



PERANGKAAAN TAHUNAN PERIKANAN 2012

ANNUAL FISHERIES STATISTICS

(Jilid 1/Volume 1)



Jabatan Perikanan
Malaysia

JABATAN PERIKANAN MALAYSIA
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KATA PENGANTAR

PREFACE

Buku Perangkaan Tahunan Perikanan Jilid 1 ini mengandungi beberapa seksyen yang merangkumi data dan maklumat penting mengenai industri perikanan Malaysia.

Data dan maklumat ini dikumpul untuk dianalisis dan diguna pakai bagi menggubal dasar dan strategik perancangan pembangunan industri perikanan negara.

Dengan adanya perancangan yang strategik, Jabatan Perikanan dapat mewujudkan industri perikanan yang berdaya saing dalam usaha meningkatkan pengeluaran ikan negara.

Jabatan Perikanan ingin merakamkan setinggi-tinggi penghargaan atas kerjasama semua pihak dalam menyediakan data yang diperlukan. Jabatan ini juga mengalu-alukan sebarang cadangan untuk memperbaiki mutu penerbitan Buku Perangkaan Tahunan Perikanan di masa akan datang.

Ketua Pengarah
Jabatan Perikanan Malaysia PUTRAJAYA



The Annual Fisheries Statistics Book [Volume 1] contains several sections covering data and information regarding the fishing industry in Malaysia.

The data and information collected will be analyzed and used to make policies and planning strategies for the development of the country's fishing industry.

With these strategic planning, the Department hopes that the fishing industry will be more competitive in their effort to increase the nation's fish supply.

The Department of Fisheries gratefully acknowledges the co-operation of all parties concerned in providing the required data. We welcome any comments and suggestions towards improving the quality of the Annual Fisheries Statistics book in the near future.

Director-General
Department of Fisheries Malaysia PUTRAJAYA

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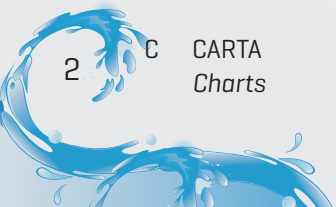
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KEDUDUKAN SEKTOR PERIKANAN DI MALAYSIA 2012

STATUS OF THE FISHERIES SECTOR IN MALAYSIA, 2012

1. PROFIL PERIKANAN

Pada tahun 2012, sektor perikanan telah menyumbang sebanyak RM11,440.31 juta kepada ekonomi negara iaitu meningkat sebanyak 13.61% berbanding tahun 2011. Sektor perikanan bagi tujuan makanan yang merangkumi perikanan tangkapan marin, perikanan darat dan akuakultur [tidak termasuk rumpai laut] telah menghasilkan pengeluaran ikan sebanyak 1,780,168 tan metrik bernilai RM10,597.60 juta, iaitu meningkat sebanyak 6.86% dan 12.98% masing-masing dari segi kuantiti dan nilai berbanding tahun 2011. Manakala sektor perikanan bukan makanan yang merangkumi rumpai laut, ikan hiasan dan tumbuhan akuatik telah menyumbang sebanyak RM842.71 juta, iaitu meningkat sebanyak 22.08% berbanding tahun 2011. Dalam tahun yang sama, sektor perikanan telah menyumbang sebanyak 1.1% atau RM7.822 bilion kepada KDNK negara.

Subsektor perikanan tangkapan marin yang merangkumi laut pantai dan laut dalam, masih menjadi penyumbang terbesar iaitu sebanyak 1,472,240 tan metrik [82.70%], bernilai RM7,981.66 juta [75.32%], iaitu meningkat sebanyak 7.22% dari segi kuantiti dan sebanyak 15.02% dari segi nilai berbanding tahun 2011.

Pendaratan ikan daripada perairan umum pula adalah sebanyak 5,042 tan metrik dengan nilai sebanyak RM56.78 juta.

1. FISHERIES PROFILE

In the year 2012, the fisheries sector had contributed RM11,440.31 million to the nation's economy, showing an increase of 13.61% compared to 2011. The Food fish sector which comprises of marine capture fisheries, inland fisheries and aquaculture [excluding seaweed] produced 1,780,168 tonnes worth RM10,597.60 million, signifying an increase of 6.86% and 12.98% respectively in terms of quantity and value compared to 2011. For the Non-Food fish sector, seaweeds, ornamental fish and aquatic plants contributed RM842.71 million, improving by 22.08% compared to 2011. Fish production from the fisheries sector contributed 1.1% or RM7.822 billion to the nation GDP in 2012

Marine capture fisheries sub-sector, which includes inshore and deep-sea fisheries, is still the major contributor producing 1,472,240 tonnes [82.70%], valued at RM7,981.66 million [75.32%]. This 2012 production indicate an increase of 7.22% in terms of quantity and 15.02% in value terms as compared to 2011.

Landings from inland water bodies were 5,042 tonnes valued at RM56.78 million.

Subsektor akuakultur [tidak termasuk rumput laut] telah menyumbang sebanyak 302,886 tan metrik [17.01%] bernilai RM2,559.17 juta [24.15%]. Berbanding tahun 2011, subsektor ini telah mencatatkan peningkatan sebanyak 5.51% dan 7.27% dari segi kuantiti dan nilai.

Bagi sektor perikanan bukan makanan, subsektor ikan hiasan merupakan penyumbang terbesar dengan nilai RM631.51 juta [74.94%], diikuti rumput laut sebanyak RM198.94 juta [23.61%] dan tumbuhan akuatik sebanyak RM12.26 juta [1.45%]. Nilai sumbangan daripada ikan hiasan dan rumput laut telah meningkat sebanyak 14.87% dan 66.16% manakala sumbangan daripada tumbuhan akuatik telah berkurangan sebanyak 41.11% berbanding tahun 2011.

Aquaculture sub-sector [excluding seaweed] in 2012 recorded an increase of 5.51% and 7.27% respectively in terms of quantity and value as compared to 2011. This sub-sector produce 302,886 tonnes [17.01%] of fish valued at RM2,559.17 million [24.15%].

In the Non-Food fish sector, ornamental fish sub sector is the major contributor with a value of RM631.51 million [74.94%], followed by seaweed at RM198.94 million [23.61%] and aquatic plants worth RM12.26 million [1.45%]. The value contributed from ornamental fish and seaweed registered an increase of 14.87% and 66.16% respectively while aquatic plants declined by 41.11% as compared to 2011.



Penggunaan per kapita Ikan Rakyat [kg/orang] / *Per capita consumptions of Folk's Fish [kg/person]*

Spesis Ikan <i>Fish species</i>	Pengeluaran ¹ <i>Production [MT]</i>	Penggunaan per kapita [kg/orang] ² <i>Per capita consumptions [kg/person]</i>
Pelaling / <i>Short Mackerel</i>	116,318	4.01
Selayang / <i>Round Scad</i>	102,790	3.54
Kembong / <i>Indian Mackerel</i>	70,873	2.44
Selar / Yellowtail / <i>Yellow-Striped Scad</i>	41,208	1.42
Cincaru / <i>Hardtail Scad</i>	22,869	0.79
Tilapia / <i>Tilapia</i> [Akuakultur]	52,295	1.80
Keli / <i>Freshwater Catfish</i> [Akuakultur]	46,523	1.60
Jumlah Ikan Rakyat / <i>Folk's fish</i>	452,135	15.60
Lain-Lain Ikan / <i>Other Fishes</i>	1,059,146	36.40
JUMLAH BESAR / <i>GRAND TOTAL</i>	1,511,281	52.00

¹ tidak termasuk Ikan Baja / *Excluding Trash fish*

² Anggaran penduduk Malaysia, 2012 [29 juta orang] / *Estimated Malaysia's 2012 Population*

Malaysia merupakan salah sebuah negara di dunia yang penduduknya memakan ikan melebihi 50kg setahun. Pada tahun 2012, pengambilan ikan oleh rakyat Malaysia ialah 52.0kg seorang setahun, di mana pengambilan ikan rakyat adalah sebanyak 30% atau 15.6 kg daripada penggunaan per kapita negara.

Pada tahun 2012, jumlah tenaga kerja yang direkodkan dalam sektor perikanan adalah seramai 166,008 orang yang merangkumi 136,514 orang nelayan yang bekerja di atas vesel berlesen dan 29,482 orang penternak ikan yang terlibat dalam pelbagai sistem akuakultur. Pada tahun yang sama, jumlah vesel penangkapan ikan yang berlesen adalah sebanyak 54,235 unit yang kebanyakannya mengusahakan peralatan menangkap ikan tradisional.

Malaysia is one of the few countries in world that consume more than 50kg of fish per person per year. In 2012, per capita consumption is 52.0kg of which the intake of Folk's fish is only 30% or 15.6 kg of the nation per capita consumption.

In 2012, the number of people working in the fisheries sector was 166,008 which comprises of 136,514 fishermen working on licensed fishing vessels and 29,482 fish culturists engaging in various aquaculture systems. A total of 54,235 units of fishing vessels were licensed in 2012 with the majority operating traditional fishing gears.

Pengeluaran dan Nilai Sektor Perikanan, Malaysia, 2012 / *Production and Value of Fisheries Sector, Malaysia, 2012*

Sektor Perikanan <i>Fisheries Sector</i>		2011		2012		Perubahan / <i>Changes</i>	
		Kuantiti (M.T) <i>Quantity (Tonnes)</i>	Nilai (RM Juta) <i>Value (RM Million)</i>	Kuantiti (M.T) <i>Quantity (Tonnes)</i>	Nilai (RM Juta) <i>Value (RM Million)</i>	Kuantiti <i>Quantity</i>	Nilai <i>Value</i>
Ikan Makanan <i>Food Fish</i>	Perikanan Tangkapan Marin <i>Marine Capture Fisheries</i>	1,373,105	6,939.47	1,472,240	7,981.66	+7.22	+15.02
	Laut Pantai <i>[Inshore]</i>	1,085,965	5,704.65	1,136,182	6,310.05	+4.62	+10.61
	Laut Dalam <i>[Deep Sea]</i>	287,140	1,234.82	336,057	1,671.61	+17.04	+35.37
	Akuakultur <i>[Aquaculture]</i>	287,057.41	2,385.64	302,886.32	2,559.17	+5.51	+7.27
	Air Tawar <i>[Freshwater]</i>	122,218.73	684.15	163,756.81	992.39	+33.99	+45.05
	Air Payau <i>[Brackishwater]</i>	164,838.68	1,701.49	139,129.51	1,566.78	-15.60	-7.92
	Perairan Umum <i>[Public Water Bodies]</i>	5,694.36	54.83	5,041.90	56.78	-11.46	+3.56
	Jumlah Ikan Makan <i>Total Food Fish</i>	1,665,856.77	9,379.94	1,780,168.22	10,597.60	+6.86	+12.98
Bukan Makanan <i>Non Food Fish</i>	Rumpai Laut <i>[Seaweed]</i>	239,450.00	119.73 [r]	331,490.06	198.94	+38.44	+66.16
	Ikan Hiasan <i>[Ornamental Fish]</i>	308,351,014*	549.75	376,679,177*	631.51	+22.16	+14.87
	Tumbuhan Akuatik <i>[Aquatic Plants]</i>	187,948,329**	20.82	114,453,668**	12.26	-39.10	-41.11
	Jumlah Bukan Makanan <i>Total Non Food Fish</i>	na	690.30	na	842.71	na	+22.08
	Jumlah Besar <i>[Grand Total]</i>	na	10,070.24	na	11,440.31	na	+13.61

* Kuantiti Dalam Ekor, *[Quantity in Pieces]*; ** Kuantiti Dalam Ikat *[Quantity in Bundles]*; [r] Dikemaskini *[Revised]*

2. PERIKANAN TANGKAPAN MARIN

2.1 Nelayan

Sejumlah 136,514 orang nelayan telah direkodkan bekerja di atas vesel penangkapan ikan yang berlesen pada tahun 2012 berbanding dengan 134,110 orang pada tahun 2011, iaitu meningkat sebanyak 1.79%.

Daripada jumlah ini, seramai 100,147 orang adalah nelayan tempatan manakala 36,367 orang adalah nelayan asing (bukan warganegara Malaysia) yang kebanyakannya adalah terdiri daripada warga Thailand, Vietnam dan Indonesia. Bilangan nelayan tempatan dan nelayan asing masing-masing telah meningkat sebanyak 2.05% dan 1.09% berbanding 98,135 dan 35,975 orang pada tahun 2011.

Dari jumlah nelayan tersebut, seramai 53,789 (39.40%) orang bekerja di atas vesel komersial iaitu menggunakan peralatan pukat tunda, pukat jerut ikan dan pukat jerut bilis, manakala selebihnya berjumlah 82,725 orang (60.60%) bekerja di atas vesel yang mengusahakan peralatan menangkap ikan tradisional.

2. MARINE CAPTURE FISHERIES

2.1 Fishermen

A total of 136,514 fishermen were recorded working on licensed fishing vessels in 2012, an increase of 1.79% compared to 134,110 fishermen in 2011.

Of this total, 100,147 were local fishermen and 36,367 foreign fishermen (non Malaysian citizens) mostly from Thailand, Vietnam and Indonesia. Both local and foreign fishermen showed a slight increase in numbers by 2.05% and 1.09% respectively as compared to 98,135 and 35,975 recorded in 2011.

53,789 (39.40%) of these fishermen worked on board commercial fishing vessels using trawl, fish purse seine and anchovy purse seine nets while the remaining 82,725 (60.60%) worked on board traditional fishing vessels.



2.2 Vesel Penangkapan Ikan

2.2 Fishing Vessels

Bilangan Vesel Mengikut Zon, 2011 dan 2012 / *Number of Vessels by Zone, 2011 and 2012*

Tahun <i>Year</i>	Laut Pantai / <i>Inshore</i>				Jumlah Kecil <i>Sub Total</i>	Laut Dalam <i>Deep-Sea</i>	Jumlah Kecil <i>Sub Total</i>	Jumlah Besar <i>Grand Total</i>
	Zon A / <i>Zone A</i> [<20GRT]	Zon B / <i>Zone B</i> [<40GRT]	Zon C / <i>Zone C</i> [40<70GRT]	Vesel Lain <i>Other Vessel</i>		Zon C2 / <i>Zone C2</i> [>70GRT]		
2011	44,210 [83.41%]	5,023 [9.48%]	1,837 [3.47%]	843 [1.59%]	51,913	1,089 [2.05%]	1,089	53,002
2012	45,512 [83.92%]	4,988 [9.20%]	1,857 [3.42%]	840 [1.55%]	53,197	1,038 [1.91%]	1,038	54,235

Bilangan vesel penangkapan ikan berlesen di Malaysia pada tahun 2012 telah meningkat sebanyak 2.33% kepada 54,235 buah berbanding 53,002 buah pada tahun 2011. Pertambahan sebanyak 1,302 unit lesen Sampan Khas adalah dibawah Program Pembasmian Kemiskinan yang dijalankan oleh Kerajaan.

Semenanjung Malaysia mencatatkan bilangan sebanyak 31,597 buah pada tahun 2012 iaitu 58.26% dari keseluruhan bilangan vesel. Pantai Barat mencatatkan sebanyak 22,217 buah, iaitu sebanyak 70.31% dari keseluruhan bilangan vesel Semenanjung Malaysia, manakala Pantai Timur mencatatkan 29.69% iaitu sebanyak 9,380 buah. Di Pantai Barat, Negeri Perak mencatatkan bilangan vesel yang paling banyak iaitu berjumlah 5,764 buah [25.94%], manakala di Pantai Timur pula, Negeri Terengganu mencatatkan bilangan vesel terbanyak iaitu 3,330 buah [35.50%].

The number of licensed fishing vessels in Malaysia showed a slight increase of 2.33% from 53,002 units in 2011 to 54,235 units in 2012. A total of 1,302 new 'sampan' licence were issued under the Special Poverty Eradication Programme undertaken by the Government.

Peninsular Malaysia has 31,597 units in 2012 which accounts for 58.26% of the total nation's fishing fleet. West Coast of Peninsular Malaysia have 22,217 units or 70.31% while the East Coast recorded 29.69% of the total vessels with 9,380 units. In the West Coast, the the state of Perak has the highest number of vessels with 5,764 units [25.94%] while the state of Terengganu recorded the highest for the East Coast with 3,330 units [35.50%].

Negeri Sabah, Sarawak dan Wilayah Persekutuan Labuan mencatatkan bilangan vesel sebanyak 22,638 buah iaitu merangkumi 41.74% daripada jumlah keseluruhan vesel di Malaysia di mana ia telah menunjukkan peningkatan sebanyak 5.16% berbanding tahun 2011 yang mencatatkan sebanyak 21,528 buah sahaja. Bilangan vesel yang tertinggi didapati di negeri Sabah sebanyak 15,706 buah.

Vesel penangkapan ikan laut dalam adalah vesel yang bermuatan 70 GRT dan ke atas, di mana kawasan operasinya adalah dari perairan 30 batu nautika dari pantai hingga ke sempadan perairan Zon Ekonomi Eksklusif negara. Bilangannya adalah kecil berbanding vesel penangkapan ikan laut pantai yang berjumlah 53,197 buah. Pada tahun 2012 sebanyak 1,038 buah vesel laut dalam telah dilesenkan iaitu menurun sebanyak 4.68% daripada 1,089 buah pada tahun 2011. Bilangan vesel laut dalam ini tidak termasuk vesel-vesel 70 GRT ke atas yang dilesenkan untuk vesel pukat jerut bilis, vesel masak bilis dan vesel pembawa ikan.

Bilangan vesel Zon A iaitu 45,512 buah, menjadi penyumbang tertinggi dari segi komposisi berbanding zon-zon lain iaitu 83.92% dan menunjukkan peningkatan sebanyak 2.95% berbanding 44,210 buah pada tahun 2011. Vesel tersebut termasuk 137 buah pukat jerut bilis dan tidak termasuk 840 buah vesel untuk Menunggu Peranti Pengumpul Ikan [MPPI], Sistem Kultur Laut [SKL], Pembawa Ikan dan Masak Bilis.

A total of 22,638 units of licensed fishing vessels were recorded in the states of Sabah, Sarawak and Wilayah Persekutuan Labuan or 41.74% of the total fishing fleet in Malaysia. The total indicate an increase of 5.16% compared to 21,528 units recorded in 2011 with the state of Sabah recording the highest number with 15,706 units.

Deep-sea fishing vessels are vessels with a Gross Registered Tonnage of 70GRT and above, and can only operate in waters beyond 30 nautical miles from the shore until the Exclusive Economic Zone boundary. Their numbers are small compared to 53,197 units of licensed inshore fishing vessels. In 2012, only 1,038 units are licensed, a slight reduction of 4.68% from 1,089 units in 2011. Deep-sea fishing vessels do not include licensed anchovy purse seiner, anchovy processing vessels and fish carrier.

In term of vessel composition, vessels in Zone A has the highest with 45,512 units [83.92%] compared to the other zones, an increase of 2.95% from 44,210 units in 2011. Zone A vessels include 137 units of anchovy purse seine but does not include vessels meant for Fish Aggregating Device, Fish Culture System, Fish Carrier and Anchovy Boiler/Carrier which accounted for 840 units.

2.3 Peralatan Menangkap Ikan

Pada tahun 2012, bilangan peralatan menangkap ikan yang berlesen meningkat 2.38% kepada 53,128 unit daripada 51,892 unit pada tahun 2011.

Faktor yang menyumbang kepada perbezaan bilangan vesel berlesen dan bilangan peralatan yang berlesen adalah kerana terdapat vesel berlesen yang tidak dilesenkan untuk mengusahakan sebarang peralatan menangkap ikan. Sebagai contoh, Vesel Menunggu Peranti Pengumpul Ikan [MPPI], Vesel Sistem Kultur Laut [SKL], Vesel Pembawa Ikan dan Vesel Masak Bilis yang berjumlah 840 buah. Pada masa yang sama, terdapat juga dua vesel dilesenkan untuk menggunakan satu lesen peralatan menangkap ikan sahaja iaitu kenka dua bot.

2.3 Fishing Gears

The number of fishing gear licences issued in 2012 have increased to 53,128 units from 51,892 units in 2011, an increase of 2.38%.

Two factors contributed to the difference in the number of licensed fishing vessels and licensed fishing gears. Firstly, some of the licensed vessels are not issued with fishing gear license. Examples of such vessels are vessels used for Fish Aggregating Device, Marine Culture System, Anchovy Boiler / Carrier and Fish Carrier which amounts to 840 units. Secondly, there is a specific gear that need two vessels to operate the fishing gear, namely the Two Boat Kenka.



2.4 Pendaratan Ikan Marin

Sumber perikanan di perairan Malaysia dibahagikan kepada dua, iaitu laut pantai dan laut dalam. Laut pantai merupakan perairan dari pantai sehingga 30 batu nautika manakala laut dalam pula adalah perairan melepasi 30 batu nautika dari pantai.

2.4 Marine Fish Landings

Fisheries resources in the Malaysian waters are divided into two [2] categories based on the area where the resources are exploited. The inshore waters are waters within the 30 nautical miles from the shore while the areas beyond 30 nautical miles are demarcated as deep-sea waters.

Sumbangan perikanan tangkapan kepada Makanan Ikan Negara, Tahun 2012 *Contribution of Capture Fishery to National Food Fish 2012*

Perikanan Tangkapan Marin <i>Marine Capture Fisheries</i>		Sumbangan Contribution [%]
Laut Pantai / <i>Inshore Fishery</i>		
Kuantiti / <i>Quantity</i> (Tan Metrik / <i>tonnes</i>)	:1,136,182	63.82
Nilai / <i>Value</i> (RM juta / <i>million</i>)	: 6,310.05	59.54
Laut Dalam / <i>Deep-sea Fishery</i>		
Kuantiti / <i>Quantity</i> (Tan Metrik / <i>tonnes</i>)	: 336,057	18.88
Nilai / <i>Value</i> (RM juta / <i>million</i>)	: 1,671.61	15.77

Pada tahun 2012, pendaratan ikan marin mencatatkan pendaratan sebanyak 1,472,240 tan metrik, meningkat 7.22% berbanding dengan 1,373,105 tan metrik pada tahun 2011.

Pendaratan dari laut pantai telah menyumbang sebanyak 63.82% dari segi kuantiti dan 59.54% dari segi nilai kepada makanan ikan negara. Manakala laut dalam pula telah menyumbang sebanyak 18.88% dari segi kuantiti dan 15.77% dari segi nilai.

In 2012, total marine landing has increased by 7.22% from 1,373,105 tonnes in 2011 to 1,472,240 tonnes.

Inshore fisheries contributed 63.82% and 59.54% in terms of quantity and value to the national food fish sector while deep-sea fisheries contributed only 18.88% and 15.77% respectively in terms of quantity and value.

Sumbangan pendaratan dari laut pantai telah meningkat sebanyak 4.62% dari 1,085,965 tan metrik pada tahun 2011 kepada 1,136,182 tan metrik pada tahun 2012. Manakala, pendaratan ikan dari laut dalam juga telah menunjukkan peningkatan sebanyak 17.04% dari 287,140 tan metrik pada 2011 kepada 336,057 tan metrik pada tahun 2012.

Pendaratan ikan marin merangkumi ikan pelagik sebanyak 38.22% iaitu 562,732 tan metrik, 22.02% atau 324,224 tan metrik ikan demersal dan 39.76% atau 585,284 tan metrik dari spesies moluska, krustasia dan lain-lain.

Pendaratan dan nilai ikan marin mengikut negeri untuk tahun 2012 adalah seperti di Jadual berikut.

The inshore landings recorded a slight increase by 4.62% from 1,085,965 tonnes in 2011 to 1,136,182 tonnes in 2012. Landings from the deep-sea fisheries sector also recorded an increase of 17.04% from 287,140 tonnes in 2011 to 336,057 tonnes in 2012.

Of the total marine landings, 38.22% or 562,732 tonnes are pelagic fish, 22.02% or 324,224 tonnes demersal fish while molluscs, crustacean and others contributed 39.76% or 585,284 tonnes.

The marine landings and values by state for the year 2012 is as in next Table.



Pendaratan dan Nilai Ikan Marin Mengikut Negeri Pada Tahun 2012 / *Marine Fish Landings and Values By State, 2012*

Negeri [State]	Laut Pantai [Inshore Fishery]		Laut Dalam [Deep-Sea Fishery]		Jumlah [Total]	
	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]
Pantai Barat [West Coast]						
Perlis	93,950	525.20	24,499	148.43	118,449	673.63
Kedah	92,075	646.52	7,120	47.03	99,195	693.55
Pulau Pinang	52,235	407.50	358	1.70	52,593	409.20
Perak	237,858	1,289.97	77,959	409.20	315,817	1,699.16
Selangor	120,632	450.68	151	0.72	120,783	451.39
N. Sembilan	573	6.64	-	-	573	6.64
Melaka [Malacca]	1,787	19.68	-	-	1,787	19.68
Johor Barat [West Johor]	33,067	261.29	-	-	33,067	261.29
Jumlah Kecil / Sub-Total	632,176	3,607.47	110,087	607.07	742,263	4,214.54
Pantai Timur [East Coast]						
Kelantan	26,297	120.88	50,160	214.63	76,458	335.51
Terengganu	67,650	471.60	13,076	61.18	80,726	532.77
Pahang	60,458	408.90	51,628	271.03	112,086	679.93
Johor Timur [East Johor]	60,094	258.16	31,682	163.08	91,777	421.25
Jumlah Kecil / Sub-Total	214,500	1,259.54	146,547	709.92	361,047	1,969.46
Semenanjung Malaysia	846,677	4,867.01	256,634	1,316.99	1,103,311	6,184.00
Sarawak	93,132	442.34	47,970	130.08	141,103	572.42
Sabah	171,672	784.42	6,391	16.94	178,063	801.36
W.P Labuan	24,701	216.28	25,062	207.61	49,763	423.88
Jumlah Kecil / Sub-Total	289,505	1,443.04	79,423	354.63	368,929	1,797.67
Malaysia	1,136,182	6,310.05	336,057	1,671.61	1,472,240	7,981.66

Pendaratan Ikan Baja, Malaysia 2008 – 2012

Landing Of Trash Fish, Malaysia, 2008 – 2012

Tahun Year	Tan Metrik Tonnes	Sumbangan Contribution [%]
2012	268,887	18.26
2011	261,669	19.06
2010	307,439	21.52
2009	285,376	20.48
2008	316,203	22.67

Pendaratan ikan baja telah menunjukkan purata penurunan sebanyak 3.54% dari tahun 2008 sehingga 2012. Walaupun pendaratan ikan baja pada tahun 2012 telah meningkat sebanyak 2.76% atau 268,887 tan metrik berbanding 261,669 tan metrik pada tahun 2011, namun peratus sumbangannya kepada jumlah keseluruhan pendaratan marin telah merosot daripada 19.06% kepada 18.26%.

Semenanjung Malaysia masih merupakan penyumbang terbesar pendaratan ikan di Malaysia. Pada tahun 2012, ia telah menyumbang sebanyak 1,103,311 tan metrik atau 74.9% daripada jumlah pendaratan ikan negara. Pantai Barat Semenanjung masih kekal sebagai penyumbang utama dengan pendaratan sebanyak 742,263 tan metrik [67.28%]. Negeri Perak dan Selangor merupakan penyumbang utama dengan jumlah pendaratan masing-masing sebanyak 315,817 tan metrik [42.55%] dan 120,783 tan metrik [16.27%]. Di Pantai Timur pula, negeri Pahang dan Johor Timur adalah penyumbang utama iaitu masing-masing sebanyak 112,086 tan metrik [31.04%] dan 91,777 tan metrik [25.42%].



Trash fish landing showed a steady decline of 3.54% from the year 2008 to 2012. In 2012, contribution from trash fish to total marine fish landed has decrease slightly to 18.26% from 19.06% even though the quantity landed recorded an increase of 2.76% from 261,669 tonnes in 2011 to 268,887 tonnes.

Peninsular Malaysia remains the biggest contributor of fish landings in Malaysia. In 2012, it contributes 1,103,311 tonnes or 74.9% of the total fish landed, of which the West Coast contributes a major portion with 742,263 tonnes [67.28%]. The state of Perak and Selangor were the two main contributors with 315,817 tonnes [42.55%] and 120,783 tonnes [16.27%] respectively for the West Coast. For the East Coast region, the states of Pahang and East Johor were the main provider with 112,086 tonnes [31.04%] and 91,777 tonnes [25.42%] respectively.

Di Semenanjung Malaysia, sumbangan terbesar pendaratan ikan marin berjumlah 549,799 tan metrik [49.83%] adalah dari vesel pukot tunda. Pendaratan ikan oleh vesel pukot jerut ikan dan jerut bilis pula adalah berjumlah 272,956 tan metrik [24.74%] dan selebihnya berjumlah 280,556 tan metrik [25.43%] didaratkan oleh vesel menangkap ikan tradisi.

Pendaratan oleh vesel pukot tunda di Pantai Barat Semenanjung Malaysia telah menunjukkan peningkatan sebanyak 3.13% iaitu dari 367,642 tan metrik pada tahun 2011 kepada 379,145 tan metrik pada tahun 2012. Di Pantai Timur pula, pendaratan oleh vesel tersebut juga menunjukkan peningkatan yang lebih ketara sebanyak 11.89 % iaitu dari 152,521 tan metrik pada tahun 2011 kepada 170,654 tan metrik pada tahun 2012. Negeri Kelantan mempamerkan peningkatan tertinggi iaitu 31.15% kepada 45,163 tan metrik berbanding 34,435 tan metrik pada tahun 2011.

Pendaratan vesel pukot jerut ikan juga meningkat sedikit sebanyak 0.33% di Pantai Barat Semenanjung Malaysia iaitu dari 143,262 tan metrik pada tahun 2011 kepada 143,732 tan metrik pada tahun 2012. Manakala peningkatan yang lebih besar sebanyak 7.36% telah direkodkan di Pantai Timur iaitu dari 110,565 tan metrik pada tahun 2011 kepada 118,698 tan metrik pada tahun 2012.

In Peninsular Malaysia, nearly half of the landings were from trawlers amounting to 549,799 tonnes [49.83%] followed by fish and anchovy purse seiners with 272,956 tonnes [24.74%] and 280,556 tonnes [25.43%] from traditional fishing gears.

Landing from trawlers in the West Coast shows a slight increase of 3.13% from 367,642 tonnes in 2011 to 379,145 tonnes in 2012. In the East Coast, trawlers landing registered a larger growth of 11.89% from 152,521 tonnes in 2011 to 170,654 tonnes in 2012, where the state of Kelantan recorded the highest increase of 31.15% from 34,435 tonnes in 2011 to 45,163 tonnes in 2012.

Landings from fish purse seiners recorded a minimal increase of 0.33% in the West Coast from 143,262 tonnes in 2011 to 143,732 tonnes in 2012. East Coast fish purse seiners recorded a bigger increase in their landings by 7.36% from 110,565 tonnes in 2011 to 118,698 tonnes in 2012.

Pendaratan Tuna, Malaysia, 2012 Tuna Landings, Malaysia, 2012

Pendaratan Tuna Tuna Landings		Sumbangan* Contribution %
Tuna Oceanik / <i>Oceanic Tuna</i>		
Kuantiti / <i>Quantity</i> [Tan Metrik / <i>tonnes</i>]	1,831	0.12
Nilai / <i>Value</i> [RM juta / <i>million</i>]	10.50	0.13
Tuna Neritik / <i>Neritic Tuna</i>		
Kuantiti / <i>Quantity</i> [Tan Metrik / <i>tonnes</i>]	64,362	4.37
Nilai / <i>Value</i> [RM juta / <i>million</i>]	390.39	4.89
Spesies Seakan Tuna / <i>Tuna-Like Species</i>		
Kuantiti / <i>Quantity</i> [Tan Metrik / <i>tonnes</i>]	203,131	13.80
Nilai / <i>Value</i> [RM juta / <i>million</i>]	1,375.64	17.24

*Daripada jumlah pendaratan marin / *from total marine fish landings*

Pada tahun 2012, sebanyak 1,831 tan metrik ikan tuna oceanik bernilai RM10.50 juta telah didaratkan. Spesies yang didaratkan adalah tuna Sirip Kuning, tuna Mata Besar dan Albakor. Negeri Sabah merupakan penyumbang utama dengan pendaratan sebanyak 1,757 tan metrik [95.96%]. Pada tahun 2012, pendaratan di Sabah telah menunjukkan peningkatan sebanyak 32.20% berbanding 1,329 tan metrik pada tahun 2011. Selain negeri Sabah, pendaratan ikan tuna oceanik juga direkodkan di negeri Pulau Pinang. Namun, jumlah pendaratannya telah merosot sebanyak 31.78% dari 107 tan metrik pada tahun 2011 kepada 73 tan metrik pada tahun 2012.



In the year 2012, 1,831 tonnes of oceanic tuna comprising of Yellow Fin, Big Eye and Albacore valued at RM10.50 million were landed. The state of Sabah remains the largest contributor with 1,757 tonnes or 95.96% of the total oceanic tuna landings in Malaysia. In 2012, Sabah oceanic tuna landings soared by 32.20% as compared to 1,329 tonnes in 2011. Landings of oceanic tuna was also recorded in the state of Penang but her landing registered a decline by 31.78% from 107 tonnes in 2011 to 73 tonnes in 2012.

Pendaratan spesies tuna neritik pada tahun 2012 adalah 64,362 tan metrik berbanding pada tahun 2011 sebanyak 58,210 tan metrik meningkat 10.57%. Spesies tuna neritik di Malaysia adalah Aya Hitam, Aya Kurik, Aya Selasih dan Aya Jalur. Sumbangan pendaratan tuna neritik kepada pendaratan ikan marin Malaysia adalah sebanyak 4.37%. Pendaratan spesies seakan tuna pula adalah 203,131 tan metrik. Spesies seakan tuna di Malaysia adalah todak, layaran, mersuji, tenggiri, kembong dan pelaling/temenong. Pendaratan spesies seakan tuna telah menyumbang sebanyak 13.80% kepada pendaratan ikan marin Malaysia.

Di Semenanjung Malaysia sahaja, 76.74% daripada pendaratan ikan adalah dari laut pantai. Jumlah ini telah meningkat sebanyak 3.78% dari 815,842 tan metrik pada tahun 2011 kepada 846,677 tan metrik pada tahun 2012. Sebahagian besarnya iaitu 65.79% disumbangkan oleh vesel-vesel penangkapan ikan komersial bermuatan ke bawah 70 GRT yang mengusahakan peralatan pukut tunda dan pukut jerut ikan. Pendaratan vesel-vesel ini telah meningkat sebanyak 2.23% daripada 544,839 tan metrik pada tahun 2011 kepada 557,007 tan metrik pada tahun 2012.

Selain itu, pendaratan ikan laut dalam di Semenanjung Malaysia telah meningkat sebanyak 10.48% dari 232,299 tan metrik pada tahun 2011 kepada 256,634 tan metrik pada tahun 2012. Jumlah ini adalah 76.37% dari pendaratan ikan laut dalam di Malaysia. Nilai pendaratan meningkat sebanyak 25.20% dari RM1,051.89 juta kepada RM1,316.99 juta pada tahun 2012. Sebahagian besar pendaratan ini iaitu 99.45% telah disumbangkan oleh vesel pukut tunda dan pukut jerut bermuatan 70 GRT dan ke atas.

Neritic tuna landing in 2012 registered a 10.57% increase amounting to 64,362 tonnes as compared to 58,210 tonnes in 2011, and it contributed 4.37% to the total marine landings. In Malaysia, neritic tuna includes Longtail, Kawakawa, Frigate and Skipjack Tuna. Meanwhile, landings from tuna-like, comprising species of Sword Fish, Sail Fish, Marlin, Spanish Mackerel And Indian/Short Mackerel, contributed 203,131 tonnes or 13.80% of the total marine landings in Malaysia.

In Peninsular Malaysia, 76.74% of the marine landings were contributed by inshore fisheries. Total landings have increased by 3.78% from 815,842 tonnes in 2011 to 846,677 tonnes in 2012. 65.79% of the landing was contributed by the commercial fishing vessels of sizes below 70 GRT operating trawl and fish purse seine gears. The landings from these fishing vessels recorded an increase of 2.23% from 544,839 tonnes in 2011 to 557,007 tonnes in 2012.

On the other hand, landings from deep-sea fisheries in Peninsular Malaysia registered a bigger increase of 10.48% from 232,299 tonnes in 2011 to 256,634 tonnes in 2012. This represent 76.37% of the total deep-sea fisheries landings in Malaysia. In term of value, landings from deepsea fisheries also recorded a larger increase of 25.20% from RM1,051.89 million in 2011 to RM1,316.99 million in 2012. 99.45% of the landings was contributed by trawlers and purse seine fishing vessels.

Bagi Sabah, Sarawak dan Wilayah Persekutuan Labuan pendaratan ikan laut pantai meningkat sebanyak 7.18% dari 270,123 tan metrik pada tahun 2011 kepada 289,505 tan metrik pada tahun 2012. Manakala pendaratan ikan marin laut dalam pula meningkat sebanyak 44.82% dari 54,842 tan metrik pada tahun 2011 kepada 79,423 tan metrik pada tahun 2012

For Sabah, Sarawak and the Federal Territory of Labuan, landing from inshore fisheries has increase by 7.18% from 270,123 tonnes in 2011 to 289,505 tonnes in 2012. Landings from deep-sea fisheries too recorded an increase of 44.82% from 54,842 tonnes in 2011 to 79,423 tonnes in 2012.



3. AKUAKULTUR

3. AQUACULTURE

Pengeluaran Dan Nilai Sektor Akuakultur, Malaysia, 2012 / *Production and Value of Aquaculture Sector, Malaysia, 2012*

Akuakultur [Aquaculture]	2011		2012		Perubahan [Changes] %	
	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]	Kuantiti Quantity	Nilai Value
1. Air Tawar [Freshwater]	122,218.73	684.15	163,756.81	992.39	+33.99	+45.05
2. Air Payau / Marine [Brackishwater]	164,838.68	1,701.49	139,129.51	1,566.78	-15.25	-7.92
Jumlah Akuakultur Makanan [Total Food Aquaculture]	287,057.41	2,385.64	302,886.32	2,559.17	+5.76	+7.27
3. Rumpai Laut [Seaweed]	239,450.00	119.73	331,490.06	198.94	+38.44	+66.16
Jumlah Besar [Grand Total]	na	2,505.37	na	2,758.11	na	+10.09

3.1 Pengeluaran Akuakultur

Pada tahun 2012, pengeluaran dari subsektor akuakultur makanan menyumbang sebanyak 302,886.32 tan metrik bernilai RM2,559.17 juta meningkat sebanyak 5.76% dan 7.27% berbanding tahun 2011. Rumpai laut pula menyumbang 331,490.06 tan metrik bernilai RM198.94 juta bagi tahun 2012.

3.1 Aquaculture Production

In the year 2012, production of food fish from the aquaculture sector was 302,886.32 tonnes valued at RM2,559.17 million, an increase of 5.76% and 7.27% respectively compared to 2011. Seaweed production contributed 331,490.06 tonnes valued at RM198.94 million in 2012.

Dalam tahun 2012, sejumlah 29,482 penternak telah terlibat dalam industri akuakultur yang menunjukkan peningkatan sebanyak 3.13% jika dibandingkan dengan tahun 2011 iaitu 28,599 penternak. Sebahagian besar tenaga kerja adalah terlibat dalam industri akuakultur air tawar yang merangkumi seramai 22,778 orang penternak iaitu 77.23% daripada jumlah keseluruhan penternak akuakultur negara. Manakala seramai 6,704 orang penternak atau 22.77% terlibat dalam industri akuakultur air payau/masin.

A total of 29,482 fish farmers and culturists were involved in the aquaculture industry in 2012, an increase of 3.13% as compared to 28,599 persons in 2011. Majority of the fish farmers [22,778 or 77.23%] were involved in freshwater aquaculture while 22.77% or 6,704 fish farmers were engaged in the brackishwater aquaculture.



Pengeluaran Dan Nilai Akuakultur Air Tawar, Malaysia, 2012 / *Production and Value of Freshwater Aquaculture, Malaysia, 2012*

Akuakultur Air Tawar [Freshwater Aquaculture]	2011		2012		Perubahan [Changes] %	
	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]	Kuantiti Quantity	Nilai Value
Keli [Freshwater Catfish]	46,777.80	153.06	46,522.98	166.95	-0.55	+9.07
Tilapia Merah [Red Tilapia]	33,259.93	247.59	38,841.60	298.15	+16.78	+20.42
Patin [River Catfish]	10,891.51	95.89	18,388.83	147.72	+68.84	+54.05
Tilapia Hitam [Black Tilapia]	9,526.30	54.33	12,713.40	74.28	+33.46	+36.72
Udang Galah [Giant Freshwater Prawn]	334.44	9.34	413.28	10.67	+23.57	+14.24
Pelbagai [Others]	21,428.75	123.94	46,876.72	294.62	+118.76	+137.71
Jumlah Besar [Grand Total]	122,218.73	684.15	163,756.81	992.39	+33.99	+45.05

3.2 Akuakultur Air Tawar

Pada tahun 2012, ternakan ikan air tawar menyumbang sebanyak 163,756.81 tan metrik bernilai RM992.39 juta. Pengeluaran dan nilai menunjukkan peningkatan 33.99% dan 45.05% berbanding tahun 2011 iaitu 122,218.73 tan metrik bernilai RM684.15 juta.



3.2 Freshwater Aquaculture

In 2012, freshwater fish culture contributed 163,756.81 tonnes valued at RM992.39 million. Its production and value showed an increase of 33.99% and 45.05% respectively when compared to 122,218.73 tonnes valued at RM684.15 million in 2011.



Akuakultur Air Payau [Brackishwater Aquaculture]	2011		2012		Perubahan [Changes] %	
	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]	Kuantiti Quantity	Nilai Value
Udang Marin [Marine Prawn]	67,472.80	888.60	55,574.97	756.20	-17.63	-14.90
Kerang [Cockles]	57,544.40	75.57	42,132.03	70.01	-26.78	-7.36
Ikan Marin [Marine Fish]	32,652.56	674.53	37,570.87	726.93	+15.06	+7.77
Siput Sudu [Mussels]	2,625.15	1.52	2,305.97	1.48	-12.16	-2.63
Lain-lain Krustasia [Others Crustacean]	19.53	0.34	51.49	0.86	+163.65	+152.94
Pelbagai [Others]	4,524.24	60.93	1,494.18	11.30	-66.97	-81.45
Jumlah Besar [Grand Total]	164,838.68	1,701.49	139,129.51	1,566.78	-15.60	-7.92

3.3 Akuakultur Air Payau

Pengeluaran dari ternakan air payau dalam tahun 2012 menyumbang sebanyak 139,129.51 tan metrik bernilai RM1,566.78 juta. Pengeluaran dan nilai akuakultur air payau menurun 15.60% dan 7.92% daripada 164,838.68 tan metrik bernilai RM1,701.49 juta pada tahun 2011. Penurunan ini disebabkan oleh masalah EMS [Early Mortality Syndrome] yang dikesan berlaku di kebanyakan ladang ternakan udang di Malaysia. Di samping itu, pengeluaran daripada ternakan kerang turut mengalami penurunan akibat masalah perubahan kepada komposisi tanah dan daripada serangan siput rantai yang mengakibatkan kematian kerang.

3.3 Brackishwater Aquaculture

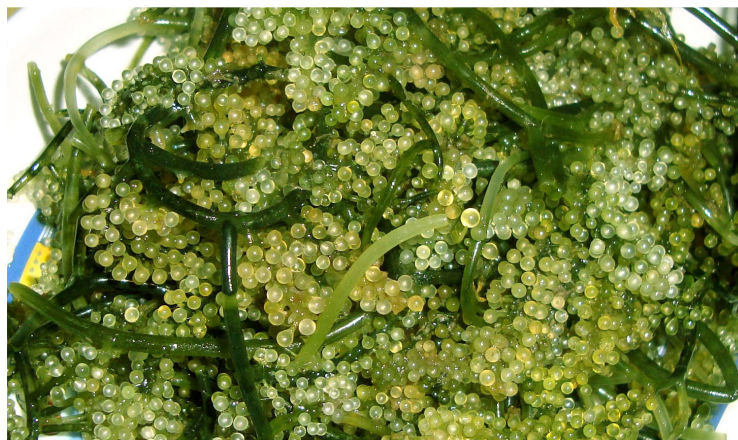
Brackishwater aquaculture production in 2012 contributed 139,129.51 tonnes valued at RM1,566.78 million. Its production and value had decrease by 15.60% and 7.92% from 164,838.68 tonnes valued at RM1,701.49 million in 2011. The main reason for the reduction was the outbreak of Early Mortality Syndrome [EMS] in most of the shrimp farms in Malaysia. Changes in soil composition and the invasion of mussels known as 'siput rantai' smothering the cockles in most cockles farming areas have also resulted in the decline of cockles production in 2012.

4. RUMPAI LAUT

Pengeluaran rumpai laut pada tahun 2012 menunjukkan peningkatan 38.44% kepada 331,490.06 tan metrik [berat basah] daripada 239,405.00 tan metrik pada tahun 2011. Nilai juga meningkat kepada RM198.94 juta berbanding RM119.70 juta pada tahun sebelumnya iaitu peningkatan sebanyak 66.20%. Keluasan ternakan rumpai laut meningkat 40.06% kepada 12,896.83 hektar pada tahun 2012 berbanding 9,208.23 hektar pada tahun 2011.

4. SEAWEED

In 2012, production of seaweed (wet weight) was 331,490.06 tonnes with a value of RM198.94 million, signifying an increase of 38.44% and 66.20% respectively in terms of quantity and value compared to 239,405.00 tonnes valued at RM119.70 million registered in 2011. Total acreage for seaweed culture also recorded an increase of 40.06% from 9,208.23 hectares in 2011 to 12,896.83 hectares in 2012.



5. IKAN HIASAN DAN TUMBUHAN AKUATIK

Pengeluaran ikan hiasan pada tahun 2012 menunjukkan peningkatan sebanyak 22.16% kepada 376,679,177 ekor berbanding 308,351,014 ekor pada tahun 2011. Nilai ikan hiasan pula menunjukkan peningkatan sebanyak 14.35% kepada RM631.51 juta daripada RM550.41 juta pada tahun sebelumnya.

5. ORNAMENTAL FISH AND AQUATIC PLANT

Production of ornamental fish registered an average increase by 22.16% and 14.35% respectively in terms of quantity and value. Production in 2012 was 376,679,177 pieces valued at RM631.51 million as compared to 308,351,014 pieces valued at RM550.41 million in 2011.

Pengeluaran Dan Nilai Ikan Hiasan, Malaysia, 2012 / Production and Value of Ornamental Fish, Malaysia, 2012

Ikan Hiasan [Ornamental Fish]	2011		2012		Perubahan [Changes] %	
	Kuantiti [Ekor] Quantity [Pieces]	Nilai [RM Juta] Value [RM Million]	Kuantiti [M.T] Quantity [Tonnes]	Nilai [RM Juta] Value [RM Million]	Kuantiti Quantity	Nilai Value
Cyprinids	104,504,747	141.38	89,804,041	129.49	-14.07	-8.41
Anabantids	7,872,708	7.70	11,241,200	11.92	+42.79	+54.81
Poeciliids	137,004,130	72.12	157,823,718	97.37	+15.20	+35.01
Characins	9,411,425	4.64	16,777,911	9.84	+78.27	+112.07
Cichlid	7,164,287	14.62	11,809,373	38.94	+64.84	+166.34
Osteoglossids	431,106	291.97	459,631	326.70	+6.62	+11.90
Callichthyids	363,418	0.16	4,029,142	2.24	+1,008.68	+1,300.00
Cobitids	184,000	0.07	186,465	0.06	+1.34	-92.00
Loricariida	1,900	0.00	4,500	0.02	+136.84	+344.44
Lain-lain [Others]	41,413,293	17.07	84,543,196	14.92	+104.15	-12.60
Jumlah Besar [Grand Total]	308,351,014	550.41	376,679,177	631.51	+22.16	+14.35

Pengeluaran tumbuhan akuatik pula menurun kepada 114,453,668 ikat bernilai RM12.26 juta berbanding 187,948,329 ikat bernilai RM20.82 juta pada tahun 2011 iaitu penurunan 39.10% dan 41.11% masing-masing dari segi pengeluaran dan nilai. Penurunan pengeluaran tumbuhan akuatik adalah akibat kawalan ketat eksport oleh pasaran Eropah yang telah menyebabkan sebahagian pengusaha tumbuhan akuatik beralih kepada ternakan ikan bagi mengelakkan kerugian yang lebih besar.

On the other hand, aquatic plants production suffered a setback. Production quantity and value dropped by 39.10% and 41.11% respectively as compared to 2011. Production in 2012 dropped to 114,453,668 bundles valued at RM12.26 million compared to 187,948,329 bundles valued at RM20.82 million in 2011. The poor production in 2012 was basically due to the stringent export measures by the European markets which have resulted in the switching over of some aquatic plant farms to fish farming to avoid bigger losses.



6. PENGELUARAN BENIH IKAN

Pada tahun 2012, sejumlah 9,658.21 juta ekor benih ikan air tawar dan ikan air payau telah dikeluarkan oleh hatceri kerajaan dan swasta, berbanding 3,904.11 juta ekor yang dihasilkan pada tahun 2011.

Pengeluaran benih udang air payau/masin dan udang galah yang dikeluarkan oleh hatceri kerajaan dan swasta pada tahun 2012 adalah 12,518.01 juta ekor menurun 37.41% daripada 19,999.53 juta ekor pada tahun 2011.

6. FISH FRY PRODUCTION

In 2012, freshwater and brackish fish fries production boasted a triple figure increase of 247.38%. A total of 9,658.21 million pieces of fish fries were produced by government and private hatcheries as compared to 3,904.11 million pieces produced in 2011.

Nonetheless, production of brackishwater and freshwater shrimp fries by government and private hatcheries in 2012 suffered a big drop of 37.41% with a production of 12,518.01 million pieces as compared to 19,999.53 million pieces in 2011.

Pengeluaran Dan Nilai Ikan Hiasan, Malaysia, 2012 / *Production and Value of Ornamental Fish, Malaysia, 2012*

Benih Ikan/Udang <i>Fish/Shrimp Fry</i>	Hatceri Kerajaan <i>[Government Hatchery]</i>			Hatceri Swasta <i>[Private Hatchery]</i>		
	2011	2012	%	2011	2012	%
Air Tawar <i>[Freshwater]</i>	23.80	22.32	-6.22	2,803.19	7,974.54	+184.48
Air Payau <i>[Brackishwater]</i>	78.89	105.59	+33.84	998.23	1,555.76	+55.85
Udang <i>[Shrimp]</i>	16.30	33.01	+102.52	19,983.23	12,485.00	-37.52
Jumlah <i>[Total]</i>	118.99	160.92	+35.24	23,784.65	22,015.30	-7.44

* Kuantiti dalam Juta ekor / **Quantity in million tails*

7. PERIKANAN TANGKAPAN DARAT

Pendaratan dari perairan umum pada 2012 telah menurun sebanyak 11.46% kepada 5,041.90 tan metrik berbanding 5,694.36 tan metrik pada tahun 2011. Namun begitu nilainya telah meningkat sebanyak 3.56% kepada RM56.78 juta berbanding RM54.83. Negeri Pahang masih kekal sebagai penyumbang utama dengan 1,562.83 tan metrik bernilai RM22.15 juta iaitu 31.00% daripada keseluruhan pendaratan ikan dari perairan umum di Malaysia.

7. INLAND FISHERIES PRODUCTION [PUBLIC WATER BODIES]

Fish landings from public water bodies recorded a reduction by 11.46% from 5,694.36 tonnes in 2011 to 5,041.90 tonnes in 2012. However, the value of the landing recorded a slight increase of 3.56% or RM56.78 million as compared to RM54.83 million in 2011. The state of Pahang remained the major producer with 1,562.83 tonnes valued at RM22.15 million or 31.00% of the total landings from public water bodies in Malaysia.



BILANGAN NELAYAN YANG BEKERJA DI ATAS VESEL PENANGKAPAN IKAN YANG BERLESEN, 2012
NUMBER OF FISHERMEN WORKING ON LICENSED FISHING VESSELS, 2012

Negeri State Keturunan Ethnic Group	Pantai Barat / <i>West Coast</i>								Pantai Timur / <i>East Coast</i>				Sarawak	Sabah	W.P Labuan <i>F.T. Of Labuan</i>	Jumlah Besar <i>Grand Total</i>
	Perlis	Kedah	Pulau Pinang	Perak	Selangor	Negeri Sembilan	Melaka	Johor Barat <i>West Johore</i>	Kelantan	Terengganu	Pahang	Johor Timur <i>East Johore</i>				
Bumiputera <i>Bumiputeras</i>	1,851	9,186	3,028	2,856	1,526	254	1,506	3,857	4,261	8,089	4,241	3,530	6,855	22,387	761	74,188
Cina <i>Chinese</i>	26	509	2,300	7,508	4,632	229	231	1,380	0	8	573	693	917	345	42	19,393
India <i>Indians</i>	0	4	58	305	141	40	0	9	0	0	0	45	0	0	0	602
Penduduk Tetap <i>Permanent Resident</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lain-lain (Tempatan) <i>Others [Local]</i>	0	0	37	0	94	0	98	182	0	0	0	211	5,334	5,744	8	11,708
Portugis <i>Portuguese</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thai <i>Thais</i>	4,270	3,246	26	5,054	255	0	0	0	3,798	2,367	2,359	1,869	1,705	20	0	24,969
Indonesia <i>Indonesians</i>	0	0	81	4	83	0	0	0	0	0	135	64	1,758	96	0	2,221
Filipina <i>Filipinos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vietnam <i>Vietnamese</i>	0	0	0	0	0	0	0	0	917	311	442	384	234	451	109	2,848
Cina Asing <i>Chinese [China]</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lain-Lain (Asing) <i>Others [Foreigners]</i>	6	0	18	0	51	0	0	0	0	0	167	37	10	0	296	585
Jumlah Besar Grand Total	6,153	12,945	5,548	15,727	6,782	523	1,835	5,428	8,976	10,775	7,917	6,833	16,813	29,043	1,216	136,514

Nota: Bumiputera Termasuk Orang Melayu dan Kumpulan Bumiputera Lain. *Note: Bumiputeras Including Malays and Other Indigenous Groups*

BILANGAN VESEL PENANGKAPAN IKAN YANG BERLESEN MENGIKUT NEGERI DAN KELAS MUATAN, MALAYSIA, 2012
NUMBER OF LICENSED FISHING VESSELS BY STATE AND TONNAGE CLASS, MALAYSIA, 2012

Jenis Type Negeri State	Berjentera Dalam / <i>Inboard - Powered</i>								Jumlah Kecil <i>Sub-Total</i>	Berjentera Sangkut <i>Outboard - Powered</i>	Tidak Berjentera <i>Non - Powered</i>	Jumlah <i>Total</i>
	0-4.9 GRT	5-9.9 GRT	10-14.9 GRT	15-19.9 GRT	20-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & ke atas <i>[& above]</i>				
Pantai Barat / <i>West Coast</i>												
Perlis	2	121	47	33	51	131	125	53	563	500	0	1,063
Kedah	90	272	87	28	68	206	219	83	1,053	3,678	0	4,731
Pulau Pinang	27	256	39	1	39	60	4	7	433	2,537	0	2,970
Perak	327	1,394	239	500	161	222	432	176	3,451	2,301	12	5,764
Selangor	7	539	146	178	148	221	136	3	1,378	1,930	46	3,354
Negeri Sembilan	0	23	8	0	0	0	0	0	31	358	0	389
Melaka / <i>Malacca</i>	0	73	33	0	0	0	0	0	106	949	0	1,055
Johor Barat / <i>West Johore</i>	53	199	98	63	37	40	0	0	490	2,390	11	2,891
Jumlah Kecil / <i>Sub Total</i>	506	2,877	697	803	504	880	916	322	7,505	14,643	69	22,217
Pantai Timur / <i>East Coast</i>												
Kelantan	371	114	92	99	55	41	73	204	1,049	949	0	1,998
Terengganu	152	431	277	178	104	150	100	63	1,455	1,875	0	3,330
Pahang	12	143	148	79	43	150	254	158	987	1,013	0	2,000
Johor Timur / <i>East Johore</i>	30	92	92	48	22	141	180	84	689	1,361	2	2,052
Jumlah Kecil / <i>Sub Total</i>	565	780	609	404	224	482	607	509	4,180	5,198	2	9,380
Malaysia:												
Semenanjung Malaysia / <i>Peninsular Malaysia</i>	1,071	3,657	1,306	1,207	728	1,362	1,523	831	11,685	19,841	71	31,597
Sarawak	574	490	263	84	94	180	260	220	2,165	4,406	3	6,574
Sabah	868	696	334	308	412	548	82	33	3,281	9,503	2,922	15,706
W.P. Labuan / <i>F.T. of Labuan</i>	0	0	0	0	0	0	1	24	25	331	2	358
Jumlah Besar <i>Grand Total</i>	2,513	4,843	1,903	1,599	1,234	2,090	1,866	1,108	17,156	34,081	2,998	54,235

GRT- Gross Registered Tonnage.

BILANGAN PERALATAN MENANGKAP IKAN YANG BERLESEN MENGIKUT NEGERI, MALAYSIA, 2012
NUMBER OF LICENSED FISHING GEARS BY STATE, MALAYSIA, 2012

Peralatan Menangkap Fishing Gears	Pukat Tunda Trawl Nets	Pukat Jerut Ikan Fish Purse Seines	Pukat Jerut Bilis Anchovy Purse Seines	Pukat Kenka Satu Bot Kenka One Boat	Pukat Kenka Dua Bot Kenka Two Boats	Pukat Tarik Lain Other Seines	Pukat Hanyut Drift/Gill Nets	Pukat Tangguk Lift Nets	Belat Stationary Traps	Bubu Portable Traps	Pancing Hooks & Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/Scoop Nets	Bintoh Ketam Crab Traps	Memungut Siput Shellfish Collection	Rampaian Miscellaneous	Jumlah Total
Negeri / State																		
Pantai Barat (West Coast)																		
Perlis	169	121	0	0	0	0	674	0	0	2	0	0	0	0	0	0	0	966
Kedah	420	51	61	0	0	0	4,141	0	0	0	0	9	0	0	0	8	0	4,690
Pulau Pinang	83	5	0	49	0	1	2,731	0	0	6	37	5	0	0	0	0	0	2,917
Perak	1,299	155	10	0	267	15	2,932	0	0	63	102	52	0	0	222	127	2	5,246
Selangor	686	38	0	0	0	0	2,368	0	0	10	35	122	8	0	2	39	0	3,308
Negeri Sembilan	0	0	0	0	0	0	369	0	0	5	15	0	0	0	0	0	0	389
Melaka	0	0	0	0	0	0	1,055	0	0	0	0	0	0	0	0	0	0	1,055
Johor Barat / West Johore	127	0	0	0	0	0	2,622	0	21	0	4	46	4	0	0	0	0	2,824
Jumlah Kecil / Sub -Total	2,784	370	71	49	267	16	16,892	0	21	86	193	234	12	0	224	174	2	21,395
Pantai Timur / East Coast																		
Kelantan	254	93	14	0	0	11	1,414	18	0	36	130	0	0	0	0	0	0	1,970
Terengganu	184	192	18	0	0	5	472	20	0	120	2,265	1	0	0	0	0	0	3,277
Pahang	437	95	7	0	0	2	1,067	9	0	88	218	0	0	0	0	0	0	1,923
Johor Timur / East Johore	275	76	0	0	0	0	1,485	0	12	21	58	0	0	0	0	0	0	1,927
Jumlah Kecil / Sub -Total	1,150	456	39	0	0	18	4,438	47	12	265	2,671	1	0	0	0	0	0	9,097
Sarawak	577	43	0	0	0	7	5,389	0	6	34	95	192	208	21	0	0	0	6,572
Sabah	1,515	247	27	0	0	42	7,806	388	133	725	3,456	0	5	0	642	127	593	15,706
W.P. Labuan / F.T. of Labuan	2	4	0	0	0	5	155	0	0	16	172	0	0	0	0	0	4	358
Jumlah Kecil / Sub -Total	2,094	294	27	0	0	54	13,350	388	139	775	3,723	192	213	21	642	127	597	22,636
Jumlah Besar / Grand Total	6,028	1,120	137	49	267	88	34,680	435	172	1,126	6,587	427	225	21	866	301	599	53,128

Nota / Note: Pukat Kenka Dua Bot mempunyai satu peralatan sahaja

**PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN KUMPULAN PERALATAN MENANGKAP IKAN, MALAYSIA, 2012 [Tan Metrik]
LANDINGS OF MARINE FISH BY STATE AND FISHING GEAR GROUP, MALAYSIA, 2012 [Tonnes]**

Kumpulan Peralatan Menangkap Ikan <i>Fishing Gear Group</i>	Pukat Tunda <i>Trawl Nets</i>	Pukat Jerut Ikan <i>Fish Purse Seines</i>	Pukat Jerut Bilis <i>Anchovy Purse Seines</i>	Pukat Tarik Lain <i>Other Seines</i>	Pukat Hanyut <i>Drift/Gill Nets</i>	Pukat Tangguk <i>Lift Nets</i>	Belat <i>Stationary Traps</i>	Bubu <i>Portable Traps</i>	Pancing <i>Hooks & Lines</i>	Pukat Bakul <i>Bag Nets</i>	Pukat Rentang <i>Barrier Nets</i>	Pukat Surung <i>Push/Scoop Nets</i>	Memungut Siput <i>Shellfish Collection</i>	Rampaian <i>Miscellaneous</i>	Jumlah <i>Total</i>
Negeri/ <i>State</i>															
Pantai Barat / <i>West Coast</i>															
Perlis	44,398	50,062	0	101	22,926	0	0	0	0	0	0	888	0	74	118,449
Kedah	42,715	9,768	4,600	141	40,213	0	19	4	813	452	37	300	110	25	99,195
Pulau Pinang	21,819	1,017	0	6,212	22,182	0	0	170	567	200	288	12	0	125	52,593
Perak	171,766	77,026	905	21,295	27,867	0	0	127	875	10,240	266	3,050	1,485	915	315,817
Selangor	91,648	5,859	0	7	16,898	0	163	104	1,139	1,257	2,001	796	905	5	120,783
Negeri Sembilan	0	0	0	15	488	0	0	36	34	0	0	0	0	0	573
Melaka	0	0	0	0	1,449	0	0	2	238	0	0	98	0	0	1,787
Johor Barat / <i>West Johore</i>	6,799	0	0	0	10,987	0	259	235	271	13,271	76	83	765	322	33,067
Jumlah Kecil / <i>Sub-Total</i>	379,145	143,732	5,505	27,772	143,010	0	441	677	3,937	25,421	2,666	5,227	3,265	1,466	742,263
Pantai Timur / <i>East Coast</i>															
Kelantan	45,163	17,284	2,290	0	6,072	3,655	0	570	1,398	0	0	0	0	27	76,458
Terengganu	15,449	32,007	1,531	0	11,590	3,793	0	3,998	12,359	0	0	0	0	0	80,726
Pahang	65,451	28,583	1,200	0	4,019	0	0	1,692	11,140	0	0	0	0	0	112,086
Johor Timur / <i>East Johore</i>	44,591	40,823	0	0	2,244	0	92	882	1,990	1,155	0	0	0	0	91,777
Jumlah Kecil / <i>Sub-Total</i>	170,654	118,698	5,021	0	23,925	7,448	92	7,142	26,886	1,155	0	0	0	27	361,047
Malaysia:															
Semenanjung Malaysia / <i>Peninsular Malaysia</i>	549,799	262,430	10,526	27,772	166,935	7,448	533	7,819	30,824	26,576	2,666	5,227	3,265	1,493	1,103,311
Sarawak	71,053	10,160	0	182	39,393	666	132	914	3,707	2,879	7,672	493	196	3,657	141,103
Sabah	68,013	55,376	535	734	19,674	11,691	1,125	2,735	15,814		276	184	242	1,663	178,063
W.P. Labuan / <i>F.T. of Labuan</i>	17,215	21,649	0	0	3,096	155	0	201	7,447	0	0	0	0	0	49,763
Jumlah Besar <i>Grand Total</i>	706,080	349,615	11,061	28,687	229,098	19,961	1,790	11,669	57,791	29,455	10,614	5,904	3,703	6,813	1,472,240

PENDARATAN IKAN LAUT MENGIKUT BULAN DAN NEGERI, 2012 (Tan Metrik)
LANDINGS OF MARINE FISH BY MONTH AND STATE, 2012 (Tonnes)

Bulan/Month Negeri/State	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Jumlah Total
Pantai Barat / West Coast													
Perlis	11,368	10,393	9,536	9,825	7,225	9,405	9,874	11,067	8,889	11,100	10,655	9,111	118,449
Kedah	6,896	7,517	7,701	8,675	8,624	8,280	8,429	8,941	8,426	8,542	8,690	8,474	99,195
Pulau Pinang	4,193	4,077	4,178	4,556	4,977	4,518	4,754	4,343	4,770	3,676	4,123	4,429	52,593
Perak	23,433	25,519	26,119	22,357	23,162	24,421	27,046	27,792	29,232	31,419	28,762	26,555	315,817
Selangor	9,565	9,777	8,903	8,414	10,647	6,454	9,764	11,807	10,213	10,720	12,380	12,139	120,783
Negeri Sembilan	34	68	33	48	62	48	51	53	49	49	42	36	573
Melaka	131	147	131	137	151	176	149	157	148	151	144	164	1,787
Johor Barat / West Johore	1,753	1,898	1,788	2,016	1,828	3,185	3,742	3,810	4,053	3,521	2,861	2,612	33,067
Jumlah Kecil / Sub-Total	57,373	59,397	58,389	56,029	56,676	56,487	63,809	67,971	65,780	69,176	67,657	63,521	742,263
Pantai Timur / East Coast													
Kelantan	4,795	5,286	6,004	6,191	7,875	7,044	7,433	7,698	7,850	5,455	5,877	4,950	76,458
Terengganu	4,167	6,443	6,709	6,663	5,968	5,684	6,997	5,928	11,936	9,935	6,782	3,515	80,726
Pahang	5,631	6,101	7,976	8,650	9,160	8,945	10,165	11,674	14,892	15,019	8,405	5,467	112,086
Johor Timur / East Johore	4,885	7,342	7,720	8,283	7,524	7,051	8,152	8,743	10,578	9,912	7,032	4,555	91,777
Jumlah Kecil / Sub-Total	19,478	25,172	28,409	29,786	30,527	28,724	32,748	34,044	45,256	40,321	28,096	18,487	361,047
Malaysia:													
Semenanjung Malaysia <i>Peninsular Malaysia</i>	76,851	84,569	86,798	85,815	87,204	85,211	96,557	102,014	111,036	109,497	95,752	82,008	1,103,311
Sarawak	9,473	12,071	13,217	11,945	11,282	11,375	12,134	11,565	12,751	12,394	11,981	10,916	141,103
Sabah	12,980	13,989	15,393	15,914	15,777	16,589	15,755	15,862	15,288	15,063	13,600	11,854	178,063
Wilayah Persekutuan Labuan <i>Federal Territory Of Labuan</i>	2,432	2,547	3,527	6,379	6,965	9,147	2,596	2,622	2,521	5,141	3,478	2,409	49,763
Jumlah Besar Grand Total	101,736	113,175	118,935	120,052	121,227	122,322	127,041	132,063	141,595	142,095	124,811	107,186	1,472,240

NILAI HARGA BORONG PENDARATAN IKAN LAUT, 2012
WHOLESALE VALUE OF MARINE FISH LANDINGS, 2012

Negeri / State	Gred 1 Grade 1		Gred 11 Grade 11		Gred 111 Grade 111		Udang Prawn		Ikan Baja Trash Fish		Kerang-Kerangan Shellfish		Jumlah Total	
	Tan Metrik Tonnes	RM '000	Tan Metrik Tonnes	RM '000	Tan Metrik Tonnes	RM '000	Tan Metrik Tonnes	RM '000	Tan Metrik Tonnes	RM '000	Tan Metrik Tonnes	RM '000	Tan Metrik Tonnes	RM '000
Pantai Barat / West Coast	18,970	432,452	11,165	54,853	447,339	2,752,072	95,175	846,991	166,346	120,635	3,268	7,538	742,263	4,214,540
Perlis	1,102	20,612	70	802	94,791	624,075	691	16,220	21,795	11,922	0	0	118,449	673,631
Kedah	1,745	42,791	768	5,528	79,809	568,102	3,331	62,935	13,432	13,646	110	548	99,195	693,550
Pulau-Pinang	2,146	61,940	409	2,575	25,732	138,643	9,391	199,419	14,914	6,622	0	0	52,593	409,199
Perak	4,786	123,956	6,746	29,185	200,795	1,185,637	32,184	296,713	69,821	60,173	1,485	3,498	315,817	1,699,163
Selangor	5,439	87,542	2,201	8,433	35,499	167,193	33,635	159,725	43,103	26,365	905	2,137	120,783	451,394
Negeri Sembilan	95	2,462	70	669	385	2,916	24	590	0	0	0	0	573	6,637
Melaka	497	10,338	0	0	1,117	5,458	173	3,884	0	0	0	0	1,787	19,680
Johor Barat/ West Johore	3,159	82,812	902	7,661	9,210	60,048	15,747	107,505	3,280	1,906	768	1,355	33,067	261,286
Pantai Timur / East Coast	9,388	156,067	3,717	42,575	277,132	1,690,646	4,015	51,188	66,205	26,788	590	2,193	361,047	1,969,457
Kelantan	1,218	18,494	453	3,937	59,757	294,474	568	9,906	13,939	6,807	522	1,888	76,458	335,507
Terengganu	2,348	42,032	921	15,057	73,704	467,419	292	6,302	3,396	1,674	65	290	80,726	532,775
Pahang	3,740	63,944	1,589	13,825	80,901	583,006	952	9,775	24,901	9,363	3	15	112,086	679,927
Johor Timur/East Johore	2,082	31,596	754	9,756	62,770	345,747	2,202	25,205	23,968	8,944	0	0	91,777	421,248
Sem. Malaysia Peninsular Malaysia Jumlah / Total	28,358	588,518	14,882	97,428	724,471	4,442,718	99,190	898,179	232,551	147,422	3,858	9,731	1,103,311	6,183,997
Sarawak	9,508	117,048	8,003	58,530	100,636	329,202	7,444	60,117	15,315	6,748	197	778	141,103	572,424
Sabah	8,729	78,253	10,198	82,813	128,783	496,450	11,600	130,519	18,219	11,393	533	1,934	178,063	801,361
W. Persekutuan Labuan / Fed. Territory Of Labuan	3,589	66,587	2,546	36,153	38,739	277,156	2,087	42,724	2,801	1,261	0	0	49,763	423,881
Jumlah Kecil / Sub-Total	21,826	261,888	20,748	177,497	268,158	1,102,808	21,131	233,359	36,336	19,402	730	2,712	368,929	1,797,665
Jumlah Besar / Grand Total	50,184	850,406	35,630	274,925	992,629	5,545,526	120,321	1,131,539	268,887	166,824	4,588	12,443	1,472,240	7,981,663

NOTA/NOTE

Gred 1

[Grade 1]

Gred 11

[Grade 11]

Gred 111

[Grade 111]

- Bawal Tambak, Bawal Putih, Bawal Hitam, Bawal Selatan, Senangin/Kurau/Senohong, Tenggiri, Parang, Kerapu, dan Jenahak

- Chinese Pomfret, Silver Pomfret, Black Pomfret, Small Pomfret, Threadfin, Spanish Mackerel, Wolf Herring, Grouper and Mangrove Snapper

- Terubuk, Puput/Beliak Mata/Tirok, Merah, Kaci, Cermin/Sagai/Cupak, Demuduk/Rambai dan Siakap

- Longtail Shad, Shads/Slender Shads, Red Snapper, Sweetlip, Horse Mackerel and Giant Sea Perch

- Ikan-Ikan lain termasuk Ikan Bilis, Sotong, Ketam, Udang Karang, Udang Lobok dan Ubur-Ubur

- Other Species Include Anchovy, Squids, Crabs, Lobster and Jellyfish

ANGGARAN PENGELUARAN DAN NILAI AKUAKULTUR DARIPADA SISTEM TERNAKAN AIR TAWAR MENGIKUT SPESIS, 2012 [Tan Metrik/Nilai Dalam RM '000]
ESTIMATED AQUACULTURE PRODUCTION FROM FRESHWATER CULTURE SYSTEM BY SPECIES, 2012 [Tonnes/Value In RM '000]

Spesis <i>Species</i>	Sistem Ternakan <i>Culture System</i>						Jumlah <i>Total</i>
	Kolam Air Tawar <i>Freshwater Ponds</i>	Sangkar Air Tawar <i>Freshwater Cages</i>	Bekas Lombong <i>Ex-Mining Pools</i>	Tangki Simen <i>Cement Tanks</i>	Tangki Kanvas <i>Canvas Tanks</i>	Kandang Ikan <i>Pen Culture</i>	
Baung <i>River Catfish</i>	489.27 6,986.60	743.08 9,165.40	7,644.19 112,802.76	0.10 1.61	0.00 0.00	27.39 404.19	8,904.03 129,360.56
Haruan <i>Snakehead</i>	410.82 4,651.42	0.00 0.00	6.08 68.98	0.00 0.00	0.00 0.00	0.00 0.00	416.90 4,720.40
Jelawat <i>River Carp</i>	434.53 4,292.66	41.82 390.19	471.90 4,400.65	5.00 50.00	0.00 0.00	9.03 84.20	962.28 9,217.70
Kap Kepala Besar <i>Big Head Carp</i>	581.90 2,060.22	0.00 0.00	10,458.76 36,930.79	0.00 0.00	0.00 0.00	0.00 0.00	11,040.66 38,991.01
Kap Rumput <i>Grass Carp</i>	1,483.79 9,535.25	0.52 3.22	1,536.18 9,957.64	0.00 0.00	0.00 0.00	8.15 52.83	3,028.64 19,548.94
Keli <i>Freshwater Catfish</i>	44,139.70 158,047.69	351.59 1,402.73	35.11 130.73	1,518.85 5,584.48	458.02 1,707.81	19.71 80.38	46,522.98 166,953.82
Lampam Jawa <i>Javanese Carp</i>	444.43 3,905.07	15.10 89.51	6,801.62 33,295.77	2.00 20.00	0.00 0.00	217.25 1,070.95	7,480.40 38,381.30
Lee Koh <i>Common Carp</i>	371.53 3,198.18	1.26 11.34	1,456.66 7,443.53	1.00 10.00	0.00 0.00	0.00 0.00	1,830.45 10,663.05
Patin <i>River Catfish</i>	5,084.63 37,961.84	3,737.98 59,681.04	9,458.72 49,522.26	11.98 61.54	2.32 13.59	93.20 481.39	18,388.83 147,721.66
Rohu <i>Labeo Rohita</i>	3,427.41 8,660.44	0.79 4.11	7,466.34 18,665.85	0.00 0.00	0.00 0.00	0.00 0.00	10,894.54 27,330.40
Tilapia Hitam <i>Black Tilapia</i>	4,258.54 30,681.41	51.41 390.24	8,373.47 42,877.49	23.57 282.19	0.00 0.00	6.41 47.16	12,713.40 74,278.49
Tilapia Merah <i>Red Tilapia</i>	14,502.15 116,247.06	6,916.52 54,017.64	14,164.56 104,183.60	2,732.39 19,838.64	1.62 11.83	524.35 3,849.32	38,841.59 298,148.09
Toman <i>Giant Snakehead</i>	867.46 6,316.01	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	867.46 6,316.01
Udang Galah <i>Giant Freshwater Prawn</i>	411.30 10,617.15	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	1.98 47.87	413.28 10,665.02
Pelbagai <i>Others</i>	1,127.40 8,017.30	201.11 1,386.32	63.78 466.56	52.05 182.62	0.84 5.72	6.18 30.89	1,451.36 10,089.41
Jumlah Total	78,034.86 411,178.30	12,061.18 126,541.74	67,937.37 420,746.61	4,346.94 26,031.08	462.80 1,738.95	913.65 6,149.18	163,756.80 992,385.86

ANGGARAN PENGELUARAN DAN NILAI AKUAKULTUR DARIPADA SISTEM TERNAKAN AIR PAYAU/MASIN MENGIKUT SPESIS, 2012 [Tan Metrik/Nilai Dalam RM '000]
ESTIMATED AQUACULTURE PRODUCTION FROM BRACKISHWATER CULTURE SYSTEM BY SPECIES, 2012 [Tonnes/Value In RM '000]

Spesis Species	Sistem Ternakan / Culture System								Jumlah Total
	Kolam Air Payau Brackishwater Ponds	Sangkar Air Payau Brackishwater Cages	Tangki Air Masin Brackishwater Tanks	Kandang Air Payau Brackishwater Pen Culture	Kerang Cockles	Siput Sudu Mussels	Tiram Oysters	Rumpai Laut Seaweeds [basah/wet]	
Banding Milkfish	0.00	1,418.98	0.00	0.00	0.00	0.00	0.00	0.00	1,418.98
	0.00	9,649.06	0.00	0.00	0.00	0.00	0.00	0.00	9,649.06
Bawal Emas Trachinotus blochii	0.00	1,329.19	0.00	0.00	0.00	0.00	0.00	0.00	1,329.19
	0.00	23,754.55	0.00	0.00	0.00	0.00	0.00	0.00	23,754.55
Jenahak Mangrove Snapper	316.00	2,060.68	0.00	0.00	0.00	0.00	0.00	0.00	2,376.68
	5,868.65	40,468.27	0.00	0.00	0.00	0.00	0.00	0.00	46,336.92
Kerang Dewasa Cockles	0.00	0.00	0.00	0.00	42,132.03	0.00	0.00	0.00	42,132.03
	0.00	0.00	0.00	0.00	70,007.46	0.00	0.00	0.00	70,007.46
Kerapu Grouper	36.04	5,518.31	0.56	76.02	0.00	0.00	0.00	0.00	5,630.93
	1,283.92	211,842.28	14.00	4,181.10	0.00	0.00	0.00	0.00	217,321.30
Merah Red Snapper	24.94	4,213.14	0.00	1.37	0.00	0.00	0.00	0.00	4,239.45
	529.31	83,081.39	0.00	21.92	0.00	0.00	0.00	0.00	83,632.62
Nyok-nyok Horse mackerel	0.00	663.54	0.00	0.00	0.00	0.00	0.00	0.00	663.54
	0.00	9,372.50	0.00	0.00	0.00	0.00	0.00	0.00	9,372.50
Siakap Sea bass	12,284.65	7,757.20	42.01	4.88	0.00	0.00	0.00	0.00	20,088.74
	190,509.70	103,009.43	666.87	73.20	0.00	0.00	0.00	0.00	294,259.20
Siput Sudu Mussels	0.00	0.00	0.00	0.00	0.00	2,305.97	0.00	0.00	2,305.97
	0.00	0.00	0.00	0.00	0.00	1,480.58	0.00	0.00	1,480.58
Tilapia Merah Red Tilapia	470.23	270.07	0.00	0.00	0.00	0.00	0.00	0.00	740.30
	5,062.39	2,296.42	0.00	0.00	0.00	0.00	0.00	0.00	7,358.81
Tiram Oysters	0.00	0.00	0.00	0.00	0.00	0.00	695.20	0.00	695.20
	0.00	0.00	0.00	0.00	0.00	0.00	3,533.86	0.00	3,533.86
Udang Harimau Tiger Prawn	6,577.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6,577.25
	139,645.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	139,645.61
Udang Putih Hawaiian White Shrimp	48,991.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48,991.81
	615,904.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	615,904.12
Rumpai Laut Seaweeds	0.00	0.00	0.00	0.00	0.00	0.00	0.00	331,490.06	331,490.06
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	198,938.17	198,938.17
Pelbagai Others	222.76	1,439.01	177.26	100.41	0.00	0.00	0.00	0.00	1,939.44
	2,943.48	38,629.19	658.03	2,288.87	0.00	0.00	0.00	0.00	44,519.57
Jumlah Total	68,923.68	24,670.12	219.83	182.68	42,132.03	2,305.97	695.20	331,490.06	470,619.57
	961,747.18	522,103.09	1,338.90	6,565.09	70,007.46	1,480.58	3,533.86	198,938.17	1,765,714.33

ANGGARAN PENGELUARAN AKUAKULTUR MENGIKUT NEGERI DAN SISTEM TERNAKAN, 2012 [Tan Metrik]
ESTIMATED AQUACULTURE PRODUCTION BY STATE AND CULTURE SYSTEM, 2012 [Tonnes]

Negeri State	Air Tawar [Freshwater]							Air Payau [Brackishwater]									Jumlah Besar Grand Total
	Kolam Ponds	Bekas Lombong Ex-Mining Pools	Sangkar Cages	Tangki Simen Cement Tanks	Tangki Kanvas Canvas Tanks	Kandang Ikan Pen Culture	Jumlah Kecil Sub- Total	Kolam Ponds	Sangkar Cages	Tangki Air Masin Brackish-water Tanks	Kandang Air Payau Brackishwater Pen Culture	Kerang Cockles	Siput Sudu Mussels	Tiram Oysters	Rumpai Laut Sea weeds (basah/wet)	Jumlah Kecil Sub- Total	
Perlis	91.83	-	1.66	59.15	-	-	152.64	89.31	-	-	-	-	-	-	-	89.31	241.95
Kedah	3,890.93	-	40.01	41.62	-	-	3,972.56	1,866.72	397.35	-	-	389.97	-	5.36	-	2,659.40	6,631.96
Pulau Pinang	4,960.70	-	33.08	-	-	-	4,993.78	19,801.55	6,950.25	-	-	7,737.34	-	9.18	-	34,498.32	39,492.10
Perak	19,193.34	67,760.39	3,756.45	740.68	5.61	807.09	92,263.56	6,384.26	2,541.15	-	-	22,068.56	2.00	9.05	20.06	31,025.08	123,288.64
Selangor	12,828.37	152.46	44.53	1,831.61	-	-	14,856.97	5,917.52	3,139.10	-	-	11,842.66	0.33	-	-	20,899.61	35,756.58
Negeri Sembilan	5,691.76	-	217.44	981.57	91.90	-	6,982.67	1,016.36	-	-	-	-	-	-	-	1,016.36	7,999.03
Melaka	7,850.38	-	4.84	75.41	35.64	-	7,966.27	69.00	54.77	-	-	-	0.34	-	-	124.11	8,090.38
Johor	10,387.61	-	56.64	67.19	-	-	10,511.44	7,310.66	6,623.60	-	-	93.50	2,262.14	-	-	16,289.90	26,801.34
Pahang	4,676.22	24.52	3,973.86	104.06	-	-	8,778.66	3,649.89	117.13	0.58	-	-	39.21	-	-	3,806.81	12,585.47
Terengganu	786.71	-	3,000.21	147.42	285.11	-	4,219.45	1,436.77	2,495.91	202.08	-	-	-	15.25	-	4,150.01	8,369.46
Kelantan	1,469.09	-	269.01	143.58	44.54	106.56	2,032.78	158.85	443.28	-	-	-	-	7.35	-	609.48	2,642.26
Sarawak	2,330.00	-	634.96	88.70	-	-	3,053.66	8,936.00	489.00	9.00	-	-	-	-	-	9,434.00	12,487.66
Sabah	3,877.54	-	28.49	64.80	-	-	3,970.83	12,286.79	1,415.31	7.00	182.68	-	1.95	649.01	331,470.00	346,012.74	349,983.57
W.P. Labuan	0.39	-	-	1.16	-	-	1.55	-	3.27	1.17	-	-	-	-	-	4.44	5.99
Jumlah/ Total	78,034.87	67,937.37	12,061.18	4,346.95	462.80	913.65	163,756.82	68,923.68	24,670.12	219.83	182.68	42,132.03	2,305.97	695.20	331,490.06	470,619.57	634,376.39

ANGGARAN NILAI BORONG PENGELUARAN AKUAKULTUR MENGIKUT NEGERI DAN SISTEM TERNAKAN, 2012 (Nilai Dalam RM Juta)
ESTIMATED WHOLESALE VALUE OF AQUACULTURE PRODUCTION BY STATE AND CULTURE SYSTEM, 2012 (Value In RM Million)

Negeri State	Air Tawar <i>[Freshwater]</i>							Air Payau <i>[Brackishwater]</i>								Jumlah Besar <i>Grand Total</i>	
	Kolam <i>Ponds</i>	Bekas Lombong <i>Ex-Mining Pools</i>	Sangkar <i>Cages</i>	Tangki Simen <i>Cement Tanks</i>	Tangki Kanvas <i>Canvas Tanks</i>	Kandang Ikan <i>Pen Culture</i>	Jumlah Kecil <i>Sub- Total</i>	Kolam <i>Ponds</i>	Sangkar <i>Cages</i>	Tangki Air Masin <i>Brackish-water Tanks</i>	Kandang Air Payau <i>Brackishwater Pen Culture</i>	Kerang <i>Cockles</i>	Siput Sudu <i>Mussels</i>	Tiram <i>Oysters</i>	Rumpai Laut <i>Seaweeds (basah/ wet)</i>		Jumlah Kecil <i>Sub- Total</i>
Perlis	333.02	-	7.49	207.03	-	-	547.54	1,240.97	-	-	-	-	-	-	-	1,240.97	1,788.51
Kedah	13,485.11	-	236.67	126.59	-	-	13,848.37	23,418.54	9,482.40	-	-	560.58	-	5.36	-	33,466.88	47,315.25
Pulau Pinang	16,818.22	-	181.33	-	-	-	16,999.55	272,975.40	159,458.01	-	-	12,283.03	-	9.95	-	444,726.39	461,725.94
Perak	100,542.55	419,703.60	27,984.79	4,808.06	20.19	5,570.04	558,629.23	95,362.06	33,368.68	-	-	36,376.34	3.61	181.00	56.17	165,347.86	723,977.09
Selangor	56,815.82	863.63	287.81	11,978.59	-	-	69,945.85	94,853.31	58,229.75	-	-	20,675.31	0.66	-	-	173,759.03	243,704.88
Negeri Sembilan	31,450.34	-	1,587.31	5,313.64	275.70	-	38,626.99	12,440.22	-	-	-	-	-	-	-	12,440.22	51,067.21
Melaka	27,213.79	-	25.39	274.50	123.18	-	27,636.86	2,493.86	492.93	-	-	-	0.69	-	-	2,987.48	30,624.34
Johor	41,453.00	-	466.17	211.44	-	-	42,130.61	82,947.61	133,454.88	-	-	112.20	1,387.45	-	-	217,902.14	260,032.75
Pahang	39,405.68	179.38	63,964.10	531.05	-	-	104,080.21	66,490.71	1,100.33	8.99	-	-	78.42	-	-	67,678.45	171,758.66
Terengganu	5,411.11	-	23,847.33	584.03	1,136.11	-	30,978.58	20,484.22	37,912.33	1,010.73	-	-	-	45.75	-	59,453.03	90,431.61
Kelantan	7,688.23	-	1,275.68	599.13	183.77	579.14	10,325.95	1,730.08	6,719.01	-	-	-	-	46.75	-	8,495.84	18,821.79
Sarawak	24,045.00	-	6,352.10	606.30	-	-	31,003.40	134,472.00	7,904.00	153.00	-	-	-	-	-	142,529.00	173,532.40
Sabah	46,511.82	-	325.57	776.83	-	-	47,614.22	152,838.21	73,913.44	140.00	6,565.09	-	9.75	3,245.05	198,882.00	435,593.54	483,207.76
W.P. Labuan	4.63	-	-	13.90	-	-	18.53	-	67.33	26.18	-	-	-	-	-	93.51	112.04
Jumlah/ Total	411,178.32	420,746.61	126,541.74	26,031.09	1,738.95	6,149.18	992,385.89	961,747.19	522,103.09	1,338.90	6,565.09	70,007.46	1,480.58	3,533.86	198,938.17	1,765,714.34	2,758,100.23

ANGGARAN PENGELUARAN DAN NILAI IKAN HIASAN DAN TUMBUHAN AKUATIK MENGIKUT NEGERI 2012 [Bilangan Dalam Ekor]
 ESTIMATED PRODUCTION AND VALUE OF ORNAMENTAL FISH AND AQUATIC PLANT BY STATE, 2012 [Number In Pieces]

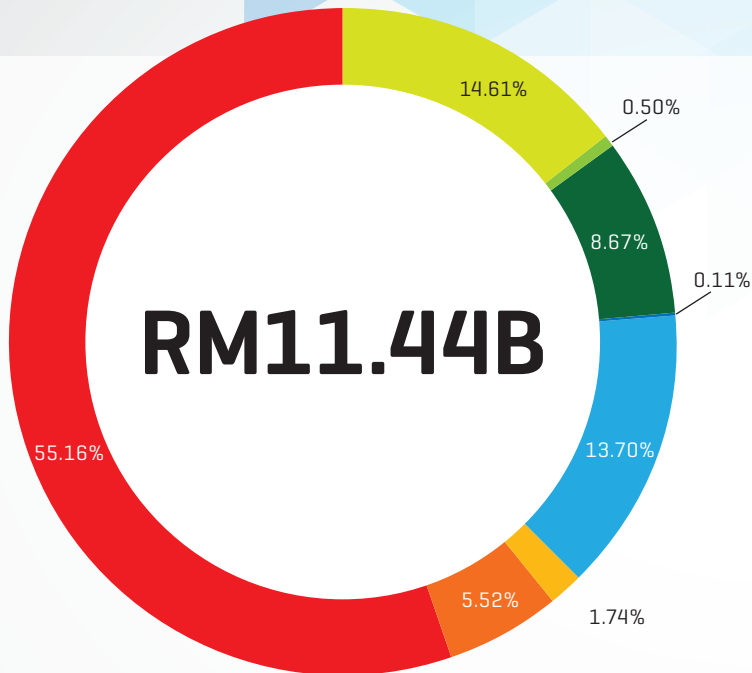
Negeri State	Pengeluaran Ikan Hiasan Production of Ornamental Fish	Nilai (RM) Value (RM)	Pengeluaran Tumbuhan Akuatik Production of Aquatic Plant	Nilai (RM) Value (RM)
Perlis	-	-	-	-
Kedah	17,600	108,510.00	-	-
Pulau Pinang / <i>Penang</i>	2,904,710	24,466,471.30	107,000	196,250.00
Perak	108,014,151	237,495,063.65	-	-
Selangor	9,081,555	32,962,390.00	-	-
Negeri Sembilan	-	-	-	-
Melaka / <i>Malacca</i>	1,061,412	491,487.50	-	-
Johor / <i>Johore</i>	254,717,514	331,779,569.31	114,346,668	12,062,077.14
Pahang	116,576	869,735.00	-	-
Terengganu	68,369	184,553.15	-	-
Kelantan	339,887	759,206.90	-	-
Sarawak	262,866	189,257.25	-	-
Sabah	93,909	92,210.00	-	-
W.P. Labuan	628	6,280.00	-	-
Jumlah/Total	376,679,177	629,404,734.06	114,453,668	12,258,327.14

ANGGARAN PENDARATAN DAN NILAI IKAN AIRTAWAR DARI PERAIRAN UMUM/PERIKANAN DARAT MENGIKUT PERAIRAN DAN NEGERI, 2012 [Tan Metrik]
ESTIMATED LANDINGS AND VALUE OF FRESHWATER FISH FROM PUBLIC WATERBODIES/INLAND FISHERIES BY WATERBODIES AND STATE, 2012 [Tonnes]

Negeri State	Sungai Rivers	Bekas Lombong Ex-Mining Pools	Empangan Dams	Tasik Lakes	Lain-Lain Others	Jumlah Total
Perlis	(MT / Tonnes) 0.72	-	6.15	-	0.89	7.76
	(RM '000) 5.04	-	31.72	-	6.23	42.99
Kedah	157.17	15.30	144.82	-	264.41	581.70
	866.97	71.48	802.65	-	1,343.25	3,084.35
Pulau Pinang	20.73	-	-	-	-	20.73
	463.11	-	-	-	-	463.11
Perak	192.42	359.06	-	229.76	74.23	855.47
	2,415.70	2,402.56	-	2,692.77	579.43	8,090.46
Selangor	86.23	79.90	14.68	1.46	20.21	202.48
	1,377.04	705.57	112.72	7.64	193.38	2,396.35
Negeri Sembilan	2.97	-	-	-	-	2.97
	53.46	-	-	-	-	53.46
Melaka	95.42	-	23.12	-	-	118.54
	656.50	-	380.54	-	-	1,037.04
Johor	631.35	9.89	252.80	12.46	-	906.50
	8,326.99	98.28	1,152.35	133.89	-	9,711.51
Pahang	1,146.37	66.27	143.75	152.97	53.47	1,562.83
	18,080.26	646.03	1,499.58	1,308.49	613.64	22,148.00
Terengganu	155.58	1.53	52.18	-	50.10	259.39
	1,858.99	18.51	445.24	-	348.27	2,671.01
Kelantan	134.35	2.63	23.32	14.73	60.40	235.43
	1,487.85	19.93	234.43	121.25	409.01	2,272.47
Sarawak	179.67	-	-	45.05	-	224.72
	3,163.38	-	-	792.81	-	3,956.19
Sabah	63.38	-	-	-	-	63.38
	853.13	-	-	-	-	853.13
W.P. Labuan	-	-	-	-	-	-
	-	-	-	-	-	-
Jumlah / Total	2,866.36	534.58	660.82	456.43	523.71	5,041.90
	39,608.42	3,962.36	4,659.23	5,056.85	3,493.21	56,780.07

CARTA I
Chart I

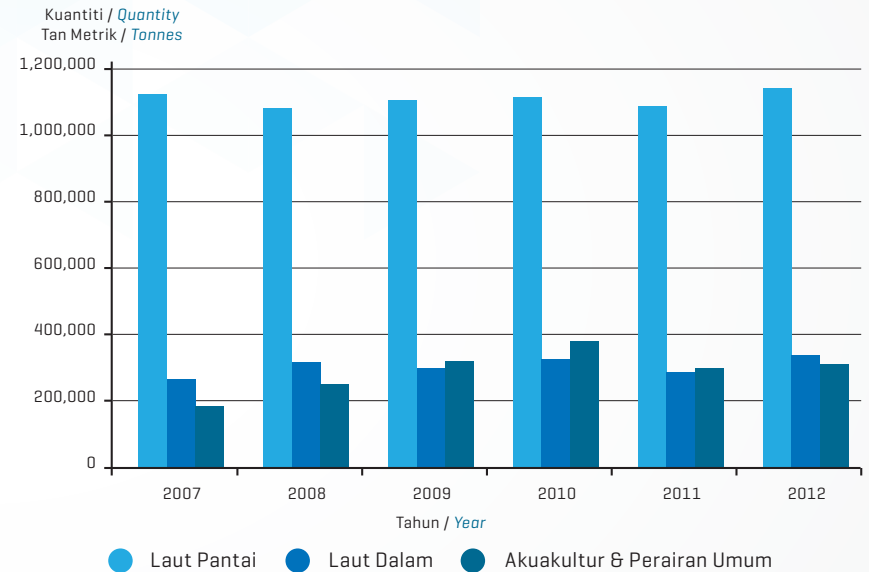
MALAYSIA
NILAI PENGELUARAN SEKTOR PERIKANAN NEGARA, 2012
National Fishery Sector Production Value, 2012



CARTA II
Chart II

MALAYSIA
PENGELUARAN IKAN MAKANAN NEGARA, 2007 – 2012
National Food Fish Production, 2007 – 2012

IKAN MAKAN / *Food Fish*
Tidak termasuk Ikan Hiasan, Rumpai Laut & Tumbuhan Akuatik
Excluding Ornamental Fish, Seaweed & Aquatic Plants



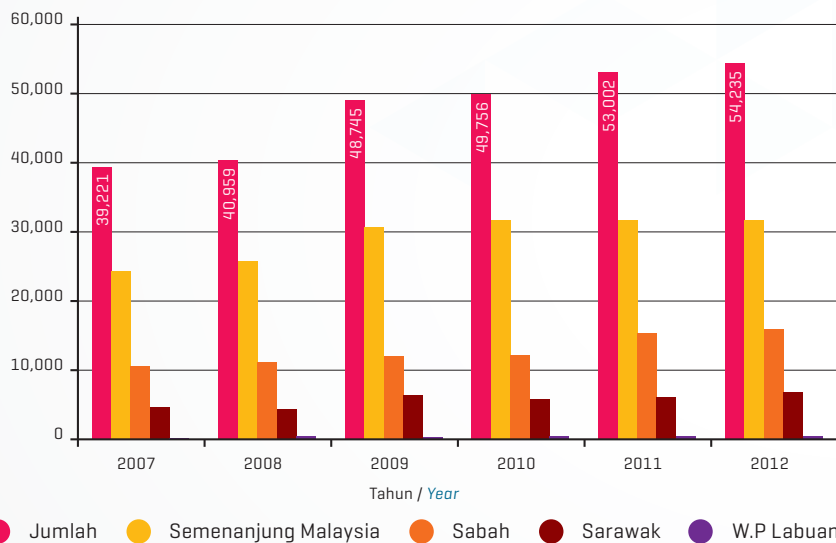
- LAUT DALAM
- PERAIRAN UMUM
- AKUAKULTUR AIR TAWAR
- TUMBUHAN AKUATIK

- AKUAKULTUR AIR PAYAU
- RUMPAI LAUT
- IKAN HIASAN
- LAUT PANTAI

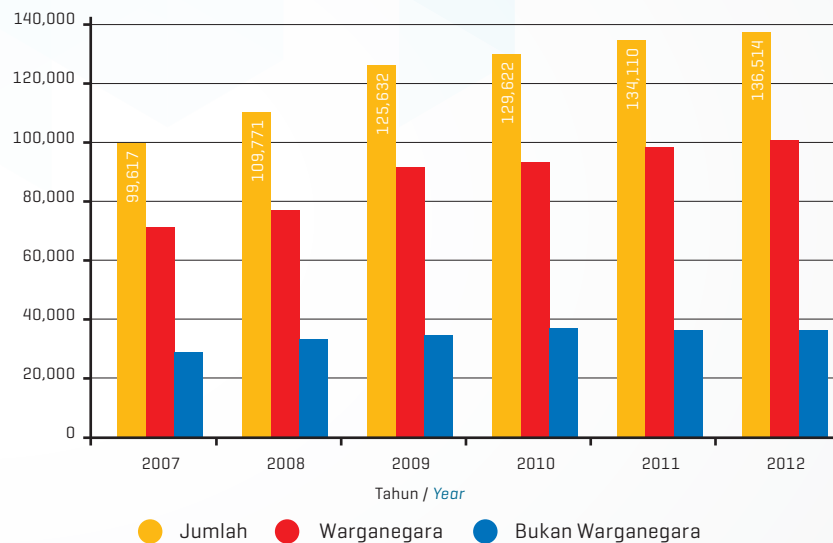
MALAYSIA
BILANGAN VESEL PENANGKAPAN IKAN YANG DILESENKAN, 2007 – 2012
Number Of Fishing Vessels Licensed, 2007 – 2012

MALAYSIA
BILANGAN NELAYAN YANG BERKERJA DI ATAS VESEL PENANGKAPAN IKAN YANG DILESENKAN, 2007 – 2012
Number Of Fishermen Working On Licensed Fishing Vessels, 2007 – 2012

Bilangan Vesel
Number of vessels

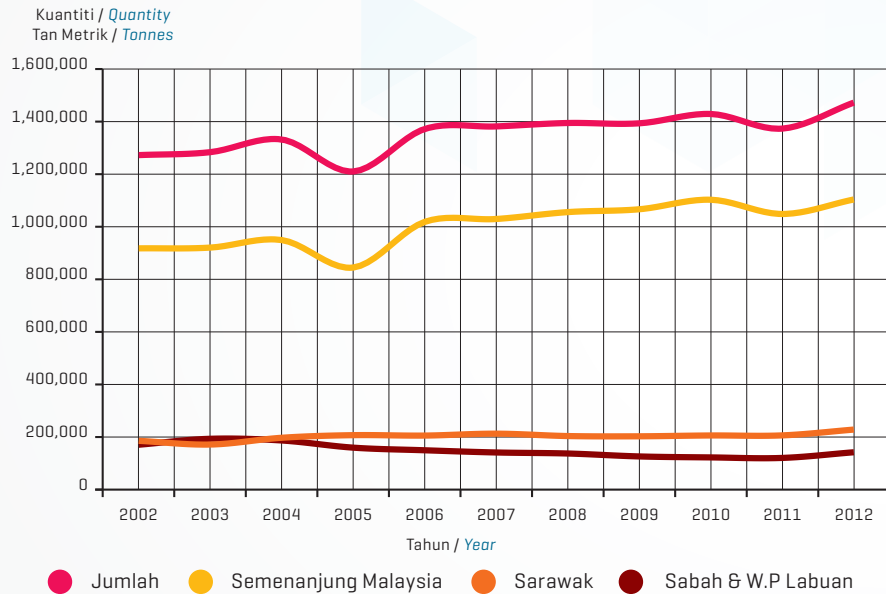


Bilangan Nelayan
Number of Fishermen



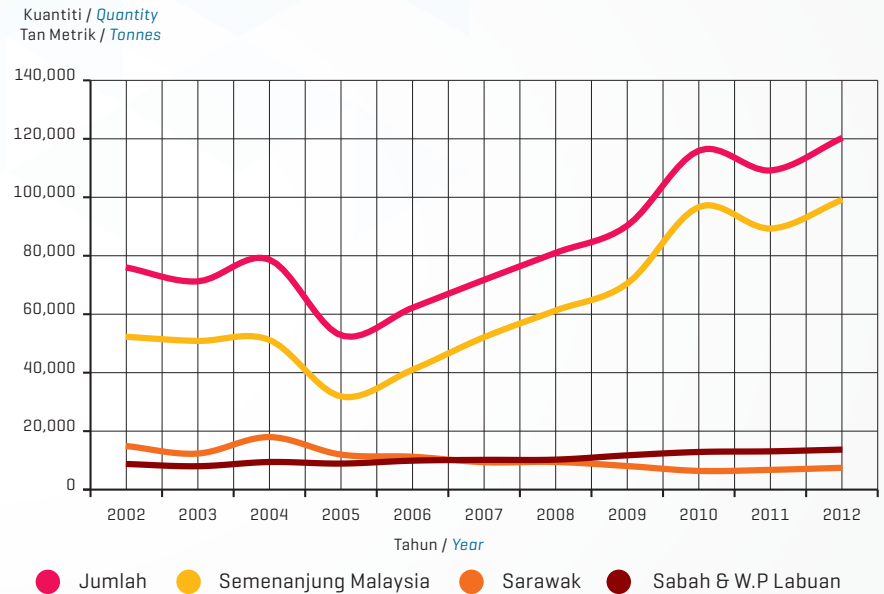
CARTA V
Chart V

MALAYSIA
ARAH ALIRAN PENDARATAN IKAN LAUT, 2002 - 2012
Trend Of Marine Fish Landings, 2002 - 2012



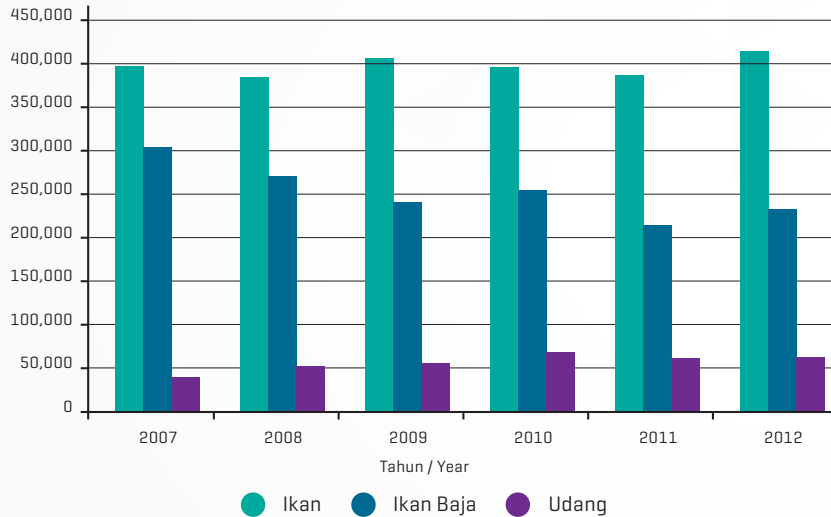
CARTA VI
Chart VI

MALAYSIA
ARAH ALIRAN PENDARATAN UDANG, 2002 - 2012
Trend Of Prawn Landings, 2002 - 2012

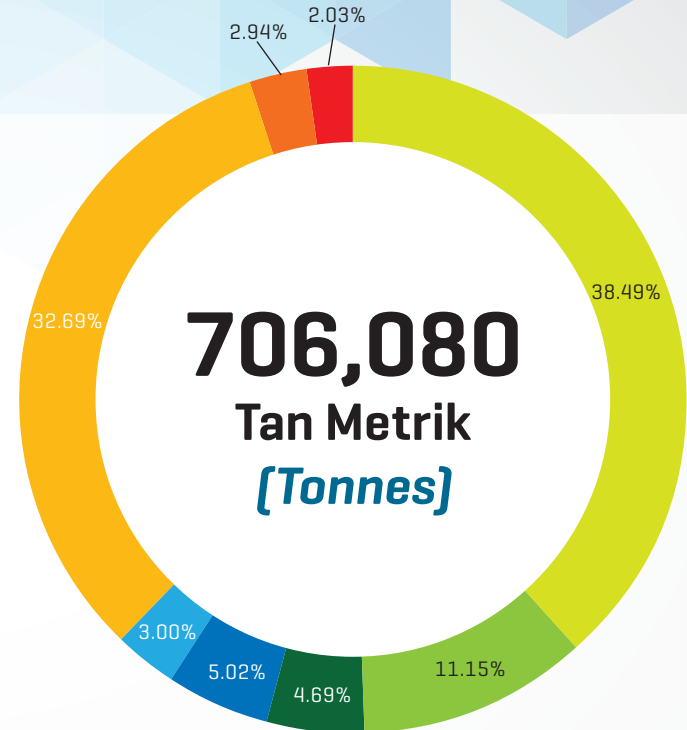


MALAYSIA
PENDARATAN PUKAT TUNDA, 2007 - 2012
Trawl Landings, 2007 - 2012

Kuantiti / *Quantity*
Tan Metrik / *Tonnes*



MALAYSIA
PENDARATAN PUKAT TUNDA MENGIKUT SPESIES UTAMA, 2012
Trawl Fish Landings By Main Species, 2012



LAIN-LAIN / *Others*

SOTONG / *Squid*

MENGERONG / *Lizard Fish*

KERISI / *Threadfin Bream*

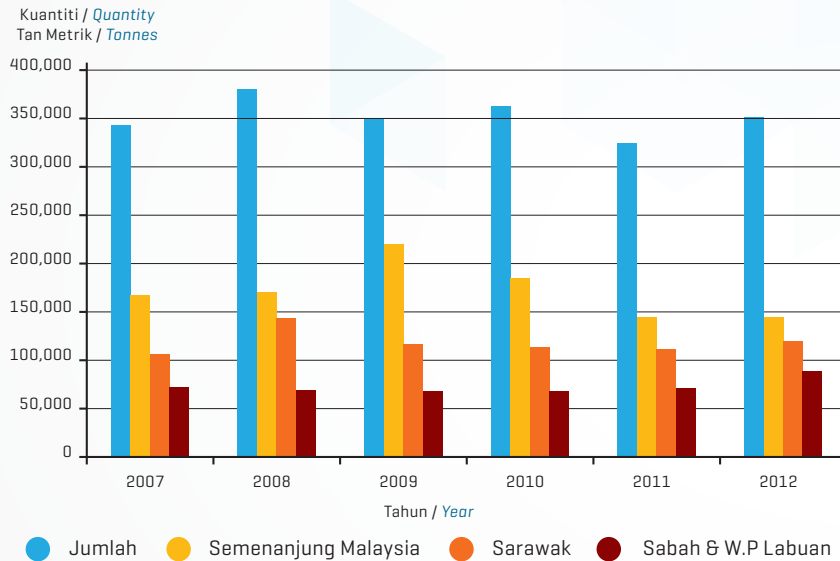
TEMENONG / *Purple-Spotted Bigeye*

IKAN BAJA / *Trash Fish*

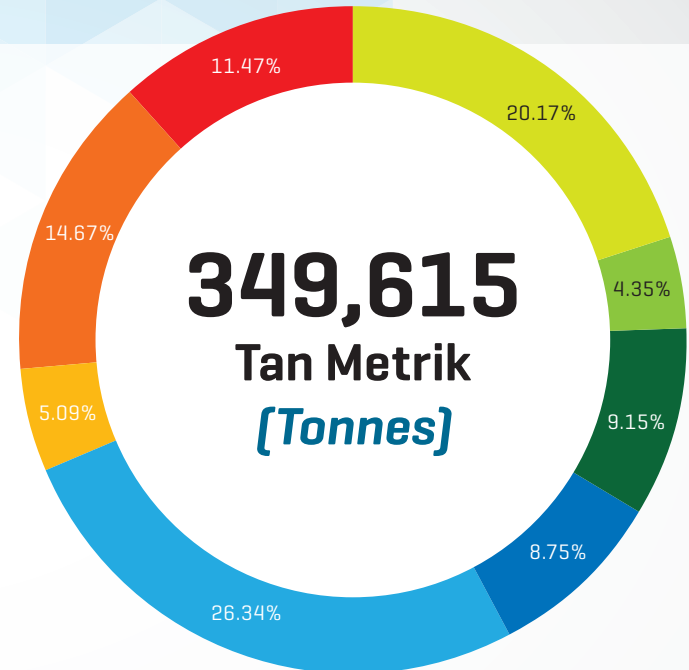
GELAMA / *Jewfish*

KEMBONG / *Indian Mackerel*

MALAYSIA
PENDARATAN PUKAT JERUT, 2007 – 2012
Purse Seine Landings, 2007 – 2012



MALAYSIA
PENDARATAN PUKAT JERUT IKAN MENGIKUT SPESIS UTAMA, 2012
Purse Seine Landings By Main Species, 2012

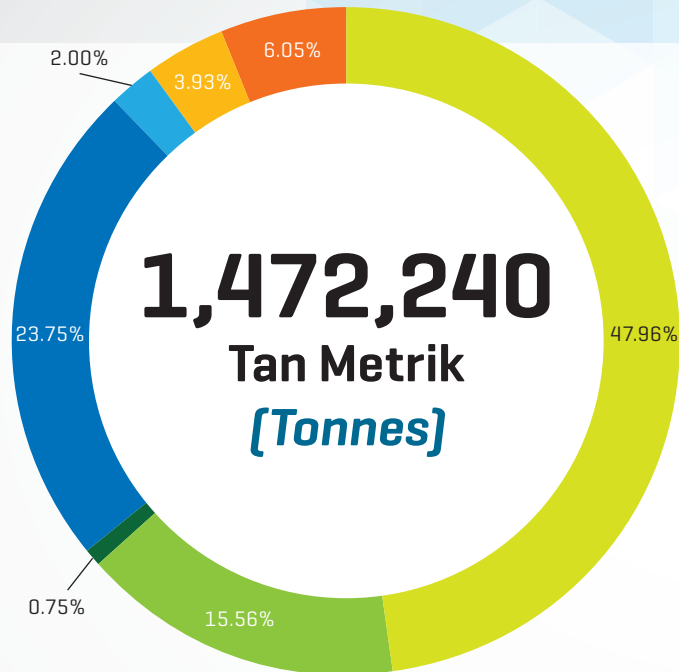


- LAIN-LAIN / *Others*
- LOLONG / *Ex-eye Scad*
- TAMBAK / *Sardine*
- PELALING / TEMENONG / *Short Mackerel*
- SELAYANG / *Round Scad*
- IKAN BAJA / *Trash Fish*
- AYA / TONGKOL / *Tuna*
- KEMBONG / *Indian Mackerel*

CARTA XI
Chart XI

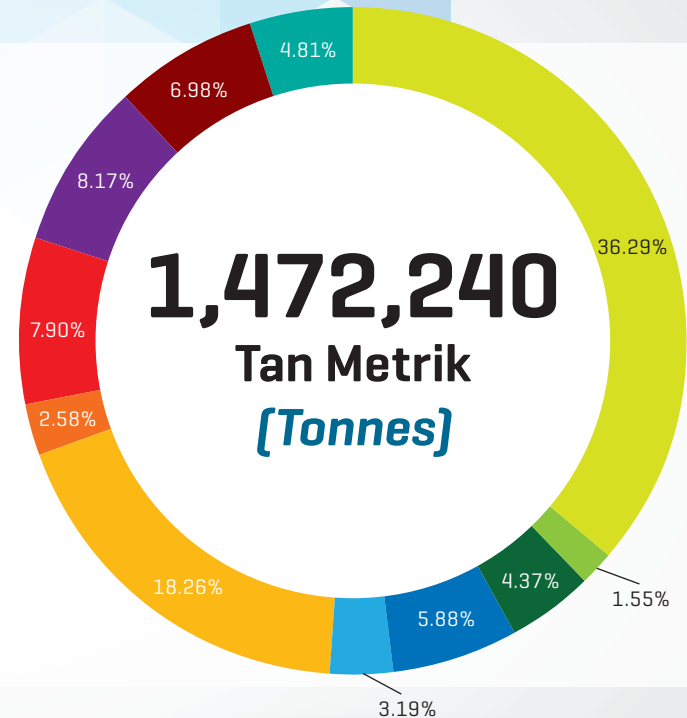
CARTA XII
Chart XII

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT PERALATAN MENANGKAP IKAN, 2012
Landings Marine Fish By Fishing Gear Group, 2012



- PUKAT TUNDA / Trawl Nets
- PUKAT BAKUL / Bag Nets
- PUKAT HANYUT / Gill / Drift Nets
- PANCING / Hooks & Lines
- PUKAT JERUT BILIS / Anchovy Purse Seine
- LAIN-LAIN / Others
- PUKAT JERUT IKAN / Fish Purse Seine

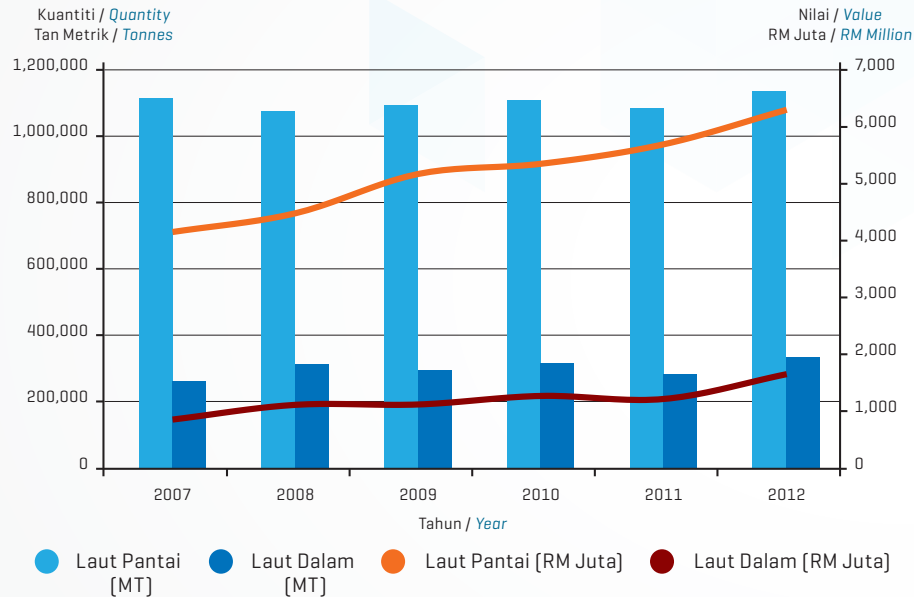
MALAYSIA
PENDARATAN MENGIKUT SPESIS UTAMA, 2012
Landings By Main Species, 2012



- LAIN-LAIN / Others
- GELAMA / TENGKERONG / Tiger Tooth Croaker
- CINCARU / Hardtail Scad
- AYA / TONGKOL / Tuna
- SOTONG / Squids
- UDANG / Prawn
- KERISI / Threadfin Bream
- KEMBONG / Indian Mackerel
- IKAN BAJA / Trash Fish
- PELALING / TEMENONG / Short Mackerel
- SELAYANG / Round Scad

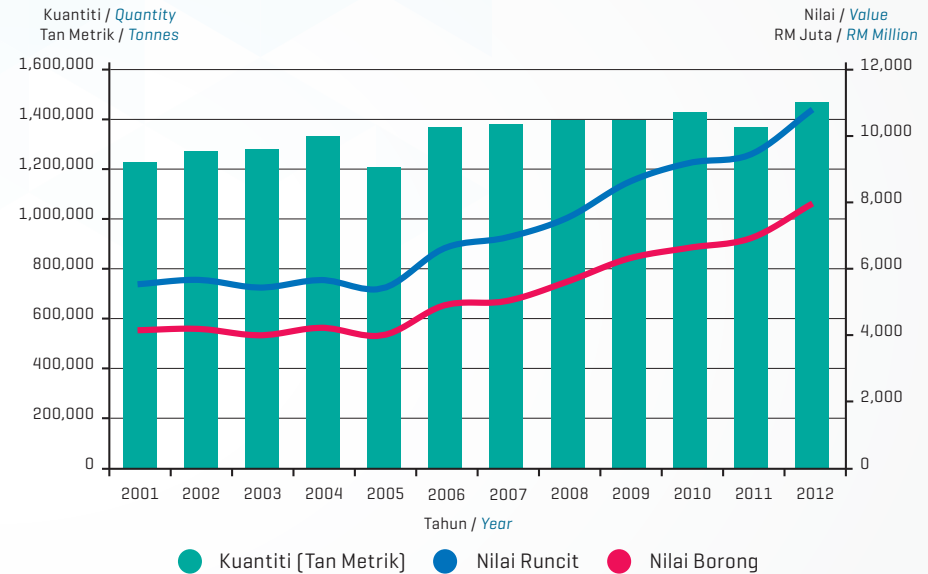
CARTA XIII
Chart XIII

MALAYSIA
ANGGARAN PENDARATAN & NILAI, LAUT PANTAI DAN LAUT DALAM, 2007 - 2012
Estimated Landings And Value Of Inshore and Deep Sea Fisheries, 2007 - 2012



CARTA XIV
Chart XIV

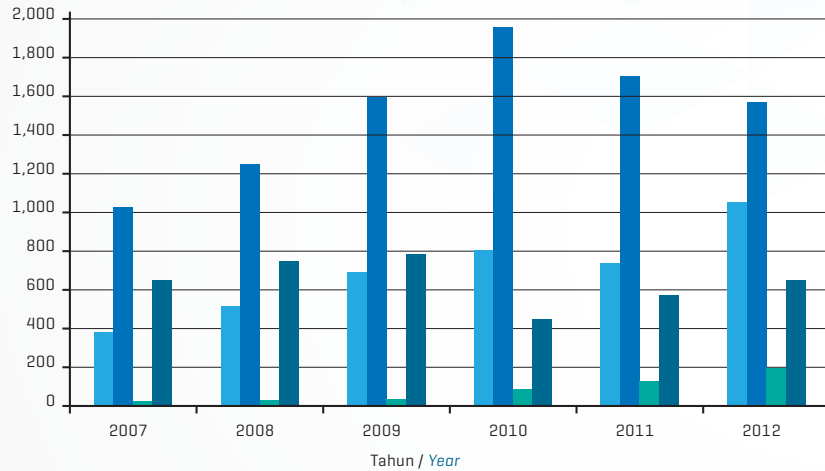
MALAYSIA
ARAH ALIRAN PENDARATAN DAN NILAI PASARAN IKAN LAUT, 2001 - 2012
Trend Of Landing and Market Value Of Marine Fish, 2001 - 2012



CARTA XV
Chart XV

MALAYSIA
NILAI SUB-SEKTOR AKUAKULTUR, 2007 - 2012
Value Of Aquaculture Sub Sector, 2007 - 2012

Kuantiti / Quantity
Tan Metrik / Tonnes



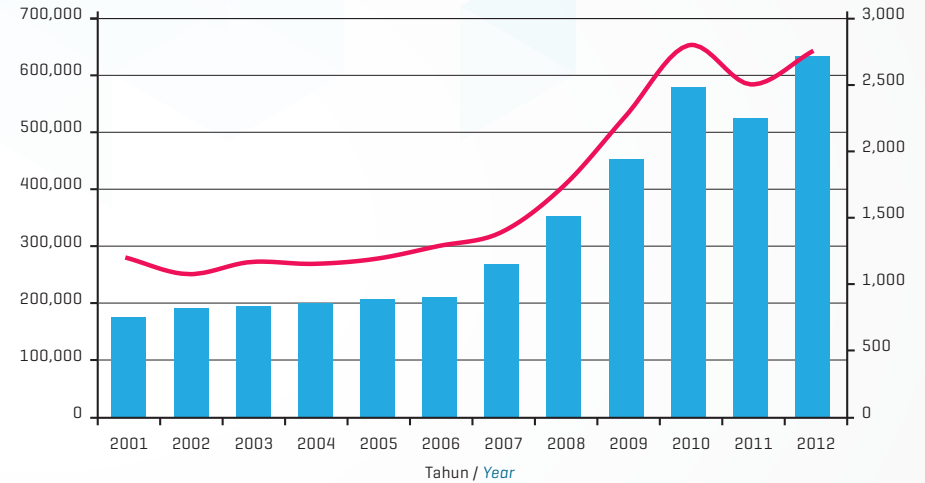
● Air Tawar & perairan Umum ● Air Payau
● Rumpai Laut / Seaweed ● Ikan Hiasan & Tumbuhan Akuatik

CARTA XVI
Chart XVI

MALAYSIA
ANGGARAN PENGELUARAN DAN NILAI AKUAKULTUR, 2001 - 2012
Estimated Production And Aquaculture Value , 2001 - 2012

Kuantiti / Quantity
Tan Metrik / Tonnes

Nilai / Value
RM Juta / RM Million



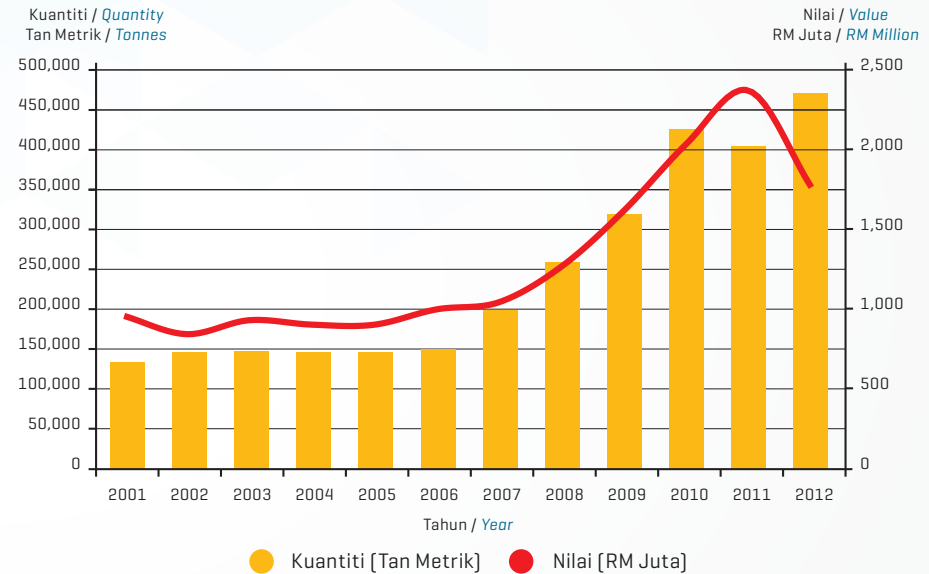
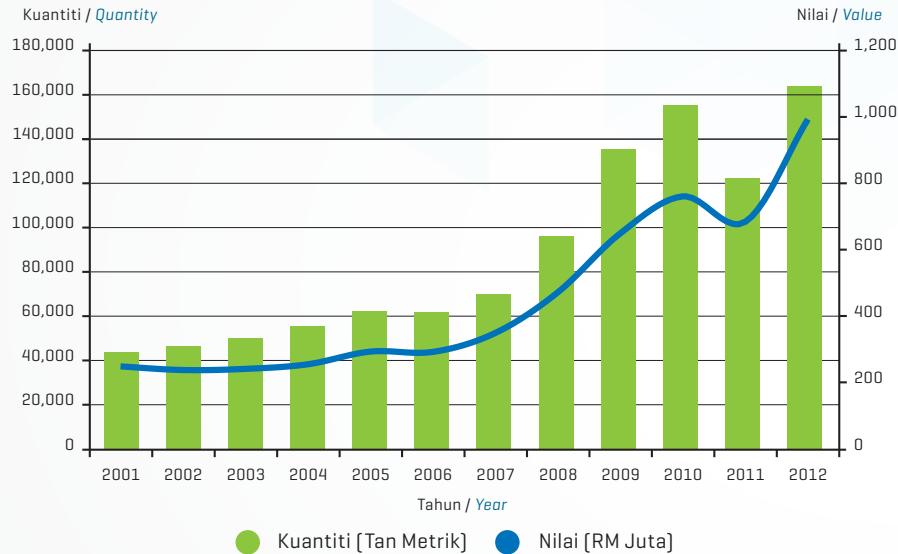
● Kuantiti (Tan Metrik) ● Nilai (RM Juta)

CARTA XVII
Chart XVII

CARTA XVIII
Chart XVIII

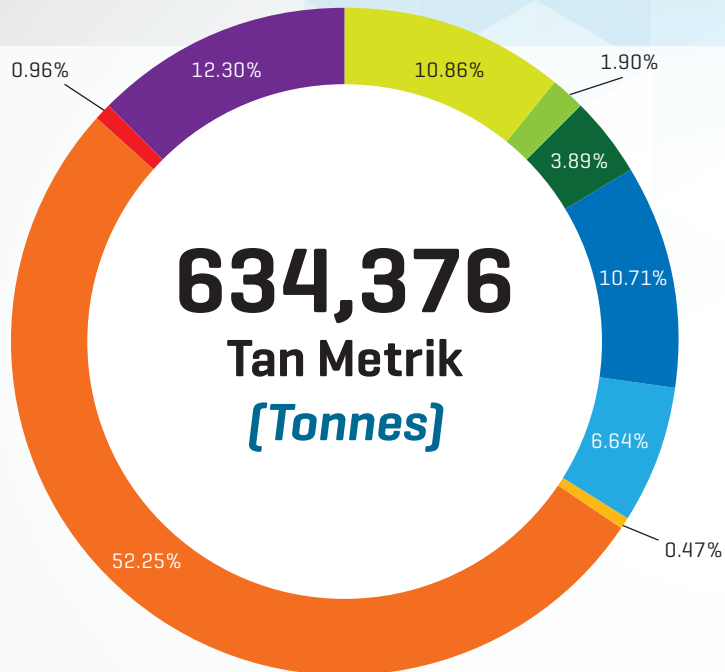
MALAYSIA
ANGGARAN PENGELUARAN DAN NILAI IKAN AIR TAWAR DARIPADA SEMUA
SISTEM AKUAKULTUR AIR TAWAR, 2001 - 2012
Estimated Production And Value Of Freshwater Fish From All Freshwater
Aquaculture System, 2001 - 2012

MALAYSIA
ANGGARAN PENGELUARAN DAN NILAI IKAN AIR PAYAU DARIPADA SEMUA
SISTEM AKUAKULTUR AIR PAYAU, 2001 - 2012
Estimated Production And Value Of Brackishwater Fish From All
Brackishwater Aquaculture System, 2001 - 2012



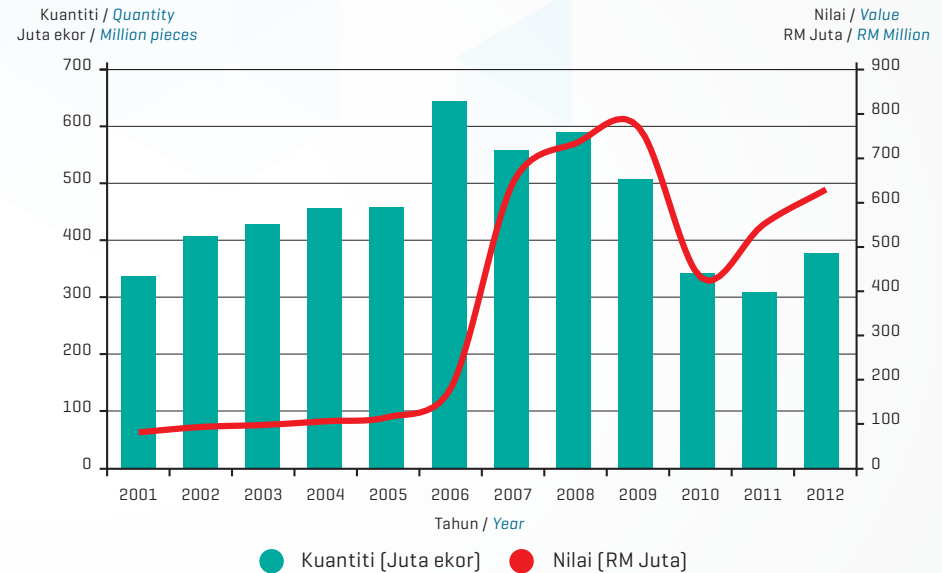
CARTA XIX
Chart XIX

MALAYSIA
PENGELUARAN AKUAKULTUR MENGIKUT SISTEM TERNAKAN, 2012
Aquaculture Production By Culture Systems, 2012



CARTA XX
Chart XX

MALAYSIA
ANGGARAN PENGELUARAN DAN NILAI IKAN HIASAN, 2001 - 2012
Estimated Production And Value Of Ornamental Fish, 2001 - 2012



- KOLAM AIR PAYAU / *Brackishwater Pond*
- SANGKAR AIR TAWAR / *Freshwater Cage*
- SANGKAR AIR PAYAU / *Brackishwater Cage*
- BEKAS LOMBONG / *Ex-Mining Pool*
- KERANG / *Cockle*
- SIPUT SUDU/TIRAM / *Mussel / Oyster*
- RUMPAI LAUT / *Seaweed*
- TANGKI AIR TAWAR / PAYAU / *Freshwater/ Brackishwater Tank*
- KOLAM AIR TAWAR / *Freshwater Pond*

RM10.00



Diterbitkan oleh
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