



### 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	Nome of Laboratorias	Laboratory Testing		
		Name of Laboratories	Microbiology	Chemistry	Organoleptic
1	North Sumatera	BKIPM Medan I	V	V	-
		BKIPM Medan II	V	V	V
		BKIPM Tanjung Balai Asahan	V	1	18
2	DKI Jakarta	BKIPM Jakarta I	V	٧	Sin Al
		Buski PM Jakarta Timur (lab reference)	V	V	V
3	Banten	BKIPM Merak	V		in the second
		LP2IL Serang	V	V	1 Starmed
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	-	1-2-3

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*

