding water quality and improvement of human resources.

REFERENCES

- 1. Adrianto, 2014. Introduction Knowledge Agriculture: Agriculture, Agribusiness, Agroindustry, and Agrotechnology. Global Color Library: Yogyakarta.
- 2. Armanda Salaha, Dian 2019. Analysis Influence Addition Bentonite and NaCl Salt for reduce Resistance Grounding with Variation Depth Electrodes and Variations concentration. Diponegoro University. Semarang.
- 3. Arthatiani, FY, Kusnadi, N., & Harianto, H. (2018). Analysis pattern consumption and fish demand models according to characteristics House Indonesian stairs. Journal Socio-Economy of Maritime Affairs and Fisheries, 13(1), 73-86.
- 4. Deby, R., Hendrik, H., & Nugroho, F. (2018). Cultivation Business Analysis Enlargement of Pangas catfish (Pangasius sutchi) in a pond in Sungai Lipai Village Subdistrict Mountain Sahilan Kampar Regency, Riau Province: 21375-41419-1.
- 5. Defense Service Food, Agriculture and Banjarmasin Fisheries, Banjarmasin, 2020.
- 6. Husni, A., K. Hidayah, Maskan. 2014. Analysis Financial farming Chilli Rawit (Capsicum frutescens) in the Village Purwajaya Loa Janan district. ARIFOR Journal. 13 (1): 49-52.
- 7. Johnson, A., & Williams, B. (2019). Consumer Preferences and the Future of Fish Consumption. In R. Thompson, Advances in Aquaculture Management (pp. 87-104).
- 8. Tilapia (Oreochromis niloticus) Aquaculture Development Strategy in floating net cages Lake Galela North Halmahera Regency, North Maluku Province.
- 9. Siagian, M. (2010). Development Strategy Cage Net Float Sustain. in the Koto Panjang Hydroelectric Reservoir, Kampar Riau. J. Fisheries and Maritime Affairs, 15(2), 145-160.
- 10. Syafruwardi, A., H. Fajeri and Hamdani. 2012. Analysis Financial farming Paddy variety Excellence in the Village Guntung Ujung District Peat Banjar Regency, South Kalimantan. Journal Agribusiness. 2 (3): 181-192.
- 11. Triyanti, R. and Wisdom. 2015. "Analysis Cultivation Business Feasibility Shrimp and Milkfish: Study District Cases Pasakan Regency Indramayu". Bulletin Scientific "MARINA" Socio- Economics of Maritime Affairs and Fisheries Vol.1 No. 1 of 2015: 1-10.
- 12. Yuliartati, E. 2011. Attack Level Ectoparasites in Pangas catfish (Pangasius djambal) in several Fish Farmers in Makassar City [Thesis]. Hassanuddin University. Macassar.