

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**



This Annual Fisheries Statistics Book (Volume 1) contains several sections covering data and information concerning the fishing industry in Malaysia.

These 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 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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KEDUDUKAN SEKTOR PERIKANAN DI MALAYSIA 2011

STATUS OF THE FISHERIES SECTOR IN MALAYSIA, 2011

1 PROFIL PERIKANAN

Pada tahun 2011, sektor perikanan negara telah menyumbang sebanyak RM10,620.97 juta iaitu meningkat sebanyak 6.85% berbanding tahun 2010. Sektor perikanan makanan yang merangkumi perikanan tangkapan marin, perikanan darat dan akuakultur (*tidak termasuk rumpai laut*) telah menghasilkan pengeluaran ikan makan sebanyak 1,665,856.77 tan metrik bernilai RM9,379.94 juta, iaitu menurun sebanyak 7.79% dan 0.34% masing-masing dari segi kuantiti dan nilai berbanding tahun 2010. Manakala sektor perikanan bukan makanan yang merangkumi rumpai laut, ikan hiasan dan tumbuhan akuatik telah menyumbang sebanyak RM690.30 juta, iaitu meningkat sebanyak 30.75% berbanding tahun 2010. Dalam tahun yang sama, sektor perikanan telah menyumbang sebanyak 1.1% kepada KDNK* negara.

Subsektor perikanan tangkapan marin yang merangkumi laut pantai dan laut dalam, masih menjadi penyumbang terbesar iaitu sebanyak 1,373,105 tan metrik (82.43%), bernilai RM6,939.47 juta (73.98%), iaitu menurun sebanyak 3.90% dari segi kuantiti dan meningkat sebanyak 4.32% dari segi nilai berbanding tahun 2010. Namun begitu, sumbangan ini telah melebihi sasaran 1,356.6 tan metrik dengan nilai RM6,805 juta seperti yang ditetapkan dibawah Dasar Agromakanan Negara bagi tahun 2011.

1 Fisheries Profile

In the year 2011, the fisheries sector, comprising of Food fish and Non-Food fish, contributed RM10,620.97 million, an increase of 6.85% compared to 2010. The Food fish sector which comprises of marine capture fisheries, inland fisheries and aquaculture (excluding seaweed) produced 1,665,856.77 tonnes with a value of RM9,379.94 million, signifying a decrease of 7.79% and 0.34% respectively in terms of quantity and value compared to 2010. For the Non-Food fish sector, seaweeds, ornamental fish and aquatic plants contributed RM690.30 million, an increase of 30.75% compared to 2010. Fish production from the fisheries sector contributed 1.1% to the GDP in the year 2011.*

Marine capture fisheries sub-sector comprising of inshore and deep-sea fisheries is still the major contributor producing 1,373,105 tonnes (82.43%), valued at RM6,939.47 million (73.98%) respectively decreasing by 3.90% in terms of quantity and 4.32% increase in terms of value compared to 2010. Nonetheless, 2011 contribution have exceeded the target of 1,356.6 tonnes and RM6,805 million set under the National Agro-Food Policy for 2011.

Subsektor akuakultur (tidak termasuk rumput laut) telah menyumbang sebanyak 287,057.41 tan metrik (17.23%) yang bernilai RM2,385.64 juta (25.43%). Berbanding tahun 2010, subsektor ini telah mencatatkan penurunan sebanyak 23.07% dan 12.45% dari segi kuantiti dan nilai.

Bagi sektor perikanan bukan makanan, subsektor ikan hiasan merupakan penyumbang terbesar dengan nilai RM549.75 juta (79.64%), diikuti rumput laut RM119.73 juta (17.34%) dan tumbuhan akuatik RM20.82 juta (3.02%). Nilai sumbangan ketiga-tiga sub sektor ini telah meningkat sebanyak 27.76%, 43.98% dan 43.88% masing-masing berbanding tahun 2010.

Dari segi tenaga kerja, sektor perikanan mencatatkan seramai 134,110 orang nelayan yang bekerja di atas vesel berlesen dan 28,599 orang penternak ikan terlibat dalam pelbagai sistem akuakultur. Pada tahun 2011, jumlah vesel penangkapan ikan yang berlesen ialah 53,002 unit yang kebanyakannya mengusahakan peralatan menangkap ikan tradisional.

* Keluaran Dalam Negara Kasar Perikanan adalah RM7,822 juta pada Harga Malar 2005 (Akaun Negara Keluaran Dalam Negara Kasar (KDNK), Suku Pertama 2012, muka surat 50 & 62)



Aquaculture sub-sector (excluding seaweeds) recorded a decline of 23.07% and 12.45% respectively in terms of quantity and value compared to 2010. In the year 2011, this sub-sector produces 287,057.41 tonnes (17.23%) of fish valued at RM2,385.64 million (25.43%).

In the Non-Food fish sector, ornamental fish sub sector was the major contributor with a value of RM549.75 million (79.64%), followed by seaweed, RM119.73 million (17.34%) and aquatic plants RM20.82 million (3.02%). The value contributed from this three sub sector has increased by 27.76%, 43.98% and 43.88% respectively compared to 2010.

The workforce of the fisheries sector consisted of 134,110 fishermen working on licensed fishing vessels and 28,599 fish culturists engaging in various aquaculture systems. A total of 53,002 units of fishing vessels were licensed in 2011 with the majority operating traditional fishing gears.



Pengeluaran dan Nilai Sektor Perikanan, Malaysia, 2011
Production and Value of Fisheries Sector, Malaysia, 2011

Sektor Perikanan Fisheries Sector		2010		2011		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
Ikan Makanan Food Fish	Perikanan Tangkapan Marin Marine Capture Fisheries	1,428,881	6,651.89	1,373,105	6,939.47	-3.90	+4.32
	Laut Pantai (Inshore)	1,108,897	5,362.97	1,085,965	5,704.65	-2.07	+6.37
	Laut Dalam (Deep Sea)	319,984	1,288.92	287,140	1,234.82	-10.26	-4.20
	Akuakultur (Aquaculture)	373,156.00	2,715.58	287,057.41	2,385.64	-23.07	-12.15
	Air Tawar (Freshwater)	155,398.63	760.34	122,218.73	684.15	-21.35	-10.02
	Air Payau / Marine (Brackishwater)	217,757.37	1,955.24	164,838.68	1,701.49	-24.30	-12.98
	Perairan Umum (Public Water Bodies)	4,605.43	44.67	5,694.36	54.83	+23.64	+22.74
	Jumlah Ikan Makan Total Food Fish	1,806,642.43	9,412.14	1,665,856.77	9,379.94	-7.83	-0.34
Bukan Makanan Non Food Fish	Rumpai Laut (Seaweed)	207,892.40	83.16	239,450.00	119.73	+15.18	+43.98
	Ikan Hiasan (Ornamental Fish)	341,757,064*	430.31	308,351,014*	549.75	-9.77	+27.76
	Tumbuhan Akuatik (Aquatic Plants)	143,651,684**	14.47	187,948,329**	20.82	+30.84	+43.88
	Jumlah Bukan Makanan Total Non Food Fish	na	527.94	na	690.30	na	+30.75
Jumlah Besar (Grand Total)		na	9,940.08	na	10,070.24	na	+6.85

* Kuantiti Dalam Ekor, (Quantity in Pieces) ; ** Kuantiti Dalam Ikut (Quantity in Bundles)

2. PERIKANAN TANGKAPAN MARIN

2.1 Nelayan

Sejumlah 134,110 orang nelayan telah direkodkan bekerja di atas vesel penangkapan ikan yang berlesen pada tahun 2011 berbanding dengan 129,622 orang pada tahun 2010, iaitu meningkat sebanyak 3.46%.

Dari jumlah ini, seramai 98,135 orang adalah nelayan tempatan manakala 35,975 orang adalah nelayan asing (bukan warganegara Malaysia) yang kebanyakannya terdiri daripada rakyat Thailand, Vietnam dan Indonesia. Bilangan nelayan tempatan meningkat sebanyak 5.46% dari 93,056 orang pada tahun 2010. Manakala bilangan nelayan asing telah menurun sedikit sebanyak 1.62% berbanding 36,566 pada tahun 2010 disebabkan oleh pengurangan bilangan vesel Zon C2 berikutan program audit yang telah dijalankan.

Dari jumlah nelayan tersebut, seramai 53,564 (39.94%) orang bekerja di atas vesel komersial iaitu menggunakan peralatan pukot tunda, pukot jerut ikan dan pukot jerut bilis, manakala selebihnya berjumlah 80,546 orang (60.06%) bekerja di atas vesel yang menggunakan peralatan menangkap ikan tradisional.

2. MARINE CAPTURE FISHERIES

2.1 Fishermen.

A total of 134,110 fishermen were recorded working on licensed fishing vessels in 2011 compared with 129,622 in 2010, increasing by 3.46%.

Out of this total, 98,135 were local fishermen while 35,975 were foreign fishermen (non Malaysian citizens) from Thailand, Vietnam and Indonesia. The number of local fishermen has increased by 5.46% from 93,056 in 2010. Meanwhile, the number of foreign fishermen recorded a slight decrease by 1.62% from 36,566 in 2010 because of the auditing programme conducted, resulting in the reduction of C2 vessels units.

A total of 53,564 (39.94%) fishermen worked on board commercial fishing vessels using trawl, fish purse seine and anchovies purse seine nets while the remaining 80,546 (60.06%) worked on board traditional fishing gear vessels.

2.2 Vesel Penangkapan Ikan

2.2 Fishing Vessels

Bilangan Vesel Mengikut Zon, 2010 dan 2011
Number of Vessels by Zone, 2010 and 2011

Tahun Year	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)		
2010	40,800 (83.41%)	5,119 (10.47%)	1,752 (3.52%)	843 (1.69%)	48,514	1,242 (2.50%)	1,242	49,756
2011	44,210 (84.76%)	5,023 (9.63%)	1,837 (3.47%)	843 (1.59%)	51,913	1,089 (2.05%)	1,089	53,002

Pada keseluruhannya bilangan vesel penangkapan ikan yang berlesen di Malaysia adalah sebanyak 53,002 buah pada tahun 2011 berbanding dengan 49,756 buah pada tahun 2010, iaitu meningkat sebanyak 6.52%.

On the whole, the number of licensed fishing vessels in Malaysia has increased by 6.52% from 49,756 units in 2010 to 53,002 units in 2011.

Semenanjung Malaysia mencatatkan bilangan sebanyak 31,474 buah pada tahun 2011 iaitu 59.38% dari keseluruhan bilangan vesel. Pantai Barat mencatatkan sebanyak 21,914 buah, iaitu sebanyak 69.63% dari keseluruhan bilangan vesel Semenanjung Malaysia, manakala Pantai Timur mencatatkan 30.37% iaitu sebanyak 9,560 buah. Di Pantai Barat, Negeri Perak mencatatkan bilangan vesel yang paling banyak iaitu berjumlah 5,550 buah (25.33%), manakala di Pantai Timur pula, Negeri Terengganu mencatatkan bilangan vesel terbanyak iaitu 3,078 buah (32.20%).

Peninsular Malaysia has 31,474 units in 2011 which accounts for 59.38% of the total nation's fishing fleet. Of this total, West Coast has 21,914 units contributing 69.63% of the total vessels in Peninsular Malaysia, while East Coast recorded 30.37% of the total vessels with 9,560 units. In the West Coast, the bulk of the fishing vessels were from the state of Perak which recorded 5,550 units (25.33%) while the state of Terengganu recorded the highest number of fishing vessels in the East Coast with 3,078 units (32.20%).

Negeri Sabah, Sarawak dan Wilayah Persekutuan Labuan mencatatkan bilangan vesel sebanyak 21,528 buah iaitu merangkumi 40.62% daripada jumlah keseluruhan vesel di Malaysia di mana ia telah menunjukkan peningkatan sebanyak 18.52% berbanding tahun 2010 yang mencatatkan sebanyak 18,164 buah sahaja. Bilangan vesel yang tertinggi didapati di negeri Sabah sebanyak 15,217 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 dan bilangannya adalah kecil berbanding vesel penangkapan ikan laut pantai yang berjumlah 51,913 buah. Pada tahun 2011 sebanyak 1,089 buah vesel telah dilesenkan iaitu menurun sebanyak 12.32% daripada 1,242 buah pada tahun 2010. Bilangan vesel laut dalam ini tidak termasuk vesel-vesel 70 GRT ke atas yang dilesenkan untuk vesel pukot jerut bilis, vesel masak bilis dan vesel pembawa ikan.

A total of 21,528 units of licensed fishing vessels were recorded from the states of Sabah, Sarawak and Wilayah Persekutuan Labuan which contributes to 40.62% of the total fishing fleet in Malaysia. This total indicate an increase of 18.52% compared to 18,164 units recorded in 2010 with Sabah recording the highest number with 15,217 units.

Deep-sea fishing vessels are fishing vessel of size 70GRT and above which is licensed to fish in waters beyond 30 nautical miles from the shore until the Exclusive Economic Zone boundary and their numbers are small compared to 51,913 units of licensed inshore fishing vessels. In 2011, only 1,089 units of licensed deep-sea fishing vessels are recorded, a reduction of 12.32% from 1,242 units in 2010. This figure do not include licensed anchovy purse seiner, anchovy processing vessels and fish carrier.

Bilangan vesel Zon A iaitu 44,210 buah, menjadi penyumbang tertinggi dari segi komposisi berbanding zon-zon lain iaitu 84.76% dan menunjukkan peningkatan sebanyak 8.36% berbanding 40,800 buah pada tahun 2010. Vesel tersebut termasuk pukat jerut bilis sebanyak 135 buah yang merangkumi pelbagai muatan sehingga melebihi 70 GRT dan sampan sebanyak 35,760 buah tidak termasuk sampan pembawa ikan.

Terdapat juga kategori vesel-vesel lain yang mengandungi pelbagai muatan sebanyak 843 buah untuk menunggu peranti pengumpul ikan (MPPI), sistem kultur laut (SKL), pembawa ikan dan masak bilis.

2.3 Peralatan Menangkap Ikan

Pada tahun 2011, bilangan peralatan menangkap ikan yang berlesen meningkat 6.67% kepada 51,892 unit daripada 48,645 unit pada tahun 2010.

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

The number of vessels in Zone A showed the highest contribution of 84.76% (44,210 units) compared to the other zones, increasing by 8.36% from 40,800 units in 2010. These vessels include 135 units of fish purse seines of various tonnage till 70 GRT and above, 35,760 units of outboard fishing vessels but does not include fish carriers.

There are also other category of vessels which consist of various tonnage for fish aggregating device, marine culture system, fish carrier and anchovy boiler/carrier which accounted for 843 units.

2.3 Fishing Gears

The number of fishing gear licences issued in 2011 increased by 6.67% to 51,892 units from 48,645 units in 2010.

The main factor which attributed to the difference in the number of licensed fishing vessels and licensed fishing gears is because there are licensed vessels without any licence to operate any fishing gear. For instance, there are vessels used for fish aggregating device, marine culture system, anchovy boiler / carrier and fish carrier which amounted to 843 units. At the

yang berjumlah 843 buah. Pada masa yang sama, terdapat juga dua vesel dilesenkan untuk menggunakan satu lesen peralatan menangkap ikan sahaja iaitu vesel kenka dua bot.

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 melepasi 30 batu nautika dari pantai.

same time, there are also two (2) fishing vessels licensed to operate only one fishing gear as in the case of the vessel kenka two-boat.

2.4 Marine Fish Landings

The fisheries resources in the Malaysian waters are divided into two (2) categories namely, the inshore and deep-sea resources based on the areas where the resources are exploited. The inshore waters constitute waters less than 30 nautical miles from the shore while the areas beyond 30 nautical miles made up the deep-sea areas.

Sumbangan perikanan tangkapan kepada Ikan Makan Negara, Tahun 2011
Contribution of Capture Fishery to National Fish Food 2011

Perikanan Tangkapan Marin <i>Marine Capture Fisheries</i>		Sumbangan <i>Contribution (%)</i>
Laut Pantai / <i>Inshore Fishery</i>		
Kuantiti / <i>Quantity</i> (Tan Metrik / <i>tonnes</i>)	:1,085,965	65.19
Nilai / <i>Value</i> (RM juta / <i>million</i>)	: 5,704.65	60.58
Laut Dalam / <i>Deep-sea Fishery</i>		
Kuantiti / <i>Quantity</i> (Tan Metrik / <i>tonnes</i>)	: 287,140	17.24
Nilai / <i>Value</i> (RM juta / <i>million</i>)	: 1,234.82	13.16



Pendaratan dari laut pantai telah menyumbang sebanyak 65.19% dari segi kuantiti dan 60.82% dari segi nilai kepada perikanan makanan negara. Manakala laut dalam menyumbang sebanyak 17.24% dari segi kuantiti dan 13.16% dari segi nilai kepada perikanan makanan negara.

Pada tahun 2011, pendaratan ikan marin mengalami sedikit penurunan dan mencatatkan pendaratan sebanyak 1,373,105 tan metrik, menurun 3.9% berbanding dengan 1,428,881 tan metrik pada tahun 2010.

Sektor laut pantai telah menurun sebanyak 2.07% dari 1,108,897 tan metrik pada tahun 2010 kepada 1,085,965 tan metrik pada tahun 2011. Manakala, pendaratan ikan marin laut dalam juga menurun sebanyak 10.26% dari 319,984 tan metrik pada 2010 kepada 287,140 tan metrik pada tahun 2011.

Pendaratan ikan marin merangkumi ikan pelagik sebanyak 38.68% iaitu 531,180 tan metrik, 21.62% ikan demersal iaitu 296,871 tan metrik dan 39.70% moluska, krustasia dan lain-lain iaitu 545,054 tan metrik.

Inshore fisheries contributed 65.19% and 60.82% in terms of quantity and value respectively to the national food fish sector. Meanwhile, the deep-sea fisheries contributed 17.24% in terms of quantity and 13.16% in terms of value to the national fish food sector.

In the year 2011, the total marine landings decreased by 3.9% which amounted to 1,373,105 tonnes as compared with 1,428,881 tonnes in 2010.

The inshore landings decreased by 2.07% from 1,108,897 tonnes in 2010 to 1,085,965 tonnes in 2011. Landings from the deep-sea fisheries sector also recorded a decrease of 10.26% from 319,984 tonnes in 2010 to 287,140 tonnes in 2011.

The total marine landings consisted of 38.68% pelagic fish amounting to 531,180 tonnes, 21.62% demersal fish amounting to 296,871 tonnes and 39.70% molluscs, crustacean and others which contributed 545,054 tonnes.

Pendaratan dan nilai ikan marin mengikut negeri untuk tahun 2011 adalah seperti di Jadual.

The marine landings and values by state for the year 2011 is as in Table.

Pendaratan dan Nilai Ikan Marin Mengikut Negeri Pada Tahun 2011
(Marine Fish Landings and Values By State, 2011)

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	105,418	542.53	29,583	157.04	135,001	699.57
Kedah	77,922	454.02	8,111	45.53	86,033	499.55
Pulau Pinang	63,859	451.58	113	1.15	63,972	452.73
Perak	229,576	1,110.50	71,969	283.97	301,545	1,394.47
Selangor	107,640	366.45	325	1.75	107,965	368.20
N.Sembilan	666	9.27	-	-	666	9.27
Melaka	1,759	18.79	-	-	1,759	18.79
Johor Barat (West Johor)	28,125	296.58	-	-	28,125	296.58
Jumlah Kecil / Sub-Total	614,963	3,249.72	110,101	489.44	725,064	3,739.16
Pantai Timur (East Coast)						
Kelantan	24,230	111.53	48,166	185.34	72,396	296.87
Terengganu	52,431	369.56	12,592	58.85	65,023	428.41
Pahang	66,667	406.83	37,376	203.85	104,043	610.68
Johor Timur (East Johor)	57,550	251.29	24,065	114.40	81,615	365.69
Jumlah Kecil / Sub-Total	200,879	1,139.22	122,198	562.44	323,077	1,701.66
Semenanjung Malaysia	815,842	4,388.93	232,299	1,051.89	1,048,141	5,440.82
Sarawak	72,487	355.54	46,972	122.35	119,459	477.89
Sabah	173,432	745.36	3,513	8.00	176,945	753.36
W.P Labuan	24,204	214.82	4,357	52.58	28,561	267.40
Jumlah Kecil / Sub-Total	270,123	1,315.72	54,842	182.93	324,965	1,498.65
Malaysia	1,085,965	5,704.65	287,140	1,234.82	1,373,105	6,939.47

Pendaratan Ikan Baja, Malaysia 2007 – 2011
(Landing Of Trash Fish, Malaysia, 2007 – 2011)

Tahun <i>Year</i>	Tan Metrik <i>Tonnes</i>	Sumbangan <i>Contribution (%)</i>
2011	261,669	19.06
2010	307,439	22.39
2009	285,376	20.48
2008	316,203	22.67
2007	342,970	24.83



Pendaratan ikan baja telah menunjukkan purata penurunan sebanyak 6.20% dari tahun 2007 sehingga 2011. Sumbangan pendaratan ikan baja berbanding pendaratan ikan laut telah menurun kepada 19.06% berbanding pada tahun 2010 sebanyak 22.39%. Pendaratan ikan baja pada tahun 2011 telah menunjukkan penurunan sebanyak 14.89% (261,669 tan metrik) berbanding pendaratan ikan baja tahun 2010 (307,439 tan metrik). Penurunan yang tertinggi berlaku di negeri Pahang, iaitu menurun sebanyak 26.85%.

Di Semenanjung Malaysia, sumbangan terbesar pendaratan ikan marin sejumlah 520,163 tan metrik

Trash fish landings showed an average decline of 6.2% from year 2007 until 2011. Contribution from trash fish landings had decreased by 19.06% as compared to marine fish landings by 22.39% in 2010. In 2011, trash fish landings showed a decrease of 14.89% (261,669 tonnes) compared to the year 2010 (307,439 tonnes). The state of Pahang experienced the highest decline of 26.85%.

In Peninsular Malaysia, the bulk of the landings came from the trawlers amounting to 520,163 tonnes

adalah dari vesel pukat tunda (49.63%) diikuti oleh vesel pukat jerut ikan dan jerut bilis berjumlah 265,041 tan metrik (25.29%) dan vesel penangkapan ikan tradisional berjumlah 262,937 tan metrik (25.09%).

Dari segi kawasan di Semenanjung Malaysia, pendaratan ikan di Pantai Barat menyumbangkan sebanyak 725,064 tan metrik (69.18%) di mana negeri Perak sahaja telah menyumbangkan sebanyak 301,545 tan metrik (41.59%) diikuti oleh Perlis sebanyak 135,001 tan metrik (18.62%). Di Pantai Timur pula, negeri Pahang dan Johor Timur adalah penyumbang utama iaitu masing-masing sebanyak 104,043 tan metrik (32.20%) dan 81,615 tan metrik (25.26%).

Dari segi pendaratan oleh vesel pukat tunda di Semenanjung Malaysia, ia telah menurun sebanyak 6.32% di sebelah Pantai Barat iaitu dari 392,457 tan metrik pada tahun 2010 kepada 367,642 tan metrik pada tahun 2011. Pantai Timur juga menunjukkan penurunan sebanyak 13.81 % iaitu dari 176,958 tan metrik pada tahun 2010 kepada 152,521 tan metrik pada tahun 2011 di mana negeri Pahang menunjukkan penurunan tertinggi iaitu 27.87% kepada 62,331 tan metrik berbanding 86,417 tan metrik pada tahun 2010.

Pendaratan vesel pukat jerut ikan juga menurun 21.64% di Pantai Barat Semenanjung Malaysia iaitu dari 182,834 tan metrik pada tahun 2010 kepada 143,262 tan metrik pada tahun 2011 di mana negeri Perlis menunjukkan penurunan tertinggi iaitu 27.97%

(49.63%) followed by fish and anchovy purse seiners with 265,041 tonnes (25.29%) and vessels operating traditional fishing gears amounting to 262,937 tonnes (25.09%).

In terms of region in Peninsular Malaysia, the West Coast contributed 725,064 tonnes (69.18%) whereby the state of Perak alone produced 301,545 tonnes (41.59%) followed by Perlis which produced 135,001 tonnes (18.62%). In the East Coast, the states of Pahang and East Johore were the main contributor with 104,043 tonnes (32.20%) and 81,615 tonnes (25.26%) respectively.

In terms of landings by trawlers in Peninsular Malaysia, it was observed that there was a decrease in the landings of 6.32% on the West Coast from 392,457 tonnes in 2010 to 367,642 tonnes in 2011. The East Coast also showed a decrease of 13.81% from 176,958 tonnes in 2010 to 152,521 tonnes in 2011 where the state of Pahang showed the highest decrease of 27.87% from 86,417 tonnes in 2010 to 62,331 tonnes in 2011.

Landings from fish purse seiners recorded a decrease of 21.64% on the West Coast of Peninsular Malaysia from 182,834 tonnes in 2010 to 143,262 tonnes in 2011 where the state of Perlis showed the highest decrease of 27.97% from 78,465 tonnes in 2010 to

kepada 56,519 tan metrik berbanding 78,465 tan metrik pada tahun 2010. Pendaratan pukat jerut ikan di Pantai Timur menurun 0.99% dari 111,673 tan metrik pada tahun 2010 kepada 110,565 tan metrik pada tahun 2011. Penurunan bilangan vesel pukat jerut ikan sebanyak 14.17% dari 240 buah pada tahun 2010 kepada 206 buah pada tahun 2011. Penurunan bilangan vesel pukat jerut ikan turut berlaku di negeri Perlis sebanyak 1.52% dari 1,121 buah pada 2010 kepada 1,104 buah pada tahun 2011.

Pendaratan Tuna, Malaysia, 2011 / *Tuna Landing, Malaysia ,2011*

Pendaratan Tuna <i>Tuna Landings</i>		Sumbangan* <i>Contribution</i> %
Tuna Oceanik / <i>Oceanic Tuna</i>		
Kuantiti / <i>Quantity</i> (Tan Metrik / <i>tonnes</i>)	1,912	0.14
Nilai / <i>Value</i> (RM juta / <i>million</i>)	14.69	0.21
Tuna Neritik / <i>Neritic Tuna</i>		
Kuantiti / <i>Quantity</i> (Tan Metrik / <i>tonnes</i>)	58,210	4.23
Nilai / <i>Value</i> (RM juta / <i>million</i>)	332.46	4.79
Spesies Seakan Tuna / <i>Tuna-Like Species</i>		
Kuantiti / <i>Quantity</i> (Tan Metrik / <i>tonnes</i>)	200,882	14.63
Nilai / <i>Value</i> (RM juta / <i>million</i>)	1,218.42	12.56

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

Pada tahun 2011, sebanyak 1,912 tan metrik ikan tuna oceanik bernilai RM14.69 juta telah didaratkan. Spesies yang didaratkan adalah tuna sirip kuning, tuna mata besar dan albakor. Negeri Sabah telah menyumbangkan sebanyak 1,329 tan metrik (69.51%)

56,519 tonnes in 2011. The landings from fish purse seiners on the East Coast also showed a decline of 0.99% from 111,673 tonnes in 2010 to 110,565 tonnes in 2011. This decline was due to the reduction in the number of licensed fish purse seine vessels by 14.17% from 240 units in 2010 to 206 units in 2011. The same also occurred in the state of Perlis with a decline of 1.52% from 1,121 units in 2010 to 1,104 units in 2011.



In 2011, a total of 1,912 tonnes of oceanic tuna valued at RM14.69 million were landed. The species landed were Yellow Fin Tuna, Big Eye Tuna and Albacore Tuna. The state of Sabah contributed 1,329 tonnes (69.51%) to the total oceanic tuna landings in

kepada pendaratan ikan tuna oceanik di Malaysia. Pendaratan ikan tuna oceanik negeri Sabah pada tahun 2011 menunjukkan penurunan sebanyak 18.72% berbanding 1,635 tan metrik pada tahun 2010. Pendaratan tuna oceanik bagi negeri Pulau Pinang pula menunjukkan penurunan sebanyak 92.07% dari 1,350 tan metrik pada tahun 2010 kepada 107 tan metrik pada tahun 2011 dan hanya menyumbang sebanyak 5.60% kepada pendaratan ikan tuna oceanik di Malaysia.

Pendaratan spesies tuna neritik pada tahun 2011 adalah 58,210 tan metrik berbanding pada tahun 2010 sebanyak 57,967 tan metrik meningkat 0.42%. 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 4.24%. Pendaratan spesies seakan tuna pula adalah 200,882 tan metrik. Spesies seakan tuna di Malaysia adalah todak, layaran, mersuji, tenggiri, kembong dan pelaling/temenong. Pendaratan spesies seakan tuna telah menyumbang sebanyak 14.63% kepada pendaratan ikan marin Malaysia.

Di Semenanjung Malaysia sahaja, 77.84% daripada pendaratan ikan adalah dari laut pantai. Jumlah ini telah menurun sebanyak 3.03% dari 841,367 tan metrik pada tahun 2010 kepada 815,842 tan metrik pada tahun 2011. Sebahagian besarnya iaitu 66.78% 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 menurun

Malaysia. Oceanic tuna landings from the state of Sabah showed a decrease of 18.72% in 2011 as compared with 1,635 tonnes in 2010. Meanwhile, oceanic tuna landings from the state of Penang showed a decline of 92.07% from 1,350 tonnes in 2010 to 107 tonnes in 2011, which contributed 5.60% to the overall oceanic tuna landings in Malaysia.

In the year 2011, neritic tuna landings amounted to 58,210 tonnes compared to 57,967 tonnes in 2010, increasing by 0.42%. In Malaysia, neritic tuna consists of longtail tuna, kawakawa, frigate tuna and skipjack tuna. Neritic tuna landings contributed 4.24% to the total marine landings. Meanwhile, tuna-like landings was 200,882 tonnes and its species consist of sword fish, sail fish, marlin, spanish mackerel and indian/short mackerel. Tuna-like landings contributed 14.63% to the total marine landings in Malaysia.

In Peninsular Malaysia alone, 77.84% of the marine landings were contributed by the inshore fisheries sub-sector. The total landings had decreased by 3.03% from 841,367 tonnes in 2010 to 815,842 tonnes in 2011. A large proportion which amounted to 66.78% 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 decreased by 11.13% from 613,099 tonnes in 2010 to

sebanyak 11.13% daripada 613,099 tan metrik pada tahun 2010 kepada 544,839 tan metrik pada tahun 2011.

Pendaratan ikan laut dalam di Semenanjung Malaysia telah menurun 10.97% dari 260,908 tan metrik pada tahun 2010 kepada 232,299 tan metrik pada tahun 2011. Jumlah ini adalah 80.90% dari pendaratan ikan laut dalam Malaysia. Nilai pendaratan juga menurun sebanyak 7.37% dari RM1,135.55 juta kepada RM1,051.89 juta pada tahun 2011. Sebahagian besarnya iaitu 98.64% disumbangkan oleh vesel pukat tunda dan pukat jerut bermuatan 70 GRT dan ke atas.

Bagi Sabah, Sarawak dan Wilayah Persekutuan Labuan pendaratan ikan laut pantai meningkat sebanyak 0.97% dari 267,530 tan metrik pada tahun 2010 kepada 270,123 tan metrik pada tahun 2011. Manakala pendaratan ikan marin laut dalam pula menurun sebanyak 7.17% dari 59,076 tan metrik pada tahun 2010 kepada 54,842 tan metrik pada tahun 2011. Negeri Sabah menunjukkan penurunan tertinggi sebanyak 32.92% iaitu dari 5,237 tan metrik pada tahun 2010 kepada 3,513 tan metrik pada tahun 2011. Penurunan tertinggi ini disebabkan oleh penurunan kuantiti pendaratan oleh pukat tunda bermuatan 70 GRT dan ke atas.



544,839 tonnes in 2011.

The landings of the deep-sea fisheries in Peninsular Malaysia decreased by 10.97% from 260,908 tonnes in 2010 to 232,299 tonnes in 2011. This figure constituted 80.90% of the Malaysian deep-sea fisheries landings. The value of the landings decreased by 7.37% from RM1,135.55 million to RM1,051.89 million in 2011. A large portion of the deep-sea fisheries landings which amounted to 98.64% was contributed by trawlers and purse seiners of 70 GRT and above.

For Sabah, Sarawak and the Federal Territory of Labuan, inshore fisheries landings increased by 0.97% from 267,530 tonnes in 2010 to 270,123 tonnes in 2011. However, landings from the deep-sea fisheries decreased by 7.17% from 59,076 tonnes in 2010 to 54,842 tonnes in 2011. The state of Sabah recorded the highest decline of 32.92% from 5,237 tonnes in 2010 to 3,513 tonnes in 2011. This was due to the decrease in landings by trawlers of vessels 70GRT and above.



Pengeluaran dan Nilai Sektor Akuakultur, Malaysia, 2011
Production and Value of Aquaculture Sector, Malaysia, 2011

Akuakultur <i>(Aquaculture)</i>	2010		2011		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>
1. Air Tawar <i>(Freshwater)</i>	155,398.63	760.34	122,218.73	684.15	-21.35	-10.02
2. Air Payau / Marine <i>(Brackishwater)</i>	217,757.37	1,955.24	164,838.68	1,701.49	-24.61	-12.98
Jumlah Akuakultur Makanan <i>(Total Food Aquaculture)</i>	373,156.00	2,715.58	287,057.41	2,385.64	-23.07	-12.15
3. Rumpai Laut <i>(Seaweed)</i>	207,892.40	83.16	239,450.00	119.73	+15.18	+43.98
Jumlah Besar <i>(Grand Total)</i>	na	2,798.74	na	2,505.37	na	-0.10

3. AKUAKULTUR

3.1 Pengeluaran Akuakultur

Pada tahun 2011, pengeluaran dari subsektor akuakultur makanan menyumbang sebanyak 287,057.41 tan metrik bernilai RM2,385.64 juta iaitu menurun sebanyak 23.07% dan 12.15% berbanding tahun 2010. Rumpai laut pula menyumbang 239,450.00 tan metrik bernilai RM119.73 juta bagi tahun 2011.

Dalam tahun 2011, sejumlah 28,599 orang telah terlibat dalam industri akuakultur yang menunjukkan

3. AQUACULTURE

3.1 Aquaculture Production

In the year 2011, national production from the food aquaculture sub-sector contributed 287,057.41 tonnes valued at RM2,385.64 million decreased by 23.07% and 12.15% respectively compared to 2010. The seaweed production contributed 239,450.00 tonnes valued at RM119.73 million in 2011.

In the year 2011, a total of 28,599 fish farmers and culturists were involved in the aquaculture industry

peningkatan sebanyak 8.78% jika dibandingkan dengan tahun 2010 yaitu 26,291 orang. Sebagian besar tenaga kerja adalah terlibat dalam industri akuakultur air tawar yang merangkumi seramai 21,992 orang penternak iaitu 76.90% daripada jumlah keseluruhan penternak akuakultur negara. Manakala seramai 6,607 orang penternak atau 23.10% terlibat dalam industri akuakultur air payau/masin.



increasing by 8.78% as compared with 26,291 persons in 2010. The majority of the workforce of 21,992 persons were involved in the freshwater aquaculture sub-sector which accounted for 76.90% of the total fish farmers/culturists in the country. The remaining 23.10% or 6,607 fish farmers/culturists were involved in the brackishwater aquaculture industry.



Pengeluaran Dan Nilai Akuakultur Air Tawar, Malaysia, 2011
Production and Value of Freshwater Aquaculture, Malaysia, 2011

Akuakultur Air Tawar (Freshwater Aquaculture)	2010		2011		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)	63,206.24	194.48	46,777.80	153.06	-25.99	-21.30
Tilapia Merah (Red Tilapia)	29,013.94	192.99	33,259.93	247.59	+14.63	+28.29
Patin (River Catfish)	37,884.07	199.49	10,891.51	95.89	-71.25	-51.93
Tilapia Hitam (Black Tilapia)	9,629.33	56.3	9,526.30	54.33	-1.07	-3.50
Udang Galah (Giant Freshwater Prawn)	619.22	18.85	334.44	9.34	-45.99	-50.45
Pelbagai (Others)	15,045.83	98.23	21,428.75	123.94	+42.42	+26.17
Jumlah Besar (Grand Total)	155,398.63	760.34	122,218.73	684.15	-21.35	-10.02

3.2 Akuakultur Air Tawar

Pada tahun 2011, penternakan ikan air tawar menyumbang sebanyak 122,218.73 tan metrik bernilai RM684.15 juta. Pengeluaran dan nilai menunjukkan penurunan 21.35% dan 10.02% berbanding tahun 2010 iaitu 155,398.63 tan metrik bernilai RM760.34 juta.



3.2 Freshwater Aquaculture

In 2011, freshwater fish culture contributed 122,218.73 tonnes valued at RM684.15 million. Its production and value showed a decline of 21.35% and 10.02% when compared to 2010 with 155,398.63 tonnes valued at RM760.34 million.



Pengeluaran dan Nilai Akuakultur Air Payau, Malaysia, 2011
Production and Value of Brackishwater Aquaculture, Malaysia, 2011

Akuakultur Air Payau (<i>Brackishwater Aquaculture</i>)	2010		2011		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>
Udang Marin (<i>Marine Prawn</i>)	87,202.61	1,178.96	67,472.80	888.60	-22.63	-24.63
Kerang (<i>Cockles</i>)	78,024.70	91.60	57,544.40	75.57	-26.25	-17.50
Ikan Marin (<i>Marine Fish</i>)	32,694.41	592.54	32,652.56	674.53	-0.13	+13.84
Siput Sudu (<i>Mussels</i>)	10,529.06	5.05	2,625.15	1.52	-75.07	-69.90
Lain-lain Kurstasia (<i>Others Crustacean</i>)	11.94	0.20	19.53	0.34	+63.57	+70.00
Pelbagai (<i>Others</i>)	9,294.65	86.89	4,524.24	60.93	-51.32	-29.88
Jumlah Besar (<i>Grand Total</i>)	217,757.37	1,955.24	164,838.68	1,701.49	-24.30	-12.98

3.3 Akuakultur Air Payau

Pengeluaran dari penternakan air payau dalam tahun 2011 menyumbang sebanyak 164,838.68 tan metrik bernilai RM1,701.49 juta. Pengeluaran dan nilai akuakultur air payau masing-masing menurun 24.30% dan 12.98% daripada 217,757.37 tan metrik bernilai RM1,955.24 juta pada tahun 2010.

3.3 *Brackishwater Aquaculture*

Brackishwater aquaculture production in 2011 contributed 164,838.68 tonnes valued at RM1,701.49 million. Its production and value was decrease by 24.30% and 12.98% from 217,757.37 tonnes valued at RM1,955.24 million in 2010.



4. RUMPAI LAUT

Pengeluaran rumpai laut pada tahun 2011 menunjukkan peningkatan 15.18% kepada 239,450.00 tan metrik (berat basah) daripada 207,892.40 tan metrik pada tahun 2010. Nilai juga menunjukkan peningkatan kepada RM119.73 juta berbanding RM83.16 juta pada tahun sebelumnya. Peningkatan ini dipengaruhi oleh peningkatan harga rumpai laut basah bagi setiap kilogram yang dikeluarkan. Keluasan pengkulturan rumpai laut meningkat 15.97% kepada 9,208.23 hektar pada tahun 2011 berbanding 7,940.50 hektar pada tahun 2010.



4. SEAWEED

The seaweed production increased this year by 15.18% to 239,450.00 tonnes (wet weight) from 207,892.40 tonnes in 2010. Its value also showed an increase of RM119.73 million from RM83.16 million the previous year. Thus increment was related to the increase of the seaweed wet price per kilogram. Meanwhile, the total acreage under seaweed culture recorded an increase of 15.97% to 9,208.23 hectares in 2011 compared to 7,940.50 hectares in 2010.



Pengeluaran dan Nilai Ikan Hiasan, Malaysia, 2011
Production and Value of Ornamental Fish, Malaysia, 2011

Ikan Hiasan (Ornamental Fish)	2010		2011		Perubahan (Changes) %	
	Kuantiti (Ekor) Quantity (Pieces)	Nilai (RM Juta) Value(RM Million)	Kuantiti (Ekor) Quantity (Pieces)	Nilai (RM Juta) Value (RM Million)	Kuantiti Quantity	Nilai Value
<i>Cyprinids</i>	99,377,509	118.35	104,504,747	141.38	+5.16	+19.47
<i>Anabantids</i>	12,864,766	10.04	7,872,708	7.70	-38.80	-23.31
<i>Poeciliids</i>	133,639,757	82.52	137,004,130	72.12	+2.52	-12.60
<i>Characins</i>	13,655,056	7.78	9,411,425	4.64	-31.08	-40.36
<i>Cichlid</i>	6,663,537	25.00	7,164,287	14.62	+7.51	-41.52
<i>Osteoglossids</i>	355,740	151.20	431,106	291.97	+21.19	+93.10
<i>Callichthyids</i>	153,266	0.11	363,418	0.16	+137.12	+45.45
<i>Cobitids</i>	178,203	0.09	184,000	0.07	+3.25	-22.00
<i>Loricariida</i>	3,200	0.01	1,900	0.00	-40.63	-60.00
Lain-lain (Others)	74,866,030	35.20	41,413,293	17.07	-44.68	-51.51
Jumlah Besar (Grand Total)	341,757,064	430.30	308,351,014	549.74	-9.77	+28.00

5. IKAN HIASAN DAN TUMBUHAN AKUATIK

Pengeluaran ikan hiasan pada tahun 2011 menunjukkan penurunan sebanyak 9.77% kepada 308,351,014 ekor berbanding 341,757,064 ekor pada tahun 2010. Nilai ikan hiasan pula menunjukkan peningkatan sebanyak 28.00% kepada RM549.74 juta daripada RM430.30 juta pada tahun sebelumnya. Pengeluaran tumbuhan akuatik meningkat

5. ORNAMENTAL FISH

Production of ornamental fish for the year 2011 showed a decline of 9.77% to 308,351,014 pieces compared with 341,757,064 pieces in 2010. Its value showed an increase of 28.00% to RM549.74 million from RM430.30 million the previous year. The aquatic plants also showed an increase to 187,948,329 bundles valued at RM20.82 million

kepada 187,948,329 ikat bernilai RM20.82 juta berbanding 143,651,684 ikat bernilai RM14.47 juta juga pada tahun 2010 iaitu meningkat 30.84% dan 43.88% dari segi pengeluaran dan nilai.

compared to 143,651,684 bundles valued at RM14.47 million in 2010. The production and its value increased by 30.84% and 43.88% respectively compared to 2010.

Pengeluaran Rega dan Benih Dari Hatcheri Kerajaan dan Swasta, Malaysia, 2011

Production of Fish Fries And Hatchlings From Government And Private Hatcheries, Malaysia, 2011

Rega dan Benih (Hatchlings and fries)	Hatceri Kerajaan (Government Hatchery)			Hatceri Swasta (Private Hatchery)		
	2010	2011	%	2010	2011	%
Air Tawar (Freshwater)	24.65	23.80	- 3.45	1,021.59	2,803.19	174.39
Air Payau (Brackishwater)	28.02	78.89	181.55	779.60	998.23	28.04
Udang (Prawn)	11.99	16.30	35.95	13,530.04	19,983.23	47.70
Jumlah (Total)	64.66	118.99	84.02	15,331.23	23,784.65	55.14

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



6. PENGELUARAN BENIH

Pada tahun 2011, sejumlah 3,904.11 juta ekor rega dan benih ikan air tawar dan ikan air payau telah dikeluarkan oleh hatceri kerajaan dan swasta, berbanding 1,853.86 juta ekor rega dan benih yang dikeluarkan pada tahun 2010. Pengeluaran nauplii dan benih udang air payau/masin dan udang galah yang dikeluarkan oleh hatceri kerajaan dan swasta pada tahun 2011 adalah 19,999.53 juta ekor iaitu meningkat sebanyak 47.68% daripada 13,542.03 juta ekor pada tahun 2010.

6. FISH SEED PRODUCTION

In 2011, a total of 3,904.11 million pieces of freshwater and brackishwater fish hatchlings/fries were produced by government and private hatcheries as compared to 1,853.86 million pieces of hatchlings/fries produced in 2010. The total production of brackishwater and freshwater prawn nauplii/fries produced by government and private hatcheries in 2011 was 19,999.53 million pieces, which was an increase of 47.68% from 13,542.03 million pieces in 2010.

7. PERIKANAN TANGKAPAN DARAT

Pendaratan dari perairan umum (bukan laut) meningkat kepada 5,694.36 tan metrik bernilai RM54.83 juta iaitu masing-masing meningkat sebanyak 23.64% dan 22.74% berbanding tahun sebelumnya. Negeri Pahang masih kekal sebagai penyumbang utama iaitu sebanyak 1,600.01 tan metrik bernilai RM16.12 juta iaitu 28.10% daripada keseluruhan pendaratan ikan dari perairan umum.

7. INLAND FISHERIES PRODUCTION (PUBLIC WATER BODIES)

The landings from public water bodies increased to 5,694.36 tonnes in 2011 valued at RM54.83 million, which was an increase of 23.64% and 22.74% respectively compared to the year before. The state of Pahang was the main producer with 1,600.01 tonnes valued at RM16.12 million or 28.10% of the total landings from public water bodies

JADUAL (Table) 1.1

BILANGAN NELAYAN YANG BEKERJA DI ATAS VESEL PENANGKAPAN IKAN YANG BERLESEN, MALAYSIA, 2011
NUMBER OF FISHERMEN WORKING ON LICENSED FISHING VESSELS, MALAYSIA, 2011

NEGERI <i>State</i> KETURUNAN <i>Ethnic Group</i>	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>
	Pertlis	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>	1,716	7,399	3,404	2,849	1,829	230	1,587	4,219	4,204	7,837	4,236	3,523	11,687	21,917	742	77,748
Cina <i>Chinese</i>	22	509	2,077	7,049	4,661	223	235	1,470	0	7	519	924	889	326	40	18,946
India <i>Indians</i>	0	4	38	310	155	33	4	1	0	0	0	6	0	0	0	548
Penduduk Tetap <i>Permanent Resident</i>	0	0	0	0	195	0	106	47	0	0	0	0	0	0	0	348
Lain-lain (Tempatan) <i>Others (Local)</i>	0	0	0	0	0	0	0	211	0	0	0	128	0	0	0	545
Portugis <i>Portuguese</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thai (Thailand) <i>Thais</i>	4,638	3,246	47	4,757	405	0	0	0	3,963	2,295	2,293	1,769	1,795	0	0	25,268
Indonesia <i>Indonesians</i>	0	0	59	0	62	0	0	0	0	0	110	53	1,354	0	16	1,682
Filipina <i>Filipinos</i>	0	0	7	0	2	0	0	0	0	0	0	0	37	0	133	354
Vietnam <i>Vietnamese</i>	0	0	0	0	0	0	0	0	1,056	408	0	107	238	0	56	1,771
Cina Asing <i>Chinese (China)</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	140	141
Lain-lain (Asing) <i>Others (Foreigners)</i>	0	0	0	0	0	0	0	0	0	0	432	0	0	6,311	0	6,759
Jumlah Besar <i>Grand Total</i>	6,376	11,158	5,633	14,965	7,309	486	1,932	5,948	9,223	10,547	7,590	6,510	16,000	28,554	1,127	134,110

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

JADUAL (Table) 1.2

BILANGAN VESEL PENANGKAPAN IKAN YANG BERLESEN MENGIKUT NEGERI DAN KELAS MUATAN, MALAYSIA, 2011
NUMBER OF LICENSED FISHING VESSELS BY STATE AND TONNAGE CLASS, MALAYSIA, 2011

JENIS Type NEGERI State	BERJENTERA DALAM / Inboard - Powered									Berjentera Sangkut Outboard – Powered	Tidak Berjentera Non - Powered	JUMLAH Total
	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 (& above)	Jumlah Kecil Sub- Total			
Pantai Barat / West Coast:												
Perlis	6	104	41	41	48	157	124	56	577	490	0	1,067
Kedah	85	230	85	28	77	202	219	83	1,009	2,814	0	3,823
Pulau Pinang	23	318	26	5	2	87	4	5	470	2,417	0	2,887
Perak	280	1,374	236	509	147	224	425	176	3,371	2,168	11	5,550
Selangor	7	584	164	174	155	213	134	3	1,434	2,419	24	3,877
Negeri Sembilan	0	21	9	0	0	0	0	0	30	334	0	364
Melaka	0	82	32	0	0	0	0	0	114	992	0	1,106
Johor Barat / West Johore	55	210	97	74	35	30	0	0	501	2,727	12	3,240
Jumlah/Total	456	2,923	690	831	464	913	906	323	7,506	14,361	47	21,914
Pantai Timur/East Coast:												
Kelantan	287	111	88	81	66	38	74	230	975	1,083	0	2,058
Terengganu	164	435	289	169	115	145	106	67	1,490	1,588	0	3,078
Pahang	14	151	149	84	57	125	246	147	973	1,012	0	1,985
Johor Timur / East Johore	39	106	105	54	23	138	174	78	717	1,717	5	2,439
Jumlah/Total	504	803	631	388	261	446	600	522	4,155	5,400	3	9,560
Malaysia:	960	3,726	1,321	1,219	725	1,359	1,506	845	11,661	19,761	52	31,474
Semenanjung Malaysia/ (Peninsular Malaysia)												
Sarawak	619	517	273	106	107	168	265	258	2,313	3,675	1	5,989
Sabah	867	695	332	305	405	527	80	33	3,244	9,057	2,916	15,217
W.P. Labuan/ Federal Territory Labuan	0	0	0	0	0	0	1	22	23	297	2	322
Jumlah Besar Grand Total	2,446	4,938	1,926	1,630	1,237	2,054	1,852	1,158	17,241	29,003	2,971	53,002

GRT- Gross Registered Tonnage.

JADUAL (Table) 1.3

BILANGAN PERALATAN MENANGKAP IKAN YANG BERLESEN MENGIKUT NEGERI, MALAYSIA, 2011
NUMBER OF LICENSED FISHING GEARS BY STATE, MALAYSIA, 2011

PERALATAN MENANGKAP IKAN <i>Fishing Gears</i>	Pukat Tunda <i>Trawl Nets</i>	Pukat Jerut Ikan <i>Fish Purse Seines</i>	Pukat Jerut Bilis <i>Anchovy Purse Seines</i>	Pukat Kenka Satu Bot <i>Kenka One Boat</i>	Pukat Kenka Dua Bot <i>Kenka Two Boats</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 Sorong <i>Push/Scoop Nets</i>	Bintoh Ketam <i>Crab Traps</i>	Memungut Siput <i>Shellfish Collection</i>	Rampaian <i>Miscellaneous</i>	Jumlah <i>Total</i>
Negeri <i>State</i>																		
Pantai Barat / West Coast:																		
Perlis	201	120	0	0	0	0	652	0	0	2	1	0	0	0	0	0	0	976
Kedah	428	51	61	0	0	0	3,229	0	0	0	0	9	0	0	0	4	0	3,782
Pulau Pinang	84	8	0	57	0	1	2,609	0	0	18	50	19	0	0	0	0	0	2,846
Perak	1,300	155	11	0	267	13	2,716	0	0	48	86	58	0	0	213	136	17	5,020
Selangor	689	34	0	0	0	0	2,911	0	0	17	64	57	8	0	0	40	1	3,821
Negeri Sembilan	0	0	0	0	0	0	345	0	0	5	14	0	0	0	0	0	0	364
Melaka	0	0	0	0	0	0	1,105	0	0	0	0	0	0	0	0	0	0	1,105
Johor Barat/ <i>West Johore</i>	125	0	0	0	0	0	2,963	0	26	3	6	51	4	0	0	1	0	3,178
Jumlah Kecil/Sub -Total	2,827	368	72	57	267	14	16,530	0	26	93	221	194	12	0	213	180	18	21,092
Pantai Timur/East Coast																		
Kelantan	258	99	13	0	0	24	1,465	20	0	26	120	0	0	0	0	0	0	2,025
Terengganu	198	206	18	0	0	6	488	18	0	115	1,972	0	0	0	0	0	0	3,021
Pahang	429	92	6	0	0	2	1,061	8	0	81	242	0	0	0	0	0	0	1,921
Johor Timur/ <i>East Johore</i>	277	73	0	0	0	0	1,836	0	23	15	72	10	0	0	0	0	0	2,306
Jumlah Kecil/Sub -Total	1,162	470	37	0	0	32	4,850	46	23	237	2,406	10	0	0	0	0	0	9,273
Sarawak	610	39	0	0	0	4	4,756	1	10	29	81	247	192	19	0	0	0	5,988
Sabah	1,515	223	26	0	0	42	7,456	370	133	707	3,383	0	5	0	637	127	593	15,217
W.P. Labuan / <i>Federal Territory Of Labuan</i>	2	4	0	0	0	4	134	0	0	11	163	0	0	0	0	0	4	322
Jumlah Kecil/Sub -Total	2,127	266	26	0	0	50	12,346	371	143	747	3,627	247	197	19	637	127	597	21,527
Jumlah Besar Grand Total	6,116	1,104	135	57	267	96	33,726	417	192	1,077	6,254	451	209	19	850	307	615	51,892

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

JADUAL (Table) 1.4

PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN KUMPULAN PERALATAN MENANGKAP IKAN , MALAYSIA, 2011
LANDINGS OF MARINE FISH BY STATE AND FISHING GEAR GROUP , MALAYSIA, 2011
(Tan Metrik/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 Tangkuk <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 Sorong <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	54,342	56,519	0	317	22,849	0	0	0	0	0	0	881	0	93	135,001
Kedah	42,771	7,850	5,181	244	28,545	0	34	3	613	506	45	218	0	22	86,033
Pulau Pinang	22,172	2,651	0	8,187	29,313	0	0	198	588	336	325	23	0	180	63,972
Perak	158,977	70,245	827	25,099	29,250	0	0	134	866	11,036	118	2,975	1,016	1,003	301,545
Selangor	82,894	5,998	0	11	12,875	0	159	83	1,037	2,318	1,557	587	442	4	107,965
Negeri Sembilan	0	0	0	13	570	0	0	47	36	0	0	0	0	0	666
Melaka	0	0	0	0	1,448	0	0	2	239	0	0	70	0	0	1,759
Johor Barat/ <i>West Johore</i>	6,487	0	0	0	16,139	0	431	349	335	3,862	93	61	39	329	28,125
Jumlah / <i>Total</i>	367,642	143,262	6,009	33,871	140,990	0	624	815	3,712	18,057	2,139	4,814	1,498	1,631	725,064
Pantai Timur /<i>East Coast</i>															
Kelantan	34,435	26,095	7,845	0	5,464	2,424	0	0880	1,231	0	0	0	0	20	72,396
Terengganu	13,830	24,775	2,785	0	11,393	1,227	0	3,547	8,465	0	0	0	0	0	65,023
Pahang	62,331	26,773	576	0	3,643	0	0	2,477	8,243	0	0	0	0	0	104,043
Johor Timur/ <i>East Johore</i>	42,925	32,921	0	0	2,007	0	124	988	1,973	677	0	0	0	0	81,615
Jumlah / <i>Total</i>	152,521	110,565	5,206	0	22,507	3,652	124	7,893	19,913	677	0	0	0	20	323,077
Malaysia:															
Semenanjung Malaysia <i>Peninsular Malaysia</i>	520,163	253,827	11,214	33,871	163,497	3,652	747	8,708	23,625	18,734	2,139	4,814	1,498	1,651	1,048,141
Sarawak	62,514	8,201	0	36	38,352	273	259	36	2,975	3,101	2,341	258	12	1,103	119,459
Sabah	60,130	60,085	133	751	24,227	11,856	1,212	1,714	14,581	0	216	155	240	1,645	176,945
WP Labuan / <i>Federal Territory Of Labuan</i>	18,944	1,024	0	0	2,625	185	0	267	5,516	0	0	0	0	0	28,561
Jumlah Besar <i>Grand Total</i>	661,751	323,136	11,347	34,658	228,701	15,966	2,218	10,725	46,698	21,835	4,696	5,227	1,750	4,399	1,373,105

JADUAL (Table) 1.5

PENDARATAN IKAN LAUT MENGIKUT BULAN DAN NEGERI, MALAYSIA, 2011
LANDINGS OF MARINE FISH BY MONTH AND STATE, MALAYSIA, 2011
 (Tan Metrik/Tonnes)

BULAN / <i>Month</i> NEGERI / <i>State</i>	Januari <i>January</i>	Februari <i>February</i>	Mac <i>March</i>	April <i>April</i>	Mei <i>May</i>	Jun <i>June</i>	Julai <i>July</i>	Ogos <i>August</i>	September <i>September</i>	Oktober <i>October</i>	November <i>November</i>	Disember <i>December</i>	JUMLAH <i>Total</i>
Pantai Barat <i>West Coast</i>													
Perlis	14,267	12,457	11,400	13,326	11,888	10,342	11,491	10,120	9,969	10,832	9,061	9,848	135,001
Kedah	5,889	6,018	8,425	9,458	8,999	7,764	6,986	6,473	6,470	6,781	6,457	6,313	86,033
Pulau Pinang	4,243	4,762	6,094	7,090	6,617	5,625	5,332	5,251	4,606	5,142	4,767	4,443	63,972
Perak	20,795	21,110	21,875	22,088	26,676	25,555	26,109	24,884	27,635	29,409	29,313	26,095	301,545
Selangor	11,974	12,128	9,119	9,111	9,114	8,492	8,718	7,427	7,945	8,530	6,563	8,843	107,965
Negeri Sembilan	52	39	63	55	55	59	46	58	72	63	56	49	666
Melaka	147	146	164	132	130	155	150	151	141	145	162	134	1,759
Johor Barat <i>West Johore</i>	2,145	2,332	1,997	2,261	2,296	2,390	2,764	2,894	2,192	2,704	2,205	1,943	28,125
Jumlah Kecil <i>Sub-Total</i>	59,512	58,992	59,137	63,520	65,776	60,381	61,596	57,258	59,030	63,607	58,585	57,668	725,064
Pantai Timur <i>East Coast</i>													
Kelantan	6,075	7,592	5,891	4,006	7,749	7,451	6,118	4,355	4,720	8,216	5,284	4,939	72,396
Terengganu	4,158	5,796	6,336	7,326	5,182	4,044	5,532	4,951	7,309	7,242	3,892	3,256	65,023
Pahang	8,202	8,997	10,621	8,603	9,384	8,446	9,460	9,769	11,134	8,924	6,132	4,371	104,043
Johor Timur <i>East Johore</i>	3,798	4,984	5,875	6,583	6,628	5,843	7,433	10,227	10,898	8,654	6,570	4,122	81,615
Jumlah Kecil <i>Sub-Total</i>	22,233	27,369	28,722	26,517	28,943	25,785	28,543	29,301	34,060	33,036	21,878	16,688	323,077
Malaysia:													
Semenanjung Malaysia <i>Peninsular Malaysia</i>	81,745	86,361	87,860	90,038	94,719	86,166	90,139	86,559	93,090	96,643	80,463	74,357	1,048,141
Sarawak	8,288	9,386	10,795	11,214	11,185	10,661	9,924	10,104	10,017	9,500	9,875	8,509	119,459
Sabah	12,737	14,362	15,092	17,190	17,059	16,211	15,117	15,927	13,713	14,680	12,759	12,100	176,945
WP Labuan / <i>Federal Territory Of Labuan</i>	2,278	2,289	2,824	2,546	2,438	2,419	2,420	2,357	2,492	2,344	2,106	2,048	28,561
Jumlah Besar <i>Grand Total</i>	105,048	112,399	116,571	120,987	125,401	115,457	117,600	114,946	119,312	123,168	105,202	97,014	1,373,105

JADUAL (Table) 1.6

NILAI HARGA BORONG PENDARATAN IKAN LAUT, MALAYSIA, 2011
WHOLESALE VALUE OF MARINE FISH LANDINGS, MALAYSIA, 2011

NEGERI / State	Gred 1 Grade1		Gred 11 Grade11		Gred 111 Grade111		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	22,443	483,676	9,130	43,725	436,864	2,320,080	85,421	762,212	169,709	125,573	1,498	3,896	725,064	3,739,162
Perlis	1,354	23,161	79	915	105,420	639,786	802	18,203	27,347	17,507	-	-	135,001	699,571
Kedah	1,370	29,171	850	5,076	67,564	398,717	3,264	53,903	12,985	12,687	-	-	86,033	499,554
Pulau-Pinang	2,436	68,654	608	2,609	36,649	160,491	10,453	212,609	13,825	8,370	-	-	63,972	452,733
Perak	7,282	151,690	3,973	16,548	183,717	901,768	30,771	260,535	74,787	61,198	1,016	2,725	301,545	1,394,465
Selangor	4,201	64,303	2,365	9,494	29,501	132,197	33,505	136,814	37,950	24,285	442	1,112	107,965	368,205
Negeri Sembilan	145	3,705	78	854	407	3,502	36	1,205	-	-	-	-	666	9,266
Melaka	477	9,920	-	-	1,117	5,389	165	3,483	-	-	-	-	1,759	18,792
Johor Barat/ West Johore	5,178	133,071	1,178	8,229	12,490	78,230	6,425	75,461	2,815	1,527	39	59	28,125	296,577
Pantai Timur/ East Coast	8,984	142,692	4,029	45,655	245,016	1,429,401	3,892	56,380	60,599	25,631	557	1,895	323,077	1,701,655
Kelantan	961	13,748	677	4,120	58,269	256,878	858	13,689	11,168	6,918	463	1,515	72,396	296,869
Terengganu	2,498	39,495	1,401	20,935	58,478	359,882	343	6,748	2,229	1,050	74	302	65,023	428,410
Pahang	3,333	56,140	1,296	12,352	73,763	522,163	901	10,640	24,730	9,307	19	78	104,043	610,681
Johor Timur East Johore	2,192	33,309	656	8,249	54,506	290,478	1,790	25,303	22,471	8,356	-	-	81,615	365,695
Sem. Malaysia/ Peninsular Malaysia Jumlah/Total	31,427	626,368	13,159	89,380	681,880	3,749,481	89,312	818,593	230,308	151,205	2,055	5,791	1,048,141	5,440,817
Sarawak	9,641	101,329	5,853	42,710	85,056	282,809	6,743	45,797	12,154	5,119	12	123	119,459	477,887
Sabah	9,660	81,241	10,262	71,822	129,630	468,308	10,784	120,091	16,102	10,178	507	1,721	176,945	753,360
W.P Labuan/ F.T Labuan	2,534	45,602	2,125	30,198	18,484	142,880	2,312	47,327	3,106	1,398	-	-	28,561	267,405
Jumlah Kecil/Sub-Total	21,834	228,172	18,241	144,731	233,169	893,996	19,839	213,214	31,362	16,695	519	1,844	324,965	1,498,652
Jumlah Besar/ Grand Total	53,261	854,540	31,400	234,111	915,050	4,643,477	109,152	1,031,807	261,669	167,899	2,574	7,635	1,373,105	6,939,469

JADUAL (Table) 1.7

ANGGARAN PENGELUARAN DAN NILAI AKUAKULTUR DARIPADA SISTEM TERNAKAN AIR TAWAR MENGIKUT SPESIES, 2011
ESTIMATED AQUACULTURE PRODUCTION FROM FRESHWATER CULTURE SYSTEM BY SPECIES, 2011
(TAN METRIK/TONNES) / (NILAI DALAM RM '000/VALUE IN RM '000)

SPESIES <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>	(Tan Metrik) 341.79 (RM '000) 4,667.40	567.46 6,881.50	1,971.37 27,949.10	- -	- -	- -	2,880.62 39,498.00
Haruan <i>Snakehead</i>	- -	- -	- -	13.80 161.31	- -	- -	13.80 161.31
Jelawat <i>River Carp</i>	445.63 3,753.85	8.85 83.64	278.19 2,640.82	5.04 40.32	- -	- -	737.71 6,518.63
Kap Kepala Besar <i>Big Head Carp</i>	322.11 1,047.64	- -	3,607.18 11,611.56	- -	- -	- -	3,929.29 12,659.21
Kap Rumpit <i>Grass Carp</i>	509.97 3,269.95	2.53 16.39	1,403.30 8,983.41	- -	- -	- -	1,915.80 12,269.76
Keli <i>Freshwater Catfish</i>	44,016.11 143,066.74	756.83 2,880.09	4.27 14.76	1,586.76 5,635.74	397.21 1,394.02	16.62 71.31	46,777.80 153,062.66
Ketutu <i>Goby</i>	21.15 1,074.42	0.41 17.89	- -	- -	- -	- -	21.56 1,092.31
Lampam Jawa <i>Javanese Carp</i>	247.87 1,885.81	25.05 180.24	1,202.13 5,820.03	2.37 16.62	- -	82.61 401.59	1,560.03 8,304.29
Lee Koh <i>Common Carp</i>	357.80 2,124.28	- -	915.26 4,201.04	0.01 0.07	- -	- -	1,273.07 6,325.40
Patin <i>River Catfish</i>	3,616.87 28,090.38	2,945.19 46,997.16	4,228.00 20,149.14	11.07 38.76	0.48 2.92	89.90 607.00	10,891.51 95,885.35
Tilapia Hitam <i>Black Tilapia</i>	3,204.29 23,897.52	70.56 527.27	6,199.60 29,466.72	46.16 400.58	- -	5.69 34.22	9,526.30 54,326.31
Tilapia Merah <i>Red Tilapia</i>	17,836.91 138,976.64	6,456.83 46,937.18	6,433.52 44,198.69	2,418.59 16,699.48	1.80 13.59	112.28 768.91	33,259.93 247,594.49
Toman <i>Giant Snakehead</i>	1,269.29 9,144.05	- -	- -	- -	- -	- -	1,269.29 9,144.05
Udang Galah <i>Giant Freshwater Prawn</i>	334.44 9,343.28	- -	- -	- -	- -	- -	334.44 9,343.28
Pelbagai <i>Others</i>	3,197.13 14,298.03	246.83 2,259.73	4,347.47 11,236.82	21.08 95.76	1.30 8.44	13.76 65.17	7,827.58 27,963.96
Jumlah <i>Total</i>	75,721.36 384,640.00	11,080.54 106,781.09	30,590.29 166,272.09	4,104.89 23,088.64	400.79 1,418.98	320.86 1,948.20	122,218.73 684,149.00

JADUAL (Table) 1.8

ANGGARAN PENGELUARAN DAN NILAI AKUAKULTUR DARIPADA SISTEM TERNAKAN AIR PAYAU/MASIN MENGIKUT SPESIES, 2011
ESTIMATED AQUACULTURE PRODUCTION FROM BRACKISHWATER CULTURE SYSTEM BY SPECIES, 2011
(TAN METRIK/TONNES) / (NILAI DALAM RM ' 000/VALUE IN RM '000)

SPESIES <i>Species</i>	Sistem Ternakan <i>Culture System</i>							Jumlah <i>Total</i>
	Kolam Air Payau <i>Brackishwater Ponds</i>	Sangkar Air Payau <i>Brackishwater Cages</i>	Tangki Air Masin <i>Brackishwater Tanks</i>	Kerang <i>Cockles</i>	Siput Sudu <i>Mussels</i>	Tiram <i>Oysters</i>	Rumpai Laut <i>Seaweeds (basah/wet)</i>	
Banding <i>Milkfish</i>	- -	- -	- -	- -	- -	- -	- -	- -
Jenahak <i>Mangrove Snapper</i>	512.80 9,223.56	2,706.83 50,306.25	- -	- -	- -	- -	- -	3,219.63 59,529.81
Kerang Dewasa <i>Cockles</i>	- -	- -	- -	57,544.40 75,568.91	- -	- -	- -	57,544.40 75,568.91
Kerapu <i>Grouper</i>	44.01 1,778.78	6,262.14 249,184.15	0.30 7.36	- -	- -	- -	- -	6,306.45 250,970.29
Ketam Nipah <i>Mud Crab</i>	9.10 146.62	10.43 200.26	- -	- -	- -	- -	- -	19.53 346.88
Merah <i>Red Snapper</i>	11.35 219.45	5,011.71 89,403.26	- -	- -	- -	- -	- -	5,023.06 89,622.71
Rumpai Laut <i>Seaweeds</i>	- -	- -	- -	- -	- -	- -	239,450.00 119,725.00	239,450.00 119,725.00
Siakap Merah <i>Mangrove Red Snapper</i>	- -	214.09 3,335.53	- -	- -	- -	- -	- -	214.09 3,335.53
Siakap <i>Sea Bass</i>	10,020.59 153,528.95	7,345.33 110,842.66	240.90 4,458.98	- -	- -	- -	- -	17,606.82 268,830.59
Siput Sudu <i>Mussels</i>	- -	- -	- -	- -	2,625.15 1,521.43	- -	- -	2,625.15 1,521.43
Tilapia Merah <i>Red Tilapia</i>	102.33 752.58	180.18 1,489.53	- -	- -	- -	- -	- -	282.51 2,242.11
Tiram <i>Oysters</i>	- -	- -	- -	- -	- -	625.89 3,206.77	- -	625.89 3,206.77
Udang Harimau <i>Tiger Prawn</i>	7,150.79 153,060.12	- -	- -	- -	- -	- -	- -	7,150.79 153,060.12
Udang Putih <i>Hawaiian White Shrimp</i>	60,322.01 735,540.21	- -	- -	- -	- -	- -	- -	60,322.01 735,540.21
Pelbagai <i>Others</i>	238.77 3,576.03	3,643.14 53,448.92	16.44 694.20	- -	- -	- -	- -	3,898.35 57,719.15
Jumlah <i>Total</i>	78,411.75 1,057,826.31	25,373.85 558,210.55	257.64 5,160.54	57,544.40 75,568.91	2,625.15 1,521.43	625.89 3,206.77	239,450.00 119,725.00	404,288.68 2,505,368.50

JADUAL (Table) 1.9

ANGGARAN PENGELUARAN AKUAKULTUR MENGIKUT NEGERI DAN SISTEM TERNAKAN, MALAYSIA, 2011
ESTIMATED AQUACULTURE PRODUCTION BY STATE AND CULTURE SYSTEM, MALAYSIA, 2011
 (TAN METRIK/Tonnes)

NEGERI <i>State</i>	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>	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	59.41	-	2.78	5.24	-	-	67.43	117.96	-	-	-	-	-	-	117.96	185.39
Kedah	3,076.80	-	32.99	44.51	-	-	3,154.30	2,459.40	154.98	-	659.19	-	7.37	-	3,280.94	6,435.24
Pulau Pinang	5,311.29	-	25.26	-	-	-	5,336.55	19,581.33	6,897.65	-	7,682.27	-	6.88	-	34,168.13	39,504.68
Perak	18,042.82	30,358.16	4,143.47	808.58	55.97	208.80	53,617.80	11,367.04	3,071.63	-	21,759.37	31.00	5.42	45.00	36,279.46	89,897.26
Selangor	12,423.54	225.60	45.94	1,669.50	-	-	14,364.58	6,949.41	4,336.74	-	26,505.53	-	-	-	37,791.68	52,156.26
Negeri Sembilan	6,207.28	-	159.04	733.24	87.20	-	7,186.76	1,415.12	3.04	-	-	-	-	-	1,418.16	8,604.92
Melaka	7,152.56	-	0.61	53.49	41.63	-	7,248.29	95.90	43.90	-	-	1.26	-	-	141.06	7,389.35
Johor	10,515.77	-	49.56	62.51	-	-	10,627.84	8,150.20	6,535.50	-	938.04	2,564.30	5.60	-	18,193.64	28,821.48
Pahang	5,911.57	6.53	3,272.27	150.84	-	-	9,341.21	4,080.37	124.89	4.04	-	6.82	-	-	4,216.12	13,557.33
Terengganu	402.19	-	2,329.02	188.60	181.16	-	3,100.97	440.87	1,585.05	125.48	-	-	13.88	-	2,165.28	5,266.25
Kelantan	1,068.28	-	249.10	231.16	34.83	112.06	1,695.43	156.05	248.61	-	-	-	5.63	-	410.29	2,105.72
Sarawak	1,584.30	-	736.54	75.56	-	-	2,396.40	8,594.39	881.10	116.60	-	-	-	-	9,592.09	11,988.49
Sabah	3,965.55	-	33.96	81.65	-	-	4,081.16	15,003.71	1,490.76	11.52	-	21.77	581.11	239,405.00	256,513.87	260,595.03
Labuan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jumlah/Total	75,721.36	30,590.29	11,080.54	4,104.89	400.79	320.86	122,218.73	78,411.75	25,373.85	257.64	57,544.40	2,625.15	625.89	239,450.00	404,288.68	526,507.40

JADUAL (Table) 1.10

ANGGARAN NILAI BORONG PENGELUARAN AKUAKULTUR MENGIKUT NEGERI DAN SISTEM TERNAKAN, MALAYSIA, 2011
ESTIMATED WHOLESALE VALUE OF AQUACULTURE PRODUCTION BY STATE AND CULTURE SYSTEM, MALAYSIA , 2011
 (NILAI DALAM RM Juta / *VALUE IN RM Million*)

NEGERI State	Air Tawar / <i>Freshwater</i>							Air Payau / <i>Brackishwater</i>							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	Kerang Cockles	Siput Sudu Mussels	Tiram Oysters	Rumpai Laut Seaweeds (basah/wet)		Jumlah Kecil Sub- Total
Perlis	0.21	-	0.02	0.02	-	-	0.25	1.46	-	-	-	-	-	-	1.46	1.71
Kedah	10.13	-	0.14	0.13	-	-	10.40	26.93	3.17	-	0.68	-	0.01	-	30.79	41.18
Pulau Pinang	17.13	-	0.15	-	-	-	17.28	264.40	158.42	-	10.60	-	0.01	-	433.41	450.69
Perak	90.13	164.96	27.00	4.62	0.18	1.23	288.13	143.28	68.55	-	29.63	0.04	0.11	0.03	241.74	529.87
Selangor	52.33	1.26	0.27	9.66	-	-	63.52	100.76	72.83	-	33.60	-	-	-	207.19	270.71
Negeri Sembilan	35.25	-	1.16	4.64	0.26	-	41.31	17.36	0.03	-	-	-	-	-	17.39	58.70
Melaka	23.30	-	0.00	0.18	0.14	-	23.62	1.58	0.41	-	-	0.00	-	-	1.99	25.61
Johor	38.46	-	0.29	0.18	-	-	38.93	96.06	130.34	-	1.07	1.35	0.10	-	228.92	267.85
Pahang	50.31	0.05	52.01	0.60	-	-	102.96	79.22	1.34	0.06	-	0.01	-	-	80.63	183.60
Terengganu	2.55	-	18.06	0.71	0.69	-	22.01	5.39	22.39	1.79	-	-	0.04	-	29.61	51.61
Kelantan	5.23	-	1.35	0.99	0.15	0.72	8.45	1.66	3.67	-	-	-	0.04	-	5.37	13.82
Sarawak	12.08	-	5.91	0.38	-	-	18.37	129.39	13.32	2.68	-	-	-	-	145.39	163.77
Sabah	47.54	-	0.40	0.98	-	-	48.92	190.33	83.75	0.63	-	0.11	2.91	119.70	948.06	996.98
Labuan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jumlah/Total	384.64	166.27	106.78	23.09	1.42	1.95	684.15	1,057.83	558.21	5.16	75.57	1.52	3.21	119.73	2,371.95	3,056.10

JADUAL (Table) 1.11

ANGGARAN PENGELUARAN DAN NILAI IKAN HIASAN DAN TUMBUHAN AKUATIK MENGIKUT NEGERI 2011
Estimated Production And Value Of Ornamental Fish And Aquatic Plant By State, 2011

NEGERI <i>State</i>	Pengeluaran Ikan Hiasan <i>Production of Ornamental Fish</i> (Ekor / <i>Pieces</i>)	Nilai (RM) <i>Value (RM)</i>	Pengeluaran Tumbuhan Akuatik <i>Production of Aquatic Plant</i> (Ikat / <i>Bundles</i>)	Nilai (RM) <i>Value (RM)</i>
Perlis	0	0.00	0	0.00
Kedah	26,455	183,377.00	0	0.00
Pulau Pinang	392,750	3,224,163.10	102,100	153,150.00
Perak	61,369,630	276,857,046.79	0	0.00
Selangor	9,149,000	31,712,300.00	0	0.00
Negeri Sembilan	0	0.00	0	0.00
Melaka	912,020	1,048,739.20	0	0.00
Johor/Johore	235,802,285	235,440,740.91	187,846,229	20,663,085.19
Pahang	70,145	483,150.00	0	0.00
Terengganu	58,392	213,837.24	0	0.00
Kelantan	306,468	442,241.00	0	0.00
Sarawak	249,988	113,715.00	0	0.00
Sabah	13,881	27,460.00	0	0.00
Labuan	0	0.00	0	0.00
Jumlah / <i>Total</i>	308,351,014	549,746,770.24	187,948,329	20,816,235.19

JADUAL (Table) 1.12

**ANGGARAN PENDARATAN DAN NILAI IKAN AIR TAWAR DARI PERAIRAN UMUM /
PERIKANAN DARAT MENGIKUT PERAIRAN DAN NEGERI, 2011**

Estimated Landings And Value Of Freshwater Fish From Public Waterbodies/Inland Fisheries By Waterbodies And State, 2011

NEGERI <i>State</i>	Sungai <i>Rivers</i>	Bekas Lombong <i>Ex-Mining Pools</i>	Empangan <i>Dams</i>	Tasik <i>Lakes</i>	Lain-lain <i>Others</i>	Jumlah <i>Total</i>
Perlis	(MT / <i>Tonnes</i>) 0.08	0.00	3.85	0.00	0.26	4.19
	(RM '000) 0.53	0.00	17.15	0.00	1.44	19.12
Kedah	196.62	29.28	158.93	-	254.38	639.21
	1,013.21	103.09	737.25	-	1,326.73	3,180.28
Pulau Pinang	16.18	-	-	-	-	16.18
	341.03	-	-	-	-	341.03
Perak	261.01	853.65	-	133.49	63.83	1,311.98
	3,219.80	4,297.90	-	1,216.60	465.05	9,199.35
Selangor	89.76	122.60	22.71	1.81	91.42	328.30
	1,135.30	983.16	316.46	12.75	433.01	2,880.68
Negeri Sembilan	4.46	-	-	-	-	4.46
	80.20	-	-	-	-	80.20
Melaka	84.39	-	9.05	-	-	93.44
	561.14	-	223.11	-	-	784.25
Johor	563.85	9.65	230.52	16.13	1.40	821.55
	7,184.83	160.24	1,528.63	166.01	28.02	9,067.73
Pahang	1,222.74	98.49	115.37	125.61	37.80	1,600.01
	13,269.00	1,165.51	968.27	492.26	225.36	16,120.40
Terengganu	101.85	-	57.83	-	55.11	214.79
	1,181.79	-	536.63	-	411.57	2,129.99
Kelantan	110.65	0.83	19.53	14.67	67.85	213.53
	1,431.46	4.59	203.75	106.97	457.24	2,204.01
Sarawak	308.87	-	-	77.19	-	386.06
	6,421.36	-	-	1,614.94	-	8,036.30
Sabah	60.66	-	-	-	-	60.66
	784.71	-	-	-	-	784.71
Labuan	-	-	-	-	-	-
	-	-	-	-	-	-
JUMLAH <i>Total</i>	3,021.12	1,114.50	617.79	368.90	572.05	5,694.36
	36,624.36	6,714.49	4,531.25	3,609.53	3,348.42	54,828.05