



VIRTUAL REGIONAL WORKSHOP ON BIVALVE MOLLUSCS SANITATION

9, 10, 11 December 2020

Indonesia

Ministry of Marine Affairs and Fisheries Helwijaya Marpaung

Indonesia Fisheries Potential

Facts and Figures

Note: * Preliminary figure

** Preliminary figure: including seaweed production

Source: MMAF











Production of Bivalve Molluscs



- Species produced:
 - Baby Clam (*Meretrix meretrix*)
 - Green Mussel (*Perna viridis*)
 - Bamboo clam (*Ensis leei*)
 - Corbicula Javanica Mousson
- Cockles (Anadara granosa and Anadara antiquata)
- Hiatula chinensis
- Scallops

• The second biggest marine cultured commodity after seaweed



Marine culture locations: concentrated in Sumatera and Java islands





Market of Bivalve Molluscs

- Majority of the production are for domestic consumption
- Bivalve molluscs export: approximately 27.66% of the total production



Source: BPS-Statistics Indonesia 2020, processed by MMAF

• Main export destinations: Malaysia, Thailand, United States, etc.

Competent Authority on Bivalve Molluscs Monitoring

- Competent Authority: Fish Quarantine and Inspection Agency, Ministry of Marine Affairs and Fisheries (FQIA)
- Implementing Agency: Technical Implementing Units under FQIA
- Monitoring activity:
 - 1. Bivalve molluscs
 - a. Microbiology: E. coli and Salmonella
 - b. Heavy metals: Hg, Pb, Cd
 - c. Marine biotoxin: Ciguatoxin, Azapiracid, Diarrhetic Shellfish Poisoning (DSP), Paralytic Shellfish Poisoning (PSP) and Amnesic Shellfish Poisoning (ASP)
 - 2. Water quality: temperature, salinity, pH, alkalinity, nitrates, sulfites, phosphates and plankton

Official Laboratories

No	Province	Name of Laboratories	Laboratory Testing		
			Microbiology	Chemistry	Organoleptic
1	North Sumatera	BKIPM Medan I	V	V	-
		BKIPM Medan II	V	V	Vi
		BKIPM Tanjung Balai Asahan	V		All and a
2	DKI Jakarta	BKIPM Jakarta I	V	٧	111-20
		Buski PM Jakarta Timur (lab reference)	V	V	V
3	Banten	BKIPM Merak	V		1 1 1 man
		LP2IL Serang	V	V	1 1 Brownia
4	Central Java	BKIPM Semarang	V	V	V
5	East Java	BKIPM Surabaya II	V	V	
6	North Kalimantan	BKIPM Tarakan	V	-	
		BKIPM Nunukan	V	-	

Source: MMAF, 2020

Food Poisoning Cases

- **Consumption of Shellfish** *Meretrix meretrix* was also reported to causing death in Makassar, South Sulawesi Province (1987) and Sebatik Islands, East Kalimantan Province (1988)
- Death after consumption of 'bia manis' (*Hiatula chinensis*) was reported in Ambon Province (July 1994). Sample taken shows availability of *Pyrodinium bahamense* var. compressum (Pbc)
- **30 people hospitalized** after consuming clams and fish in Teluk Lasongko, Bau-Bau Sulawesi (June September 2010), and another case in Teluk Lampung (July 2010)
- **32 people hospitalized** after consuming green mussels in Cirebon (December 2016) due to paralytic shellfish poisoning (PSP), and plankton found were *Pyrodinium bahamense*, *Pseudinitzschia sp* and *Prorocentrum*

