

Annex 4/3: Country Report of Malaysia



By Mr. Jamil B. Musel



An Introduction To Malaysian Fisheries Industries (Identification Of Marine Fish)

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" Perikanan Produktif Menjana Transformasi "



Contents

- ✓ Roles of fisheries sector
- ✓ Fisheries Profile
- ✓ Marine capture fisheries
 - fishing vessels
 - fishing gears
- ✓ Aquaculture
 - culture systems

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Jabatan Perikanan Malaysia

Contents

- ✓ Legal framework
- ✓ Objective, Vision, Mission and Functions
- ✓ Organization Chart of Department of Fisheries
- ✓ Production Target
- ✓ Development Potential
- ✓ Strategy To Achieve Targets
- ✓ Action Plan To Implement Strategy



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Jabatan Perikanan Malaysia

MALAYSIA : BY STATE

The map displays the geographical layout of Malaysia, divided into its constituent states and federal territories. The states are color-coded: Perlis (red), Kedah (orange), Penang (green), Perak (pink), Selangor (light green), Negeri Sembilan (yellow), Melaka (light blue), Johor (cyan), Pahang (yellow), Kelantan (red), Terengganu (green), and Sabah (purple). Federal territories are also shown: Putrajaya (green), Kuala Lumpur (orange), and Labuan (red). Neighboring countries are labeled: Thailand to the north, Indonesia to the south and east, and Brunei to the east. The South China Sea is labeled to the east of the Malay Peninsula. The Straits of Malacca are labeled to the west of the Malay Peninsula. The map also shows the island of Sumatra to the southwest and Borneo to the east.

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MALAYSIAN COASTLINE

Total length is approximately 4,800 km with:

Peninsular Malaysia	-	1,963 km
Sabah	-	1,802 km
Sarawak	-	1,035 km

The coastal area of Malaysia is important in:

- supply of food & supporting the livelihood of people
- economic development
- revenue generation
- provision of general social & recreational benefits

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FISHERIES SECTOR

significant role in the
development of the national economy

FOUR FUNDAMENTAL ROLES:

Contribution To
Gross Domestic Product
Source Of Foreign Exchange,
Animal Protein (Fish As Food)
And
Employment To Rural Population

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DOF at a Glance

- Established in 1894.
- Responsible to develop & manage the fisheries sector in accordance with the Fisheries Act 1963

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MARINE CAPTURED FISHERIES


89,453 FISHERMEN

- 41,443 TRAWLERS AND PURSE SEINERS
- 48,010 TRADITIONAL FISHING VESSELS

28,154 FOREIGN CREWS


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MARINE CAPTURED FISHERIES

Licensed fishing vessels: 35,458 units
Deep sea: 813 units



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FISHING APPLIANCE



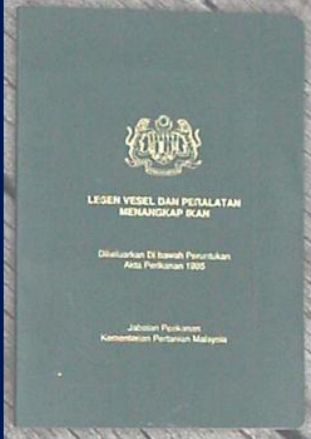

❖ COMMERCIAL

❖ TRADITIONAL



* Perikanan Produktif





* Perikanan Produktif Menjana Transformasi *



COMMERCIAL APPLIANCE

- ❖ TRAWL NETS
- ❖ PURSE-SEINE NETS
- ❖ TRADITIONAL APPLIANCE OPERATED USING VESSELS 40 GRT AND ABOVE



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TRADITIONAL APPLIANCE


- (a) trap
- (b) hook-and-line
- (c) drift net or gill net
- (d) seine net
- (e) hand lift net
- (f) bag net or stow net
- (g) barrier net



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BANNED APPLIANCE

- PUSH NET
(USING MOTORISED VESSEL)
- PAIR TRAWL
- EXPLOSIVES
- APPARATUS
USING ELECTRIC CURRENT
- GILL NET WITH MESH
SIZE OF 10 INCHES




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(Note: The slide also features a vertical filmstrip on the left side with small images of various fish species.)

MALAYSIAN FISHING VESSELS



(Note: The slide also features a vertical filmstrip on the left side with small images of various fish species.)

 **FISHING ZONES** ➤ The four fishing zones are :

Zones	Area	Classification
A	From shore up to 5 nm	Reserved solely for small-scale fishermen using traditional fishing gear and owner-operated vessels
B	5 – 12 nm	Reserved for owner-operated commercial fishing vessels of less than 40 GT using trawl nets and purse seine nets. There is no restriction for zone B operators to operate in C Zone and C2 Zones as well as B Zone.
C	12 – 30 nm	Commercial fishing vessels of more than 40 GRT using trawl nets and purse seine nets are allowed to operate. C Zone operators are allowed to operate in C Zone & C2 Zone, but not otherwise. Eg. C2 vessels can only operate in C2 Zone (not allowed to enter C Zone and B Zone).
C2	30 – EEZ limit or 200 nm	Beyond 30 nm where deep sea fishing vessels of 70 GRT and above are allowed to operate.

PERIKANAN PRODUKSI MENJANA TRANSFORMASI









The cover of a report or document. The background is a dark blue gradient. In the top left corner, there is a logo for 'Jabatan Perikanan Malaysia' (Malaysian Fisheries Department) with a stylized fish icon. Along the left edge, there is a vertical filmstrip containing several small images related to fishing and aquaculture. The main title 'LEGAL FRAMEWORK' is centered in large, bold, yellow capital letters. At the bottom, there is a white horizontal bar with the text 'Perikanan Produktif Menjana Transformasi' in a smaller font.



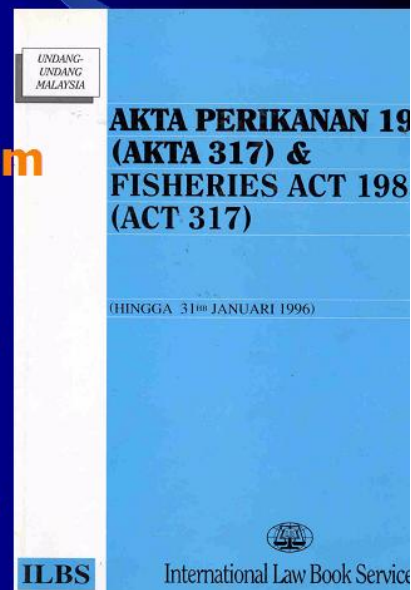
Management, development, conservation and control marine fishing and marine fisheries resources

Fisheries Act 1985 and regulations made thereunder

Fisheries (Marine Culture System Regulations) 1990

Fisheries Maritime Regulations 1967

Fisheries Maritime Regulations (Sarawak) 1976



Fisheries Regulations:

- ❖ **The Fisheries Regulations 1964**
- ❖ **Establishment of Marine Parks & Marine Reserves Order 1994**
- ❖ **Fisheries (Conservation & Culture of Cockles) Regulations 2002**
- ❖ **Fisheries (Prohibition of Methods of Fishing) Regulations 1980**
- ❖ **Fisheries (Licensing of Local Fishing Vessels) Regulations 1985**

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Fisheries Regulations:

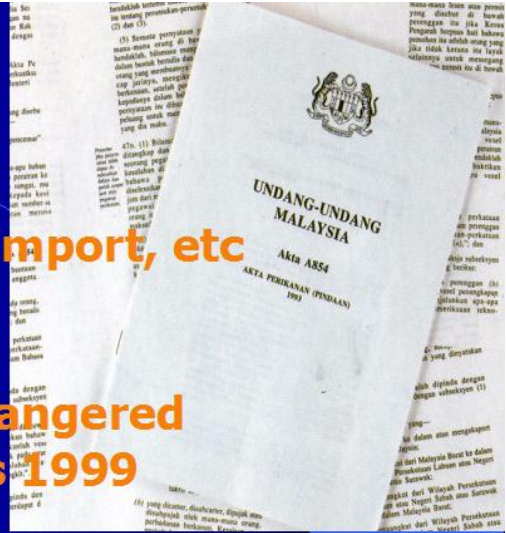
- ❖ **Fisheries (Close Season For the Catching of Grouper Fries) Regulations 1996**
- ❖ **Fisheries (Prohibited Fishing Methods For The Catching Of Grouper Fries) Regulations 1996**
- ❖ **Fisheries (Prohibited Areas) Rantau Abang Regulations 1991**
- ❖ **Fisheries (Prohibited Areas) Regulations 1994**

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Fisheries Regulations:

❖ Fisheries (Prohibition of Import, etc of fish) Regulations 1990

❖ Fisheries (Control of Endangered Species of Fish) Regulations 1999



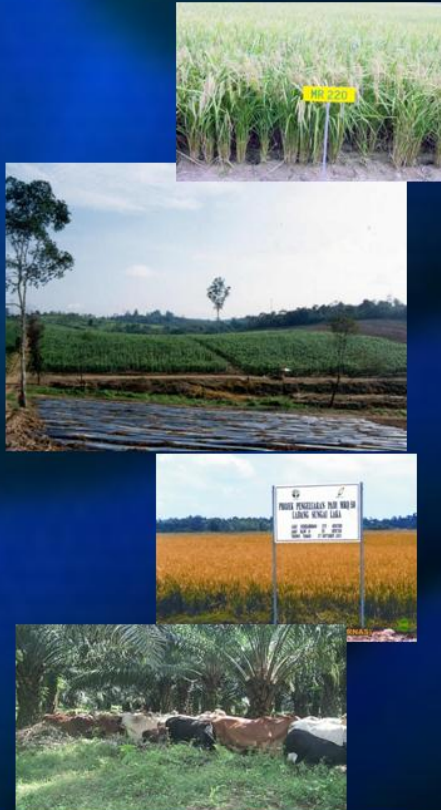
OBJECTIVE, VISION, MISSION AND FUNCTIONS OF DEPARTMENT OF FISHERIES MALAYSIA

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BACKGROUND

**National Agricultural Policy 1
NAP 1 (1984 -1991)**

**National Agricultural Policy 2
NAP 2 (1992-1998)**



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**THIRD NATIONAL AGRICULTURE POLICY
(NAP 3) 1998 - 2010**



enjana Transformasi"




Objective NAP3 :

Maximise income through optimum utilization resources.

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This slide features a central text bubble with a red-to-purple gradient background containing the objective. Surrounding the bubble are several images: a blue box with the title, a filmstrip on the left with various fish-related scenes, a top-right image of a large school of blue fish, a middle-right image of a fish processing facility with workers, and a bottom-left image of a boat labeled 'KNF 7337'. A logo for 'Jabatan Perikanan Malaysia' is in the top-left corner.



SPECIFIC OBJECTIVE OF NAP3

- to enhance food security
- to increase productivity and competitiveness of the sector
- to deepen linkages with other sectors
- To create new sources of growth for the sector
- To conserve and utilise natural resources on a sustainable basis

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1. Sector as a “Third Engine of Growth”
2. National Agricultural Policy 3 (NAP 3)
3. Achieve Ministry’s Balance of Trade (BOT) target of making Malaysia a net exporter by 2010
4. Transform the agriculture sector into one which is :

- Modern
- Dynamic
- Competitive in the world market
- A prominent food producer

5.

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BOT PLAN

- **Surplus in BOT by 2010**
- **Increase production**
- **Increase productivity**
- **Competitive**
- **Enhance Marketing Efforts**



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ENHANCING FOOD SECURITY AND COMBATING INFLATION

- Rising food import bill**

1985	– RM 3.5 billion
1995	– RM 7.7 billion
1997	– RM 10.0 billion
1998	– RM 10.5 billion
1999	– RM 11.0 billion
2000	– RM 11.3 billion
2001	– RM 12.2 billion
2002	– RM 12.4 billion
2003	– RM 12.7 billion
2004	– RM 16.6 billion





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Fisheries Mission :

Manage and develop a sustainable, dynamic and viable national fisheries sector based on scientific information and quality services.






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Fisheries Vision :

To increase production and a national balance of fisheries trade towards a developed target group in the year 2020.





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Objectives



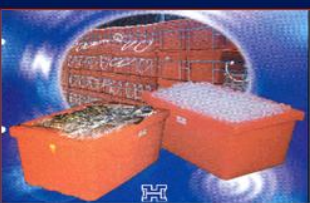
1. To meet the national fish production target of 2 million mt a year through marine deep sea captured fisheries (500,000 mt), aquaculture (600,000 mt) and maintaining the present production level of 900,000 mt from inshore fisheries
2. To achieve a balance of trade of RM3.78 billion a year from the 9 main commodities identified.

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3. To ensure a minimum net income of RM3,000.00 a month for fisheries entrepreneurs.
4. To ensure the level of income of the fishermen is above the poverty level (RM529).



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Functions of DoF :

1. Formulate policies and development strategies and manage the national fisheries resources
2. Enforce the Fisheries Act 1985.
3. Develop, manage and conserve aquaculture and inland fisheries activities.





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Functions of DoF :

4. Develop, manage and conserve marine fisheries resources on a sustainable basis.
5. To carry out fisheries research and development.
6. To train fisheries entrepreneurs.
7. To implement fisheries extension activities
8. Manage and monitor Marine Parks and Recreational Fisheries

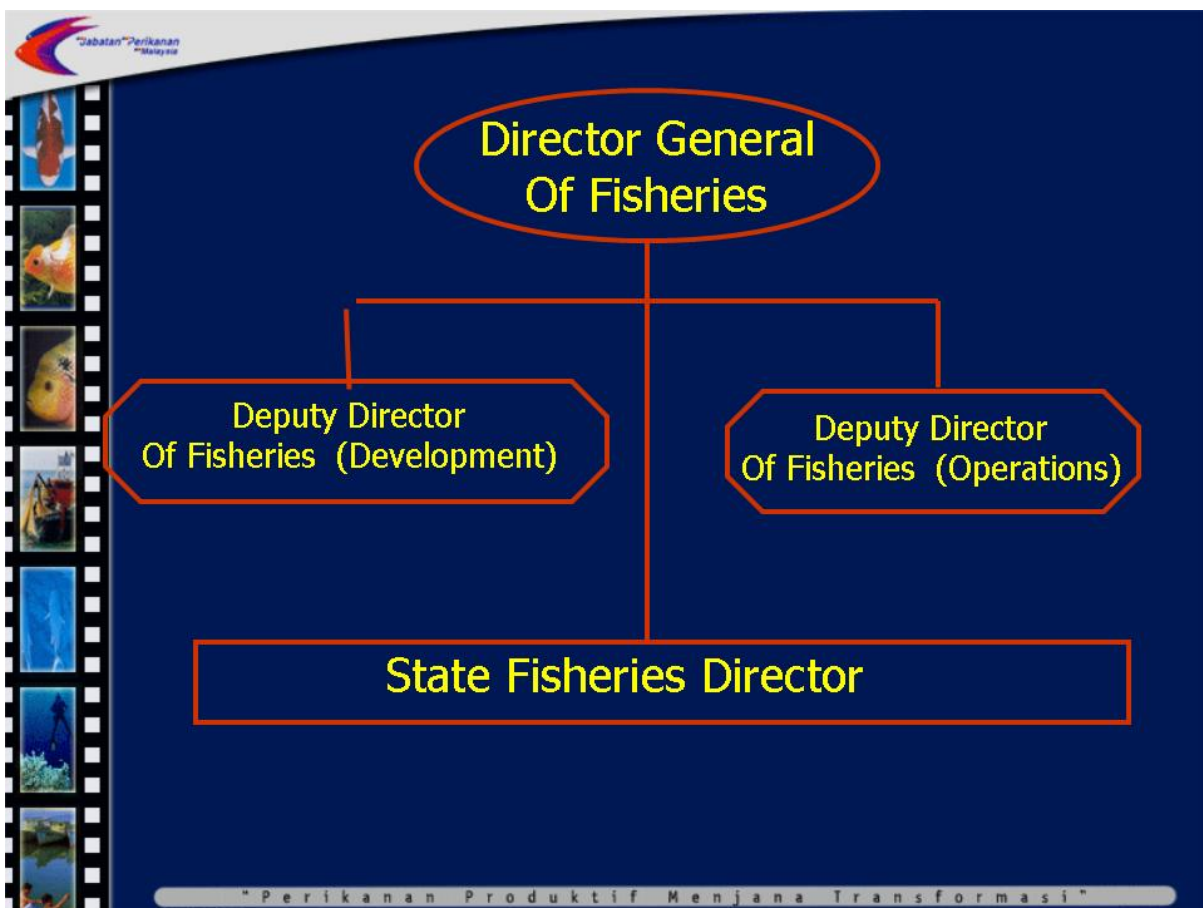
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Functions of DoF :

9. To Implement Fish Health Management and Quarantine
10. To Provide Fisheries Statistical Information
11. To establish standards and monitoring of fisheries product quality
12. Control the import, export and transportation of live fish
13. Monitor water quality of national fisheries water

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Deputy Director General (Development) :

- ❑ Aquaculture Development Division
- ❑ Engineering Division
- ❑ Licensing and Resource Management Division
- ❑ Planning, Development and International Division
- ❑ Fisheries Research Division

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Deputy Director General (Operations) :

- ❑ Finance and Administration Division
- ❑ Extension And Fish Quality Assurance Management Division
- ❑ Human Resource Development Division
- ❑ Resource Protection Division
- ❑ Fisheries Management Information Division

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Supply & Demand of Fish

Year	2000	2005	2010
Production (^000 mt)	1,511.0	1,708.8	1,933.3
Supply of Food Fish (^000 mt)	1,012.0	1,228.2	1,500.4
Perkapita Consumption(kg)	49.0	53.0	56.0
Demand of Food Fish (^000 mt)	1,142.0	1,369.5	1,591.0
Self Sufficiency (%)	89.0	89.7	94.3
Export Food Fish (^000 mt)	170.0	179.7	225.4
Import Food Fish (^000 mt)	300.0	321.0	316.0

Sumber : NAP3
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PRODUCTION TARGET & GROWTH

Commodity	Production 2010 (mt)	Growth Rate 9thMP (% yearly)
Capture Fisheries	1,400,000	1.1
Aquaculture	600,000	19.1
TOTAL	2,000,000	4.9
Aquarium Fish	800 mil tails	12.9
Seaweed	125,000	16.4
Processed Fish	876,400	2.61

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Production Projections 2006-2010

Commodity	Production ('000 mt)					Growth Rate
	2006	2007	2008	2009	2010	%
Capture F	1,340	1,355	1,370	1,385	1,400	1.1
Aquaculture	320	390	460	530	600	19.1
TOTAL	1,660	1,745	1,830	1,915	2,000	4.9
Aquarium Fish (mil tails)	508	581	653	728	800	12.9
Seaweed	40.1	46.7	54.3	63.2	123	16.4
Processed Fish	788.4	809.6	831.2	853.5	876.4	2.61

Nota : Angka dalam 'italic' adalah angka yang telah dikemukakan oleh jabatan kpd Bhg. PSA

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TARGETED FISHERIES PRODUCTION ACCORDING TO FISHERIES SUBSECTOR 1995-2010 ('000 MT)

Year	1995	2000	2005	2010
Aquaculture	132.7	191.0	403.2	601.4
Captured Fisheries	1,108.4	1,271.0	1,305.6	1,331.9
Total	1,241.1	1,462.0	1,708.8	1,933.3

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Identification Of Deep Sea Fishes



- Deep Sea Fisheries Resources Study will be conducted in March 2010 this year. However, early studies have been conducted to see the effectiveness "beamtrawl" used on October last year.



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Identification Of Deep Sea Fishes




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Retention Of Scientific Fish Collection



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Suggestion

- The aim of this training workshop will be succeed to enhance human resource capacity in deep-sea fish identification and to encourage our member country to initiate deep-sea resource exploration ensuring the accurate deep-sea fishes identification.

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Thank you

For more information, please contact :

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