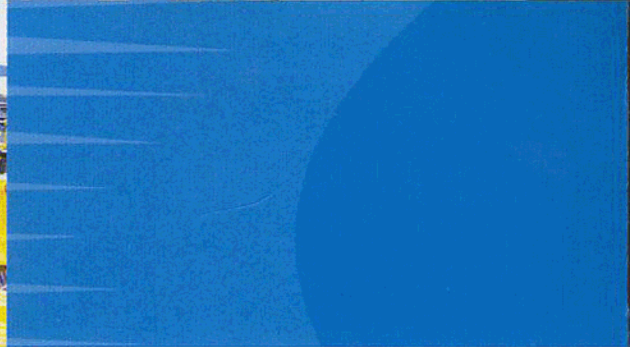




PERANGKAAN TAHUNAN PERIKANAN

ANNUAL FISHERIES STATISTICS

**1998
(Volume 1)**



JABATAN PERIKANAN MALAYSIA

Cawangan Pengutipan Data, Tingkat 7, Blok 4G2, Wisma Tani,
Presint 4, Pusat Pentadbiran Kerajaan Persekutuan
62628 PUTRAJAYA, MALAYSIA
Tel : 03-8870 4034 Faks : 03-8870 4033



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(ANNUAL FISHERIES STATISTICS)
1998

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JABATAN PERIKANAN MALAYSIA
Department of Fisheries Malaysia
Tingkat 8 & 9, Wisma Tani
Jalan Sultan Salahuddin
50628 Kuala Lumpur

Tel: 03-26982011
Fax: 03-26910305

FAUZI BIN ABDUL RAHMAN
Pegawai Perikanan (Statistik)
Kuala Lumpur

PENDAHULUAN

Perangkaan Tahunan Perikanan adalah pengeluaran tahunan Jabatan Perikanan sebagai satu sumber bahan rujukan utama mengenai data dan maklumat-maklumat penting terhadap industri perikanan Malaysia. Maklumat-maklumat ini termasuk data eksport/import komoditi perikanan.

Data mengenai pengeluaran, nelayan, vesel, perkakas dan usaha menangkap ikan dimasukkan dalam Jilid ini (Jilid I) manakala data eksport/import (Jilid II) akan dicetak dan diedarkan berasingan kelak. Ini adalah kerana data eksport/import perlu disusun dari sumber-sumber lain.

Kami berharap penerbitan ini akan memberi faedah kepada semua terutamanya mereka yang memerlukan statistik perikanan yang terkini.

Terima kasih.

**Ketua Pengarah Perikanan
Jabatan Perikanan Malaysia
KUALA LUMPUR.**

FOREWORD

The Annual Fisheries Statistics is a bulletin produced annually by the Department of Fisheries as the main source of reference on vital data and informations on the Malaysian Fisheries Sector. It also includes the export/import data of fisheries commodities.

The data on production, fishermen, vessels, gears and fishing efforts are in this volume (Volume I) whereas the export/import data (Volume II) is separately published at a later date. This is due to the fact that the data is compiled from various sources.

We hope that this bulletin would be beneficial to all especially to those who require the latest fisheries statistics.

Thank you.

**Director-General of Fisheries
Department of Fisheries Malaysia
KUALA LUMPUR.**

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DAN (AND)

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(Standard Statistical Classification
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**KEDUDUKAN SEKTOR PERIKANAN
DI MALAYSIA**

***STATUS OF THE FISHERIES SECTOR
IN MALAYSIA***

KEDUDUKAN SEKTOR PERIKANAN DI MALAYSIA

1. PENDAHULUAN

Sektor perikanan di Malaysia terus memainkan peranan yang penting sebagai penyumbang utama ikan sebagai sumber makanan dan protein yang penting kepada negara. Sektor ini juga menyumbang sehingga 1.62% kepada KDNK, serta memberi peluang pekerjaan kepada 81,547 orang nelayan dan 21,619 orang penternak ikan. Sektor perikanan laut pantai menghasilkan pengeluaran yang berterusan iaitu sekitar 1.1 juta tan metrik setahun. Pencapaian ini adalah hasil dari usaha berterusan pengurusan sumber perikanan yang dilakukan oleh pihak Jabatan.

Beberapa tindakan sedang diusahakan oleh pihak Jabatan untuk meningkatkan pengeluaran ikan negara. Antara usaha-usaha yang sedang diambil untuk menambahkan pengeluaran ikan negara melalui tangkapan perikanan laut dalam serta membangunkan sektor akuakultur. Sehubungan dengan itu, penambahan vesel-vesel laut dalam serta pengawalseliaan yang lebih ketat terhadap vesel-vesel yang sedia ada akan memberi sumbangan yang positif kepada sektor perikanan di masa akan datang.

Bagaimanapun harapan untuk meningkatkan pengeluaran ikan, bergantung kepada potensi sektor akuakultur, yang mempunyai kawasan permukaan air berpotensi yang luas. Dijangkakan bahawa pengeluaran daripada sektor ini akan dapat ditingkatkan empat kali ganda menjelang tahun 2010. Perancangan dan langkah bersepadu telah diambil dengan penyertaan pihak swasta terutamanya badan-badan korporat. Adalah diyakini bahawa industri akuakultur akan menjadi pemangkin ke arah mempertingkatkan pengeluaran ikan negara dimasa akan datang.

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 (7) Extra.

1, 215, 206 + 133.647

2. PROFIL PERIKANAN

Pada tahun 1998 jumlah pengeluaran daripada sektor perikanan telah mencapai 1,353,197 tan metrik dengan nilai pengeluaran RM4.53 bilion. Sektor ini sekali lagi mencatatkan pertumbuhan sebanyak 5.64% dari segi pengeluaran dan 4.14% dari segi nilai. Penyumbangan sektor perikanan kepada KDNK adalah 1.62% untuk tahun 1998 berbanding dengan 1.57% dalam tahun 1997. Di samping itu sumbangan kepada sektor pertanian juga menggalakan di mana ia telah meningkat daripada 12.57% pada tahun 1997 kepada 13.22% pada tahun 1998.

Mengikut sektor, pengeluaran perikanan marin menyumbang 89.8% daripada pengeluaran ikan negara iaitu sebanyak 1,215,206 metrik tan yang bernilai RM3.81 bilion. Perikanan pantai masih kekal sebagai penyumbang utama dengan pengeluaran sebanyak 1,079,953 tan metrik bernilai RM3.44 bilion. Sektor perikanan laut dalam, yang belum mencapai potensi maksimanya menyumbang 10.0% iaitu sebanyak 135,253 tan metrik bernilai RM368 juta.

Pada masa yang sama, sektor akuakultur telah mencatatkan pengeluaran sebanyak 133,647 tan metrik iaitu menyumbang kira-kira 9.9% daripada jumlah pengeluaran ikan negara. Angka ini meningkat sebanyak 23.77% jika dibandingkan dengan pengeluaran pada tahun 1997. Pengeluaran sistem-sistem kultur utama menunjukkan pertumbuhan yang sangat menggalakkan. Pengeluaran dari sistem-sistem kultur ini yang menghasilkan produk yang lebih berharga, maka nilai pengeluaran turut meningkat sebanyak 7.43% dari RM609.04 juta pada tahun 1997 kepada RM654.29 juta pada tahun 1998.

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Sektor perikanan darat tetap mencatatkan pengeluaran yang rendah iaitu hanya 4,344 tan metrik pada tahun 1998 atau 0.32% daripada jumlah pengeluaran ikan negara. Pada tahun 1998, industri ikan hiasan mencatat pengeluaran sebanyak 325 juta ekor ikan bernilai RM70.40 juta iaitu peningkatan sebanyak 1.68% daripada jumlah nilai pengeluaran sektor perikanan.

Dari segi guna tenaga, sektor perikanan terdiri daripada 81,547 orang nelayan yang bekerja di atas vesel-vesel menangkap ikan yang berlesen dan 21,619 orang penternak ikan yang terlibat di dalam berbagai sektor akuakultur. Angka ini tidak termasuk beribu-ribu pengusaha yang terlibat secara langsung atau tidak langsung dalam aktiviti-aktiviti hiliran dan industri-industri yang berhubung kait dengan industri perikanan. Jumlah vesel menangkap ikan yang dilesenkan pada tahun 1998 ialah 32,846 buah di mana kebanyakannya mengusahakan pukuk-pukuk tradisional (79.3%).

3. PERIKANAN MARIN

3.1 Nelayan

Pada tahun 1998 sejumlah 81,547 orang nelayan yang bekerja di atas vesel-vesel menangkap ikan berlesen iaitu meningkat sebanyak 3.24% jika dibandingkan dengan tahun 1997. Nisbah nelayan yang bekerja dengan vesel menangkap ikan komersial (41.3%) berbanding dengan bilangan nelayan yang bekerja di vesel menangkap ikan tradisional (58.7%) tidak berubah dalam tempoh tersebut.

Negeri Kedah telah mencatatkan penurunan bilangan nelayan yang ketara iaitu sebanyak 13.6% manakala Negeri Perlis mencatatkan penambahan bilangan nelayan sebanyak 19.9%. Perubahan ini mungkin akibat daripada perpindahan operasi perikanan laut dalam ke Negeri Perlis. Negeri Perak juga menunjukkan penambahan nelayan yang ketara iaitu sebanyak 11.6%. Negeri Sarawak mencatatkan penambahan nelayan seperti dijangkakan

sebanyak 37.8% ekoran berbagai usaha yang diambil untuk membangunkan perikanan laut dalam di Sarawak. Negeri Pulau Pinang, Selangor, Negeri Sembilan, Melaka, Johor Barat, Pahang dan Johor Timur masing-masing mencatatkan penurunan bilangan nelayan sebanyak 7.5%, 9.7%, 9.6%, 15.9%, 11.4%, 5.9% dan 8.0%.

Pada masa yang lepas, industri perikanan laut dalam seringkali dipengaruhi oleh industri perikanan negara jiran. Berbagai langkah telah diambil untuk memastikan bahawa pembangunan industri perikanan laut dalam akan membawa keuntungan maksima kepada negara. Walau bagaimanapun, buat masa sekarang, pengusahaan vesel-vesel menangkap ikan laut dalam masih bergantung kepada penggunaan tenaga kerja asing. Dengan penglibatan vesel-vesel carter dalam industri laut dalam, bilangan nelayan asing telah bertambah daripada 8,347 orang pada tahun 1997 kepada 13,093 orang pada tahun 1998 iaitu pertambahan sebanyak 56.9%. Sebanyak 7,239 orang nelayan asing telah diluluskan untuk berkerja di Semenanjung Malaysia, 87 orang di Labuan dan 5,767 orang di Negeri Sabah. Peratus nelayan asing yang telah diluluskan untuk berkerja di Negeri Sabah ialah 44.05%, Perlis 20.06%, Kelantan 13.5%, Terengganu 12.03%, Kedah 6.74% dan Johor Timur 0.31%.

3.2 Vesel-vesel Menangkap Ikan

Bilangan vesel-vesel menangkap ikan yang berdaftar di Malaysia sebanyak 32,846 buah pada tahun 1998 jika dibandingkan dengan tahun 1997 sebanyak 32,672 buah, iaitu bertambah cuma 0.53%. Kebanyakan vesel-vesel ini beroperasi di laut pantai yang telah dieksploitasikan ke tahap maksima. Dasar Jabatan sekarang ini, memberi keutamaan kepada vesel-vesel menangkap ikan laut dalam yang berpotensi di Malaysia Timur.

Bilangan vesel-vesel di Semenanjung Malaysia mencatatkan penurunan sebanyak 1.93% (dari 20,365 buah kepada 19,971 buah) diikuti Pantai Timur menunjukkan penurunan sebanyak 3.90% dan Pantai Barat juga mencatatkan penurunan sebanyak 1.11%. Bilangan vesel-vesel menangkap ikan yang dilesenkan di Sabah dan Sarawak menunjukkan sedikit pertambahan.

Perancangan dan pembangunan sektor perikanan laut dalam mengambil kira status sumber perikanan berdasarkan maklumat yang diperolehi dari sumber perikanan. Bilangan vesel menangkap ikan yang dibenarkan untuk sektor perikanan laut dalam agak kecil jika dibandingkan dengan vesel perikanan laut pantai iaitu terdapat lebih dari 30,000 buah vesel yang dilesenkan untuk menerokai perairan laut pantai. Pada tahun 1998 bilangan vesel laut dalam yang dilesenkan ialah 458 buah. Adalah dijangkakan bahawa pengeluaran dari sektor ini akan berkembang dan akan menyumbangkan lebih banyak dalam pengeluaran ikan negara.

3.3 Perkakas Menangkap Ikan

Pada kebiasaannya sebuah vesel menangkap ikan dilesenkan untuk mengusahakan sejenis perkakas sahaja. Walau bagaimanapun terdapat operasi menangkap ikan yang mana lebih daripada sebuah vesel menangkap ikan digunakan. Pada masa yang sama juga terdapat vesel-vesel menangkap ikan yang mengusahakan lebih daripada sejenis perkakas samada pada masa yang sama ataupun di musim yang berlainan. Oleh sebab itu bilangan lesen yang dikeluarkan untuk perkakas menangkap ikan dengan bilangan lesen yang dikeluarkan untuk vesel menangkap ikan biasanya tidak sama. Walaupun pada amnya kedua-duanya menggambarkan arah aliran yang sama terhadap perubahan usaha-usaha menangkap ikan dalam industri perikanan. Selari dengan penurunan dalam bilangan vesel menangkap ikan yang dilesenkan, bilangan perkakas menangkap ikan yang dilesenkan juga menurun iaitu sebanyak 4.1% (daripada 26,535 unit pada tahun 1997 kepada 25,451 unit pada tahun 1998). Penurunan ini terjadi antara vesel-vesel

menangkap ikan tradisi yang beroperasi menggunakan lebih daripada sejenis perkakas.

3.4 Pendaratan Ikan Marin

Pendaratan ikan marin bertambah dengan ketara iaitu sebanyak 3.96% daripada 1,168,973 tan metrik pada tahun 1997 kepada 1,215,206 tan metrik pada tahun 1998. Dari segi nilai pendaratan, terdapat penambahan sebanyak 3.53% iaitu dari RM3.68 bilion pada tahun 1997 kepada RM3.81 bilion pada tahun 1998. Didapati vesel-vesel menangkap ikan komersial yang mengusahakan pukat tunda dan pukat jerut ikan menghasilkan 74.0% daripada pengeluaran ikan marin. Pada keseluruhannya pendaratan oleh vesel-vesel menangkap ikan pukat tunda meningkat 14.2% iaitu dari 596,759 tan metrik pada tahun 1997 ke 681,223 tan metrik pada tahun 1998. Juga pendaratan oleh vesel-vesel pukat jerut ikan meningkat sebanyak 14.1% iaitu dari 190,978 tan metrik pada tahun 1997 kepada 217,944 tan metrik pada tahun 1998.

Jadual I

Malaysia
Pendaratan dan Nilai Perikanan Laut Pantai, 1998

	Pendaratan (Tan Metrik)	Nilai (RM)
Pantai Barat Semenanjung Malaysia	508,464	1,664,228,830
Pantai Timur Semenanjung Malaysia	294,352	828,349,322
Semenanjung Malaysia	802,816	2,492,578,152
Sabah	190,992	642,830,576
Sarawak	81,874	286,739,641
Wilayah Persekutuan Labuan	4,271	29,054,780
Jumlah	1,079,953	3,451,203,149

Sebahagian besar daripada pengeluaran ikan marin masih disumbangkan oleh sektor perikanan laut pantai (Jadual 1) yang mana pada tahun 1998 telah meningkat sebanyak 4.05% dari 1,037,887 tan metrik kepada 1,079,953 tan metrik iaitu menyumbang sebanyak 88.9% kepada jumlah pengeluaran ikan marin. Sektor perikanan pantai merupakan penyumbang utama kepada pendaratan ikan marin iaitu kekal pada tahap lebih kurang 80% tiap-tiap tahun. Vesel-vesel menangkap ikan komersial (pukat tunda dan pukat jerut) yang hanya merupakan 21% daripada jumlah bilangan vesel menangkap ikan sektor perikanan laut pantai telah menyumbangkan sebanyak 74% kepada jumlah pengeluaran sektor ini. Di kalangan sektor perikanan laut pantai, pendaratan oleh vesel pukat jerut ikan sebanyak 168,948 tan metrik manakala terdapat sedikit penambahan pendaratan oleh vesel pukat tunda iaitu sebanyak 14.2%. Walaupun bilangan vesel-vesel tradisional yang dilesenkan pada tahun 1998 meningkat tetapi pengeluarannya mencatatkan penurunan iaitu sebanyak 17% dari 381,236 tan metrik pada tahun 1997 kepada 315,005 tan metrik pada tahun 1998. Didapati bahawa sebahagian besar daripada pengeluaran laut pantai disumbang oleh vesel-vesel komersial terutamanya vesel pukat tunda dan pukat jerut ikan yang dilesenkan untuk beroperasi di sektor ini. Disamping itu didapati bahawa penambahan pendaratan ikan di sektor perikanan laut pantai disumbangkan oleh vesel-vesel yang mengusahakan perkakas seperti pukat tunda, pukat jerut ikan, pukat hanyut, bubu dan pancing yang bertambah sebanyak 14.2%, 14.1%, 3.21%, 20.1% dan 9.5% masing-masing. Sebaliknya penurunan dalam pendaratan oleh vesel-vesel yang beroperasi menggunakan perkakas tradisional adalah seperti kemerosotan pendaratan oleh vesel pukat jerut bilis iaitu sebanyak 13.2% dari 22,288 tan metrik pada tahun 1997 kepada 19,348 tan metrik pada tahun 1998.

Jadual II

Malaysia
Pendaratan Perikanan Laut Dalam Mengikut Kumpulan Perkakas, 1998
(Kuantiti Dalam Tan Metrik)

	Pukat Tunda 70 GRT & Ke Atas	Pukat Jerut Ikan 70 GRT & Ke Atas	Rawai/ Pancing 70 GRT & Ke Atas	Jumlah
Pantai Barat Sem. Malaysia	29,868	12,850	0	42,718
Pantai Timur Sem. Malaysia	32,139	24,260	0	56,399
Semenanjung Malaysia	62,007	37,110	0	99,117
Sabah	0	5,039	196	5,235
Sarawak	20,461	679	199	21,339
Wilayah Persekutuan Labuan	3,363	6,168	31	9,562
Jumlah	85,831	48,996	426	135,253

Jadual III

Malaysia
Nilai Perikanan Perikanan Laut Dalam Mengikut Kumpulan Perkakas,
1998, (Nilai Dalam RM)

	Pukat Tunda 70 GRT & Ke Atas	Pukat Jerut Ikan 70 GRT & Ke Atas	Rawai/ Pancing 70 GRT & Ke Atas	Jumlah
Pantai Barat Sem. Malaysia	71,237,869	41,821,225	0	113,059,094
Pantai Timur Sem. Malaysia	76,654,408	78,955,868	0	155,610,276
Semenanjung Malaysia	147,892,277	120,777,093	0	268,669,370
Sabah	0	16,399,778	848,636	17,248,414
Sarawak	48,801,326	2,209,853	861,626	51,872,805
Wilayah Persekutuan Labuan	8,021,058	20,074,188	134,223	28,229,469
Jumlah	204,714,661	159,460,912	1,844,485	366,020,058

Industri perikanan laut dalam (Jadual II dan III) merangkumi vesel-vesel menangkap ikan yang bermuatan 70 GRT ke atas yang mengusahakan pukot tunda, pukot jerut (kecuali pukot jerut bilis) .pancing, pukot hanyut yang beroperasi di kawasan perairan melebihi 30 batu notika. Pada tahun 1998 industri ini menyumbangkan sebanyak 135,253 tan metrik ikan atau merupakan 11.1% daripada jumlah pendaratan ikan marin di Malaysia. Pendaratan ini telah meningkat sebanyak 3.2% jika dibandingkan dengan tahun sebelumnya. Dari segi pendaratan, Pantai Barat Semenanjung Malaysia menyumbangkan 31.58% (42,718 tan metrik), Pantai Timur 41.70% (56,399 tan metrik), Sabah 3.87% (5,235 tan metrik), Labuan 7.07% (9,562 tan metrik) dan Sarawak 15.78% (21,339 tan metrik) daripada jumlah pendaratan perikanan laut dalam. Pada tahun 1998 nilai pengeluaran dari sektor perikanan laut dalam ialah RM366.02 juta iaitu 9.67% daripada jumlah nilai pendaratan ikan marin di Malaysia. Angka ini bertambah sebanyak 0.18% iaitu daripada RM365.38 juta pada tahun 1997 kepada RM366.02 juta pada tahun 1998.

Dalam sektor perikanan laut dalam, pendaratan oleh vesel-vesel pukot jerut menunjukkan penurunan sebanyak 11.7% iaitu daripada 55,494 tan metrik pada tahun 1997 kepada 48,996 tan metrik pada tahun 1998. Walau bagaimanapun pendaratan oleh vesel-vesel pukot tunda telah meningkat sebanyak 14.0% iaitu daripada 75,269 tan metrik pada tahun 1997 kepada 85,831 tan metrik pada tahun 1998.

4. AKUAKULTUR

4.1 Pengeluaran Akuakultur

Pada keseluruhannya, industri akuakultur menyumbang sebanyak 11.0% daripada jumlah pengeluaran ikan negara. Dan industri ini merupakan sektor yang terus berpotensi untuk meningkatkan permintaan ikan negara. Berkemungkinan tinggi akuakultur akan memainkan peranan utama didalam pengeluaran makanan di abad yang akan datang. Walaupun perancangan

dan usaha-usaha telah diambil untuk membangunkan sektor ini, ia akan mengambil satu tempoh masa sebelum hasil dan matlamat yang ditetapkan dapat dicapai sepenuhnya.

Pengeluaran dari sektor akuakultur untuk tahun 1998 terus dipengaruhi oleh pengeluaran kerang yang meningkat. Peningkatan ini telah mendorong pengeluaran keseluruhan yang meningkat sebanyak 23.8% kepada 133,647 tan metrik tahun ini. Walau bagaimanapun pengeluaran dari sistem kultur yang lain meningkat sebanyak 4.7% dari 49,583 tan metrik kepada 51,930 tan metrik pada tahun 1998.

Selain pengeluaran ikan untuk makanan, industri akuakultur juga mengeluarkan ikan hiasan. Pengeluaran dari sektor ini meningkat sebanyak 5.0% dari 309,093,053 ekor dalam tahun 1997 kepada 324,542,970 ekor dalam tahun 1998. Manakala dari segi nilai, peningkatan adalah sebanyak 15.0% dari RM61.22 juta dalam tahun 1997 kepada RM70.40 juta dalam tahun 1998.

Sejumlah 21,619 penternak terlibat dalam industri akuakultur dalam tahun 1998, iaitu meningkat sebanyak 9.65%. Sejumlah besar tenaga kerja terlibat dalam sektor airtawar terutama dalam ternakan kolam (70.30%), dengan selebihnya didalam sektor bekas lombong (1.2%), sangkar airtawar (17.2%) tangki simen (1.5%) dan kandang airtawar (4.2%). Pengeluaran dari semua sistem ternakan meningkat kecuali ternakan dalam tangki simen, ternakan kandang dan ternakan siput sudu menunjukkan penurunan. Punca utama peningkatan ini disebabkan oleh peningkatan pengeluaran kerang. Pada masa yang sama kadar pengeluaran juga turut meningkat dengan ketaranya untuk beberapa sistem kultur yang utama.

4.2 Ternakan Airtawar

Ternakan airtawar menyumbang sebanyak 24.8% dari jumlah pengeluaran akuakultur. Dalam tahun 1998 jumlah pengeluaran ternakan air tawar telah meningkat sebanyak 4.8% iaitu dari 31,672 tan metrik kepada 33,183 tan metrik. Dari segi nilai pula ia merekodkan RM195.29 juta iaitu penurunan 18.5% berbanding tahun sebelumnya dan dengan itu menyumbang hampir 29.9% dari jumlah nilai pengeluaran akuakultur keseluruhan.

Sektor ternakan kolam airtawar merupakan penggerak utama dalam sistem ternakan ini, menyumbang sebanyak 79.8% (26,465 tan metrik) daripada jumlah pengeluaran airtawar iaitu meningkat 8.5% berbanding dengan pengeluaran tahun 1997. Dari segi nilai ia mencatatkan penurunan sebanyak 19.3% dari RM207.09 juta kepada RM167.18 juta. Kebanyakan negeri menunjukkan peningkatan dalam pengeluaran, di mana negeri Sarawak mendahului senarai peningkatan pengeluaran hampir empat kali ganda dengan penghasilan sebanyak 768 tan metrik atau 400.0%. Pengeluaran dari negeri Johor juga meningkat melebihi satu setengah kali ganda dengan penghasilan sebanyak 1,879 tan metrik atau 158.0% diikuti oleh negeri Selangor yang menghasilkan sebanyak 4,482 tan metrik iaitu peningkatan sebanyak 37.0%. Lain-lain negeri juga merekodkan peningkatan pengeluaran tetapi sebaliknya pengeluaran dari negeri Kelantan, Pahang dan Pulau Pinang tidak begitu menyakinkan. Negeri Sabah yang biasanya menyumbang 30.0%, juga tidak mencatatkan pertumbuhan pada tahun 1998. Spesis utama yang diternak ialah keli (5,220 tan metrik), tilapia merah (4,543 tan metrik) tilapia hitam (4,280 tan metrik) dan belut (2,250 tan metrik).

Pengeluaran dari bekas lombong juga meningkat sebanyak 27.0% (dari 2,850 tan metrik dalam tahun 1997 kepada 3,618 tan metrik dalam tahun 1998). Nilai pengeluaran meningkat sebanyak 18.9% dari RM10.39 juta dalam tahun 1997 kepada RM12.35 juta dalam tahun 1998. Pada keseluruhan luas kawasan ternakan telah meningkat dari 1,039 hektar pada tahun 1997 kepada 1,479 hektar dalam tahun 1998. Perak dan Selangor

merupakan pengeluar utama dalam ternakan bekas lombong. Walau bagaimanapun negeri Pahang menunjukkan kemerosotan pengeluaran dari 64 tan metrik kepada 7 tan metrik. Spesis utama yang dihasilkan ialah Tilapia Merah (42.5%) diikuti oleh Kap Kepala Besar (21.4%) dan Kap Rumput (6.8%).

Ternakan sangkar airtawar menyumbang 6.2% dari keseluruhan pengeluaran ternakan airtawar iaitu menunjukkan pertambahan sebanyak 8.3%, (peningkatan dari 1,883 tan metrik kepada 2,040 tan metrik dalam tahun 1998). Peningkatan ini disebabkan kadar purata pengeluaran telah meningkat dari 13.36 kg/m² kepada 15.73 kg/m². Ikan Tilapia Merah merupakan spesis utama ditanam (63.8%) diikuti Patin (22.3%) dan Baung (11.3%). Pengeluaran dari negeri Terengganu meningkat dari 808 tan metrik dalam tahun 1997 kepada 844 tan metrik dalam tahun 1998. Negeri Pahang juga menunjukkan peningkatan pengeluaran dari 579 tan metrik kepada 716 tan metrik. Sebaliknya pengeluaran bagi negeri-negeri seperti Perak, Selangor, Negeri Sembilan dan Melaka agak perlahan.

Ternakan tangki simen dan kandang menyumbang 1,060 tan metrik terutama ternakan Tilapia Merah, Patin, Lampam Jawa dan Ikan Keli. Sistem ternakan ini terus berkembang ke negeri Johor, Terengganu dan Negeri Sembilan.

4.3 **Sistem Air Payau**

Dalam tahun 1998, sektor air payau menyumbang 75.0% daripada jumlah pengeluaran akuakultur. Sumbangan ini meningkat dari 70.0% dalam tahun 1997. Ini disebabkan oleh peningkatan penghasilan kerang, ternakan kolam, air payau, ternakan sangkar air payau dan ternakan tiram. Pengeluaran dalam tahun 1998 meningkat sebanyak 31.7% dari 76,311 tan metrik pada tahun 1997 ke 100,464 tan metrik.

Penghasilan **kerang** meningkat dengan ketara sebanyak 40.0% dari 58,400 tan metrik dalam tahun 1997 kepada 81,717 tan metrik dalam tahun 1998. Negeri Perak menghasilkan 66.7% dari pengeluaran pada tahun 1998 (54,507 tan metrik dari 33,898 tan metrik). Penghasilan kerang dari Negeri Pulau Pinang juga meningkat dari 12,623 tan metrik kepada 13,167 tan metrik. Selangor juga menunjukkan peningkatan dari 11,589 tan metrik kepada 13,788 tan metrik dalam tahun 1998.

Pengeluaran dari ternakan **kolam air payau** meningkat sebanyak 11.7% dari 10,384 tan metrik dalam tahun 1997 kepada 11,600 tan metrik dalam tahun 1998. Peningkatan disebabkan oleh pertambahan bilangan kolam ternakan oleh penternak yang terlibat (tambahan 9.4% kepada 6,051). Nilai juga bertambah sebanyak 37.1% dari RM224.94 juta kepada RM308.48 juta. Pengeluaran dari negeri Kedah menurun sebanyak 56.7%, negeri Melaka sebanyak 38.0%, Negeri Sembilan sebanyak 13.4% dan negeri Kelantan sebanyak 61.5%. Negeri Sabah yang pada keseluruhannya menyumbang sebanyak 23.4% daripada jumlah pengeluaran kolam air payau dalam tahun 1998, mencatat penurunan pengeluaran sebanyak 6.3% kepada 2,717 tan metrik.

Pengeluaran dari **sangkar air payau** tidak begitu menggalakkan iaitu cuma meningkat sebanyak 7.2% (6,023 tan metrik). Sementara nilai pengeluaran menurun sebanyak 16.7% dari RM100.29 juta kepada RM83.58 juta dalam tahun 1998. Selangor menunjukkan peningkatan sebanyak 6.5% dari 1,121 tan metrik manakala negeri Perak merekodkan penurunan sebanyak 4.0% kepada 1,387 tan metrik. Pengeluaran dari negeri Johor meningkat sebanyak 2.8% dari 1,157 tan metrik pada tahun 1997 kepada 1,189 tan metrik pada tahun 1998.

Pengeluaran utama dari sangkar air payau terdiri daripada ikan siakap dan jenahak yang menyumbang sebanyak 81.9% daripada pengeluaran sektor ini. Lain-lain spesis termasuk kerapu, ikan merah, tilapia merah dan ketam.

Pengeluaran **siput sudu** telah menurun sebanyak 44.6% dari 1,779 tan metrik dalam tahun 1997 kepada 986 tan metrik dalam tahun 1998. Negeri Johor yang merupakan pengeluar utama dengan pengeluaran sebanyak 717 tan metrik dengan menyumbangkan 72.7% pengeluaran siput sudu negara.

Nilai pengeluaran siput sudu menurun dari RM1 juta dalam tahun 1997 kepada RM0.59 juta 1998 iaitu penurunan sebanyak 35.0%. Jumlah pengeluaran tiram adalah sebanyak 138 tan metrik dalam tahun 1998 dengan nilai pengeluaran sebanyak RM3.3 juta iaitu satu peningkatan dari RM2.1 juta dalam tahun 1997. Negeri Sabah menunjukkan pertumbuhan yang pesat dalam ternakan tiram, dengan penghasilan yang tertinggi iaitu sebanyak 83 tan metrik berbanding sebanyak 73 tan pada tahun sebelumnya.

4.4 **Ikan Hiasan**

Jumlah pengeluaran ikan hiasan telah menunjukkan peningkatan sebanyak 5.0% dari 309,093,053 ekor dalam tahun 1997 kepada 324,542,970 ekor dalam tahun 1998. Dari segi nilai terdapat peningkatan sebanyak 15.0% dari RM61.22 juta dalam tahun 1997 kepada RM70.40 juta dalam tahun 1998. Negeri Johor masih kekal sebagai pengeluar utama ikan hiasan yang menyumbang sebanyak 231,069,051 ekor, iaitu 71.2% dari jumlah keseluruhan pengeluaran ikan hiasan dalam tahun 1998. Ini diikuti oleh Perak yang menyumbangkan sebanyak 70,400,970 ekor iaitu 21.7%, Selangor menyumbangkan sebanyak 15,145,600 ekor iaitu 4.7%, dan Pulau Pinang menyumbangkan sebanyak 7,711,872 ekor iaitu 2.4% dari jumlah pengeluaran ikan hiasan dalam tahun 1998. Dua kumpulan utama ikan hiasan yang dikeluarkan adalah 'cyprinid' yang menyumbangkan sebanyak 43.6% dan 'poeciliid' yang menyumbangkan sebanyak 32.4% dari jumlah pengeluaran ikan hiasan negara.

5. **PENGELUARAN BENIH**

Pengeluaran benih ikan air tawar dari pusat-pusat pembaikbiak ikan kerajaan pada tahun 1998 sebanyak 30.13 juta ekor. Spesis utama yang dibiak ialah Lampam Jawa (7.12 juta ekor), Tilapia Merah (5.14 juta ekor), Jelawat (3.58 juta ekor) dan Keli (3.20 juta ekor). Semua spesis ini menyumbang sebanyak 63.2% daripada pengeluaran keseluruhan benih-benih ikan daripada pusat-pusat kerajaan.

Pengeluaran benih ikan/udang air payau daripada pusat-pusat kerajaan pada tahun 1998 sebanyak 214.49 juta ekor. Spesis utama yang dibiak ialah Siakap (50.45 juta ekor), Udang Harimau (4.64 juta ekor) dan Udang Galah (5.61 juta ekor). Semua spesis ini menyumbang sebanyak 28.3% daripada jumlah pengeluaran keseluruhan benih-benih udang/ikan daripada pusat-pusat kerajaan.

Pada tahun 1998 sejumlah 4.78 juta ekor benih ikan air tawar dilepaskan ke perairan umum dan sejumlah 4.62 juta ekor benih ikan air tawar digunakan untuk kegunaan pelbagai.

Sebanyak 24.67 juta ekor benih ikan air tawar dibahagikan kepada penternak-penternak pada tahun 1998. Penternak Sarawak menggunakan benih-benih ikan airtawar sebanyak 15.05 juta ekor. Negeri Sabah sebanyak 2.81 juta ekor dan Perak 2.12 juta ekor. Semua negeri-negeri ini menggunakan benih ikan air tawar sebanyak 81.0% daripada jumlah keseluruhan pengedaran benih-benih kepada negeri-negeri.

6. **PERAIRAN UMUM**

Pendaratan dari perairan umum telah meningkat dari 3,949 tan metrik pada tahun 1997 kepada 4,344 tan metrik pada tahun 1998 iaitu peningkatan sebanyak 10.0%. Negeri Perak menyumbang sebanyak 1,010 tan metrik atau 23.3% daripada keseluruhan pendaratan ikan dari perairan umum.

7. PENGELUARAN 'FEEDMILL'

Pada tahun 1998 terdapat sebanyak 31 buah kilang 'Feedmill' diseluruh negara dengan pengeluaran sebanyak 75,969 tan metrik. Negeri Sabah mempunyai sebanyak 8 buah kilang 'Feedmill' dengan jumlah pengeluaran sebanyak 27,231 tan metrik. Kemudian diikuti negeri Perak yang mempunyai sebanyak 6 buah kilang 'Feedmill' dengan jumlah pengeluaran sebanyak 22,956 tan metrik.

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STATUS OF THE FISHERIES SECTOR IN MALAYSIA

1. Introduction.

The fisheries sector in Malaysia plays an important role in providing fish as a source of food and protein. Contributing about 1.62% to the national Gross Domestic Product (GDP), it provides direct employment to more than 81,547 fishermen and 21,619 fish culturists. Over the years, the industry has succeeded in achieving a steady production from its marine inshore fisheries amounting to an average of 1.1 million tonnes annually. This production level has been successfully sustained through continuous efforts in resource management measures and controls.

In the quest to increase fish production, yet facing a strained inshore fisheries resources, efforts have been made to produce more from the deep-sea fishing sector and to boost the aquaculture industry. It is confident that with the increase in the number of deep-sea fishing vessels and with a tighter monitoring and surveillance control of the deep-sea fishing vessels, production from this sector will contribute greatly in the very near future. The real potential to increase fish production, however still remains within the aquaculture industry. With a vast potential inland areas and coastal water bodies, it is estimated that the production from the aquaculture industry can be increased by as much as four times its present level within the next decade. Through proper planning, concerted efforts have been made where with the participation of the corporate sectors, it is envisaged that the aquaculture industry will spear-head the quest to increase fish production in the next century.

2. FISHERIES PROFILE

In 1998, the total production from the fisheries sector amounted to 1,353,197 tonnes valued at RM4.53 billion. Statistically, the fisheries sector again recorded an overall increase in both production (5.64%) and value (4.14%). The indication that the fishing industry is poised to remain an important industry can be reflected by its greater contribution to the GDP which recorded 1.62% in 1998 as compared to 1.57% in 1997. Its contribution to the agricultural sector was also encouraging, increasing from 12.57% to 13.22%. Given the proper priority, it is no doubt that the fisheries sector can be an important contributor to the nation's food production.

By sector, production from marine captured fisheries contributed up to 89.8% of the nation's fish production standing at 1,215,206 tonnes with a value of RM3.81 billion. Within this sector, the coastal fisheries remained the major contributor with a production of 1,079,953 tonnes valued at RM3.44 billion. Still to be developed to its full potential, the deep-sea fisheries sector managed 135,253 tonnes contributing 10.0% to the total fish production valued at RM368 million.

At the same time, the aquaculture sector recorded a production of 133,647 tonnes which constituted about 9.9% to the total fish production increasing by 23.77% from the production of 1997. With strong growths in culture systems which generated higher value produce, the value from the aquaculture sector rose by 7.43% from RM609.04 million in 1997 to RM654.29 million in 1998.

The inland fisheries sector continued to be insignificant producing only 4,344 tonnes (0.32% of the total fish production). The contribution from the ornamental fish (aquarium) industry recorded 325 million pieces valued at RM70.40 million in 1998 representing 1.68% of the total value produced by the fisheries sector.

The work force of the fisheries sector consists of 81,547 fishermen working on licensed fishing vessels and 21,619 fish culturists involved in the various aquaculture sector. These figures do not include thousands more involved directly or indirectly in downstream activities and related industries. A total of 32,846 fishing vessels were licenced in 1998 with the majority operating traditional gears (79.3%).

3. MARINE FISHERIES

3.1 Fishermen.

With 81,547 fishermen working on licensed fishing vessels, the population of the marine fisheries work-force, has increased by 3.24%. However there was no change in the ratio of fishermen working on licensed commercial fishing vessels (41.3%) as against the number of fishermen working on traditional fishing vessels (58.7%).

Kedah recorded a drop of 13.6% in the number of fishermen while on the other hand Perlis recorded an increase of 19.9%. This apparent movement could be attributed to the shift to especially deep-sea fishing operations into Perlis. Perak showed an increase of 11.6% in its fishermen's population. The number of fishermen in Sarawak increased significantly by 37.8% as expected since considerable efforts had been put to develop the deep-sea fishing operation in this area. Penang, Selangor, Negeri Sembilan, Malacca, West Johore, Pahang and East Johore showed a drop in the fishermen population by 7.5%, 9.7%, 9.6%, 15.9%, 11.4%, 5.9% and 8.0% respectively.

For the last decade, the deep-sea fishing industry has been affected and influenced by the fisheries of neighbouring countries. Various measures have been taken to ensure that the expansion and development of the deep-sea fishing industry would bring maximum benefit to the country. Until then, the

operations of deep-sea fishing vessels, to a certain extent, will still have to rely on foreign work-force. The involvement of this controlled, small percentage of foreign workers in this sector of the fishing industry is considered necessary to accelerate the development of the industry itself. With the expansion of the deep-sea fishing fleet especially with the involvement of chartered vessels, the number of foreign fishermen have increased from 8,437 in 1997 to 13,093 in 1998 i.e. by nearly 56.9%. Of this, 7,239 foreign crews had been approved to work in Peninsular Malaysia with 87 in Labuan and 5,767 in Sabah. The percentage of the total foreign crews who had been approved to work on fishing vessels in Sabah were 44.05%, Perlis 20.06%, Kelantan 13.50%, Terengganu 12.03%, Kedah 6.74%, and East Johor 0.31%.

3.2 Fishing Vessels

The number of licensed fishing vessels in Malaysia stood at 32,846 units in 1998 as compared to 32,672 units in 1997 increasing by only 0.53%. The majority of the fishing vessels are operating in the coastal areas which have been exploited at an optimum level. In line with the management policy, the fishing fleet is only allowed to expand in the deep-sea fishing sector where the potential is more focus in East Malaysia. The fishing fleet in Peninsular Malaysia actually recorded a reduction of 1.93% (from 20,365 to 19,971) with the East Coast dipping by 3.90% and the West Coast by 1.1%. The slight increase in the number of fishing vessels licensed are mainly for Sabah and Sarawak.

Development of the deep-sea fishing fleet takes into serious consideration, the status of the fisheries resources. Taking a precautionary approach, the deep-sea fishing fleet will remain comparatively small compared with the over 30,000 units licensed to operate in the inshore waters. In 1998, the total number of deep-sea fishing vessels licensed still stood at 458 units. It is expected that the production from this sector will grow and contribute more to the nation's fish production.

3.3 Fishing Gears

Normally each fishing vessel is licensed to operate one fishing gear. However, there are fishing operations where more than one licensed fishing gears are being used. At the same time there are also licensed fishing vessels being issued more than one fishing gear licence at the same time or at different seasons. The number of fishing licence issued for fishing gear will normally exceed the number of fishing vessels licensed. There is a reduction in the total number of fishing gear licenses issued in 1998 by 4.1% as compared to 1997 (26,535 units in 1997 to 25,451 in 1998). The reduction occurs mainly amongst traditional fishing vessels which operate multiple/supplement gears.

3.4 Marine Fish landings.

The total marine landing increased significantly by 3.96% from 1,168,973 tonnes in 1997 to 1,215,206 tonnes for 1998. In terms of value, there was an improvement of 3.53% from RM3.68 billion in 1997 to RM3.81 billion in 1998. Commercial fishing vessels operating trawls and fish purse seiners produced 74% of the total marine fish landings. There was a slight increase in landings of trawlers by 14.2% from 596,759 tonnes in 1997 to 681,223 tonnes in 1998. Landing from the purse seiners also increased by 14.1% from 190,978 tonnes in 1997 to 217,944 tonnes in 1998.

Table 1

Malaysia
Landings and Values of Marine Inshore Fisheries, 1998

	Landing (Tonnes)	Value (RM)
West Coast of Peninsular Malaysia	508,464	1,664,228,830
East Coast of Peninsular Malaysia	294,352	828,349,322
Peninsular Malaysia	802,816	2,492,578,152
Sabah	190,992	642,830,576
Sarawak	81,874	286,739,641
Federal Territory of Labuan	4,271	29,054,780
Total	1,079,953	3,451,203,149

The bulk of the production is accounted for by the **inshore fisheries** (table 1) which, in 1998, recorded an increase of 4.05% from 1,037,887 tonnes in 1997 to 1,079,953 tonnes contributing 88.9% of the total marine production. Over the last two decades, this sector of the marine fisheries remained the major source of fish landing accounting nearly 80% annually. It is pertinent to note that within the inshore sector, the commercial fishing vessels (trawlers and fish purse seiners), though constituting to only about 21% of the total inshore fleet in number of operating units, produces 74% of the total inshore production. The traditional gears involving 26,058 units of fishing vessels produced only 315,005 tonnes in 1998. From the production of the traditional fishing vessels the increase in landings was contributed by vessels operating gears like portable traps (bubu) which increased by as much as 20.1%, and hook & line which increased by 9.5%. Harvest of shellfish which depends on natural spatfalls and natural environmental factors, decreased from 24,698 tonnes to 5,397 tonnes in 1998. There was a overall decrease in the landings of other traditional fishing vessels especially for those operating inside the inshore zone itself. Landings from

traditional vessels operating anchovy purse seine recorded a noticeable drop of 13.2% in 1998 from 22,288 tonnes in 1997 to 19,348 tonnes in 1998.

Table II

**Landings of Deep-Sea Fisheries by Gear Group, 1998
(Quantity in Tonnes)**

	Trawl nets 70 GRT & above	Fish Purse Seine nets 70 70 GRT & above	Hooks and Lines 70 GRT & above	Total
West Coast of Peninsular Malaysia	29,868	12,850	0	42,718
East Coast of Peninsular Malaysia	32,139	24,260	0	56,399
Peninsular Malaysia	62,007	37,110	0	99,117
Sabah	0	5,039	196	5,235
Sarawak	20,461	679	199	21,339
Federal Territory of Labuan	3,363	6,168	31	9,562
Total	85,831	48,996	426	135,253

Table III

Malaysia
Value of Deep Sea Fisheries by Gears Group 1997
(Value in RM)

	Trawl nets 70 GRT & above	Fish Purse Seine Nets 70 GRT & above	Hooks and Lines 70 GRT & above	Total
West Coast of Peninsular Malaysia	71,237,869	41,821,225	0	113,059,094
East Coast of Peninsular Malaysia	76,654,408	78,955,868	0	155,610,276
Peninsular Malaysia	147,892,277	120,777,093	0	268,669,370
Sabah	0	16,399,778	848,636	17,248,414
Sarawak	48,801,326	2,209,853	861,626	51,872,805
Federal Territory of Labuan	8,021,058	20,074,188	134,223	28,229,469
Total	204,714,661	159,460,912	1,844,485	366,020,058

The **deep sea fisheries** (table II and III) includes vessels of 70GRT and above operating trawl nets, purse seines (except anchovy purse seine) hooks and lines, driff/gill nets and operate at a distant of 30 nautical miles from the coast. It contributed a total of 135,253 tonnes of fish in 1998 which was 11.1% of the total marine fish landing of Malaysia and showed an increase 3.2% in 1998 as compared to the preceeding year. In terms of size of landings, the West Coast of Peninsular Malaysia contributed 31.58% (42,718 tonnes), East Coast 41.70% (56,399 tonnes), Sabah 3.87% (5,235 tonnes), Labuan 7.07% (9,562 tonnes) and Sarawak 15.78% (21,339 tonnes) of the total landings of the deep-sea fisheries. The deep-sea fisheries contributed RM366.02 million in 1998 which was 9.67% of the total marine fish landing value in Malaysia. The value of deep-sea fisheries increased by 0.18% from RM365.38 million in 1997 to RM366.02 million in 1998.

Within the deep-sea fishing sector, landing from vessels operating purse seines reported a drop of 11.7% from 55,494 tonnes in 1997 to 48,996 tonnes in 1998. However, landing from trawlers had increased by 14.0% from 75,269 tonnes in 1997 to 85,831 tonnes in 1998.

4. AQUACULTURE

4.1 Aquaculture production

Generally, the aquaculture industry, through the last decade provides about 11% of the total fish production. It is expected that the aquaculture industry would be the main potential sector to meet the increasing demand for fish. It is highly probable that aquaculture will be an important industry playing a major role in fish and food production in the next century. However, even though tremendous efforts and planning have put into developing aquaculture into a major and a formidable industry, it will take a period of time to deliver the targeted production.

The total aquaculture production for 1998 had been influenced by the increase in production of cockle harvest. This increase has great impact on the total aquaculture production, which increased by 23.8% to 133,647 tonnes for this year. However, production from other aquaculture system excluding cockle culture had improved by 4.7% from 49,583 tonnes in 1997 to 51,930 tonnes in 1998.

Besides producing fish for food, the aquaculture industry also produces ornamental fish (aquarium fish). Always on an increasing trend, production from this sector moved up again by 5.0% from 309,093,053 pieces in 1997 to 324,542,970 pieces in 1998 valued at RM70.40 million as compared to RM61.22 million in the previous year and showed an increase of 15.0%.

A total of 21,619 fish farmers/culturists were involved in the aquaculture industry in 1998, increasing by 9.65%. The bulk of the work force were involved in the freshwater sector especially in pond culture (70.30%), with the rest in ex-mining pool culture (1.2%), freshwater cage culture (17.2%), freshwater cement tank culture (1.5%), and freshwater pen culture (4.2%). Apparently the population of the farmers and culturists did not increase significantly. However, production of all culture systems showed remarkable improvements except for freshwater cement tank culture, pen culture and mussels culture. The main reason for this was mainly because of the expansion in the production areas. At the same time it was also noticed that in certain culture, the average production had improved significantly.

4.2 Freshwater culture

Contributing 24.8% to the total aquaculture production, in 1998, production from the freshwater culture, improved by 4.8% from 31,672 tonnes to 33,183 tonnes. In terms of value, it recorded RM195.29 million, which was 18.5% lower compared to the previous year, thus contributing to the total aquaculture value by nearly 29.9%.

The **freshwater pond culture** spearhead the sector, producing 79.8% (26,465 tonnes) of the total freshwater production improving by 8.5% as compared to the production recorded in 1997. In terms of value, it recorded a drop of 19.3% from RM207.09 million to RM167.18 million. Most states showed an increase in production with Sarawak heading the list growing by nearly four folds to produce a harvest of 768 tonnes. Production from Johore also doubled to 1,879 tonnes followed by Selangor, which managed to produce 4,482 tonnes increasing by 37%. Sabah which normally contributed up to 30% did not show any growth in 1998. Other states also recorded higher production but contribution from Kelantan, Pahang and Penang were not impressive. The major species cultured

for freshwater catfish (5,220 tonnes), red tilapia (4,543 tonnes) black tilapia (4,280 tonnes) and eels (2,250 tonnes).

Production from **ex-mining pool** also went up by 27.0% (from 2,850 tonnes in 1997 to 3,618 tonnes in 1998) posting a value of RM12.35 million improving by 18.9% from RM10.39 million in 1997. There was an increase in area from 1,039 hectares in 1997 to 3,618 hectares in 1998. Production was mainly due to better average production which improved from 2.74 tonnes/hectare in 1997 to 3.11 tonnes/hectare in 1998. Both Perak and Selangor remained strong in the ex-mining pool culture, showing remarkable growths, however Pahang was not able to sustain growth as production slumped from 64 tonnes to 7 tonnes. Major species produced remained the same with red tilapia (42.5%) being the favourite, followed by big head carp (21.4%) and grass carp (6.8%).

Freshwater cage culture which contributed 6.2% to the overall freshwater production also registered a growth of 8.3% increasing from 1,883 tonnes to 2,040 tonnes in 1998. This increase was due to the improvement in the average production from 13.36 kg/m² to 15.73kg/m². Red tilapia remained the most common species (63.8%) with river catfish (22.3%) (*Pangasius pangasius*) and river catfish (11.3%) (*Mystus spp.*) also commonly cultured. Production from Terengganu increased from 808 tonnes in 1997 to 844 tonnes in 1998. Pahang also increased production from 579 tonnes to 716 tonnes in 1998. Production from other states like Perak, Selangor, N.Sembilan and Malacca remained sluggish.

Freshwater tank and pen cultures together provided 1,060 tonnes of mainly red tilapia, river catfish (*Pangasius pangasius*), Javanese carp and freshwater catfish. These culture systems had been picking up especially in Johore, Terengganu and Negeri Sembilan.

4.3 Brackishwater System

In 1998, the brackishwater sector contributed 75% from the total aquaculture production increased from 70% as compare to 1997. This improvement was due to the increase production of cockle culture, brackishwater pond culture, brackishwater cage culture and oyster culture. Production from the brackishwater sector in 1998 had increased by 31.7% from 76,311 tonnes in 1997 to 100,464 tonnes.

Cockle harvest had increased significantly by 40% from 58,400 tonnes in 1997 to 81,717 tonnes in 1998. Perak contributed 66.7% of the total cockle harvest improving from 33,898 tonnes to 54,507 tonnes in 1998. Cockles harvest from Penang also increased from 12,623 tonnes to 13,167 tonnes. Selangor also showing the same trend, improving from 11,589 tonnes to 13,788 tonnes in 1998. Production from the **brackishwater pond** culture moved up by 11.71% from 10,384 tonnes in 1997 to 11,600 tonnes in 1998, as more people were involved (up 9.4% to 6,051). The value also increased by 37.1% from RM224.94 million to RM308.48 million. Production from Kedah decreased by 56.7%, Malacca by 38.0%, Negeri Sembilan by 13.4% and Kelantan by 61.5%. Sabah which contributed 23.4% of the total brackishwater pond production decreased its production in 1998 by 6.3% to 2,717 tonnes. Other states did not show any significant increment as compared to their production in 1997.

Growth from the **brackishwater cage** culture was not impressive managing only 7.2% to 6,023 tonnes. However, the value decreased by 16.7% from RM100.29 million to RM83.58 million in 1998. Selangor registered an increment of 6.5% from 1,121 tonnes and Perak recorded a decline by 4.0% to 1,387 tonnes. Production from Johore increased by 2.8% from 1,157 tonnes in 1997 to 1,189 tonnes in 1998. Main species from the brackishwater culture were barramundi (siakap) and mangrove snappers both making up 61.9% of the production. Other species included grouper, red snapper, red tilapia and crabs.

Mussels production dropped by 44.6% from 1,779 tonnes in 1997 to 986 tonnes in 1998. Johore being the main producer spearhead this culture system with production of 717 tonnes contributing up to 72.7% of the nation's mussel harvest. Value of mussel production drop from RM1 million in 1997 to RM0.59 million in 1998 decreased by 35%. Total oyster production in 1998 was 138 tonnes with a value of RM3.3 million and compared to 1997 showed an increase of 57.14%. Sabah showed a strong growth in oyster cultures, increased from 73 tonnes in 1997 to 83 tonnes in 1998.

4.4 Ornamental Fish

The total production of ornamental fish increased by 5.0% from 309,093,053 pieces in 1997 to 324,542,970 pieces in 1998. In terms of value, the increase was 15.0% from RM61.22 million in 1997 to RM70.40 million in 1998. Johor remained as the main producer of ornamental fish contributing 231,069,051 pieces which was 71.2% of the total production of ornamental fish in 1998. This was followed by Perak which contributed 70,400,970 pieces or 21.7%, Selangor 15,145,600 pieces (4.7%) and Penang 7,711,873 pieces which was 2.4% of the total production of ornamental fish. The two main groups of ornamental fish produced were Cyprinids contributing 43.6% (Goldfish, Koi, Barb, Danio) and Poecilids contributing 32.4% from the total ornamental fish production.

5. FINGERLINGS PRODUCTION

Production of freshwater fingerlings from government hatcheries in 1998 amounted to 30.13 million pieces. The main species breed were javanese carp (7.12 million pieces), red tilapia (5.14 million pieces), river catfish (3.2 million pieces) and river carp (3.58 million pieces). All the above species constituted 63.2% of the total production of the freshwater fingerlings from government hatcheries.

Production of brackishwater fish/prawn fingerlings from government hatcheries in 1998 were 214.49 million pieces. The main species produced were barramundi (50.45 million pieces), tiger prawn (4.64 million pieces) and giant freshwater prawn (5.61 million pieces). All the above species constituted 28.3% of the total production of brackishwater fish/prawn fingerlings from government hatcheries.

In 1998, 4.78 million pieces of freshwater fingerlings was released into public waterbodies and 4.62 million pieces of freshwater fingerlings was used for miscellaneous purposes.

A total of 24.67 million pieces of freshwater fingerlings were distributed to fish culturists in 1998. Fish culturists in state of Sarawak received 15.05 million pieces of freshwater fingerlings, Sabah 2.81 million pieces and Perak 2.12 million pieces. All the above states received 81.0% of the total freshwater fingerlings distributed to the fish culturists.

6. PUBLIC WATER BODIES/INLAND FISHERIES

Public water bodies/inland fisheries refers to the landing of fish from public waterbodies i.e. rivers, lakes, ex-mining pools and dams. The landing of public water bodies/inland fisheries increased by 10.0% from 3,949 tonnes in 1997 to 4,344 tonnes in 1998. Perak contributed 1,010 tonnes or 23.3% of the total landing of public water bodies/inland fisheries.

7. FEEDMILL PRODUCTION

There was 31 feedmills in the country with a total production of 75,969 tonnes in 1998. Sabah had 8 feedmills with a production of 27,231 tonnes and followed by Perak with 6 feedmills produced 22,956 tonnes.

PETA, CARTA DAN GRAF
MAPS, CHARTS AND GRAPHS

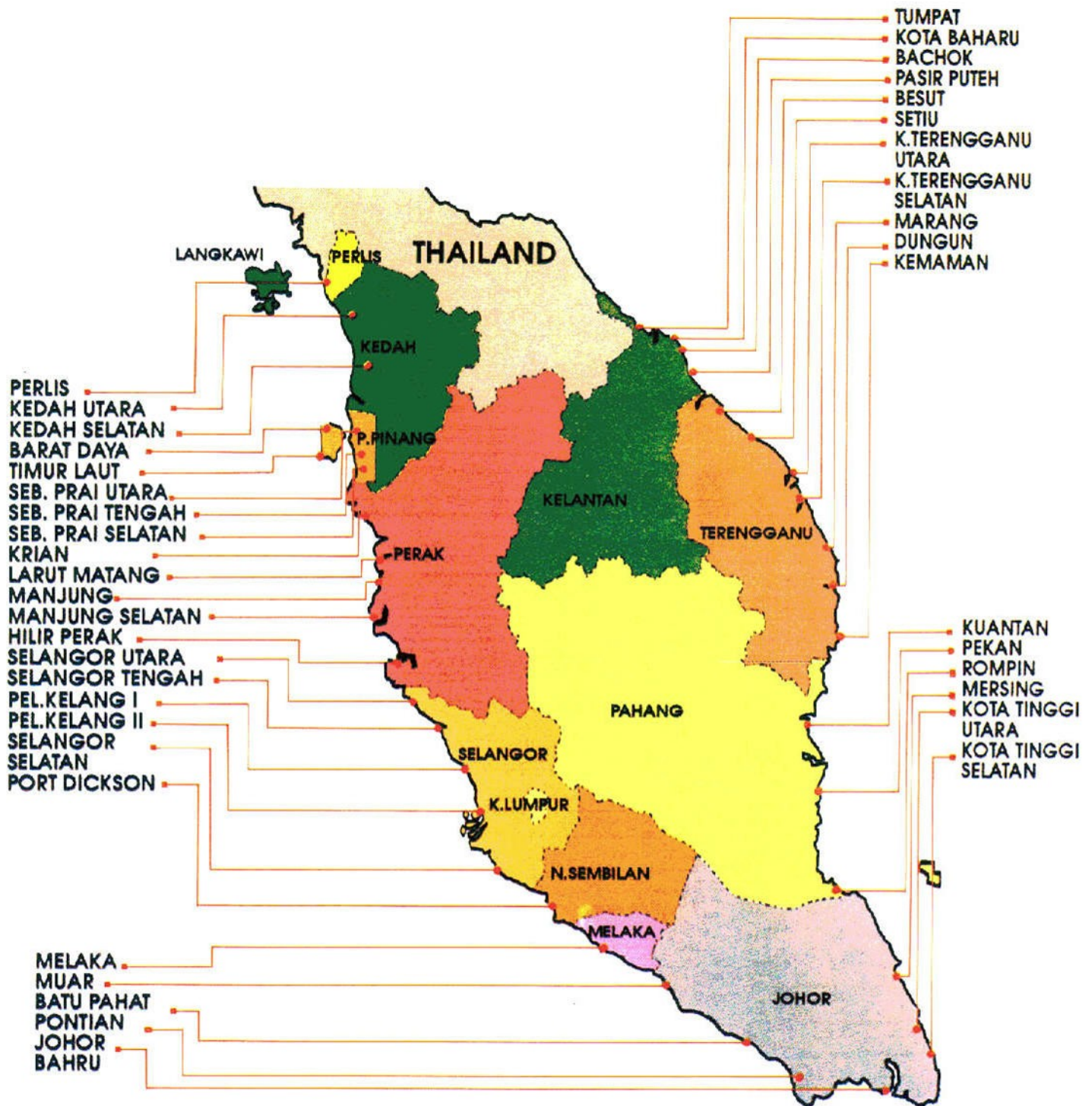
DAERAH-DAERAH PERIKANAN

FISHERIES DISTRICTS

MALAYSIA

MALAYSIA - DAERAH - DAERAH PERIKANAN

Malaysia - Fisheries Districts



Sempadan Negeri ————— State Boundary

Sempadan Daerah Perikanan ————— Fisheries Administrative Districts

SARAWAK

1. SEMANTAN
2. SANTUBONG
3. KUCHING
4. KUALA SADONG
5. BATANG LUPAR
6. SARIBAS/KALAKA
7. SARIKEI/BINTAGOR
8. BELAWAI
9. MATU DARO
10. SIBU/IGAN
11. MUKAH/OYA
12. BINTULU
13. MIRI
14. LIMBANG
15. LAWAS

SABAH

SANDAKAN
BELURAN
PITAS

KOTA MERUDU

KUDAT

KOTA BELUD

TUARAN

KOTA KINABALU

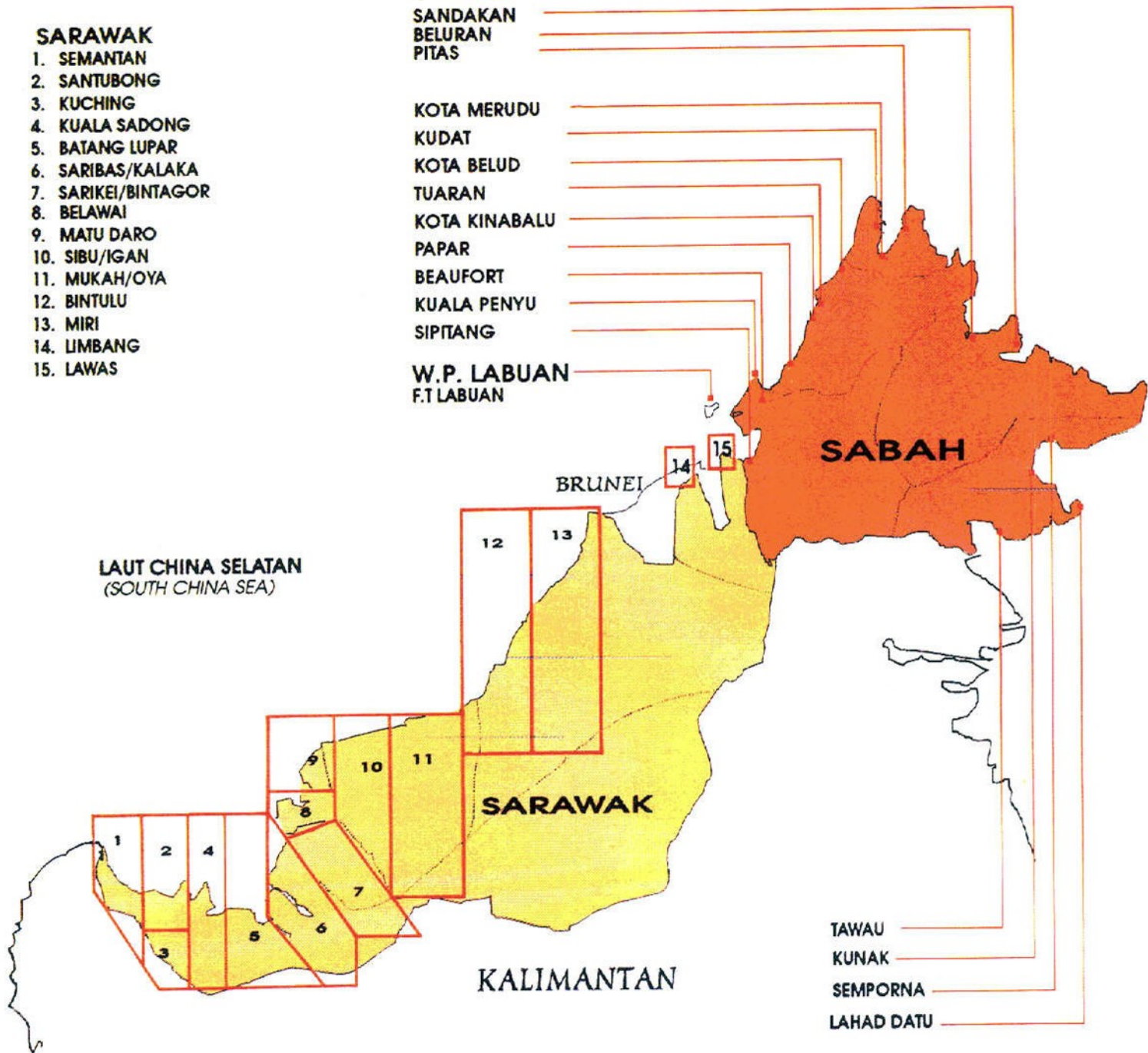
PAPAR

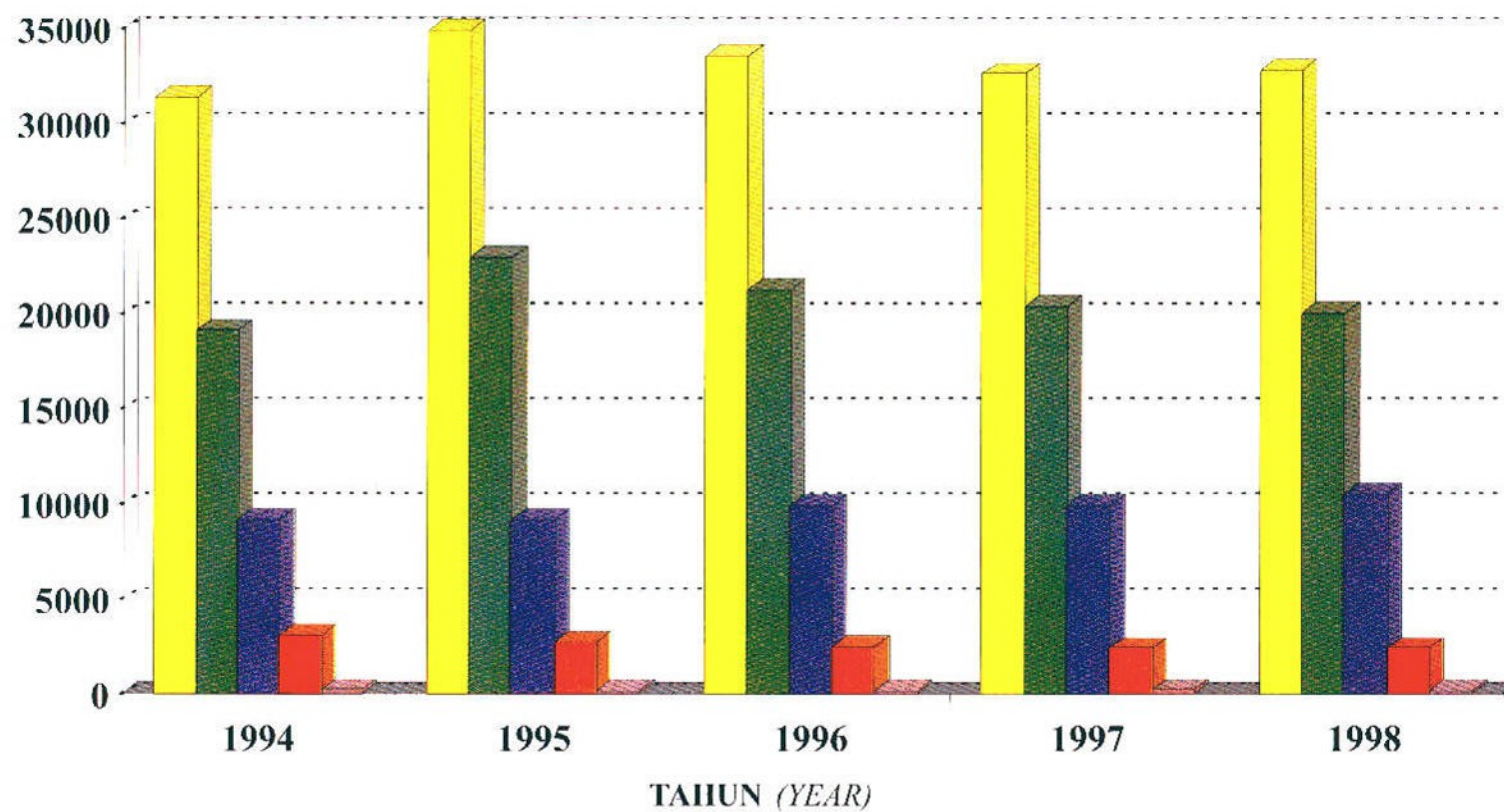
BEAUFORT

KUALA PENYU

SIPTANG

W.P. LABUAN
F.T. LABUAN



BILANGAN VESEL MENANGKAP IKAN YANG DILESENKAN, 1994-1998*(Number Of Fishing Vessels Licensed, 1994-1998)***MALAYSIA****BILANGAN VESEL***(Number Of Vessels)*

MALAYSIA ■ SEM.MALAYSIA ■ SABAH ■ SARAWAK ■ LABUAN
(Peninsular Malaysia)

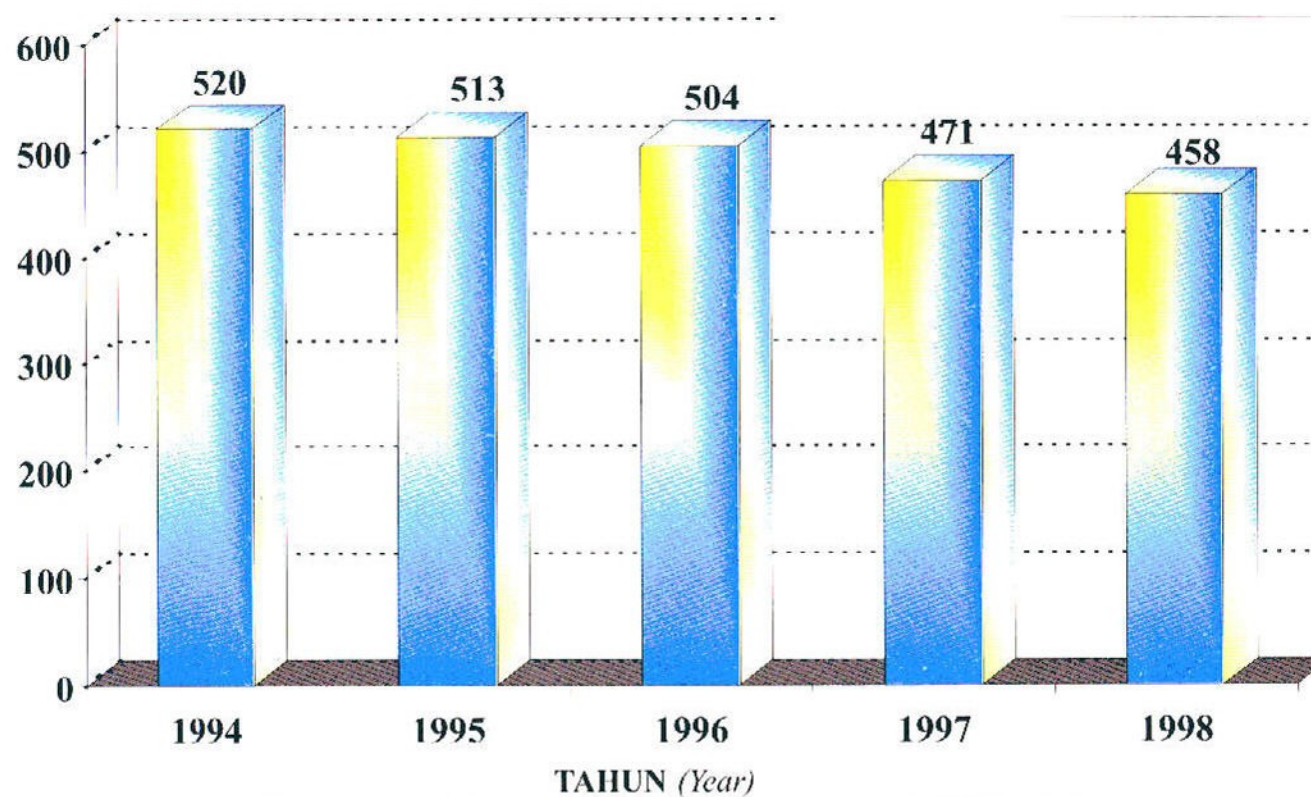
BILANGAN VESEL-VESEL LAUT DALAM YANG DILESENKAN, 1994-1998

(Number Of Deep-Sea Vessels Licensed, 1994 - 1998)

BILANGAN VESEL

(Number Of Vessels)

MALAYSIA



 **BILANGAN VESEL DILESENKAN**
(Number Of Vessels Licensed)

ARAH ALIRAN PENDARATAN IKAN LAUT, 1994-1998

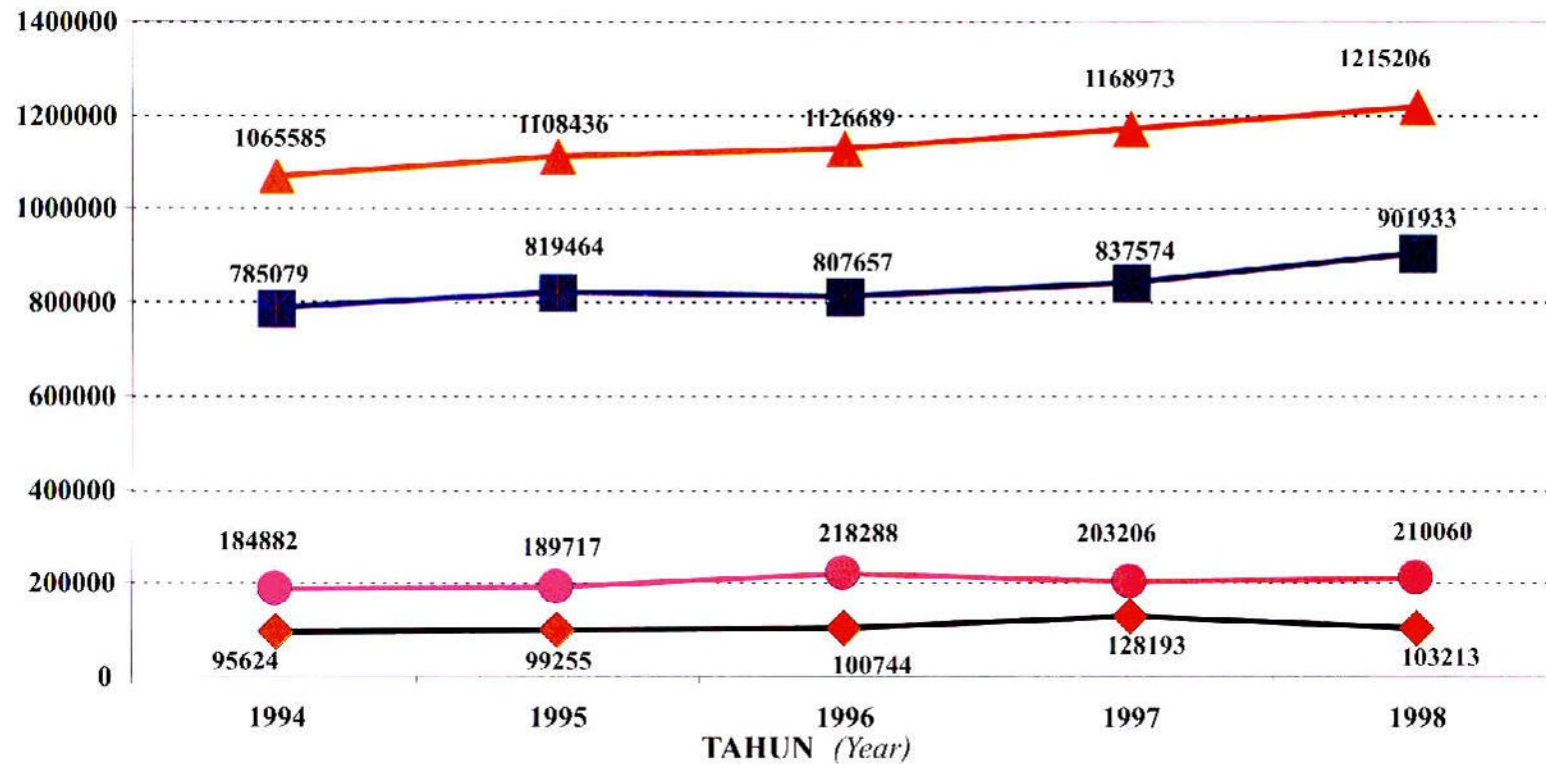
(Trend Of Marine Fish Landings, 1994-1998)

CARTA III
CHART III

MALAYSIA

KUANTITI DALAM TAN METRIK

(Quantity in Tonnes)



▲ MALAYSIA

◆ SARAWAK

■ SEM. MALAYSIA
(Peninsular Malaysia)

● SABAH/LABUAN

ARAH ALIRAN PENDARATAN UDANG, 1994-1998

(Trend Of Prawn Landings, 1994 - 1998)

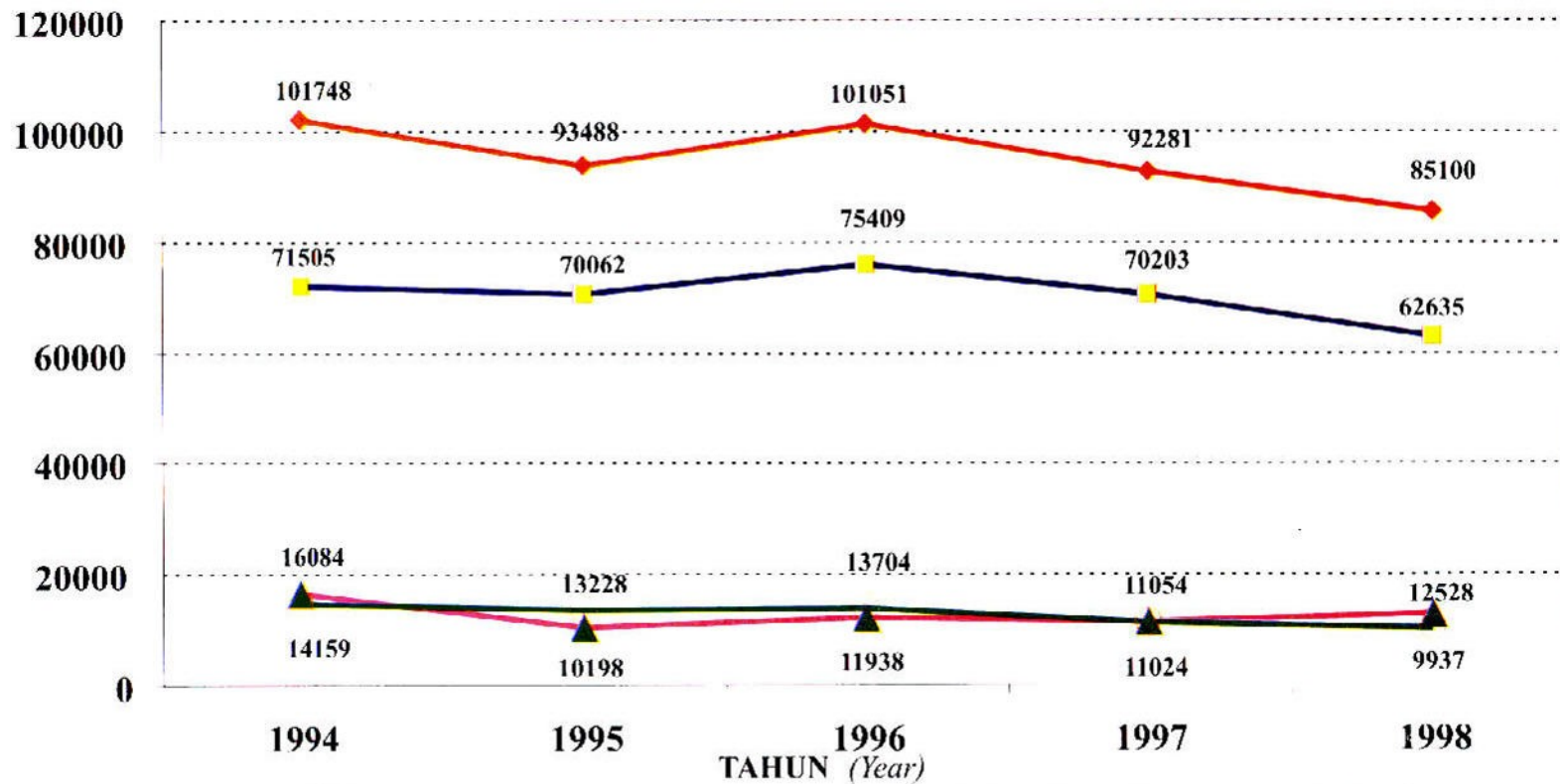
MALAYSIA

CARTA IV

CHART IV

KUANTITI DALAM TAN METRIK

(Quantity in Tonnes)



◆ MALAYSIA

■ SEM.MALAYSIA
(Peninsular Malaysia)

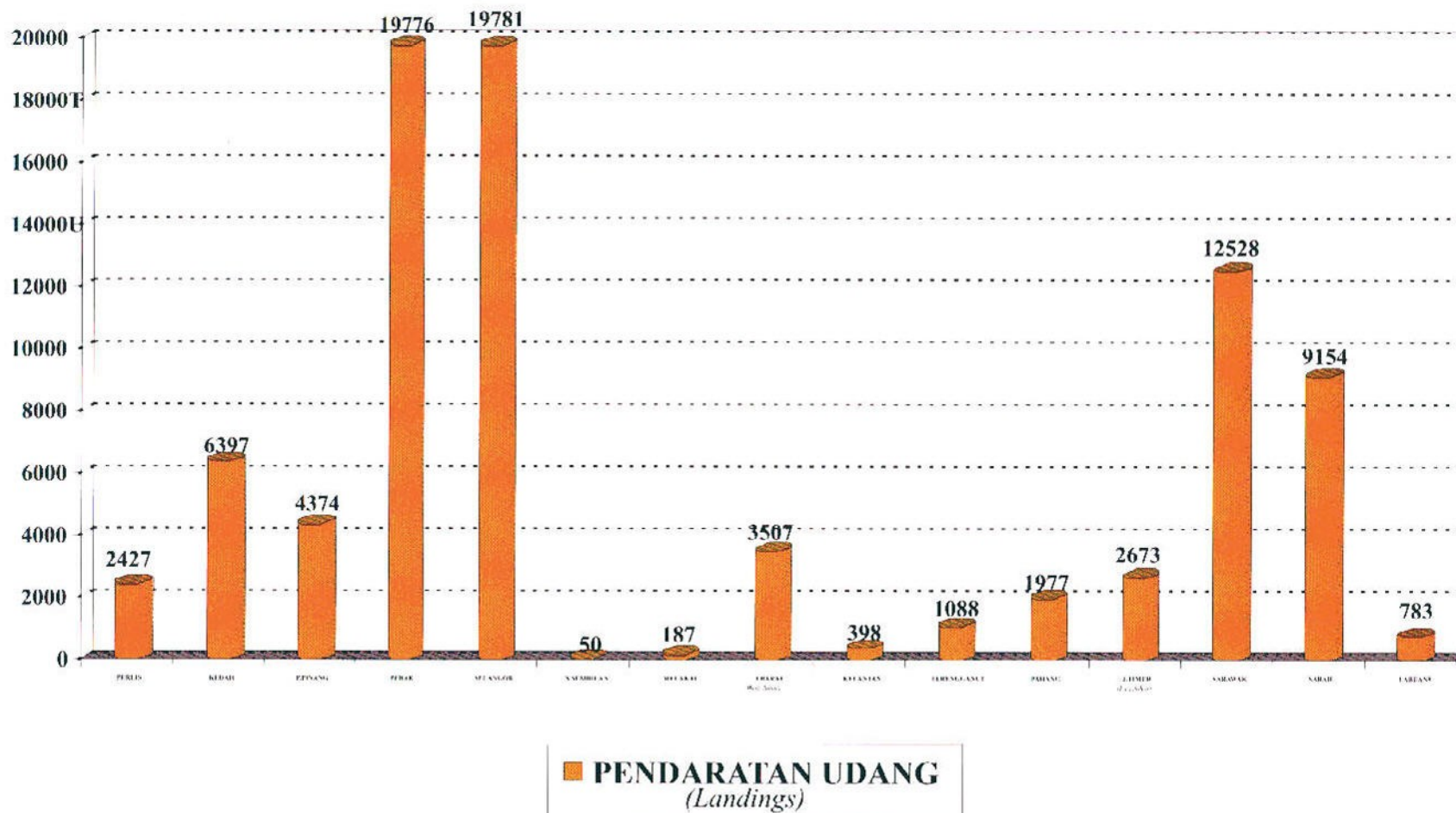
▲ SARAWAK

■ SABAH/LABUAN

PENDARATAN UDANG, 1998
(Prawn Landings, 1998)

MALAYSIA

Kuantiti Dalam Tan Metrik
(Quantity in Tonnes)



PENDARATAN PUKAT TUNDA, 1994-1998

(Trawl Landings, 1994-1998)

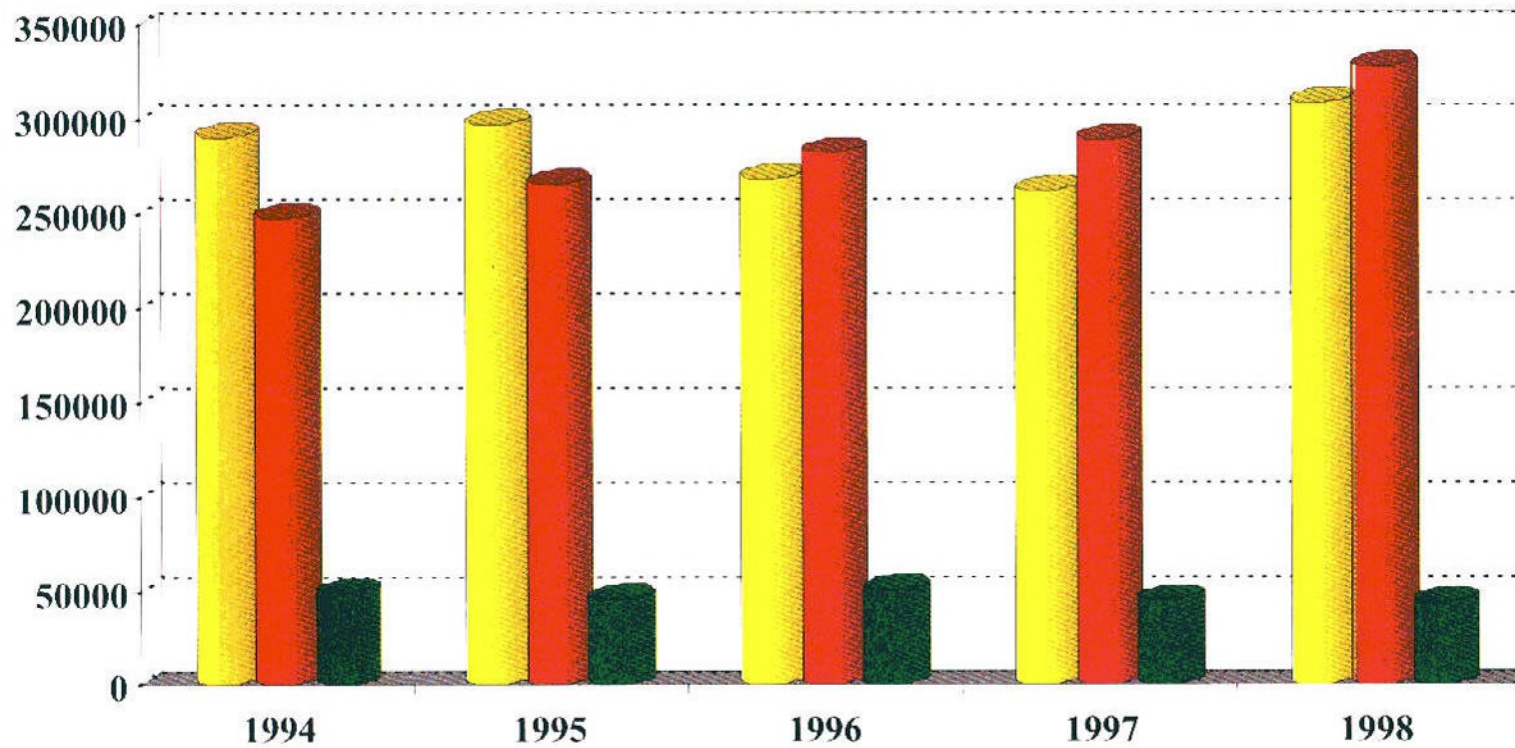
MALAYSIA

CARTA VI

CHART VI

KUANTITI DALAM TAN METRIK

(Quantity in Tonnes)



■ IKAN BAJA
(Trash Fish)

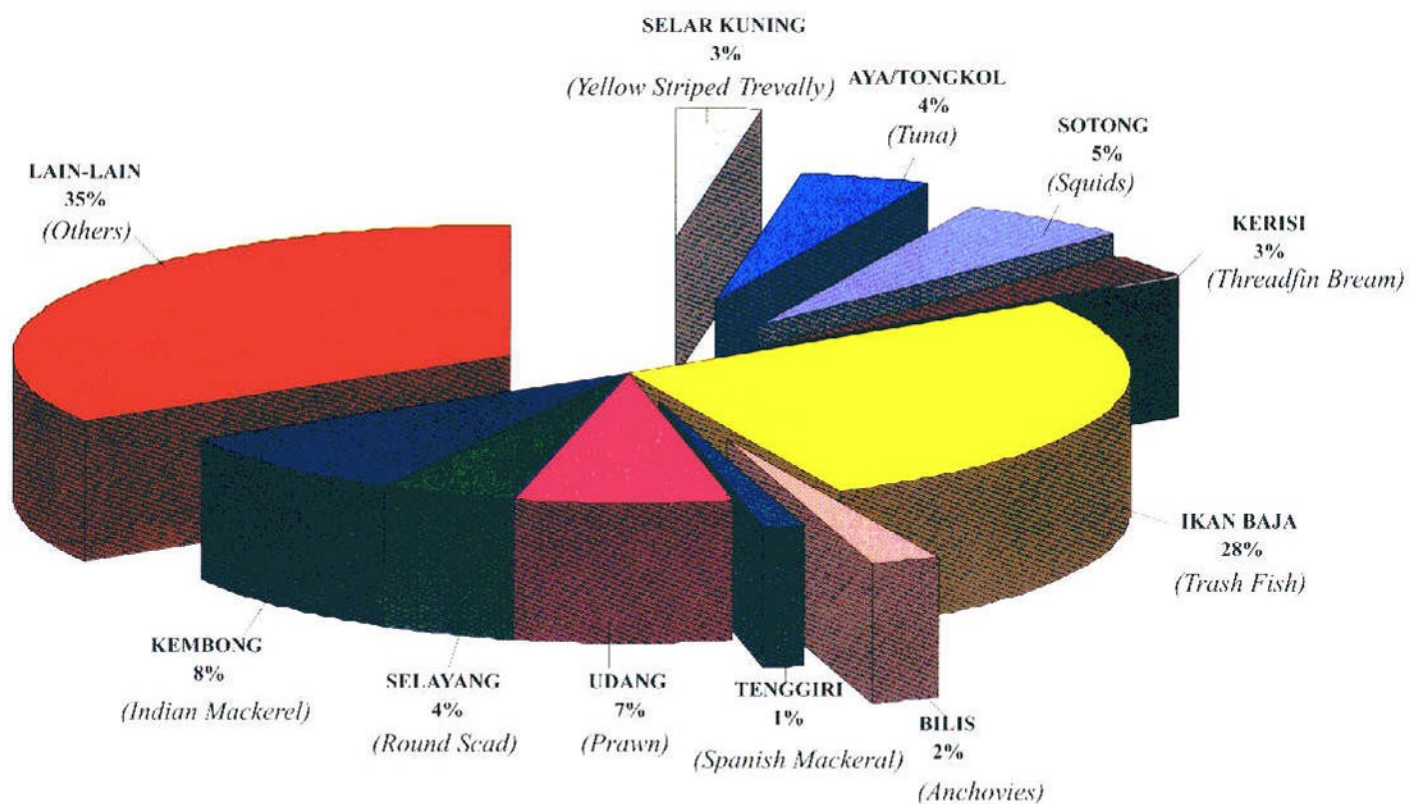
■ IKAN
(Fish)

■ UDANG
(Prawns)

PENDARATAN IKAN LAUT MENGIKUT SPESIES UTAMA, 1998

(Landings Of Marine Fish By Main Species, 1998)

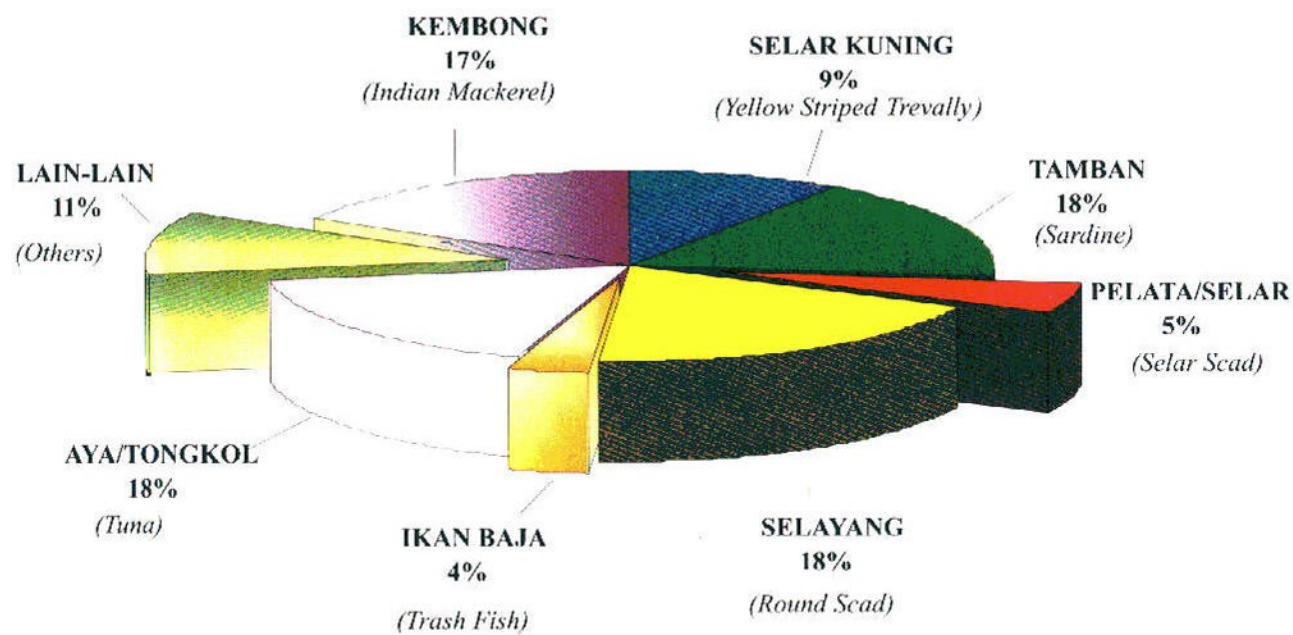
MALAYSIA



PENDARATAN PUKAT JERUT IKAN MENGIKUT SPESIS UTAMA, 1998

(Purse - Seine Fish Landings By Main Species, 1998)

MALAYSIA



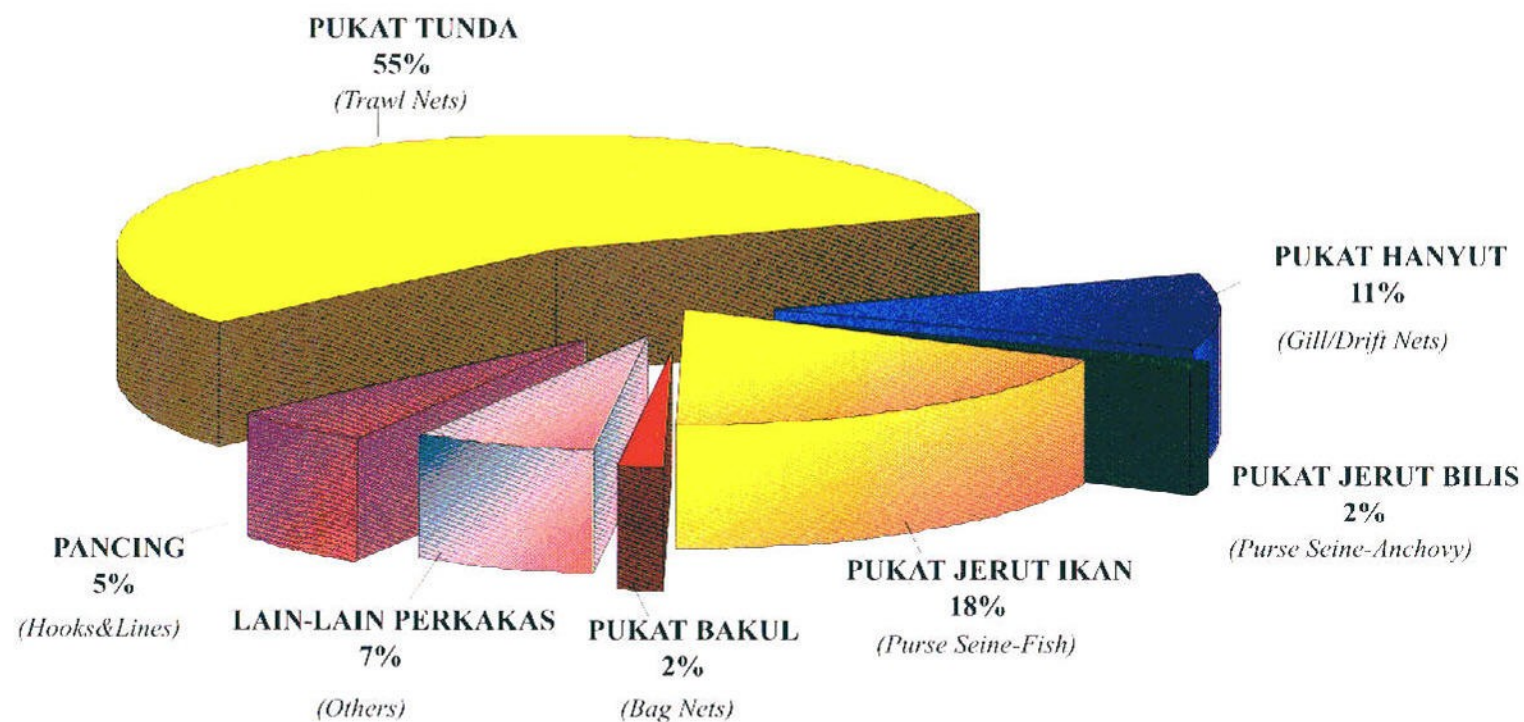
CARTA IX

CHART IX

PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS, 1998

(Landings Of Marine Fish By Gear Group, 1998)

MALAYSIA



ARAH ALIRAN NILAI PASARAN IKAN LAUT, 1994 -1998

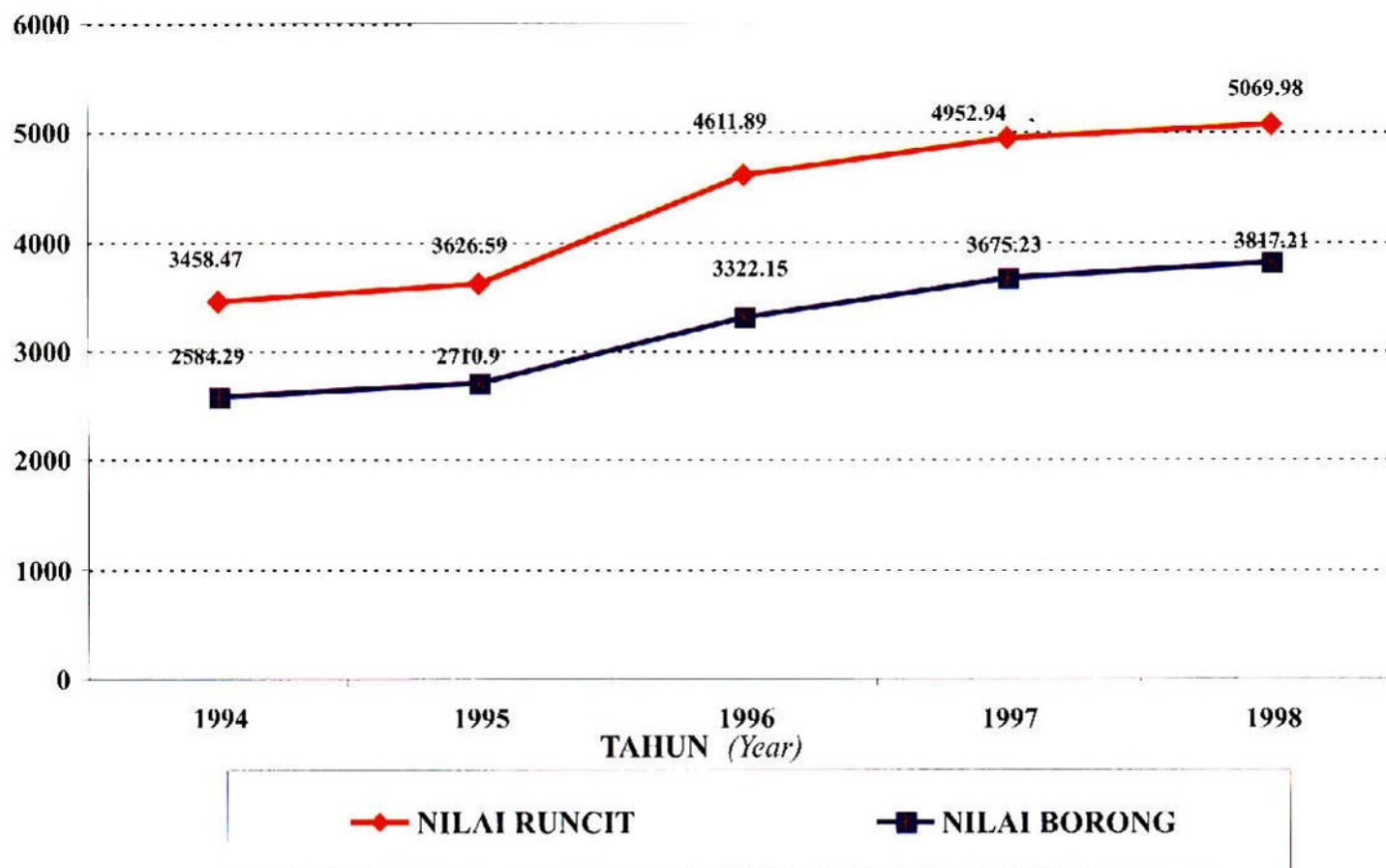
(Trend Of Market Values Of Marine Fish, 1994 -1998)

CARTA X
CHART X

NILAI DALAM RM JUTA

(Values in RM Million)

MALAYSIA



ARAH ALIRAN PENGELUARAN TERNAKAIR, 1994 - 1998

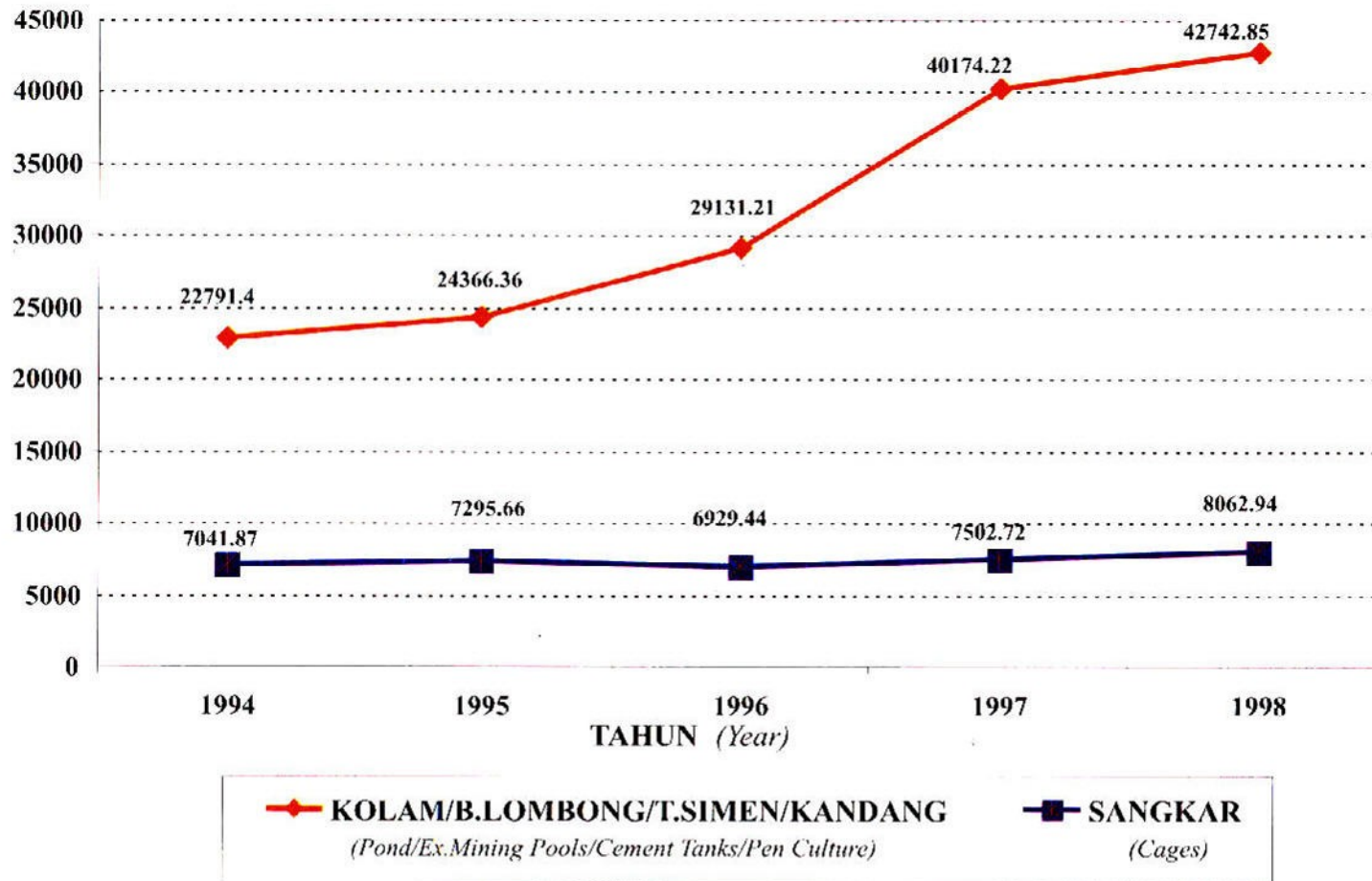
(Trend Of Aquaculture Productions, 1994 - 1998)

CARTA XI
CHART XI

KUANTITI DALAM TAN METRIK

(Quantity in Tonnes)

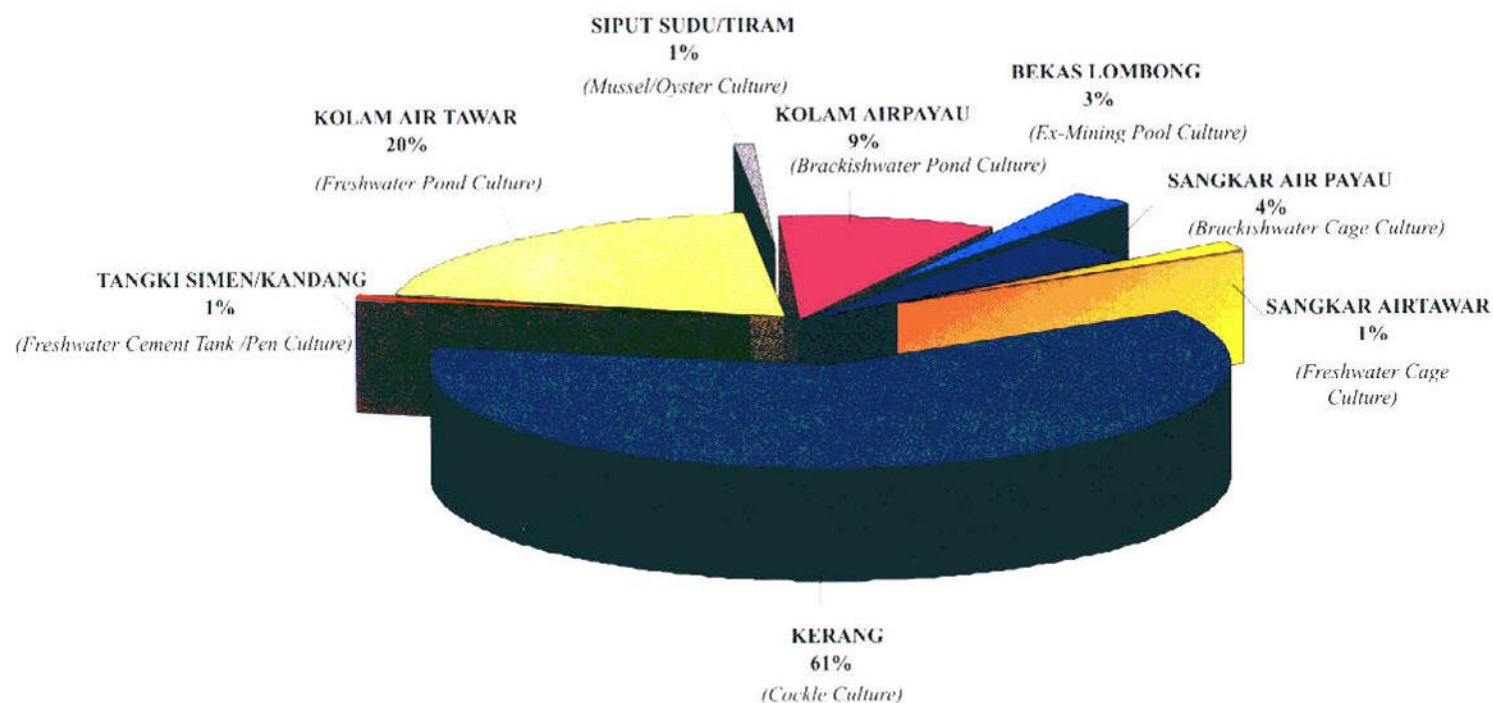
MALAYSIA



PENGELUARAN TERNAKAIR MENGIKUT JENIS TERNAKAN, 1998

(Production Of Aquaculture By Type Of Culture, 1998)

MALAYSIA



JADUAL

TABLES

PERIKANAN LAUT

MARINE FISHERIES

JADUAL (TABLE) 1.1

MALAYSIA
BILANGAN NELAYAN YANG BEKERJA DIATAS VESEL-VESEL BERLESEN, 1998
NUMBER OF FISHERMEN WORKING IN LICENSED VESELS, 1998

NEGERI/ State KETURUNAN Ethnic Group	Pantai Barat/West Coast								Jumlah Kecil Sub- total	Pantai Timur/East Coast				Jumlah Kecil Sub- total	Sarawak	Sabah	W.P. Labuan Federal Territory	Jumlah Kecil Sub- Total	Jumlah Besar Grand Total
	Perlis	Kedah	Pulau Pinang Penang	Perak	Selangor	Negeri Sembilan	Melaka Malacca	Johor Barat West Johor		Kelantan	Terengganu	Pahang	Johor Timur East Johor						
Bumiputra Bumiputeras	1712	2996	912	1234	701	115	549	2675	10894	2205	7028	2512	2899	14644	8678	14835	112	23,625	49,163
Cina Chinese	426	306	1423	6633	4303	140	191	1434	14856	0	16	704	1244	1964	1598	243	10	1,851	18,671
India Indians	0	0	37	120	60	15	1	3	236	0	0	0	3	3	0	0	0	0	239
Potugls Portuguese	0	0	0	0	0	1	51	0	52	0	0	0	0	0	0	0	0	0	52
Thai Thais	2627	882	8	37	0	0	0	0	3554	1767	1575	276	38	3656	0	0	0	0	7,210
Indonesia Indonesians	0	0	0	2	0	1	24	0	27	0	0	0	2	2	0	0	52	52	81
Lain-Lain Others	0	0	0	0	17	1	0	128	146	0	0	0	4	4	11	5767	203	5,981	6,131
Jumlah Besar Grand Total	4765	4184	2380	8026	5081	273	816	4240	29765	3972	8619	3492	4190	20273	10287	20845	377	31,509	81,547

Nota: Bumiputera Termasuk Orang Melayu dan Kumpulan Bumiputera Lain
Note: Bumiputeras including Malay and Other Indigenous Groups

MALAYSIA

JADUAL (TABLE) 1.2

BILANGAN NELAYAN YANG BEKERJA DIATAS VESEL-VESEL BERLESEN MENGIKUT KUMPULAN PERKAKAS DAN NEGERI, 1998
NUMBER OF FISHERMEN WORKING IN LICENSED VESSELS BY GROUP AND STATE, 1998

NEGERI State Kumpulan Perkakas Gear Group	Perlis	Kedah	Pulau Pinang Penang	Perak	*Selangor	Negeri Sembilan	Melaka Malacca	Johor Barat West Johor	Kelantan	Terengganu	Pahang	Johor Timur East Johor	Jumlah Kecil Sub- total	Sarawak	Sabah	W.P Labuan Federal Territory Labuan	Jumlah Kecil Sub- Total	Jumlah Besar Grand Total
Pukat Tunda Trawl Nets	1189	1175	252	3334	2327	0	0	437	525	938	1212	1042	12431	4364	5123	70	9557	21988
Pukat Tarik Seine Nets																		
Pukat Jerut Ikan Purse Seine-Fish	2939	249	409	379	32	1	3	8	78	4473	911	703	10185	360	1011	147	1518	11703
Pukat Jerut Bilis Purse Seine-Anchovy	0	1530	0	107	64	0	0	0	33	143	155	0	2032	0	285	34	319	2351
Lain-Lain Other Seines	0	0	153	1313	0	0	0	0	1913	1	0	2	3382	0	201	12	213	3595
Pukat Hanyut Gill/Drift Nets	637	1230	1383	2382	2037	244	761	3450	948	950	612	2046	16680	3602	6134	0	9736	26416
Pukat Tangguk Lift Nets	0	0		0	0	0	0	0	50	96	72	0	218	0	1394	0	1394	1612
Perangkap/Traps																		
Belat-Belat Stationary	0	0		76	0	0	0	59	0	0	0	42	177	0	149	0	149	326
Bubu Portable Traps	0	0	15	0	4	0	0	77	47	335	322	45	845	0	462	12	474	1319
Pancing Hooks&lines	0	0	56	103	69	15	44	50	377	1643	208	274	2839	0	4806	102	4908	7747
Pukat Bakul Bag Nets	0	0	47	85	380	0	0	86	0	0	0	0	598	0	0	0	0	598
Pukat Surung Push /Scoop nets	0	0	4	0	0	13	0	0	0	0	0	0	17	0	0	0	0	17
Pukat Rentang	0	0	0	0	32	0	7	18	0	0	0	32	89	0	11	0	11	100
Memungut Siput Shellfish Collection	0	0	0	102	10	0	0	41	0	0	0	0	153	0	219	0	219	372
Pembawa Ikan Fish Carriers	0	0	0	38	0	0	0	1	0	40	0	0	79	0	0	0	0	79
Rampaian Miscellaneous	0	0	61	107	126	0	1	13	1	0	0	4	313	1961	1050	0	3011	3324
Jumlah/Total	4765	4184	2380	8026	5081	273	816	4240	3972	8619	3492	4190	50038	10287	20845	377	31509	81547

MALAYSIA
BILANGAN NELAYAN YANG BERKERJA DI ATAS VESEL-VESEL YANG DILESENKAN
MENGIKUT DAERAH-DAERAH PERIKANAN, 1998
NUMBER OF FISHERMEN WORKING IN LICENSED FISHING VESSELS
BY FISHERIES DISTRICTS, 1998

Daerah-Daerah Perikanan <i>Fisheries Districts</i>	Nelayan-Nelayan / Fishermen				
	Bumiputera <i>Bumiputeras</i>	Cina <i>Chinese</i>	India <i>Indians</i>	Lain-lain <i>Others</i>	Jumlah <i>Total</i>
SEMANANJUNG MALAYSIA (PENINSULAR MALAYSIA)					
1 Kuala Perlis	1712	426	0	2627	4765
	1712	426	0	2627	4765
2 Langkawi	380	16	0	870	1266
3 Kedah Utara	1407	222	0	12	1641
4 Kedah Selatan	1209	68	0	0	1277
	2996	306	0	882	4184
5 Timur Laut / P.Pinang	189	284	18	8	499
6 Berat Daya / P.Pinang	242	397	0	0	639
7 Seberang Prai Utara	215	107	1	0	323
8 Seberang Prai Tengah	57	35	1	0	93
9 Seberang Prai Selatan	206	600	17	0	823
	912	1423	37	8	2380
10 Krian	336	1838	13	0	2187
11 Larut & Matang	65	1589	1	0	1655
12 Manjong	679	1669	100	0	2448
13 Hilir Perak	154	1537	6	39	1736
	1234	6633	120	39	8026
14 Selangor Utara	210	1679	0	0	1889
15 Selangor Tengah	157	854	6	0	1017
16 Pelabuhan Kelang I	8	917	2	0	927
17 Pelabuhan Kelang II	194	573	6	2	775
18 Selangor Selatan	132	280	46	15	473
	701	4303	60	17	5081
19 Port Dickson	115	140	15	3	273
	115	140	15	3	273
20 Melaka	549	191	1	75	816
	549	191	1	75	816
21 Muar	582	299	0	0	881
22 Batu Pahat	723	422	0	4	1149
23 Pontian	570	577	0	28	1175
24 Johor Bahru	800	136	3	96	1035
25 Pengerang (Kota Tinggi)	1015	449	2	4	1470
26 Sedeli	649	281	0	0	930
27 Mersing	1235	514	1	40	1790
	5574	2678	6	172	8430
28 Kuantan	1295	506	0	264	2065
29 Pekan	479	19	0	0	498
30 Kuala Rompin	738	179	0	12	929
	2512	704	0	276	3492
31 Kemaman	1240	4	0	67	1311
32 Dungun	1084	0	0	0	1084
33 Marang	1011	0	0	116	1127
34 Kuala Terengganu Utara	993	3	0	340	1336
35 Kuala Terengganu Selatan	760	1	0	4	765
36 Besut	415	8	0	1048	1471
37 Setiu	1525	0	0	0	1525
	7028	16	0	1575	8619
38 Kota Bahru	588	0	0	262	850
39 Bechok & Pasir Putih	728	0	0	1443	2171
40 Tumpat	889	0	0	62	951
	2205	0	0	1767	3972
Jumlah Kecil <i>Sub-Total</i>	25538	16820	239	7441	50038

Samb (Cont'd) Jadual (Table) 1.3

Daerah-Daerah Perikanan <i>Fisheries Districts</i>	Nelayan-Nelayan/Fishermen				
	Bumiputera <i>Bumiputeras</i>	Cina <i>Chinese</i>	India <i>Indians</i>	Lain-lain <i>Others</i>	Jumlah <i>Total</i>
SARAWAK					
1 Bandar Kuching	735	888	0	11	1634
2 Santubong	614	41	0	0	655
3 Pendam(Sadong Jaya)	475	5	0	0	480
4 Sematan	356	12	0	0	368
5 Batang Lupar(Sebuyau)	638	12	0	0	650
6 Saribas/Kalaka (Kabong)	782	14	0	0	796
7 Sibu / Igan	551	230	0	0	781
8 Sarikei / Bitangor	147	111	0	0	258
9 Mukah / Oya	1389	16	0	0	1405
10 Belawai	247	10	0	0	257
11 Matu Daro	1064	29	0	0	1093
12 Bintulu	492	40	0	0	532
13 Miri	824	190	0	0	1014
14 Limbang	107	0	0	0	107
15 Lawas	257	0	0	0	257
Jumlah Kecil / Sub- Total	8678	1598	0	11	10287
SABAH					
1 Tawau	1130	105	0	801	2036
2 Semporna	723	0	0	1058	1781
3 Kunak	242	35	0	392	669
4 Lahad Datu	519	1	0	281	801
5 Sandakan	2228	7	0	1752	3987
6 Beluran	1560	0	0	8	1568
7 Kudat	2192	18	0	705	2915
8 Kota Marudu	711	2	0	0	713
9 Pitas	650	0	0	0	650
10 Kota Belut	1203	0	0	0	1203
11 Tuaran	490	0	0	0	490
12 Kota Kinabalu	987	41	0	691	1719
13 Papar	353	3	0	0	356
14 Beaufort	718	0	0	0	718
15 Kuala Penyu	743	29	0	79	851
16 Sipitang	386	2	0	0	388
Jumlah Kecil / Sub- Total	14835	243	0	5767	20845
W.P LABUAN/LABUAN FT					
1 Kg Bebuloh	19	10	0	0	29
2 Kg Ranca Ranca	16	0	0	0	16
3 Kg Lubok Temiang	9	0	0	0	9
4 Kg Batu Manikar	10	0	0	0	10
5 Kg Tg Aru	6	0	0	0	6
6 Kg Miri / Lada / Pagar	2	0	0	0	2
7 Kg Patau-Patau	24	0	0	0	24
8 Lain-lain Kampong	26	0	0	255	281
Jumlah Kecil / Sub- Total	112	10	0	255	377
Jumlah Besar/ Grand Total	49163	18671	239	13378	81547

Nota: Bumiputera Termasuk Orang Melayu dan Kumpulan Bumiputra lain

Nota: Bumiputeras including Malay and Other Indigenous Groups

JADUAL (TABLE) 1.4

MALAYSIA
BILANGAN NELAYAN ASING YANG DILULUSKAN MENGIKUT NEGERI, 1998
NUMBER OF APPROVED FOREIGN FISHERMEN BY STATE, 1998

NEGERI/ State KETURUNAN Ethnic Group	Pantai Barat/West Coast									Pantai Timur/East Coast				Jumlah Kecil Sub- total	Sarawak	Sabah	W.P Labuan Federal Territory Labuan	Jumlah Kecil Sub- Total	Jumlah Besar Grand Total
	Perlis	Kedah	Pulau Pinang Penang	Perak	Selangor	Negeri Sembilan	Melaka Malacca	Johor Barat West Johor	Jumlah Kecil Sub- total	Kelantan	Terengganu	Pahang	Johor Timur East Johor						
Thai Thais	2,627	882	8	37	0	0	0	0	3,554	1,767	1,575	276	38	3,656	0	0	0	0	7,210
Indonesia Indonesian	0	0	0	2	0	1	24	0	27	0	0	0	2	2	0	0	52	52	81
Lain-lain Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,767	35	5,802	5,802
Jumlah Besar Grand Total	2,627	882	8	39	0	1	24	0	3,581	1,767	1,575	276	40	3,658	0	5,767	87	5,854	13,093

Nota: bilangan yang diluluskan tidak semestinya menggambarkan bilangan nelayan yang bekerja diatas vesel berlesen.

Nota: The approval given does not necessarily reflect the actual number of fishermen working in licensed vessels.

JADUAL (TABLE) 2.1

MALAYSIA
BILANGAN VESEL MENANGKAP IKAN YANG DILESENKAN MENGIKUT NEGERI DAN KELAS MUATAN 1998
NUMBER OF LICENSED FISHING VESSELS BY STATE AND TONNAGE CLASS, 1998

Jenis Type Negeri State	Jumlah Total	Vesel Tidak Berjentera Non Powered Vessels	Vesel Berjentera Sangkut Outboard Powered Vessels	Vesel Berjentera Dalam / In board-powered vessels								
				Jumlah Kecil Sub-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)
Pantai Barat/West Coast:												
Perlis	644	0	72	572	59	110	30	58	39	130	105	41
Kedah	1709	0	651	1058	220	225	97	72	67	201	128	48
Pulau Pinang/Penang	1367	15	818	534	70	335	7	2	2	80	36	2
Perak	4326	75	981	3270	623	1045	480	464	109	145	331	73
Selangor	2381	88	445	1848	52	1017	194	198	101	172	114	0
Negeri Sembilan	193	2	151	40	0	37	3	0	0	0	0	0
Melaka/Malacca	659	8	531	120	1	110	9	0	0	0	0	0
Johor Barat/West Johor	2933	110	2131	692	110	351	71	120	31	9	0	0
Jumlah/Total	14212	298	5780	8134	1135	3230	891	914	349	737	714	164
Pantai Timur/East Coast												
Kelantan	963	0	239	724	263	114	128	77	15	35	37	55
Terengganu	2199	3	236	1960	303	613	390	306	111	127	67	43
Pahang	1100	3	260	837	40	272	154	38	40	80	137	76
Johor Timur/East Johor	1497	26	715	756	82	226	130	45	12	102	129	30
Jumlah/Total	5759	32	1450	4277	688	1225	802	466	178	344	370	204
Malaysia:	19971	330	7230	12411	1823	4455	1693	1380	527	1081	1084	368
Semenanjung Malaysia/ (Peninsular Malaysia)												
Sarawak	2338	2	777	1559	217	458	307	103	88	133	131	122
Sabah	10456	2524	4653	3279	555	749	383	231	220	402	52	687
W.Persekutuan Labuan/ F.Territory Labuan	81	0	58	23						8	4	11
Jumlah besar Grand Total	32,846	2,856	12,718	17,272	2,595	5,662	2,383	1,714	835	1,624	1,271	1,188

Nota/Nota: GRT - Gross Registered Tonnage

JADUAL (TABLE) 2.2

MALAYSIA
BILANGAN VESEL MENANGKAP IKAN DILESENKAN MENGIKUT NEGERI DAN KUASA KUDA, 1998
NUMBER OF LICENSED FISHING VESSELS BY STATE AND HORSEPOWER, 1998

Negeri State Kuala Lumpur/ Horsepower of Engine	Perlis	Kedah	Pulau Pinang Penang	Perak	Selangor	Negeri Sembilan	Melaka Malacca	Johor Barat West Johor	Jumlah Kecil Sub- total	Kelantan	Terengganu	Pahang	Johor Timur East Johor	Jumlah Kecil Sub- total	Sarawak	Sabah	W.P Labuan Federal Territory Labuan	Jumlah Kecil Sub- Total	Jumlah Besar Grand Total
Enjin Dalam/ Inboard-Powered																			
kurang dari 5 k.k. (under 5 H.P)	0	21	1	6	3	0	0	4	35	18	23	2	1	44	9	122	0	131	210
5 - 9 k.k (h.p)	13	48	5	36	3	0	1	55	161	196	95	7	9	307	152	301	0	453	921
10 - 19 "	68	176	38	210	88	3	41	80	704	79	395	68	127	669	346	245	0	591	1964
20 - 39 "	114	164	52	328	664	27	75	232	1656	248	775	296	216	1535	457	163	4	624	3815
40 - 59 "	40	53	174	1579	16	2	0	34	1898	14	113	32	19	178	68	603	2	673	2749
60 - 99 "	26	42	83	319	112	3	1	90	676	11	229	55	42	337	120	275	2	397	1410
100 - 149 "	46	79	59	114	276	5	2	46	627	30	137	47	51	265	78	296	0	374	1266
150 - 249 "	186	258	85	239	346	0	0	120	1234	41	99	41	80	261	153	750	4	907	2402
250 k.k keatas (250 h.p & above)	79	217	37	439	340	0	0	31	1143	87	94	289	211	681	176	524	11	711	2535
Jumlah kecil Sub- Total	572	1058	534	3270	1848	40	120	692	8134	724	1960	837	756	4277	1559	3279	23	4861	17272
Enjin Sangkut/ Outboard-powered																			
kurang dari 5 k.k. (Under 5 h.p)	6	86	163	180	40	27	47	529	1078	125	106	0	150	381	194	252	0	446	1905
5 - 9 k.k (h.p)	58	438	172	238	122	27	184	654	1893	109	57	43	184	393	52	378	2	432	2718
10 - 19 "	8	78	206	199	159	56	229	616	1551	4	61	101	219	385	63	1746	5	1814	3750
20 - 39 "	0	43	210	206	104	32	70	236	901	1	11	72	127	211	103	1854	10	1967	3079
40 - 59 "	0	6	67	91	20	9	1	96	290	0	1	43	35	79	311	361	30	702	1071
60 - 99 "	0	0	0	64	0	0	0	0	64	0	0	1	0	1	54	62	10	126	191
100 - 149 "	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	1	1	4
150 - 249 "	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250 k.k keatas (250 h.p & above)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jumlah kecil Sub- Total	72	651	818	981	445	151	531	2131	5780	239	236	260	715	1450	777	4653	58	5488	12718
Jumlah Besar Grand Total	644	1709	1352	4251	2293	191	651	2823	13914	963	2196	1097	1471	5727	2336	7932	81	10349	29990

MALAYSIA
BILANGAN VESEL MENANGKAP IKAN BERLESEN MENGIKUT KUMPULAN PERKAKAS, JENIS DAN KELAS MUATAN, 1998
NUMBER OF LICENSED FISHING VESSELS BY GEAR GROUP, TYPE AND TONNAGE CLASS, 1998

Jenis Dan Kelas Muatan/ Type And Tonnage Class Kumpulan Perkakas/ Gear Group	Jumlah Besar Grand Total	Tiada Berjentera Non- Powered Vessels	Berjentera Sangkut Out-Board Powered Vessels	Jumlah Kecil Sub- Total	SEM. MALAYSIA (PEN MALAYSIA) Vessel Berjentera Dalam (Inboard-powered Vessels)								Bilangan Vessel/No Vessels		
					0 - 4.99 GRT	5 - 9.99 GRT	10 - 14.99 GRT	15 - 19.99 GRT	20 - 24.99 GRT	25 - 39.99 GRT	40 - 69.99 GRT	70 GRT & keatas (& Above)	Sarawak	Sabah	W.P. Labuan
Pukat Tunda / Trawl Nets	5926	0	0	3918	15	107	558	949	403	915	774	197	579	1422	7
Pukat Tarik / Seine Nets	862	0	5	707	3	27	57	76	47	105	266	126	19	124	7
Pukat Jerut Ikan Purse Seine-Fish	150	0	0	108	0	10	12	10	3	2	28	43	0	42	0
Pukat Jerut Bilis Purse Seine-Anchovy	836	11	96	670	168	458	40	2	0	0	2	0	0	56	3
Lain-Lain / Other Seines	17299	240	6565	4704	1102	2786	612	128	25	42	11	0	1417	4356	17
Pukat Hanyut / Gill / Drift Nets	436	0	21	53	6	22	19	6	0	0	0	0	0	356	6
Pukat Tangguk / Lift Nets															
Perangkap/Traps															
Belet-Belet / Stationary	192	4	48	6	2	3	0	0	0	0	0	0	6	129	0
Bubu / Portable Traps	676	7	62	303	21	111	105	43	18	4	1	0	4	294	6
Pancing / Hooks & Lines	4421	10	260	1342	280	577	279	166	30	10	0	0	50	2734	35
Pukat Bekul / Bag Nets	523	1	30	299	125	170	1	1	0	2	0	0	193	0	0
Pukat Surung Push /Scoop nets	25	0	6	0	0	0	0	0	0	0	0	0	19	0	0
Pukat Rentang / Barrier Nets	92	5	16	15	0	15	0	0	0	0	0	0	51	5	0
Memungut Siput Shellfish Collection	258	9	19	96	83	13	0	0	0	0	0	0	0	134	0
Hembawa Ikan / Fish Carries	58	25	2	31	0	26	1	0	0	0	2	2	0	0	0
Rampaian / Miscellaneous	1092	18	110	160	18	130	9	1	1	1	0	0	0	804	0
Jumlah/Total	32846	330	7230	12411	1823	4455	1693	1380	527	1081	1064	368	2338	10456	81

Nota/Note: GRT - Gross Registered Tonnage

MALAYSIA
BILANGAN VESEL MENANGKAP IKAN YANG DILESENKAN MENGIKUT
DAERAH-DAERAH PERIKANAN 1998
NUMBER OF LICENSED FISHING VESSELS BY FISHERIES DISTRICTS, 1998

Daerah-Daerah Perikanan <i>Fisheries Districts</i>	Vesel-vesel Menangkap Ikan (Fishing Vessels)			
	Berjentera Dalam <i>Imboard</i>	Berjentera Sangkut <i>Outboard</i>	Tidak Berjentera <i>Non-Powered</i>	Jumlah Total
SEMENANJUNG MALAYSIA (PENINSULAR MALAYSIA)				
1 Kuala Perlis	572	72	0	644
2 Langkawi	160	318	0	478
3 Kedah Utara	667	111	0	778
4 Kedah Selatan	231	222	0	453
5 Timur Laut/P.Pinang	82	67	3	152
6 Berat Daya/ P.Pinang	10	68	1	79
7 Seberang Prai Utara	243	78	5	326
8 Seberang Prai Tengah	65	244	2	311
9 Seberang Prai Selatan	134	361	4	499
19 Krian	1002	326	37	1365
11 Larut & Matang	955	114	4	1073
12 Manjong	705	465	18	1188
13 Hilir Perak	608	76	16	700
14 Selangor Utara	631	112	0	743
15 Selangor Tengah	448	84	11	543
16 Pelabuhan Kelang I	395	4	0	399
17 Pelabuhan Kelang II	215	153	75	443
18 Selangor Selatan	159	92	2	253
19 Port Dickson	40	151	2	193
20 Melaka	120	531	8	659
21 Muar	176	303	32	511
22 Batu Pahat	223	340	2	565
23 Pontian	286	510	29	825
24 Johor Bahru	7	978	47	1032
25 Pengerang(Kota Tinggi)	93	576	24	693
26 Sedeli	255	48	0	303
27 Mersing	408	91	2	501
28 Kuantan	393	68	1	462
29 Pekan	258	122	0	380
30 Kuala Rompin	186	70	2	258
31 Kemaman	399	8	0	407
32 Dungun	316	49	1	366
33 Marang	211	93	1	305
34 Kuala Terengganu Utara	307	15	0	322
35 Kuala Terengganu Selatan	252	35	0	287
36 Besut	115	31	1	147
37 Setiu	360	5	0	365
38 Kota Bahru	158	93	0	251
39 Bechok & Pasir Putih	305	61	0	366
40 Tumpat	261	85	0	346
Jumlah Kecil Sub-Total	12411	7230	330	19971

Daerah-Daerah Perikanan <i>Fisheries Districts</i>	Vesel-vesel Menangkap Ikan (Fishing Vessels)			
	Berjentera Dalam <i>Imboard</i>	Berjentera Sangkut <i>Outboard</i>	Tidak Berjentera <i>Non-Powered</i>	Jumlah Total
SARAWAK				
1 Bandar Kuching	247	0	0	247
2 Santubong	131	170	0	301
3 Pendam(Sadong Jaya)	78	8	0	86
4 Sematan	24	26	0	50
5 Batang Lupa(Sebuyau)	184	9	0	193
6 Saribas/Kalaka (Kabong)	215	0	0	215
7 Sibul / Igan	93	19	0	112
8 Sarikei / Bitangor	68	0	0	68
9 Mukah / Oya	114	78	0	192
10 Belawai	108	10	0	118
11 Matu Daro	104	20	1	125
12 Bintulu	76	29	0	105
13 Miri	117	110	1	228
14 Limbang	0	88	0	88
15 Lawas	0	210	0	210
Jumlah Kecil / Sub- Total	1559	777	2	2338
SABAH				
1 Tawau	150	670	295	1115
2 Semporna	452	165	283	900
3 Kunak	12	94	90	196
4 Lahad Datu	146	108	112	366
5 Sandakan	854	360	485	1699
6 Beluran	164	634	178	976
7 Kudat	936	255	75	1266
8 Kota Marudu	37	390	129	556
9 Pitas	67	220	131	418
10 Kota Belud	93	340	343	776
11 Tuaran	35	162	61	258
12 Kota Kinabalu	246	254	15	515
13 Papar	1	145	20	166
14 Beaufort	38	383	65	486
15 Kuala Penyu	7	323	239	569
16 Sipitang	41	150	3	194
Jumlah Kecil / Sub- Total	3279	4653	2524	10456
W.P LABUAN/LABUAN FT				
1 Kg Bebuloh	0	15	0	15
2 Kg Ranca Ranca	1	15	0	16
3 Kg Lubok Temiang	0	6	0	6
4 Kg Batu Manikar	0	0	0	0
5 Kg Tg Aru	1	10	0	11
6 Kg Miri / Lada / Pagar	0	2	0	2
7 Kg Patau-Patau	1	10	0	11
8 Lain-lain Kampong	20	0	0	20
Jumlah Kecil / Sub- Total	23	58	0	81
Jumlah Besar/ Grand Total	17272	12718	2856	32846

SEMENANJUNG MALAYSIA/PENISULAR MALAYSIA
BILANGAN VESEL MENANGKAP IKAN YANG DILESENKAN DAN BILANGAN
NELAYAN YANG BEKERJA DI VESEL-VESEL BERLESEN, 1977-1998
NUMBER OF FISHING VESSELS LICENSED AND NUMBER OF FISHERMEN
OPERATING LICENSED VESSELS, 1977 - 1998

Bilangan Vessel Menangkap Ikan Yang dilesenkan <i>Number of fishing Vessels Licensed</i>					Bilangan Nelayan <i>Number of Fisherman</i>				
Tahun <i>Year</i>	Berjentera Dalam <i>Inbord</i>	Berjentera Sangkut <i>Outboard</i>	Tidak Berjentera Non- Powered	Jumlah <i>Total</i>	Melayu <i>Malays</i>	Cina <i>Chinese</i>	India <i>Indians</i>	Lain- lain <i>Others</i>	Jumlah <i>Total</i>
1977	16977	2775	4329	24081	44373	30131	541	600	75645
1978	17775	3684	6038	27497	51265	30980	637	812	83694
1979	17741	5156	6256	29153	50816	30323	528	1259	82926
1980	18433	6585	5502	30520	55008	31802	410	1752	88972
1981	18585	7368	4437	30390	54538	30084	609	1694	86925
1982	17575	7246	2620	27441	49232	28306	739	1960	80237
1983	16285	7202	2208	25695	47322	25238	534	2496	75590
1984	16533	7458	1682	25673	48616	25077	564	2111	76368
1985	15324	6751	1296	23371	42620	23532	471	2907	69530
1986	14626	6864	986	22476	34269	21357	448	3378	59452
1987	14822	6430	886	22138	33815	21634	394	4726	60569
1988	14760	5832	749	21341	32386	21367	409	4121	58283
1989	15507	7146	806	23459	35907	22443	454	3776	62580
1990	15326	7029	779	23134	34719	21364	471	3247	59801
1991	15331	6760	718	22809	35609	21385	448	3867	61309
1992	14999	6223	632	21854	35279	21094	440	3597	60410
1993	14351	5206	463	20020	28607	18466	245	6569	53887
1994	13677	4988	424	19089	27499	17984	249	6463	52195
1995	13443	9050	491	22984	30440	17976	239	6347	55002
1996	12701	8112	437	21250	28418	17010	206	6676	52310
1997	12097	7875	393	20365	27457	17133	236	5909	50735
1998	12411	7230	330	19971	25538	16820	239	7441	50038

JADUAL (Table) 3.1

MALAYSIA
BILANGAN PERKAKAS YANG DILESENKAN MENGIKUT NEGERI, 1998
NUMBER OF LICENSED FISHING GEARS BY STATE, 1998

Kumpulan Perkakas Gear Group	Pukat Tunda	Pukat-Pukat Tarik Seine Nets			Pukat hanyut Drift/ Gill Nets	Pukat Tangguk Lift Nets	Perangkap perangkap Traps		Pancing Hooks & Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push Scoop Nets	Memungut Siput Shellfish Collection	Rampalan Miscell Aneous	Jumlah Total
		PukatJerut Ikan Purse Seine	PukatJerut Bilis Purse Seine Anchovy	Lain-lain Other Seines			Belat- Belat Stationary	Bubu Potrable							
Negeri State	Trawl Nets														
Pantai Barat/West Coast:															
Perlis	222	116	-	-	306	-	-	-	-	-	-	-	-	-	644
Kedah	509	19	54	-	1,127	-	-	-	-	-	-	-	-	-	1,709
Pulau Pinang/Penang	95	7	-	111	1,018	-	32	4	55	-	-	2	1	42	1,367
Perak	1,370	59	13	340	1,819	-	-	76	88	85	-	-	102	89	4,041
Selangor	665	20	-	-	1,379	-	-	2	46	152	16	-	5	84	2,369
Negeri Sembilan	-	-	-	1	177	-	-	5	10	-	-	-	-	-	193
Melaka/Malacca	-	-	-	3	615	-	-	-	37	-	3	-	-	1	659
Johor Barat/West Johor	176	-	-	6	2,367	-	3	61	36	24	21	-	17	14	2,725
Jumlah/Total	3,037	221	67	461	8,808	-	35	148	272	261	40	2	125	230	13,707
Pantal Timur/East Coast															
Kelantan	83	1	8	63	567	27	-	-	162	-	-	-	-	1	912
Terengganu	222	312	22	3	597	36	-	123	847	-	-	-	-	30	2,192
Pahang	338	49	11	-	411	-	-	291	-	-	-	-	-	-	1,100
Johor Timur/East Johor	235	1	-	49	999	-	1	21	133	-	14	-	-	3	1,456
Jumlah/Total	878	363	41	115	2,574	63	1	435	1,142	-	14	-	-	34	5,660
Sarawak	570	21	-	1	1,308	-	-	5	128	217	72	12	-	6	2,340
Sabah	1,210	171	6	7	1,171	188	106	100	473	-	4	-	-	227	3,663
W.Persekutuan Labuan/ F.Territory Labuan	7	7	-	3	17	6	-	6	35	-	-	-	-	-	81
Jumlah /Total	1,787	199	6	11	2,496	194	106	111	636	217	76	12	-	233	6,084
Jumlah Besar Grand Total	3,004	377	12	21	3,684	388	212	217	1,144	217	80	12	-	460	25,451

5,902 783 114 587 13,808 754 142 697 2,051 403 130 14 115 497

1484 271 621

JADUAL(TABLE) 3.2

SEMENANJUNG MALAYSIA /PENINSULAR MALAYSIA
ANGGARAN BILANGAN KUMULATIF PERKAKAS YANG DIUSAHAKAN MENGIKUT NEGERI , 1998
ESTIMATED CUMULATIVE NUMBER OF FISHING GEARS IN OPERATION BY STATE, 1998

Kumpulan Perkakas <i>Gear Group</i>	Pukat Tunda	Pukat-Pukat Tarik <i>Seine Net</i>			Pukat Hanyut	Pukat Tangguk	Perangkap-Perangkap <i>Trap</i>		Pancing	Pukat Bakul	Pukat Rentang	Pukat Surung	Memungut Siput	Rampaian	Jumlah Total
		Pukat Jerut Ikan	Pukat Jerut Bilis	Lain-Lain			Belat-Belat	Bubu							
Negeri State	<i>Trawl Net</i>	<i>Purse Seine- Fish</i>	<i>Purse Seine- Anchovy</i>	<i>Other Seine</i>	<i>Drift/Gill Net</i>	<i>Lift Net</i>	<i>Stationary</i>	<i>Portable</i>	<i>Hook and Line</i>	<i>Bag Net</i>	<i>Barrier Net</i>	<i>Push/ Scoop Net</i>	<i>Shellfish Collection</i>	<i>Miscell-aneous</i>	
Pantai Barat/West Coast:															
Perlis	2859	1017	0	0	7632	0	0	0	0	0	0	360	0	756	12624
Kedah	9816	130	627	756	24460	0	34	0	842	1470	300	1058	33	133	39659
Pulau Pinang	1164	186	0	1236	20893	0	0	134	1342	597	942	138	7	300	26939
Perak	15466	596	107	3867	18634	0	0	138	2471	1570	536	3791	305	2889	50370
Selangor	11095	167	0	300	21748	0	303	87	4766	2513	386	1157	590	340	43452
Negeri Sembilan	0	0	0	0	2009	0	0	79	198	0	0	0	20	0	2306
Melaka	0	0	0	12	8394	0	0	17	846	0	0	1470	96	0	10835
Johor Barat/West Johor:	2993	0	0	0	25688	0	480	1475	138	352	275	2374	0	1081	34856
Jumlah/Total	43393	2096	734	6171	129458	0	817	1930	10603	6502	2439	10348	1051	5499	221041
Pantai Timur/East Coast:															
Kelantan	2028	600	78	0	4319	343	655	25	1807	0	0	0	0	755	10610
Terengganu	3198	1822	189	0	2626	312	0	2930	9129	0	0	0	0	0	20206
Pahang	4693	286	62	0	4175	47	0	1125	1178	0	0	0	0	0	11566
Johor Timur/East Johor:	3988	447	0	0	3978	0	0	162	1013	676	0	0	0	759	11023
Jumlah Kecil/Sub - Total	13907	3155	329	0	15098	702	655	4242	13127	676	0	0	0	1514	53405
Jumlah Besar/Grand Total	57300	5251	1063	6171	144556	702	1472	6172	23730	7178	2439	10348	1051	7013	274446

MALAYSIA

PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN KUMPULAN PERKAKAS , 1998

LANDINGS OF MARINE FISH BY STATE AND GEAR GROUP , 1998

(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.1

Kumpulan Perkakas <i>Gear Group</i>	Pukat <i>Tunda Trawl Net</i>	Pukat-Pukat Tarik <i>Seine Net</i>			Pukat <i>Hanyut Drift/Gill Net</i>	Pukat <i>Tanggung Lift Net</i>	Perangkap-Perangkap <i>Trap</i>		Pancing <i>Hook and Line</i>	Pukat <i>Bakul Bag Net</i>	Pukat <i>Rentang Barrier Net</i>	Pukat <i>Surung Push/Scoop Net</i>	Memungut <i>Siput Shellfish Collection</i>	Rampaian <i>Miscel- laneous</i>	Jumlah <i>(Tan) Total (Tonnes)</i>
		Pukat <i>Jerut Ikan Purse Seine Fish</i>	Pukat <i>Jerut Bilis Purse Seine Anchovy</i>	Lain -Lain <i>Other Seine</i>			Belat- <i>Belat Stationary</i>	Bubu <i>Portable</i>							
Negeri State															
Pantai Barat /West Coast															
Perlis	27,147	35,414	0	0	10,773	0	0	0	0	0	0	205	0	242	73,781
Kedah	59,014	8,800	13,561	149	9,763	0	27	0	227	501	73	323	790	133	93,361
Pulau Pinang	22,354	2,379	0	2,263	7,115	0	0	96	240	699	163	99	2	66	35,476
Perak	152,878	12,024	1,135	11,145	28,121	0	0	78	806	1,403	191	5,428	483	292	213,984
Selangor	78,930	5,185	0	336	11,100	0	303	103	4,072	12,073	1,200	374	3,823	164	117,663
Negeri Sembilan	0	0	0	0	289	0	0	28	59	0	0	0	0	0	376
Melaka	0	0	0	6	1,594	0	0	2	208	0	0	62	23	0	1,895
Johor Barat/West Johor	7,069	0	0	0	5,193	0	329	222	81	1,473	83	92	0	104	14,646
Jumlah/Total	347,392	63,802	14,696	13,899	73,948	0	659	529	5,693	16,149	1,710	6,583	5,121	1,001	551,182
Pantai Timur /East Coast															
Kelantan	9,446	18,867	402	0	4,313	5,419	76	5	2,991	0	0	0	0	27	41,546
Terengganu	50,145	57,910	2,485	0	4,239	3,584	0	6,992	18,339	0	0	0	0	0	143,694
Pahang	81,616	17,967	1,765	0	3,070	457	0	2,176	1,910	0	0	0	0	0	108,961
Johor Timur/East Johor	46,723	6,123	0	0	827	0	0	67	1,430	1,354	0	0	0	26	56,550
Jumlah/Total	187,930	100,867	4,652	0	12,449	9,460	76	9,240	24,670	1,354	0	0	0	53	350,751
Malaysia															
Semenanjung Malaysia/ <i>Peninsular Malaysia</i>	535,322	164,669	19,348	13,899	86,397	9,460	735	9,769	30,363	17,503	1,710	6,583	5,121	1,054	901,933
Sarawak	63,029	3,391	0	0	19,455	0	547	193	3,887	3,681	247	8,775	1	7	103,213
Sabah	77,900	41,904	0	2,513	24,305	12,721	1,766	1,727	28,005	0	3	0	275	5,108	196,227
Wilayah Persekutuan Labuan/ <i>Labuan, Federal Territory</i>	4,972	7,980	0	4	172	49	2	2	652	0	0	0	0	0	13,833
Jumlah Tan m./Total Tonnes	681,223	217,944	19,348	16,416	130,329	22,230	3,050	11,691	62,907	21,184	1,960	15,358	5,397	6,169	1,215,206

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN NEGERI, 1998
LANDINGS OF MARINE FISH BY MONTH AND STATE, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.2

Bulan/Month													Jumlah
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	(Tan) Total (Tonnes)
Pantai Barat/West Coast													
Perlis	4,648	4,823	4,857	4,877	4,777	5,359	6,487	6,884	7,620	8,163	8,216	7,070	73,781
Kedah	7,592	8,665	7,915	8,093	8,089	7,460	7,151	7,860	7,677	6,938	7,722	8,199	93,361
Pulau Pinang	3,681	3,917	2,623	2,661	2,963	3,081	3,423	3,016	1,434	2,160	2,909	3,608	35,476
Perak	12,191	19,487	17,308	16,758	19,169	21,263	21,672	18,303	17,575	16,888	17,471	15,899	213,984
Selangor	10,862	9,893	10,157	10,747	8,703	10,175	9,795	10,052	10,866	7,051	6,977	12,385	117,663
Negeri Sembilan	32	27	27	28	26	33	39	37	39	25	28	35	376
Melaka	136	148	157	152	159	162	172	173	179	171	153	133	1,895
Johor Barat/West Johor	1,217	1,150	1,374	1,334	1,210	1,104	1,128	1,458	1,325	1,038	1,140	1,168	14,646
Jumlah Kecil/Sub-Total	40,359	48,110	44,418	44,650	45,096	48,637	49,867	47,783	46,715	42,434	44,616	48,497	551,182
Pantai Timur/East Coast													
Kelantan	1,828	2,525	3,205	2,661	3,546	3,100	4,530	5,353	4,617	5,843	3,065	1,273	41,546
Terengganu	7,729	11,938	11,094	9,843	10,056	12,706	13,222	15,125	16,436	17,313	12,703	5,529	143,694
Pahang	6,343	6,528	7,241	6,958	7,702	7,631	10,077	11,075	12,036	13,771	11,458	8,141	108,961
Johor Timur/East Johor	3,579	3,375	3,686	3,657	4,043	4,607	5,550	5,812	5,932	6,026	5,578	4,705	56,550
Jumlah Kecil/Sub-Total	19,479	24,366	25,226	23,119	25,347	28,044	33,379	37,365	39,021	42,953	32,804	19,648	350,751
Malaysia:													
Semenanjung Malaysia/ Peninsular Malaysia	59,838	72,476	69,644	67,769	70,443	76,681	83,246	85,148	85,736	85,387	77,420	68,145	901,933
Sarawak	8,420	10,013	12,213	8,806	9,679	9,123	9,042	7,267	8,501	6,060	6,510	7,579	103,213
Sabah	14,906	15,721	18,639	18,423	17,280	16,468	16,696	15,719	16,684	15,568	15,592	14,531	196,227
Wilayah Persekutuan Labuan/ Labuan Federal Territory	1,484	1,651	1,503	1,580	1,490	1,208	1,102	1,058	1,101	901	448	307	13,833
Jumlah Besar(Tan Metrik) Grand Total Tonnes	84,648	99,861	101,999	96,578	98,892	103,480	110,086	109,192	112,022	107,916	99,970	90,562	1,215,206

SEMENANJUNG MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT PERKAKAS DAN BULAN, 1998
LANDINGS OF MARINE FISH BY GEAR GROUP AND MONTH, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.3

Bulan/Month	Januari	Februari	Mac	April	Mei	Jun	Julai	Ogos	September	Oktober	November	Disember	Jumlah (Tan) Total (Tonnes)
Kumpulan Perkakas Gear Group	January	February	March	April	May	June	July	August	September	October	November	December	
Pukat-Pukat Tunda <i>Trawl Net</i>	38,169	44,703	42,159	41,631	41,939	46,554	49,018	49,424	47,827	43,383	44,147	46,368	535,322
Pukat-Pukat Tarik/Seine Net:													
Pukat-Pukat Jerut Ikan <i>Purse Seine - Fish</i>	7,433	11,417	12,343	12,008	12,626	12,216	16,115	16,710	18,259	21,501	15,933	8,108	164,669
Pukat Jerut Bilis <i>Purse Seine - Anchovy</i>	1,342	2,361	1,555	1,786	1,357	1,425	1,456	1,543	1,873	2,235	1,368	1,047	19,348
Lain-Lain Pukat <i>Other Seine</i>	1,941	1,117	1,142	1,039	1,167	1,317	1,098	1,168	1,047	894	970	999	13,899
Pukat-Pukat Hanyut <i>Drift/Gill Net</i>	5,116	6,372	6,063	5,862	7,199	8,295	8,373	8,768	8,236	8,569	7,494	6,050	86,397
Pukat-Pukat Tangguk <i>Lift Net</i>	84	525	410	369	676	813	699	1,067	1,502	2,027	1,288	0	9,460
Perangkap-Perangkap/Trap:													
Belat-Belat <i>(Stationary)</i>	37	59	50	74	72	61	51	70	62	66	71	62	735
Bubu <i>(Portable)</i>	611	563	803	712	691	849	898	914	1,003	1,012	901	812	9,769
Pancing <i>(Hook & Line)</i>	1,759	2,234	1,751	1,727	2,248	2,397	2,985	2,874	3,449	3,416	3,366	2,157	30,363
Pukat-Pukat Bakul <i>(Bag Net)</i>	1,385	1,473	1,575	1,537	1,561	1,510	1,528	1,555	1,397	1,334	1,148	1,500	17,503
Pukat-Pukat Rentang <i>(Barrier Net)</i>	72	142	123	162	132	155	140	136	143	132	174	199	1,710
Pukat-Pukat Surung <i>(Push/Scoop Net)</i>	431	417	404	522	562	599	686	674	769	596	366	557	6,583
Memungut Siput <i>(Shellfish Collection)</i>	1,393	1,023	1,198	274	145	415	121	171	82	104	74	121	5,121
Rampaian <i>(Miscellaneous)</i>	65	70	68	66	68	75	78	74	87	118	120	165	1,054
Jumlah Besar(Tan Metrik) Grand Total Tonnes	59,838	72,476	69,644	67,769	70,443	76,681	83,246	85,148	85,736	85,387	77,420	68,145	901,933

MALAYSIA

PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN SPESIES IKAN, 1998

LANDINGS OF MARINE FISH BY STATE AND SPECIES, 1998

(Kuantiti Dalam Tan Metrik/Quantity in Tonnes)

ISCAAP GROUP NO.	Species/ Local Name	Pantai Barat/West Coast								Jumlah Total	Pantai Timur/East Coast				Jumlah Total	Sarawak	Sabah	W.P.Labuan/ Labuan Federal Territory	Jumlah Total	Jumlah Besar Grand Total
	Nama Tempatan/ Local Name	Perlis	Kedah	P.Pinang	Perak	Selangor	Negeri Sembilan	Melaka	Johor Barat West Johor		Kelantan	Terengganu	Pahang	Johor Timur East Johor						
24	Kebasi/Selangat	63	513	153	562	183	14	0	379	1867	0	0	0	5	5	249	524	14	787	2659
	Pupu/B.Mata/Tirok	45	167	335	3686	1880	13	0	194	6320	125	44	38	2	209	901	2479	12	3392	9921
	Terubok	0	0	0	5	17	0	0	0	22	0	0	0	0	0	559	0	0	559	581
25	Siakap	2	1	3	851	44	2	0	36	939	1	13	1	0	15	0	926	0	926	1880
31	Lidah	646	283	194	883	384	0	0	156	2546	32	118	58	25	233	122	26	13	161	2940
	Sebelah	4	131	40	151	51	0	0	6	383	8	166	74	134	382	142	1552	98	1792	2557
33	Bayan	0	0	0	2	1	0	0	10	13	0	193	35	15	243	0	2441	0	2441	2697
	Biji Nangka	22	0	29	287	5	1	0	12	356	612	3569	551	198	4930	1575	728	61	2364	7650
	Daun Baharu	0	0	0	7	23	14	23	78	145	4	27	39	42	112	113	116	30	259	516
	Delah/Pinang-Pinang	0	0	0	5	0	0	0	0	5	0	278	52	11	341	0	900	71	971	1317
	Duri/Pulutan/Utik	72	528	1422	1147	919	10	277	388	4763	158	1960	449	574	3141	2970	4280	28	7278	15182
	Dengkis/Debam	0	0	0	234	3	0	0	17	254	24	411	67	47	549	0	627	34	661	1464
	Gelama/Tengkerong/Selampai	589	941	1415	4627	3722	11	210	582	12297	280	1465	394	685	2624	3921	3357	81	7359	22480
	Gerut-Gerut	10	220	61	270	105	5	18	38	727	14	75	5	21	115	1522	449	31	2002	2844
	Jenahak	20	147	15	150	158	18	27	80	615	0	7	28	42	77	419	3693	35	4147	4839
	Kaci	0	0	0	20	1	4	0	4	29	7	231	129	336	703	121	104	121	346	1078
	Kerapu	102	595	124	541	124	9	23	68	1586	27	1939	371	220	2557	548	5756	154	6458	10601
	Kerisi	1361	1129	661	7434	332	0	0	0	10917	899	16905	3289	1547	22640	1357	5227	186	6770	40327
	Kerisi Bali	0	0	0	81	0	0	0	0	81	1	2076	1238	50	3365	319	2035	285	2639	6085
	Kikek	4	27	8	47	0	0	0	25	111	123	1341	11	24	1499	101	1344	35	1480	3090
	Malong	132	213	59	111	3297	3	76	297	4188	2	40	100	38	180	1529	1437	1	2967	7335
	Merah	5	24	10	135	19	6	11	22	232	82	1284	444	353	2163	1777	3870	319	5966	8361
	Mengkerong/Conor/Ubi-Ubi	1000	112	129	6881	33	0	0	37	8192	561	898	1381	257	3097	0	3113	22	3135	14424
	Remong/Kunyit-Kunyit/Tanda	4	30	20	169	18	0	0	0	241	159	1750	522	352	2783	0	1363	99	1462	4486
	Semilang	34	63	114	312	111	2	0	29	665	0	0	34	0	34	19	941	0	960	1659
	Shrumbu/Lemah	0	0	10	202	0	0	0	0	212	0	0	0	0	0	288	62	13	363	575
	Puntong Damar/Bulus	23	100	3	347	265	5	0	0	743	335	212	220	128	895	0	171	0	171	1809
	Pasir-Pasir/Timun-Timun	0	0	0	0	2	0	0	0	2	44	409	221	101	775	0	42	10	52	829
34	Alu-Alu/Kacang-Kacang	40	337	38	247	47	2	17	10	738	121	249	403	300	1073	72	5203	68	5343	7154
	Aruan Tasik	4	5	2	58	18	1	0	7	95	62	210	103	53	428	0	0	0	0	523
	Bawal	311	1655	901	1354	1913	37	41	616	6828	84	135	293	156	668	1317	2028	57	3402	10898
	Belanak/Kedera	0	366	46	666	2201	5	57	2	3343	70	0	0	0	70	22	2189	3	2214	5627
	Cermin/Sagai/Cupak	0	2	2	71	25	2	0	35	137	166	1516	469	408	2559	160	776	284	1220	3916

Samb. Jadual 4.4/
(Cont' d Table 4.4)

	Cincaru	4782	953	422	2599	1621	0	5	183	10565	643	2242	440	1041	4366	2026	1845	75	3946	18877
	Demuduk/Rambai	41	439	9	157	88	0	0	3	737	34	552	214	222	1022	378	5378	30	5786	7545
	Kurau/Senangin/Senohong	31	32	94	713	637	12	50	179	1748	7	4	39	17	67	335	2787	6	3128	4943
	Pelata/Selar	421	1344	569	1642	453	1	0	24	4454	2040	8562	1794	923	13319	1092	3215	153	4460	22233
	Selar Kuning/Lolong	1139	994	82	1345	83	0	0	0	3643	3395	12977	7860	2792	27024	718	1250	99	2067	32734
	Selayang/Curut	6862	1359	1021	3891	56	0	0	0	13189	6103	18131	1533	1267	27034	224	12915	64	13203	53426
	Pisang-Pisang	39	0	5	14	10	0	0	0	68	52	158	36	1	247	0	75	0	75	390
	Talang	12	99	56	63	111	15	12	39	407	0	25	55	87	167	298	2376	5	2679	3253
35	Blis/Bunga Air	0	13561	0	1214	133	0	0	22	14930	3704	2437	1356	23	7520	22	3175	4	3201	25651
	Parang-Parang	68	315	98	292	675	15	178	436	2077	133	246	557	501	1437	432	194	3	629	4143
	Tamban	1118	846	357	857	21	0	0	82	3281	3837	9532	7344	2376	23089	2343	17523	79	19945	46315
	Bulan-Bulan	0	0	0	10	13	0	0	0	23	0	156	19	0	175	0	140	0	140	338
36	Aya/Kayu/Tongkol	4457	1583	77	1892	1382	0	0	0	9391	7228	12576	3036	1115	23955	2014	9628	7529	19171	52517
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	0	13	3	0	16	0	307	1	308	324
37	Kembong/Temenong/Pelaling	19526	15057	6977	28357	9529	0	0	0	79446	786	5254	2852	919	9811	3612	8834	369	12815	102072
	Tenggiri	1467	836	228	1014	1312	17	182	333	5389	281	1054	1164	654	3153	2284	5346	106	7736	16278
	Timah/Layor/Selayor	2009	327	702	10785	215	0	68	136	14242	386	796	139	58	1379	2180	6148	2	8330	23951
38	Pari	69	521	168	2048	1109	31	130	239	4315	237	2756	1716	1638	6347	2378	2934	130	5442	16104
	Yu	15	93	29	373	454	3	79	47	1093	25	741	521	486	1773	1771	3111	91	4973	7839
39	Ikan Baja	18823	30706	12082	81431	50328	0	0	4145	197515	5275	14145	51777	24836	96033	18228	18759	1167	38154	331702
	Ikan Campur	2410	2409	343	6432	1693	39	201	827	14354	1912	5066	4536	1504	13018	16557	6604	567	23728	51100
	Jebong	0	0	97	132	21	0	0	4	254	4	415	232	319	970	0	529	40	569	1793
42	Ketam	931	1754	337	1843	814	29	0	514	6222	83	295	730	629	1737	699	5565	20	6284	14243
45	Udang Karang/Lobok	0	0	3	4	5	0	0	0	12	8	171	155	190	524	11	413	77	501	1037
	Udang Putih	356	1320	1701	2161	1684	44	150	1353	8769	91	232	173	232	728	2708	3694	98	6500	15997
	Udang Minyak	0	0	472	3548	4295	0	0	95	8410	4	83	33	202	322	3	435	0	438	9170
	Udang Merah Ros	160	1007	121	130	2365	0	0	253	4036	0	205	682	388	1275	664	509	0	1173	6484
	Udang Kulit Keras	0	0	398	1087	1118	0	0	129	2732	118	41	135	3	297	658	585	0	1243	4272
	Udang Harimau	26	145	63	59	17	0	0	1	311	1	45	2	121	169	28	288	113	429	909
	Lain-lain Jenis Udang	1680	3602	1515	11880	2149	6	28	907	21767	176	311	797	877	2161	8387	3085	495	11967	35895
	Udang Baring	205	323	101	907	8148	0	9	769	10462	0	0	0	660	660	69	145	0	214	11336
56	Siput/Kepah/Kupang/Tiram	0	790	2	484	3824	0	23	0	5123	4	1	1	0	6	3	872	0	875	6004
57	Sotong Kereta	57	686	17	130	102	0	0	0	992	0	0	16	23	39	2	313	0	315	1346
	Sotong Katak	603	847	396	6953	4530	0	0	51	13380	197	2931	3624	2450	9202	358	3096	146	3600	26182
	Sotong Biasa	1981	3824	1140	7794	2134	0	0	142	17015	781	4020	4371	3872	13044	2177	6262	199	8638	38697
76	Ubur-Ubur	0	0	0	0	633	0	0	605	1238	0	0	0	0	0	10431	133	0	10564	11802
	Jumlah Tan M/Total Tonnes	73781	93361	35476	213984	117663	376	1895	14646	551182	41546	143694	108961	56550	350751	103213	196227	13833	313273	1215206

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN , 1998
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</i>	Januari	Februari	Mac	April	Mei	Jun	Julai	Ogos	September	Oktober	November	Disember	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan <i>Local Name</i>	January	February	March	April	May	June	July	August	September	October	November	Disember	
24	Kebasi/Selangat	279	252	231	217	218	220	204	194	200	195	218	231	2,659
	Puput/B. Mata/Tirok	735	860	939	1,030	804	865	898	879	967	901	539	504	9,921
	Terubok	8	12	113	86	75	75	97	32	38	24	18	3	581
25	Siakap	117	85	98	69	69	89	72	82	484	421	205	89	1,880
31	Lidah	226	313	341	276	232	172	237	195	208	302	200	238	2,940
	Sebelah	189	207	228	264	196	189	244	237	214	234	154	201	2,557
33	Bayan	174	248	175	139	190	351	316	143	304	252	181	224	2,697
	Biji Nangka	801	682	661	656	860	640	529	628	684	623	534	352	7,650
	Daun Baharu	32	31	33	34	58	53	55	43	40	44	46	47	516
	Delah/Pinang-Pinang	80	60	87	90	124	144	139	123	152	161	90	67	1,317
	Duri/Pulutan/Utik	1,071	1,070	1,193	1,262	1,317	1,214	1,334	1,263	1,276	1,730	1,155	1,297	15,182
	Dengkis/Debam	132	99	286	95	133	125	114	107	90	102	101	80	1,464
	Gelama/Tengkerong/Selampai	1,650	1,943	1,930	1,882	1,728	1,908	2,038	2,137	1,946	1,764	1,665	1,889	22,480
	Gerut-Gerut	55	77	141	107	104	419	339	394	321	341	280	266	2,844
	Jenahak	335	350	404	420	408	439	430	382	461	438	381	391	4,839
	Kaci	72	64	102	65	104	93	103	107	98	108	99	63	1,078
	Kerapu	633	588	660	772	967	1,110	1,095	1,013	1,073	975	927	788	10,601
	Kerisi	2,008	2,533	3,385	3,167	3,712	3,297	3,554	4,628	3,681	3,360	3,595	3,407	40,327
	Kerisi Bali	323	589	468	305	560	620	538	538	607	650	523	364	6,085
	Kikek	178	208	313	222	220	277	290	284	254	286	345	213	3,090
	Malong	476	591	629	730	664	539	660	433	651	536	778	648	7,335
	Merah	534	601	621	704	889	929	707	755	737	692	595	597	8,361
	Mengkerong/Conor/Ubi-Ubi	903	1,242	1,095	1,422	1,282	1,212	1,174	1,280	1,212	1,101	1,247	1,254	14,424
	Remong/Kunyit-Kunyit/Tanda	306	278	309	331	312	341	409	472	439	525	431	333	4,486
	Semilang	132	121	195	123	113	106	131	141	126	140	161	170	1,659
	Shrumbu/Lemah	29	33	32	66	66	73	64	79	31	28	40	34	575
	Puntong Damar/Bulus	200	217	183	88	148	130	107	112	161	151	129	183	1,809
	Pasir-Pasir/Timun-Timun	76	59	82	75	49	70	65	69	63	92	78	51	829
34	Alu-Alu/Kacang-Kacang	410	605	624	569	527	568	483	630	703	743	655	637	7,154
	Aruan Tasik	26	31	48	33	40	32	63	40	44	74	58	34	523
	Bawal	770	983	966	941	938	1,048	982	919	926	749	856	820	10,898
	Belanak/Kedera	557	462	519	330	422	291	333	345	424	468	868	608	5,627
	Cermin/Sagai/Cupak	260	273	294	272	323	363	327	324	333	351	452	344	3,916

Samb. Dari Jadual 4.5
(Cont'd From Table 4.5)

	Cincaru	596	1,159	1,488	1,549	1,279	1,544	1,885	1,561	1,735	2,488	1,976	1,617	18,877
	Demudok/Rambai	607	653	547	630	619	647	662	624	692	661	619	584	7,545
	Kurau/Senangin/Senohong	290	300	508	389	417	493	450	331	444	417	458	446	4,943
	Pelaua/Selar	1,375	2,027	2,045	1,540	1,723	1,980	2,428	2,236	2,104	1,666	1,770	1,339	22,233
	Selar Kuning/Lolong	1,244	1,966	2,389	2,037	2,407	2,290	2,597	3,558	4,381	5,078	3,466	1,321	32,734
	Selayang/Curut	3,455	4,301	4,276	3,947	3,971	3,605	5,448	5,263	5,229	6,369	5,040	2,522	53,426
	Pisang-Pisang	124	41	40	25	9	5	10	7	14	43	29	43	390
	Talang	227	243	300	256	210	200	219	286	316	340	389	267	3,253
35	Bilis/Bunga Air	1,704	2,752	1,950	2,060	1,649	1,685	1,728	2,121	3,007	3,544	2,148	1,303	25,651
	Parang-Parang	277	276	291	315	313	358	406	451	423	365	339	329	4,143
	Tamban	2,068	2,927	2,730	5,471	5,665	4,670	4,023	4,551	4,365	4,499	3,773	1,573	46,315
	Bulan-Bulan	23	9	174	9	18	12	11	10	14	27	15	16	338
36	Aya/Kayu/Tongkol	3,135	4,057	4,425	4,691	4,640	4,668	6,586	4,760	5,019	4,534	3,971	2,031	52,517
	Layaran/Mersuji	43	71	20	39	7	10	12	4	29	30	30	29	324
37	Kembong/Temenong/Pelaling	5,874	6,764	7,649	7,349	7,623	9,393	9,882	10,463	9,901	10,231	9,348	7,595	102,072
	Tenggiri	1,275	1,253	1,198	1,392	1,324	1,289	1,450	1,299	1,421	1,473	1,559	1,345	16,278
	Timah/Layor/Selayor	849	1,038	1,552	1,325	1,563	2,055	2,558	2,797	2,331	2,512	2,614	2,757	23,951
38	Pari	1,254	1,264	1,279	1,253	1,220	1,316	1,676	1,397	1,493	1,263	1,296	1,393	16,104
	Yu	544	669	694	653	720	695	802	692	618	641	592	519	7,839
39	Ikan Baja	24,321	28,187	27,033	26,020	26,922	30,129	30,007	29,253	30,170	26,142	25,825	27,693	331,702
	Ikan Campur	3,264	4,452	4,564	4,305	4,469	4,193	5,178	4,847	4,683	4,162	3,853	3,130	51,100
	Jebong	193	209	179	120	117	119	114	141	130	165	139	167	1,793
42	Ketam	1,131	1,042	993	1,068	1,066	1,167	1,314	1,338	1,373	1,228	1,217	1,306	14,243
45	Udang Karang/Lobok	87	84	87	65	92	89	89	118	87	78	79	82	1,037
	Udang Putih	1,486	1,418	1,392	1,203	1,231	1,340	1,328	1,228	1,265	1,351	1,293	1,462	15,997
	Udang Minyak	906	874	747	790	980	804	842	607	791	574	563	692	9,170
	Udang Merah Ros	625	730	660	455	475	454	433	426	503	407	531	785	6,484
	Udang Kulit Keras	417	432	286	320	397	430	294	338	333	342	350	333	4,272
	Udang Harimau	89	86	92	61	57	56	77	98	60	68	87	78	909
	Lain-Lain Jenis Udang	3,696	3,687	3,434	2,655	2,937	2,854	3,051	2,501	2,750	2,061	2,633	3,636	35,895
	Udang Baring	871	1,056	917	1,016	1,139	1,046	1,020	958	924	944	713	732	11,336
56	Siput/Kepah/Kupang/Tiram	1,451	1,090	1,276	361	209	502	200	249	156	164	135	211	6,004
57	Sotong Kereta	127	109	103	138	129	99	115	109	109	108	100	100	1,346
	Sotong Katak	1,878	2,700	2,731	2,383	2,188	2,281	2,058	1,961	2,404	1,994	1,651	1,953	26,182
	Sotong Biasa	2,526	3,151	3,473	3,511	3,081	2,786	2,812	3,425	3,703	3,170	3,166	3,893	38,697
76	Ubur-Ubur	2,839	3,017	3,092	335	174	214	190	176	97	216	599	853	11,802
	Jumlah Tan M/Total Tonnes	84,648	99,861	101,999	96,578	98,892	103,480	110,086	109,192	112,022	107,916	99,970	90,562	1,215,206

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN , 1998
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL(TABLE) 4.5.1

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</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>Disember</i>	Jumlah (Tan) <i>Total (Tonnes)</i>
	Nama Tempatan <i>Local Name</i>													
24	Kebasi/Selangat	232	203	174	178	164	146	122	141	125	124	135	128	1,872
	Puput/B. Mata/Tirok	457	669	555	673	508	580	516	666	663	600	377	265	6,529
	Terubok	3	3	11	1	2	2	0	0	0	0	0	0	22
25	Siakap	34	15	8	6	3	6	9	9	413	334	111	6	954
31	Lidah	216	303	331	260	213	161	226	182	179	290	190	228	2,779
	Sebelah	47	61	57	62	54	67	65	64	68	79	71	70	765
33	Bayan	9	113	14	7	8	12	14	11	11	11	9	37	256
	Biji Nangka	477	395	386	336	423	488	430	520	581	538	444	268	5,286
	Daun Baharu	16	16	18	19	19	26	31	23	19	19	26	25	257
	Delah/Pinang-Pinang	17	19	21	28	29	51	31	33	34	35	24	24	346
	Duri/Pulutan/Utik	576	525	565	547	588	500	614	673	711	1,280	564	761	7,904
	Dengkis/Debam	77	50	228	55	49	61	60	48	53	55	41	26	803
	Gelama/Tengkerong/Selampai	1,059	1,463	1,240	1,200	1,122	1,106	1,354	1,419	1,310	1,216	1,206	1,426	15,121
	Gerut-Gerut	32	47	80	61	55	75	70	99	85	86	81	71	842
	Jenahak	61	47	48	45	49	61	59	58	60	48	45	111	692
	Kaci	57	56	77	52	60	56	64	55	62	75	65	53	732
	Kerapu	239	232	270	278	362	395	397	397	401	407	433	332	4,143
	Kerisi	1,463	2,024	2,804	2,551	3,134	2,743	2,950	4,004	3,161	2,874	3,033	2,816	33,557
	Kerisi Bali	130	420	210	105	298	379	305	366	346	395	328	164	3,446
	Kikek	70	110	140	100	92	122	188	167	98	150	251	122	1,610
	Malong	213	303	322	392	415	416	395	197	418	308	544	445	4,368
	Merah	169	218	146	168	262	243	190	186	207	219	181	206	2,395
	Mengkerong/Conor/Ubi-Ubi	770	993	812	1,179	986	932	915	1,047	933	815	918	989	11,289
	Remong/Kunyit-Kunyit/Tanda	195	169	169	168	162	196	303	359	337	416	327	223	3,024
	Semilang	42	54	82	54	49	30	60	59	65	46	78	80	699
	Shrumbu/Lemah	7	7	10	26	23	17	34	33	10	9	22	14	212
	Puntong Damar/Bulus	197	213	179	84	142	122	76	86	131	128	110	170	1,638
	Pasir-Pasir/Timun-Timun	74	55	81	66	43	67	59	65	58	85	75	49	777
34	Alu-Alu/Kacang-Kacang	123	160	146	138	156	138	150	158	188	163	144	147	1,811
	Aruan Tasik	26	31	48	33	40	32	63	40	44	74	58	34	523
	Bawal	589	686	583	631	600	717	684	659	615	528	644	560	7,496
	Belanak/Kedera	262	219	311	213	246	118	190	174	228	315	701	436	3,413
	Cermin/Sagai/Cupak	175	172	184	159	173	217	219	206	251	293	391	256	2,696

Samb. Dari Jadual 4.5.1
(Cont'd From Table 4.5.1.)

	Cincaru	386	745	1,111	1,066	850	1215	1,490	1,211	1,392	2,287	1,757	1,421	14,931
	Demudok/Rambai	153	123	108	163	230	158	146	137	142	163	138	98	1,759
	Kurau/Senangin/Senohong	93	129	175	174	159	216	229	139	148	120	111	122	1,815
	Pelata/Selar	978	1,600	1,564	1,114	1,279	1,637	2,084	2,001	1,709	1,392	1,391	1,024	17,773
	Selar Kuning/Lolong	1,145	1,816	2,228	1,876	2,217	2,133	2,441	3,360	4,177	4,899	3,229	1,146	30,667
	Selayang/Curut	2,485	3,356	2,915	2,417	2,470	2377	3,973	4,275	4,131	5,591	4,302	1,931	40,223
	Pisang-Pisang	120	32	24	23	0	3	3	1	5	41	26	37	315
	Talang	26	46	39	36	47	58	68	66	55	42	62	29	574
35	Bilis/Bunga Air	1,345	2,396	1,659	1,796	1,482	1532	1,452	1,894	2,653	3,223	1,953	1,065	22,450
	Parang-Parang	241	244	249	251	261	282	337	398	368	312	291	280	3,514
	Tamban	596	1,636	1,173	2,758	3,738	2,896	2,026	2,785	2,651	3,519	2,086	506	26,370
	Bulan-Bulan	3	1	160	2	7	1	1	1	1	13	1	7	198
36	Aya/Kayu/Tongkol	1,634	1,895	2,204	2,392	2,687	3,023	5,169	3,628	3,414	3,101	2,954	1,245	33,346
	Layaran/Mersuji	3	1	0	12	0	0	0	0	0	0	0	0	16
37	Kembong/Temenong/Pelaling	4,997	5,935	6,269	6,093	6,371	8,235	8,762	9,295	8,784	9,350	8,388	6,778	89,257
	Tenggiri	809	632	574	703	671	678	766	756	723	723	845	662	8,542
	Timah/Layor/Selayor	421	584	714	630	929	1398	1,969	2,277	1,702	1,743	1,994	1,260	15,621
38	Pari	857	859	839	734	730	830	1,034	929	1,007	845	929	1,069	10,662
	Yu	165	272	200	211	242	256	298	289	266	254	226	187	2,866
39	Ikan Baja	21,978	25,404	23,335	22,980	22,747	26348	26,426	26,207	26,349	23,536	23,244	24,994	293,548
	Ikan Campur	1,870	2,618	2,015	1,792	1,953	2,100	2,986	2,853	2,679	2,533	2,304	1,669	27,372
	Jebong	148	165	117	57	68	89	84	72	88	108	101	127	1,224
42	Ketam	525	635	520	558	573	634	744	826	869	663	678	734	7,959
45	Udang Karang/Lobok	45	52	34	38	44	51	47	53	40	42	41	49	536
	Udang Putih	830	764	653	763	779	823	868	784	775	636	847	975	9,497
	Udang Minyak	833	844	711	757	956	776	814	573	759	544	528	637	8,732
	Udang Merah Ros	496	580	533	391	406	383	374	365	439	316	443	585	5,311
	Udang Kulit Keras	326	318	204	255	293	334	172	178	219	236	258	236	3,029
	Udang Harimau	54	49	36	37	32	30	43	52	28	31	45	43	480
	Lain-Lain Jenis Udang	2,380	2,230	2,030	1,828	2,152	2,149	2,279	1,702	1,966	1,527	1,628	2,057	23,928
	Udang Baring	867	988	907	1,009	1,132	1038	1,011	950	911	919	670	720	11,122
56	Siput/Kepah/Kupang/Tiram	1,397	1,025	1,198	275	141	415	121	173	84	105	73	122	5,129
57	Sotong Kereta	99	82	82	117	103	79	93	79	74	74	72	77	1,031
	Sotong Katak	1,498	2,335	2,383	2,046	1,897	2007	1,783	1,667	2,098	1,739	1,434	1,695	22,582
	Sotong Biasa	1,822	1,975	2,215	2,419	2,223	2186	2,267	2,918	3,165	2,702	2,700	3,467	30,059
76	Ubur-Ubur	99	59	156	121	45	29	43	50	0	43	44	549	1,238
	Jumlah Tan M/Total Tonnes	59,838	72,476	69,644	67,769	70,443	76,681	83,246	85,148	85,736	85,387	77,420	68,145	901,933

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST OF PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5.2

ISSCAAP GROUP NO.	Jenis Ikan Species	Januari	Februari	Mac	April	Mei	Jun	Julai	Ogos	September	Oktober	November	Disember	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name	January	February	March	April	May	June	July	August	September	October	November	Disember	
24	Kebasi/Selangat	231	203	174	178	164	143	122	141	125	124	135	127	1,867
	Puput/B. Mata/Tirok	449	613	508	633	489	574	510	656	661	595	370	262	6,320
	Terubok	3	3	11	1	2	2	0	0	0	0	0	0	22
25	Siakap	33	15	7	4	3	3	7	9	411	333	108	6	939
31	Lidah	194	280	310	246	204	146	216	165	166	272	160	187	2,546
33	Sebelah	24	33	26	40	31	39	32	29	30	36	25	38	383
	Bayan	1	0	1	2	1	2	1	1	1	1	1	1	13
	Biji Nangka	32	52	32	30	32	16	31	20	19	32	29	31	356
	Daun Baharu	12	11	11	13	9	15	22	13	10	8	10	11	145
	Delah/Pinang-Pinang	0	1	0	1	1	1	1	0	0	0		0	5
	Duri/Pulutan/Utik	368	359	392	391	383	318	402	476	509	259	328	578	4,763
	Dengkis/Debam	3	6	181	5	8	8	8	8	12	5	5	5	254
	Gelama/Tengkerong/Selampai	893	1,248	1,067	956	956	890	1,130	1,178	1,002	878	898	1,201	12,297
	Gerut-Gerut	26	40	72	52	46	63	63	87	74	71	70	63	727
	Jenahak	54	44	34	37	43	56	54	52	54	44	38	105	615
	Kaci	2	3	4	3	4	3	3	2	2	1	1	1	29
	Kerapu	105	95	120	138	148	150	149	160	147	123	136	115	1,586
	Kerisi	515	637	692	723	860	856	1,018	1,167	988	850	1,178	1,433	10,917
	Kerisi Bali	3	7	14	5	7	8	10	11	6	6	4	0	81
	Kikek	11	6	9	7	9	10	11	10	3	20	8	7	111
	Malong	194	285	311	381	404	395	381	184	410	293	522	428	4,188
	Merah	11	18	21	33	30	28	20	20	15	15	9	12	232
	Mengkerong/Conor/Ubi-Ubi	573	783	602	980	829	722	632	632	595	476	599	769	8,192
	Remong/Kunyit-Kunyit/Tanda	23	13	17	32	36	19	22	31	13	21	10	4	241
	Semilang	42	54	51	53	49	30	60	59	65	44	78	80	665
	Shrumbu/Lemah	7	7	10	26	23	17	34	33	10	9	22	14	212
	Puntong Damar/Bulus	68	67	62	53	52	56	48	47	91	50	50	99	743
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	2	0	0	0	0	0	0	2
	Alu-Alu/Kacang-Kacang	58	79	63	47	75	63	63	67	59	51	42	71	738
34	Aruan Tasik	3	7	12	5	4	5	9	10	10	6	16	8	95
	Bawal	549	629	549	598	572	674	624	572	536	470	565	490	6,828
	Belanak/Kedera	259	215	307	207	237	111	185	168	221	308	693	432	3,343
	Cermin/Sagai/Cupak	16	10	10	6	13	12	8	16	14	13	8	11	137

Samb. Dari Jadual 4.5.2
(Cont'd From Table 4.5.2.)

	Cincaru	179	480	437	858	637	993	1,178	818	1,044	1,595	1,260	1,086	10,565
	Demudok/Rambai	117	42	59	37	98	49	65	61	59	59	49	42	737
	Kurau/Senangin/Senohong	92	121	162	167	157	212	220	136	147	108	107	119	1,748
	Pelata/Selar	286	374	244	297	388	358	470	609	494	283	275	376	4,454
	Selar Kuning/Lolong	406	348	309	274	285	293	177	181	210	305	410	445	3,643
	Selayang/Curut	851	1,024	1,101	1,363	1,298	879	1,228	856	1,092	1,249	1,270	978	13,189
	Pisang-Pisang	1	1	1	0	0	2	2	0	3	9	14	35	68
	Talang	22	40	30	29	34	43	62	37	35	35	20	20	407
35	Bilis/Bunga Air	1,343	2,342	1,535	1,550	1,135	1133	992	1,082	974	804	980	1,060	14,930
	Parang-Parang	171	161	161	153	164	168	185	229	198	158	151	178	2,077
	Tamban	204	244	125	157	190	526	273	363	182	200	425	392	3,281
	Bulan-Bulan	1	1	5	2	7	1	1	1	1	0	1	2	23
36	Aya/Kayu/Tongkol	608	586	1,007	672	822	791	1,147	1,159	642	450	998	509	9,391
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	4,686	5,396	5,621	5,589	5,716	7,369	7,702	7,897	7,552	8,068	7,473	6,377	79,446
	Tenggiri	654	444	409	511	478	426	390	396	405	333	496	447	5,389
	Timah/Layor/Selayor	305	399	521	486	839	1323	1,874	2,175	1,589	1,628	1,912	1,191	14,242
38	Pari	390	401	360	332	334	307	316	346	348	254	329	598	4,315
	Yu	48	156	86	97	90	84	113	123	106	48	65	77	1,093
39	Ikan Baja	15,326	18,410	15,953	16,947	16,646	18,231	18,122	16,402	16,262	13,867	14,043	17,306	197,515
	Ikan Campur	873	1,591	1,079	1,037	1,101	1,124	1,402	1,633	1,184	1,166	1,190	974	14,354
	Jebong	33	32	41	14	13	24	30	14	9	10	11	23	254
42	Ketam	425	516	447	477	472	486	550	601	653	502	513	580	6,222
45	Udang Karang/Lobok	1	0	0	3	2	1	0	2	2	0	0	1	12
	Udang Putih	676	648	599	726	755	793	831	758	752	613	767	851	8,769
	Udang Minyak	780	780	684	740	950	768	807	563	743	521	488	586	8,410
	Udang Merah Ros	305	407	412	297	333	306	302	325	399	277	306	367	4,036
	Udang Kulit Keras	259	221	170	239	290	330	170	174	214	233	230	202	2,732
	Udang Harimau	35	30	31	31	24	19	22	36	17	19	31	16	311
	Lain-Lain Jenis Udang	2,030	1,970	1,825	1,717	2,071	2,046	2,169	1,550	1,840	1,370	1,404	1,775	21,767
	Udang Baring	867	988	907	1,009	1,132	1035	825	835	755	719	670	720	10,462
56	Siput/Kepah/Kupang/Tiram	1,395	1,025	1,198	275	140	415	121	172	83	105	73	121	5,123
57	Sotong Kereta	99	82	82	116	99	79	93	79	69	55	66	73	992
	Sotong Katak	778	1,691	1,715	1,320	1,314	1184	962	773	1,056	794	696	1,097	13,380
	Sotong Biasa	1,252	1,277	1,266	1,121	1,313	1373	1,147	1,323	1,337	1,140	1,731	2,735	17,015
76	Ubur-Ubur	99	59	156	121	45	29	43	50	0	43	44	549	1,238
	Jumlah Tan M/Total Tonnes	40,359	48,110	44,418	44,650	45,096	48,637	49,867	47,783	46,715	42,434	44,616	48,497	551,182

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

ISSCAAP GROUP NO.	Jenis Ikan Species	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember Disember	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name													
24	Kebasi/Selangat	1	0	0	0	0	3	0	0	0	0	0	1	5
	Puput/B. Mata/Tirok	8	56	47	40	19	6	6	10	2	5	7	3	209
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Siakap	1	0	1	2	0	3	2	0	2	1	3	0	15
31	Lidah	22	23	21	14	9	15	10	17	13	18	30	41	233
	Sebelah	23	28	31	22	23	28	33	35	38	43	46	32	382
33	Bayan	8	113	13	5	7	10	13	10	10	10	8	36	243
	Biji Nangka	445	343	354	306	391	472	399	500	562	506	415	237	4,930
	Daun Baharu	4	5	7	6	10	11	9	10	9	11	16	14	112
	Delah/Pinang-Pinang	17	18	21	27	28	50	30	33	34	35	24	24	341
	Duri/Pulutan/Utik	208	166	173	156	205	182	212	197	202	1,021	236	183	3,141
	Dengkis/Debam	74	44	47	50	41	53	52	40	41	50	36	21	549
	Gelama/Tengkerong/Selampai	166	215	173	244	166	216	224	241	308	338	308	225	2,824
	Gerut-Gerut	6	7	8	9	9	12	7	12	11	15	11	8	115
	Jenahak	7	3	14	8	6	5	5	6	6	4	7	6	77
	Kaci	55	53	73	49	56	53	61	53	60	74	64	52	703
	Kerapu	134	137	150	140	214	245	248	237	254	284	297	217	2,557
	Kerisi	948	1,387	2,112	1,828	2,274	1,887	1,932	2,837	2,173	2,024	1,855	1,383	22,640
	Kerisi Bali	127	413	196	100	291	371	295	355	340	389	324	164	3,365
	Kikek	59	104	131	93	83	112	177	157	95	130	243	115	1,499
	Malong	19	18	11	11	11	21	14	13	8	15	22	17	180
	Merah	158	200	125	135	232	215	170	166	192	204	172	194	2,163
	Mengkerong/Conor/Ubi-Ubi	197	210	210	199	157	210	283	415	338	339	319	220	3,097
	Remong/Kunyit-Kunyit/Tanda	172	156	152	136	126	177	281	328	324	395	317	219	2,783
	Semilang	0	0	31	1	0	0	0	0	0	2	0	0	34
	Shrumbu/Lemah	0	0	0	0	0	0	0	0	0	0	0	0	0
	Puntong Damar/Bulus	129	146	117	31	90	66	28	39	40	78	60	71	895
	Pasir-Pasir/Timun-Timun	74	55	81	66	43	65	59	65	58	85	75	49	775
34	Alu-Alu/Kacang-Kacang	65	81	83	91	81	75	87	91	129	112	102	76	1,073
	Aruan Tasik	23	24	36	28	36	27	54	30	34	68	42	26	428
	Bawal	40	57	34	33	28	43	60	87	79	58	79	70	668
	Belanak/Kedera	3	4	4	6	9	7	5	6	7	7	8	4	70
	Cermin/Sagai/Cupak	159	162	174	153	160	205	211	190	237	280	383	245	2,559

Samb. Dari Jadual 4.5.3
(Cont'd From Table 4.5.3.)

	Cincaru	207	265	674	208	213	222	312	393	348	692	497	335	4,366
	Demudok/Rambai	36	81	49	126	132	109	81	76	83	104	89	56	1,022
	Kurau/Senangin/Senohoro	1	8	13	7	2	4	9	3	1	12	4	3	67
	Pelata/Selar	692	1,226	1,320	817	891	1,279	1,614	1,392	1,215	1,109	1,116	648	13,319
	Selar Kuning/Lolong	739	1,468	1,919	1,602	1,932	1,840	2,264	3,179	3,967	4,594	2,819	701	27,024
	Selayang/Curut	1,634	2,332	1,814	1,054	1,172	1,498	2,745	3,419	3,039	4,342	3,032	953	27,034
	Pisang-Pisang	119	31	23	23	0	1	1	1	2	32	12	2	247
	Talang	4	6	9	7	13	15	6	29	20	7	42	9	167
35	Bilis/Bunga Air	2	54	124	246	347	399	460	812	1,679	2,419	973	5	7,520
	Parang-Parang	70	83	88	98	97	114	152	169	170	154	140	102	1,437
	Tamban	392	1,392	1,048	2,601	3,548	2,370	1,753	2,422	2,469	3,319	1,661	114	23,089
	Bulan-Bulan	2	0	155	0	0	0	0	0	0	13	0	5	175
36	Aya/Kayu/Tongkol	1,026	1,309	1,197	1,720	1,865	2,232	4,022	2,469	2,772	2,651	1,956	736	23,955
	Layaran/Mersuji	3	1	0	12	0	0	0	0	0	0	0	0	16
37	Kembong/Temenong/Pelaling	311	539	648	504	655	866	1,060	1,398	1,232	1,282	915	401	9,811
	Tenggiri	155	188	165	192	193	252	376	360	318	390	349	215	3,153
	Timah/Layor/Selayor	116	185	193	144	90	75	95	102	113	115	82	69	1,379
38	Pari	467	458	479	402	396	523	718	583	659	591	600	471	6,347
	Yu	117	116	114	114	152	172	185	166	160	206	161	110	1,773
39	Ikan Baja	6,652	6,994	7,382	6,033	6,101	8,117	8,304	9,805	10,087	9,669	9,201	7,688	96,033
	Ikan Campur	997	1,027	936	755	852	976	1,584	1,220	1,495	1,367	1,114	695	13,018
	Jebong	115	133	76	43	55	65	54	58	79	98	90	104	970
42	Ketam	100	119	73	81	101	148	194	225	216	161	165	154	1,737
45	Udang Karang/Lobok	44	52	34	35	42	50	47	51	38	42	41	48	524
	Udang Putih	154	116	54	37	24	30	37	26	23	23	80	124	728
	Udang Minyak	53	64	27	17	6	8	7	10	16	23	40	51	322
	Udang Merah Ros	191	173	121	94	73	77	72	40	40	39	137	218	1,275
	Udang Kulit Keras	67	97	34	16	3	4	2	4	5	3	28	34	297
	Udang Harimau	19	19	5	6	8	11	21	16	11	12	14	27	169
	Lain-Lain Jenis Udang	350	260	205	111	81	103	110	152	126	157	224	282	2,161
	Udang Baring	0	0	0	0	0	3	186	115	156	200	0	0	660
56	Siput/Kepah/Kupang/Tiram	2	0	0	0	1	0	0	1	1	0	0	1	6
57	Sotong Kereta	0	0	0	1	4	0	0	0	5	19	6	4	39
	Sotong Katak	720	644	668	726	583	823	821	894	1,042	945	738	598	9,202
	Sotong Biasa	570	698	949	1,298	910	813	1,120	1,595	1,828	1,562	969	732	13,044
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	19,479	24,366	25,226	23,119	25,347	28,044	33,379	37,365	39,021	42,953	32,804	19,648	350,751

SARAWAK
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5.4.

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</i> Nama Tempatan <i>Local Name</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 (Tan) <i>Total</i> (Tonnes)
24	Kebasi/Selangat	16	21	17	10	13	26	28	3	21	18	34	42	249
	Puput/B. Mata/Tirok	49	38	162	126	106	83	160	59	54	27	22	15	901
	Terubok	5	9	102	85	73	73	97	32	38	24	18	3	559
25	Siakap	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Lidah	7	8	9	14	16	9	8	9	26	8	4	4	122
	Sebelah	7	8	8	11	13	23	14	13	23	9	7	6	142
33	Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biji Nangka	269	232	204	269	380	99	23	22	13	21	21	22	1,575
	Daun Baharu	6	6	5	7	23	13	10	7	10	9	8	9	113
	Delah/Pinang-Pinang	0	0	0	0	0	0	0	0	0	0	0	0	0
	Duri/Pulutan/Utik	120	242	226	380	361	310	326	227	222	169	236	151	2,970
	Dengkis/Debam	0	0	0	0	0	0	0	0	0	0	0	0	0
	Gelama/Tengkerong/Selampai	230	216	365	430	306	541	419	410	354	230	208	212	3,921
	Gerut-Gerut	0	0	1	0	1	297	231	259	189	217	162	165	1,522
	Jenahak	18	15	15	87	52	42	64	44	28	16	19	19	419
	Kaci	1	1	9	3	7	9	11	20	15	17	21	7	121
	Kerapu	22	37	30	35	61	82	64	51	55	43	42	26	548
	Kerisi	90	103	99	108	200	92	184	105	122	74	81	99	1,357
	Kerisi Bali	10	8	22	13	28	27	24	35	59	35	22	36	319
	Kikek	6	5	7	6	7	4	3	2	43	9	7	2	101
	Malong	103	184	144	247	132	36	132	116	114	95	134	92	1,529
	Merah	69	71	96	193	248	264	188	190	185	109	94	70	1,777
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0	0	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	0	0	0	0	0	0	0	0	0	0	0	0	0
	Semilang	3	4	3	1	0	1	1	1	2	1	1	1	19
	Shrumbu/Lemah	21	23	19	27	29	46	27	28	18	17	15	18	288
	Puntong Damar/Bulus	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Alu-Alu/Kacang-Kacang	5	4	3	1	11	7	9	3	20	3	4	2	72
	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	36	62	166	148	147	150	168	103	142	78	61	56	1,317
	Belanak/Kedera	4	3	3	0	0	1	3	1	1	1	4	1	22
	Cermin/Sagai/Cupak	0	3	5	13	23	21	23	23	24	8	7	10	160

Samb. Dari Jadual 4.5.4.
(Cont'd From Table 4.5.4.)

	Cincaru	63	162	143	251	280	202	234	162	191	125	99	114	2,026
	Demudok/Rambai	22	23	24	23	20	47	38	42	57	31	28	23	378
	Kurau/Senangin/Senohong	5	8	45	27	30	37	53	26	38	28	25	13	335
	Pelata/Selar	37	62	61	97	118	95	132	76	77	65	144	128	1,092
	Selar Kuning/Lolong	11	9	45	52	39	21	41	90	110	95	134	71	718
	Selayang/Curut	21	21	23	18	37	17	17	4	11	31	23	1	224
	Pisang-Pisang	0	0	0	0	0	0	0	0	0	0	0	0	0
	Talang	18	17	28	24	40	26	20	19	19	24	49	14	298
35	Bilis/Bunga Air	0	0	0	7	0	0	0	0	0	10	5	0	22
	Parang-Parang	19	31	38	58	48	51	52	30	39	27	20	19	432
	Tamban	165	113	158	140	148	288	303	304	238	149	165	172	2,343
	Bulan-Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	85	85	115	132	113	320	214	200	217	156	193	184	2,014
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	205	150	271	272	341	336	377	424	421	278	311	226	3,612
	Tenggiri	92	111	174	212	219	241	313	173	209	199	166	175	2,284
	Timah/Layor/Selayor	47	89	104	182	120	175	160	76	99	58	53	1,017	2,180
38	Pari	111	156	155	230	253	228	383	205	253	142	157	105	2,378
	Yu	80	148	135	165	173	197	188	154	161	112	123	135	1,771
39	Ikan Baja	1,015	1,261	2,020	1,425	2,393	1,856	1,614	1,263	2,088	1,108	1,036	1,149	18,228
	Ikan Campur	863	1,142	1,851	1,899	1,956	1,557	1,616	1,338	1,435	1,107	941	852	16,557
	Jebong	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Ketam	123	46	42	36	44	77	78	46	54	53	48	52	699
45	Udang Karang/Lobok	2	1	1	0	1	0	0	2	1	1	1	1	11
	Udang Putih	257	316	344	159	136	219	171	159	207	423	149	168	2,708
	Udang Minyak	0	0	2	0	0	0	0	0	0	0	0	1	3
	Udang Merah Ros	97	116	99	22	27	30	13	14	12	36	39	159	664
	Udang Kulit Keras	84	105	69	53	75	40	28	34	32	32	34	72	658
	Udang Harimau	0	0	28	0	0	0	0	0	0	0	0	0	28
	Lain-Lain Jenis Udang	965	1,066	936	624	522	483	528	462	536	266	702	1,297	8,387
	Udang Baring	2	1	9	7	7	8	8	7	2	6	6	6	69
56	Siput/Kepah/Kupang/Tiram	1	1	0	0	0	1	0	0	0	0	0	0	3
57	Sotong Kereta	0	0	0	0	0	0	0	0	0	1	1	0	2
	Sotong Katak	17	56	56	56	25	27	21	22	23	30	18	7	358
	Sotong Biasa	183	464	587	226	161	115	90	59	109	70	60	53	2,177
76	Ubur-Ubur	2,733	2,950	2,930	195	116	173	133	113	84	159	548	297	10,431
	Jumlah Tan M/Total Tonnes	8,420	10,013	12,213	8,806	9,679	9,123	9,042	7,267	8,501	6,060	6,510	7,579	103,213

SABAH

PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1998
 LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1998
 (Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5.5.

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</i> Nama Tempatan <i>Local Name</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 (Tan) <i>Total</i> (Tonnes)
24	Kebasi/Selangat	29	27	40	29	40	48	53	48	54	51	46	59	524
	Puput/B. Mata/Tirok	226	153	222	231	189	202	221	152	249	273	138	223	2,479
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Siakap	83	70	90	63	66	83	63	73	71	87	94	83	926
31	Lidah	1	1	1	2	2	2	2	2	2	2	4	5	26
	Sebelah	126	124	142	189	128	98	153	143	117	143	67	122	1,552
33	Bayan	165	135	161	132	182	339	302	132	293	241	172	187	2,441
	Biji Nangka	48	50	69	49	55	51	70	78	87	57	58	56	728
	Daun Baharu	5	6	7	7	14	13	12	9	9	13	9	12	116
	Delah/Pinang-Pinang	57	34	62	54	87	89	102	83	110	120	62	40	900
	Duri/Pulutan/Utik	372	301	399	333	366	402	391	360	341	279	353	383	4,280
	Dengkis/Debam	53	46	55	37	83	62	53	55	33	43	56	51	627
	Gelama/Tengkerong/Selampai	351	255	320	250	297	258	260	301	281	306	236	242	3,357
	Gerut-Gerut	22	25	57	44	45	45	36	33	45	35	34	28	449
	Jenahak	252	285	339	285	304	334	304	276	370	370	314	260	3,693
	Kaci	4	1	3	5	26	10	10	9	12	13	10	1	104
	Kerapu	358	309	347	446	532	624	626	552	605	511	422	424	5,756
	Kerisi	390	400	452	505	375	459	414	490	391	401	467	483	5,227
	Kerisi Bali	171	130	202	168	200	167	169	121	187	204	162	154	2,035
	Kikek	96	90	163	115	119	149	97	111	111	123	84	86	1,344
	Malong	160	104	163	91	117	87	133	120	119	132	100	111	1,437
	Merah	262	283	349	328	345	381	291	326	334	349	310	312	3,870
	Mengkerong/Conor/Ubi-Ubi	133	249	283	243	296	280	259	233	279	281	320	257	3,113
	Remong/Kunyit-Kunyit/Tanda	100	103	136	158	143	132	90	95	95	105	99	107	1,363
	Semilang	87	63	110	68	64	75	70	81	59	93	82	89	941
	Shrumbu/Lemah	1	1	2	12	13	9	2	16	2	1	2	1	62
	Puntong Damar/Bulus	3	4	4	4	6	8	31	26	30	23	19	13	171
	Pasir-Pasir/Timun-Timun	0	3	0	8	6	3	5	3	5	6	2	1	42
34	Alu-Alu/Kacang-Kacang	276	437	468	427	357	422	321	465	492	560	496	482	5,203
	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	138	232	209	161	187	179	124	149	163	136	148	202	2,028
	Belanak/Kedera	290	239	205	117	176	172	139	170	195	152	163	171	2,189
	Cermin/Sagai/Cupak	63	76	79	88	101	90	49	36	38	38	46	72	776

Samb. Dari Jadual 4.5.5.
(Cont'd From Table 4.5.5.)

	Cincaru	137	249	218	225	144	121	155	177	148	71	119	81	1,845
	Demudok/Rambai	425	503	413	442	367	441	477	442	492	465	450	461	5,378
	Kurau/Senangin/Senohong	191	161	288	188	228	239	168	164	258	269	322	311	2,787
	Pelata/Selar	335	342	391	325	320	240	197	147	310	196	229	183	3,215
	Selar Kuning/Lolong	75	131	108	102	144	129	108	101	87	77	92	96	1,250
	Selayang/Curut	943	922	1,331	1,509	1,461	1,207	1,450	973	1,081	738	713	587	12,915
	Pisang-Pisang	4	9	16	2	9	2	7	6	9	2	3	6	75
	Talang	183	180	233	195	123	116	130	201	241	274	278	222	2,376
35	Bilis/Bunga Air	359	355	291	257	166	153	276	227	354	311	189	237	3,175
	Parang-Parang	17	0	4	6	4	25	16	22	16	26	28	30	194
	Tamban	1,297	1,176	1,383	2,568	1,773	1,481	1,683	1,453	1,471	823	1,521	894	17,523
	Bulan-Bulan	20	8	14	7	11	11	10	9	13	14	14	9	140
36	Aya/Kayu/Tongkol	745	1,256	1,165	861	765	614	690	673	614	823	821	601	9,628
	Layaran/Mersuji	39	70	20	27	7	10	12	4	29	30	30	29	307
37	Kembong/Temenong/Pelaling	627	667	1,060	950	875	795	717	693	669	572	634	575	8,834
	Tenggiri	367	495	432	473	429	367	366	346	482	542	542	505	5,346
	Timah/Layor/Selayor	381	365	734	513	514	482	429	444	530	709	567	480	6,148
38	Pari	253	241	272	288	229	237	247	243	230	272	206	216	2,934
	Yu	291	238	348	275	303	231	307	235	188	269	233	193	3,111
39	Ikan Baja	1,068	1,301	1,644	1,561	1,687	1,814	1,813	1,758	1,711	1,410	1,495	1,497	18,759
	Ikan Campur	482	494	624	599	543	509	553	596	552	492	567	593	6,604
	Jebong	34	43	49	62	48	28	29	64	41	56	36	39	529
42	Ketam	480	358	429	473	446	455	490	464	450	511	490	519	5,565
45	Udang Karang/Lobok	33	22	50	25	44	36	36	46	40	30	25	26	413
	Udang Putih	391	328	391	279	312	292	278	266	275	286	286	310	3,694
	Udang Minyak	73	30	34	33	24	28	28	34	32	30	35	54	435
	Udang Merah Ros	32	34	28	42	42	41	46	47	52	55	49	41	509
	Udang Kulit Keras	7	9	13	12	29	56	94	126	82	74	58	25	585
	Udang Harimau	26	21	24	22	22	21	24	24	25	29	25	25	288
	Lain-Lain Jenis Udang	317	335	449	194	246	204	211	224	202	227	239	237	3,085
	Udang Baring	2	67	1	0	0	0	1	1	11	19	37	6	145
56	Siput/Kepah/Kupang/Tiram	53	64	78	86	68	86	79	76	72	59	62	89	872
57	Sotong Kereta	28	27	21	21	26	20	22	30	35	33	27	23	313
	Sotong Katak	356	302	287	270	250	228	238	237	274	221	191	242	3,096
	Sotong Biasa	506	674	651	863	687	464	443	405	416	391	397	365	6,262
76	Ubur-Ubur	7	8	6	19	13	12	14	13	13	14	7	7	133
	Jumlah Tan M/Total Tonnes	14,906	15,721	18,639	18,423	17,280	16,468	16,696	15,719	16,684	15,568	15,592	14,531	196,227

LABUAN
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5.6.

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</i> Nama Tempatan <i>Local Name</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 (Tan) Total (Tonnes)
24	Kebasi/Selangat	2	1	0	0	1	0	1	2	0	2	3	2	14
	Puput/B. Mata/Tirok	3	0	0	0	1	0	1	2	1	1	2	1	12
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Siakap	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Lidah	2	1	0	0	1	0	1	2	1	2	2	1	13
	Sebelah	9	14	21	2	1	1	12	17	6	3	9	3	98
33	Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biji Nangka	7	5	2	2	2	2	6	8	3	7	11	6	61
	Daun Baharu	5	3	3	1	2	1	2	4	2	3	3	1	30
	Delah/Pinang-Pinang	6	7	4	8	8	4	6	7	8	6	4	3	71
	Duri/Pulutan/Utik	3	2	3	2	2	2	3	3	2	2	2	2	28
	Dengkis/Debam	2	3	3	3	1	2	1	4	4	4	4	3	34
	Gelama/Tengkerong/Selampai	10	9	5	2	3	3	5	7	1	12	15	9	81
	Gerut-Gerut	1	5	3	2	3	2	2	3	2	3	3	2	31
	Jenahak	4	3	2	3	3	2	3	4	3	4	3	1	35
	Kaci	10	6	13	5	11	18	18	23	9	3	3	2	121
	Kerapu	14	10	13	13	12	9	8	13	12	14	30	6	154
	Kerisi	65	6	30	3	3	3	6	29	7	11	14	9	186
	Kerisi Bali	12	31	34	19	34	47	40	16	15	16	11	10	285
	Kikek	6	3	3	1	2	2	2	4	2	4	3	3	35
	Malong	0	0	0	0	0	0	0	0	0	1	0	0	1
	Merah	34	29	30	15	34	41	38	53	11	15	10	9	319
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0	0	0	0	5	9	8	22
	Remong/Kunyit-Kunyit/Tanda	11	6	4	5	7	13	16	18	7	4	5	3	99
	Semilang	0	0	0	0	0	0	0	0	0	0	0	0	0
	Shrumbu/Lemah	0	2	1	1	1	1	1	2	1	1	1	1	13
	Puntong Damar/Bulus	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	2	1	1	1	0	0	1	1	0	1	1	1	10
34	Alu-Alu/Kacang-Kacang	6	4	7	3	3	1	3	4	3	17	11	6	68
	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	7	3	8	1	4	2	6	8	6	7	3	2	57
	Belahak/Kedera	1	1	0	0	0	0	1	0	0	0	0	0	3
	Cermin/Sagal/Cupak	22	22	26	12	26	35	36	59	20	12	8	6	284

Samb. Dari Jadual 4.5.6.
(Cont'd From Table 4.5.6.)

	Cincaru	10	3	16	7	5	6	6	11	4	5	1	1	75
	Demudok/Rambai	7	4	2	2	2	1	1	3	1	2	3	2	30
	Kurau/Senangin/Senohong	1	2	0	0	0	1	0	2	0	0	0	0	6
	Pelata/Selar	25	23	29	4	6	8	15	12	8	13	6	4	153
	Selar Kuning/Lolong	13	10	8	7	7	7	7	7	7	7	11	8	99
	Selayang/Curut	6	2	7	3	3	4	8	11	6	9	2	3	64
	Pisang-Pisang	0	0	0	0	0	0	0	0	0	0	0	0	0
	Talang	0	0	0	1	0	0	1	0	1	0	0	2	5
35	Billis/Bunga Air	0	1	0	0	1	0	0	0	0	0	1	1	4
	Parang-Parang	0	1	0	0	0	0	1	1	0	0	0	0	3
	Tamban	10	2	16	5	6	5	11	9	5	8	1	1	79
	Bulan-Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	671	821	941	1,306	1,075	711	513	259	774	454	3	1	7,529
	Layaran/Mersuji	1	0	0	0	0	0	0	0	0	0	0	0	1
37	Kembong/Temenong/Pelaling	45	12	49	34	36	27	26	51	27	31	15	18	369
	Tenggiri	7	15	18	4	5	3	5	24	7	9	6	3	106
	Timah/Layor/Selayor	0	0	0	0	0	0	0	0	0	2	0	0	2
38	Pari	33	8	13	1	8	21	12	20	3	4	4	3	130
	Yu	8	11	11	2	2	11	9	14	3	6	10	4	91
39	Ikan Baja	260	221	34	54	95	111	154	25	22	88	50	53	1,167
	Ikan Campur	49	198	74	15	17	27	23	60	17	30	41	16	567
	Jebong	11	1	13	1	1	2	1	5	1	1	2	1	40
42	Ketam	3	3	2	1	3	1	2	2	0	1	1	1	20
45	Udang Karang/Lobok	7	9	2	2	3	2	6	17	6	5	12	6	77
	Udang Putih	8	10	4	2	4	6	11	19	8	6	11	9	98
	Udang Minyak	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Merah Ros	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Kulit Keras	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Harimau	9	16	4	2	3	5	10	22	7	8	17	10	113
	Lain-Lain Jenis Udang	34	56	19	9	17	18	33	113	46	41	64	45	495
	Udang Baring	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Sotong Kereta	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sotong Katak	7	7	5	11	16	19	16	35	9	4	8	9	146
	Sotong Biasa	15	38	20	3	10	21	12	43	13	7	9	8	199
78	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	1,484	1,651	1,503	1,580	1,490	1,208	1,102	1,058	1,101	901	448	307	13,833

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.

ISSCAAP GROUP NO.	Jenis Ikan Species	Pukat Tunda Trawl Net	Pukat-Pukat Tarik Seine Net		Lain Pukat Tarik Other Seine	Pukat Hanyut Drift/Gill Net	Pukat Tangguk Lift Net	Perangkap-Perangkap Trap		Pancing Hook and Line	Pukat Bakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memungut Siput Shellfish Collection	Rampalan Miscell- aneous	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name		Pukat	Pukat				Belat- Belat Stationary	Bubu Portable							
			Jerut	Jerut												
			Ikan Purse Seine Fish	Billis Purse Seine Anchovy												
24	Kebasi/Selangat	644	220	0	4	1,720	0	63	7	0	0	1	0	0	0	2,658
	Puput/B. Mata/Tirok	4,943	150	4	16	4,800	3	5	0	0	0	0	0	0	0	9,921
	Terubok	7	0	0	0	562	0	0	0	12	0	0	0	0	0	581
25	Siakap	65	0	0	0	1,017	0	33	111	327	0	10	315	0	2	1,880
31	Lidah	1,951	3	0	72	884	0	21	1	0	0	8	0	0	0	2,940
	Sebelah	2,370	22	0	2	80	0	77	2	0	1	3	0	0	0	2,557
33	Bayan	214	56	0	295	135	0	9	119	1,763	0	0	0	0	106	2,697
	Biji Nangka	7,297	143	0	0	43	0	0	156	11	0	0	0	0	0	7,650
	Daun Baharu	233	61	0	0	181	0	0	18	21	0	0	0	0	2	516
	Delah/Pinang-Pinang	83	15	0	0	23	11	0	236	289	0	0	0	0	660	1,317
	Duri/Pulutan/Utik	6,705	1,036	96	58	4,616	1	157	20	2,286	35	170	2	0	0	15,182
	Dengkis/Debam	226	225	0	170	125	6	89	537	64	0	2	0	0	20	1,464
	Gelama/Tengkerong/Selampai	15,245	379	111	84	5,249	3	130	6	890	49	307	5	0	22	22,480
	Gerut-Gerut	2,459	39	0	1	150	0	32	11	152	0	0	0	0	0	2,844
	Jenahak	1,302	65	0	0	1,525	0	2	349	1,482	0	1	13	0	100	4,839
	Kaci	716	0	0	0	12	0	0	128	222	0	0	0	0	0	1,078
	Kerapu	2,556	46	0	0	779	0	69	1,017	6,039	0	1	10	0	84	10,601
	Kerisi	31,375	371	0	0	1,133	0	0	4,632	2,816	0	0	0	0	0	40,327
	Kerisi Bali	3,366	52	0	0	942	0	0	313	1,412	0	0	0	0	0	6,085
	Kikek	2,400	280	4	0	249	67	88	0	2	0	0	0	0	0	3,090
	Malong	2,536	177	0	17	239	0	7	0	4,359	0	0	0	0	0	7,335
	Merah	2,200	43	0	0	1,496	2	12	542	4,054	1	1	0	0	10	8,361
	Mengkerong/Conor/Ubi-Ubi	14,263	156	0	0	4	0	0	1	0	0	0	0	0	0	14,424
	Remong/Kunyit-Kunyit/Tanda	1,615	14	0	0	124	0	16	714	2,003	0	0	0	0	0	4,486
	Semilang	202	2	0	1	734	0	59	151	344	3	154	9	0	0	1,659
	Shrumbu/Lemah	496	6	0	1	72	0	0	0	0	0	0	0	0	0	575
	Puntong Damar/Bulus	1,093	23	0	0	646	0	1	0	46	0	0	0	0	0	1,809
	Pasir-Pasir/Timun-Timun	443	0	0	0	34	0	0	346	6	0	0	0	0	0	829
34	Alu-Alu/Kacang-Kacang	4,081	177	0	5	320	628	107	9	1,758	0	0	0	0	69	7,154
	Aruan Tasik	243	10	0	0	24	0	0	38	208	0	0	0	0	0	523
	Bawal	6,402	764	2	18	3,367	198	77	2	3	8	0	57	0	0	10,898
	Belanak/Kedera	814	43	0	2	4,461	5	93	0	0	63	107	18	0	21	5,627
	Cermin/Sagai/Cupak	1,277	200	0	0	244	114	0	76	2,005	0	0	0	0	0	3,916

Samb. Dari Jadual 4.6.

(Cont'd From Table 4.6.)

	Cincaru	7,483	8,941	1	0	963	355	0	0	1,104	0	1	0	0	29	18,877
	Demudok/Rambai	2,837	1,165	0	8	525	251	23	82	2,319	0	0	0	0	335	7,545
	Kurau/Senangin/Senohong	681	2	0	1	3,639	0	71	0	543	0	6	0	0	0	4,943
	Pelata/Selar	5,578	11,406	2	56	1,346	1,304	0	43	2,340	0	0	14	0	144	22,233
	Selar Kuning/Lolong	7,274	20,293	0	7	347	3,931	1	84	793	0	0	4	0	0	32,734
	Selayang/Curut	7,924	41,842	0	26	54	2,651	0	0	929	0	0	0	0	0	53,426
	Pisang-Pisang	26	211	0	0	32	1	1	6	113	0	0	0	0	0	390
	Talang	584	127	0	0	1,638	721	95	1	87	0	0	0	0	0	3,253
36	Bilis/Bunga Air	312	5	18,683	6	1	6,571	56	0	0	0	0	0	0	17	25,651
	Parang-Parang	2,525	165	0	0	1,448	0	3	0	2	0	0	0	0	0	4,143
	Tamban	1,204	38,248	149	753	2,456	3,133	81	0	243	0	0	0	0	48	46,315
	Bulan-Bulan	97	159	0	0	36	0	46	0	0	0	0	0	0	0	338
36	Aya/Kayu/Tongkol	95	38,444	0	771	4,667	0	0	0	8,540	0	0	0	0	0	52,517
	Layaran/Mersuji	1	0	0	4	245	0	0	1	73	0	0	0	0	0	324
37	Kembong/Temenong/Pelaling	25,276	36,335	0	324	37,877	642	64	0	1,515	0	0	15	0	24	102,072
	Tenggiri	4,893	619	0	17	7,062	2	1	2	3,682	0	0	0	0	0	16,278
	Timah/Layor/Selayor	20,156	2,322	3	16	703	136	11	2	598	4	0	0	0	0	23,951
38	Pari	10,811	360	0	13	1,865	0	124	43	2,869	3	13	3	0	0	16,104
	Yu	4,377	184	0	0	1,898	0	11	13	1,353	0	3	0	0	0	7,839
39	Ikan Baja	309,083	8,208	99	5,816	2,038	21	69	11	32	3,490	641	2,194	0	0	331,702
	Ikan Campur	36,809	2,820	194	201	7,600	276	364	507	1,505	513	105	179	0	27	51,100
	Jebong	1,505	42	0	0	14	0	0	206	26	0	0	0	0	0	1,793
42	Ketam	7,204	90	0	20	2,308	0	95	595	0	15	200	27	0	3,689	14,243
45	Udang Karang/Lobok	908	6	0	0	89	0	0	3	0	0	0	0	0	31	1,037
	Udang Putih	6,419	55	0	375	7,788	0	58	0	0	463	43	650	0	146	15,997
	Udang Minyak	6,185	0	0	1,652	74	0	0	0	0	1,185	1	73	0	0	9,170
	Udang Merah Ros	4,937	0	0	184	1,053	0	59	0	0	126	29	96	0	0	6,484
	Udang Kulit Keras	2,913	20	0	729	203	0	0	0	0	204	0	198	0	5	4,272
	Udang Harimau	762	1	0	26	95	0	11	0	0	7	0	3	0	4	909
	Lain-Lain Jenis Udang	21,709	189	0	4,521	5,426	0	213	0	0	1,956	87	1,662	0	132	35,895
	Udang Baring	0	0	0	0	10	64	345	0	0	9,823	0	1,023	0	71	11,336
56	Siput/Kepah/Kupang/Tiram	454	52	0	0	0	0	0	0	0	0	0	0	5,397	101	6,004
57	Sotong Kereta	1,218	4	0	0	0	57	0	16	21	30	0	0	0	0	1,346
	Sotong Katak	24,117	54	0	101	756	239	0	310	45	388	0	149	0	23	26,182
	Sotong Biasa	35,001	797	0	43	83	837	101	224	1,601	10	0	0	0	0	38,697
76	Ubur-Ubur	43	0	0	0	0	0	0	0	0	2,807	66	8,639	0	247	11,802
	Jumlah Tan M/Total Tonnes	681,223	217,944	19,348	16,416	130,329	22,230	3,050	11,691	62,907	21,184	1,960	15,358	5,397	6,169	1,215,206

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.1

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</i> Nama Tempatan <i>Local Name</i>	Pukat Tunda <i>Trawl Net</i>	Pukat-Pukat Tarik <i>Seine Net</i>		Lain Pukat Tarik <i>Other Seine</i>	Pukat Hanyut <i>Drift/Gill Net</i>	Pukat Tangguk <i>Lift Net</i>	Perangkap-Perangkap <i>Trap</i>		Pancing <i>Hook and Line</i>	Pukat Bakul <i>Bag Net</i>	Pukat Rentang <i>Barrier Net</i>	Pukat Surung <i>Push/Scoop Net</i>	Memungut Siput <i>Shellfish Collection</i>	Rampaian <i>Miscell- aneous</i>	Jumlah <i>(Tan) Total (Tonnes)</i>
			Pukat Jerut Ikan <i>Purse Seine Fish</i>	Pukat Jerut Bilis <i>Purse Seine Anchovy</i>				Belat- Belat <i>Stationary</i>	Bubu <i>Portable</i>							
24	Kebasi/Selangat	526	0	0	4	1,341	0	0	0	0	0	1	0	0	0	1,872
	Puput/B. Mata/Tirok	2,340	72	4	16	4,094	3	0	0	0	0	0	0	0	0	6,529
	Terubok	7	0	0	0	15	0	0	0	0	0	0	0	0	0	22
25	Siakap	65	0	0	0	544	0	1	11	8	0	10	315	0	0	954
31	Lidah	1,832	0	0	72	845	0	21	1	0	0	8	0	0	0	2,779
33	Sebelah	725	0	0	2	32	0	0	2	0	1	3	0	0	0	765
	Bayan	157	0	0	0	0	0	0	64	35	0	0	0	0	0	256
	Biji Nangka	5,100	0	0	0	27	0	0	148	11	0	0	0	0	0	5,286
34	Daun Baharu	111	0	0	0	111	0	0	18	17	0	0	0	0	0	257
	Delah/Pinang-Pinang	61	15	0	0	0	11	0	229	30	0	0	0	0	0	346
	Duri/Pulutan/Utik	3,999	748	96	58	2,249	1	14	20	533	30	154	2	0	0	7,904
	Dengkis/Debam	211	176	0	0	16	2	2	337	57	0	2	0	0	0	803
	Gelama/Tengkerong/Selampai	9,689	45	111	84	4,683	3	42	6	121	44	288	5	0	0	15,121
	Gerut-Gerut	628	0	0	1	100	0	0	11	102	0	0	0	0	0	842
	Jenahak	435	13	0	0	23	0	1	74	132	0	1	13	0	0	692
	Kaci	477	0	0	0	1	0	0	121	133	0	0	0	0	0	732
	Kerapu	1,984	0	0	0	60	0	0	756	1,332	0	1	10	0	0	4,143
	Kerisi	25,453	0	0	0	1,045	0	0	4,626	2,433	0	0	0	0	0	33,557
	Kerisi Bali	2,752	0	0	0	43	0	0	306	345	0	0	0	0	0	3,446
	Kikek	1,461	0	4	0	107	1	37	0	0	0	0	0	0	0	1,610
	Malong	1,143	0	0	17	207	0	5	0	2,996	0	0	0	0	0	4,368
	Merah	944	4	0	0	1	0	0	210	1,235	1	0	0	0	0	2,395
	Mengkerong/Conor/Ubi-Ubi	11,284	0	0	0	4	0	0	0	1	0	0	0	0	0	11,289
	Remong/Kunyit-Kunyit/Tanda	1,529	14	0	0	83	0	1	555	842	0	0	0	0	0	3,024
	Semilang	183	1	0	1	206	0	0	39	110	3	147	9	0	0	699
	Shrumbu/Lemah	203	6	0	1	2	0	0	0	0	0	0	0	0	0	212
	Puntong Damar/Bulus	994	0	0	0	616	0	0	0	28	0	0	0	0	0	1,638
	Pasir-Pasir/Timun-Timun	400	0	0	0	28	0	0	346	3	0	0	0	0	0	777
	Alu-Alu/Kacang-Kacang	1,374	39	0	4	227	0	5	8	154	0	0	0	0	0	1,811
	Aruan Tasik	243	10	0	0	24	0	0	38	208	0	0	0	0	0	523
	Bawal	5,449	562	2	18	1,395	18	32	2	3	8	0	7	0	0	7,496
	Belanak/Kedera	812	43	0	2	2,363	0	22	0	0	63	90	18	0	0	3,413
	Cermin/Sagai/Cupak	940	155	0	0	177	0	0	72	1,352	0	0	0	0	0	2,696

Samb. Dari Jadual 4.6.1.

(Cont'd From Table 4.6.1.)

	Cincaru	5,167	8,225	1	0	524	0	0	0	1,013	0	1	0	0	0	14,931
	Demudok/Rambai	869	436	0	0	33	0	2	70	349	0	0	0	0	0	1,759
	Kurau/Senangin/Senohong	650	1	0	1	1,120	0	12	0	26	0	5	0	0	0	1,815
	Pelata/Selar	3,818	10,054	2	3	1,032	502	0	43	2,319	0	0	0	0	0	17,773
	Selar Kuning/Lolong	6,330	19,933	0	0	305	3,880	1	84	134	0	0	0	0	0	30,667
	Selayang/Curut	4,810	34,345	0	0	53	105	0	0	910	0	0	0	0	0	40,223
	Pisang-Pisang	26	211	0	0	9	1	0	5	63	0	0	0	0	0	315
	Talang	335	48	0	0	152	0	2	0	37	0	0	0	0	0	574
35	Bilis/Bunga Air	265	0	18,683	2	0	3,500	0	0	0	0	0	0	0	0	22,450
	Parang-Parang	2,264	26	0	0	1,223	0	0	0	1	0	0	0	0	0	3,514
	Tamban	1,019	22,392	149	132	1,370	1,007	10	0	243	0	0	0	0	48	26,370
	Bulan-Bulan	15	156	0	0	27	0	0	0	0	0	0	0	0	0	198
36	Aya/Kayu/Tongkol	85	24,643	0	0	1,979	0	0	0	6,639	0	0	0	0	0	33,346
	Layaran/Mersuji	0	0	0	0	0	0	0	1	15	0	0	0	0	0	16
37	Kembong/Temenong/Pelaling	19,834	32,396	0	28	36,156	3	0	0	840	0	0	0	0	0	89,257
	Tenggiri	3,227	425	0	8	3,345	1	0	1	1,535	0	0	0	0	0	8,542
	Timah/Layor/Selayor	14,855	265	3	1	479	2	11	1	0	4	0	0	0	0	15,621
38	Pari	7,273	0	0	8	1,540	0	2	43	1,790	2	1	3	0	0	10,662
	Yu	1,996	9	0	0	399	0	6	12	444	0	0	0	0	0	2,866
39	Ikan Baja	273,045	6,632	99	5,816	2,014	0	3	11	12	3,081	641	2,194	0	0	293,548
	Ikan Campur	20,646	1,766	194	30	3,122	81	44	495	704	103	49	126	0	12	27,372
	Jebong	1,016	0	0	0	0	0	0	200	8	0	0	0	0	0	1,224
42	Ketam	5,109	0	0	20	1,595	0	0	249	0	15	158	27	0	786	7,959
45	Udang Karang/Lobok	448	0	0	0	78	0	0	3	0	0	0	0	0	7	536
	Udang Putih	2,961	55	0	356	4,956	0	30	0	0	421	33	650	0	35	9,497
	Udang Minyak	5,799	0	0	1,652	22	0	0	0	0	1,185	1	73	0	0	8,732
	Udang Merah Ros	3,834	0	0	184	1,030	0	59	0	0	79	29	96	0	0	5,311
	Udang Kulit Keras	1,799	20	0	729	203	0	0	0	0	80	0	198	0	0	3,029
	Udang Harimau	403	0	0	26	41	0	0	0	0	7	0	3	0	0	480
	Lain-Lain Jenis Udang	14,331	102	0	4,521	2,085	0	67	0	0	1,065	87	1,662	0	8	23,928
	Udang Baring	0	0	0	0	0	0	297	0	0	9,802	0	1,023	0	0	11,122
56	Siput/Kepah/Kupang/Tiram	7	0	0	0	0	0	0	0	0	0	0	0	5,121	1	5,129
57	Sotong Kereta	983	2	0	0	0	0	0	16	0	30	0	0	0	0	1,031
	Sotong Katak	20,829	2	0	101	756	2	0	310	45	388	0	149	0	0	22,582
	Sotong Biasa	27,763	622	0	1	80	337	6	224	1,016	10	0	0	0	0	30,059
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	1,081	0	0	0	157	1,238
	Jumlah Tan M/Total Tonnes	535,322	164,669	19,348	13,899	86,397	9,460	735	9,769	30,363	17,503	1,710	6,583	5,121	1,054	901,933

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.2

ISSCAAP GROUP NO.	Jenis Ikan Species Nama Tempatan Local Name	Pukat Tunda Trawl Net	Pukat-Pukat Tarik Seine Net		Lain Pukat Tarik Other Seine	Pukat Hanyut Drift/Gill Net	Pukat Tangguk Lift Net	Perangkap-Perangkap Trap		Pancing Hook and Line	Pukat Bakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memungut Siput Shellfish Collection	Rampalan Miscell- aneous	Jumlah (Tan) Total (Tonnes)
			Pukat Jerut Ikan Purse Seine Fish	Pukat Jerut Bilis Purse Seine Anchovy				Belat- Belat Stationary	Bubu Portable							
24	Kebasi/Selangat	525	0	0	4	1,337	0	0	0	0	0	1	0	0	0	1,867
	Puput/B. Mata/Tirok	2,286	29	0	16	3,989	0	0	0	0	0	0	0	0	0	6,320
	Terubok	7	0	0	0	15	0	0	0	0	0	0	0	0	0	22
26	Siakap	64	0	0	0	543	0	0	2	5	0	10	315	0	0	939
31	Lidah	1,618	0	0	72	827	0	21	0	0	0	8	0	0	0	2,548
	Sebelah	354	0	0	2	23	0	0	0	0	1	3	0	0	0	383
33	Bayan	2	0	0	0	0	0	0	11	0	0	0	0	0	0	13
	Biji Nangka	355	0	0	0	1	0	0	0	0	0	0	0	0	0	356
	Daun Baharu	29	0	0	0	110	0	0	6	0	0	0	0	0	0	145
	Delah/Pinang-Pinang	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
	Duri/Pulutan/Utik	2,266	6	0	58	1,919	0	10	9	309	30	154	2	0	0	4,763
	Dengkis/Debam	40	176	0	0	0	0	0	36	0	0	2	0	0	0	254
	Gelama/Tengkerong/Selampai	7,497	4	0	84	4,237	0	37	4	97	44	288	5	0	0	12,297
	Gerut-Gerut	529	0	0	1	90	0	0	10	97	0	0	0	0	0	727
	Jenahak	362	13	0	0	23	0	1	72	130	0	1	13	0	0	615
	Kaci	21	0	0	0	1	0	0	7	0	0	0	0	0	0	29
	Kerapu	1,316	0	0	0	53	0	0	70	136	0	1	10	0	0	1,586
	Kerisi	10,729	0	0	0	188	0	0	0	0	0	0	0	0	0	10,917
	Kerisi Bali	74	0	0	0	7	0	0	0	0	0	0	0	0	0	81
	Kikek	83	0	0	0	0	0	28	0	0	0	0	0	0	0	111
	Malong	982	0	0	17	196	0	5	0	2,988	0	0	0	0	0	4,188
	Merah	184	0	0	0	1	0	0	13	33	1	0	0	0	0	232
	Mengkerong/Conor/Ubi-Ubi	8,191	0	0	0	1	0	0	0	0	0	0	0	0	0	8,192
	Remong/Kunyit-Kunyit/Tanda	234	0	0	0	0	0	1	0	6	0	0	0	0	0	241
	Semilang	149	1	0	1	206	0	0	39	110	3	147	9	0	0	665
	Shrumbu/Lemah	203	6	0	1	2	0	0	0	0	0	0	0	0	0	212
	Puntong Damar/Bulus	446	0	0	0	270	0	0	0	27	0	0	0	0	0	743
	Pasir-Pasir/Timun-Timun	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	Alu-Alu/Kacang-Kacang	592	6	0	4	83	0	5	0	48	0	0	0	0	0	738
	Aruan Tasik	89	0	0	0	5	0	0	0	1	0	0	0	0	0	95
	Bawal	5,039	418	0	18	1,306	0	32	0	0	8	0	7	0	0	6,828
	Belanak/Kedera	811	43	0	2	2,316	0	0	0	0	63	90	18	0	0	3,343
	Cermin/Sagal/Cupak	113	0	0	0	17	0	0	7	0	0	0	0	0	0	137

Samb. Dari Jadual 4.6.2.

(Cont'd From Table 4.6.2.)

	Cincaru	4,090	6,273	0	0	201	0	0	0	0	0	1	0	0	0	10,565
	Demudok/Rambai	706	4	0	0	25	0	2	0	0	0	0	0	0	0	737
	Kurau/Senangin/Senohong	632	1	0	1	1,071	0	12	0	26	0	5	0	0	0	1,748
	Pelata/Selar	2,348	1,975	0	3	127	0	0	0	1	0	0	0	0	0	4,454
	Selar Kuning/Lolong	1,700	1,811	0	0	131	0	1	0	0	0	0	0	0	0	3,643
	Selayang/Curut	4,077	9,112	0	0	0	0	0	0	0	0	0	0	0	0	13,189
	Pisang-Pisang	13	50	0	0	5	0	0	0	0	0	0	0	0	0	68
	Talang	241	20	0	0	121	0	2	0	23	0	0	0	0	0	407
35	Billis/Bunga Air	232	0	14,696	2	0	0	0	0	0	0	0	0	0	0	14,930
	Parang-Parang	1,301	13	0	0	763	0	0	0	0	0	0	0	0	0	2,077
	Tamban	1,016	2,007	0	132	76	0	2	0	0	0	0	0	0	48	3,281
	Bulan-Bulan	14	1	0	0	8	0	0	0	0	0	0	0	0	0	23
36	Aya/Kayu/Tongkol	63	7,688	0	0	1,640	0	0	0	0	0	0	0	0	0	9,391
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	18,823	26,876	0	28	33,719	0	0	0	0	0	0	0	0	0	79,446
	Tenggiri	2,251	277	0	8	2,816	0	0	0	37	0	0	0	0	0	5,389
	Timah/Layor/Selayor	14,067	34	0	1	125	0	11	0	0	4	0	0	0	0	14,242
38	Pari	2,369	0	0	8	419	0	2	1	1,510	2	1	3	0	0	4,315
	Yu	817	0	0	0	203	0	6	0	67	0	0	0	0	0	1,093
39	Ikan Baja	178,350	5,891	0	5,816	2,014	0	3	3	1	2,602	641	2,194	0	0	197,515
	Ikan Campur	10,806	776	0	30	2,382	0	26	55	38	54	49	126	0	12	14,354
	Jebong	247	0	0	0	0	0	0	4	3	0	0	0	0	0	254
42	Ketam	3,719	0	0	20	1,438	0	0	104	0	15	158	27	0	741	6,222
45	Udang Karang/Lobok	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
	Udang Putih	2,430	55	0	356	4,773	0	30	0	0	407	33	650	0	35	8,769
	Udang Minyak	5,533	0	0	1,652	19	0	0	0	0	1,132	1	73	0	0	8,410
	Udang Merah Ros	2,669	0	0	184	979	0	59	0	0	20	29	96	0	0	4,036
	Udang Kulit Keras	1,503	20	0	729	202	0	0	0	0	80	0	198	0	0	2,732
	Udang Harimau	242	0	0	26	37	0	0	0	0	3	0	3	0	0	311
	Lain-Lain Jenis Udang	12,238	101	0	4,521	2,061	0	61	0	0	1,028	87	1,662	0	8	21,767
	Udang Baring	0	0	0	0	0	0	296	0	0	9,143	0	1,023	0	0	10,462
66	Siput/Kepah/Kupang/Tiram	2	0	0	0	0	0	0	0	0	0	0	0	5,121	0	5,123
67	Sotong Kereta	946	2	0	0	0	0	0	14	0	30	0	0	0	0	992
	Sotong Katak	11,950	2	0	101	756	0	0	34	0	388	0	149	0	0	13,380
	Sotong Biasa	16,793	111	0	1	71	0	6	23	0	10	0	0	0	0	17,015
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	1,081	0	0	0	157	1,238
	Jumlah Tan M/Total Tonnes	347,392	63,802	14,696	13,899	73,948	0	659	529	5,693	16,149	1,710	6,583	5,121	1,001	551,182

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.3

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</i> Nama Tempatan <i>Local Name</i>	Pukat Tunda <i>Trawl Net</i>	Pukat-Pukat Tarik <i>Seine Net</i>		Lain Pukat Tarik <i>Other Seine</i>	Pukat Hanyut <i>Drift/Gill Net</i>	Pukat Tangguk <i>Lift Net</i>	Perangkap-Perangkap <i>Trap</i>		Pancing <i>Hook and Line</i>	Pukat Bakul <i>Bag Net</i>	Pukat Rentang <i>Barrier Net</i>	Pukat Surung <i>Push/Scoop Net</i>	Memungut Siput <i>Shellfish Collection</i>	Rampalan <i>Miscell- aneous</i>	Jumlah (Tan) Total (Tonnes)
			Pukat Jerut Ikan <i>Purse Seine Fish</i>	Pukat Jerut Bilis <i>Purse Seine Anchovy</i>				Belat- Belat <i>Stationary</i>	Bubu <i>Portable</i>							
24	Kebasi/Selangat	1	0	0	0	4	0	0	0	0	0	0	0	0	0	5
	Puput/B. Mata/Tirok	54	43	4	0	105	3	0	0	0	0	0	0	0	0	209
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Siakap	1	0	0	0	1	0	1	9	3	0	0	0	0	0	15
31	Lidah	214	0	0	0	18	0	0	1	0	0	0	0	0	0	233
	Sebelah	371	0	0	0	9	0	0	2	0	0	0	0	0	0	382
33	Bayan	155	0	0	0	0	0	0	53	35	0	0	0	0	0	243
	Biji Nangka	4,745	0	0	0	26	0	0	148	11	0	0	0	0	0	4,930
	Daun Baharu	82	0	0	0	1	0	0	12	17	0	0	0	0	0	112
	Delah/Pinang-Pinang	61	15	0	0	0	11	0	224	30	0	0	0	0	0	341
	Duri/Pulutan/Utik	1,733	742	96	0	330	1	4	11	224	0	0	0	0	0	3,141
	Dengkis/Debam	171	0	0	0	16	2	2	301	57	0	0	0	0	0	548
	Gelama/Tengkerong/Selampai	2,192	41	111	0	446	3	5	2	24	0	0	0	0	0	2,824
	Gerut-Gerut	99	0	0	0	10	0	0	1	5	0	0	0	0	0	115
	Jenahak	73	0	0	0	0	0	0	2	2	0	0	0	0	0	77
	Kaci	456	0	0	0	0	0	0	114	133	0	0	0	0	0	703
	Kerapu	668	0	0	0	7	0	0	686	1,196	0	0	0	0	0	2,557
	Kerisi	14,724	0	0	0	857	0	0	4,626	2,433	0	0	0	0	0	22,640
	Kerisi Bali	2,678	0	0	0	36	0	0	306	345	0	0	0	0	0	3,365
	Kikek	1,378	0	4	0	107	1	9	0	0	0	0	0	0	0	1,499
	Malong	161	0	0	0	11	0	0	0	8	0	0	0	0	0	180
	Merah	760	4	0	0	0	0	0	197	1,202	0	0	0	0	0	2,163
	Mengkerong/Conor/Ubi-Ubi	3,093	0	0	0	3	0	0	1	0	0	0	0	0	0	3,097
	Remong/Kunyit-Kunyit/Tanda	1,295	14	0	0	83	0	0	555	836	0	0	0	0	0	2,783
	Semilang	34	0	0	0	0	0	0	0	0	0	0	0	0	0	34
	Shrumbu/Lemah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Puntong Damar/Bulus	548	0	0	0	346	0	0	0	1	0	0	0	0	0	895
	Pasir-Pasir/Timun-Timun	398	0	0	0	28	0	0	346	3	0	0	0	0	0	775
34	Alu-Alu/Kacang-Kacang	782	33	0	0	144	0	0	8	106	0	0	0	0	0	1,073
	Aruan Tasik	154	10	0	0	19	0	0	38	207	0	0	0	0	0	428
	Bawal	410	144	2	0	89	18	0	2	3	0	0	0	0	0	668
	Belanak/Kedera	1	0	0	0	47	0	22	0	0	0	0	0	0	0	70
	Cermin/Sagai/Cupak	827	155	0	0	160	0	0	65	1,352	0	0	0	0	0	2,558

Samb. Dari Jadual 4.6.3.

(Cont'd From Table 4.6.3.)

	Cincaru	1,077	1,952	1	0	323	0	0	0	1,013	0	0	0	0	0	4,366
	Demudok/Rambai	163	432	0	0	8	0	0	70	349	0	0	0	0	0	1,022
	Kurau/Senangin/Senohong	18	0	0	0	49	0	0	0	0	0	0	0	0	0	67
	Pelata/Selar	1,470	8,079	2	0	905	502	0	43	2,318	0	0	0	0	0	13,319
	Selar Kuning/Lolong	4,630	18,122	0	0	174	3,880	0	84	134	0	0	0	0	0	27,024
	Selayang/Curut	733	25,233	0	0	53	105	0	0	910	0	0	0	0	0	27,034
	Pisang-Pisang	13	161	0	0	4	1	0	5	63	0	0	0	0	0	247
	Talang	94	28	0	0	31	0	0	0	14	0	0	0	0	0	167
35	Bilis/Bunga Air	33	0	3,987	0	0	3,500	0	0	0	0	0	0	0	0	7,520
	Parang-Parang	963	13	0	0	460	0	0	0	1	0	0	0	0	0	1,437
	Tamban	3	20,385	149	0	1,294	1,007	8	0	243	0	0	0	0	0	23,089
	Bulan-Bulan	1	155	0	0	19	0	0	0	0	0	0	0	0	0	175
36	Aya/Kayu/Tongkol	22	16,955	0	0	339	0	0	0	6,639	0	0	0	0	0	23,955
	Layaran/Mersuji	0	0	0	0	0	0	0	1	15	0	0	0	0	0	16
37	Kembong/Temenong/Pelaling	1,011	5,520	0	0	2,437	3	0	0	840	0	0	0	0	0	9,811
	Tenggiri	976	148	0	0	529	1	0	1	1,498	0	0	0	0	0	3,153
	Timah/Layor/Selayor	788	231	3	0	354	2	0	1	0	0	0	0	0	0	1,379
38	Pari	4,904	0	0	0	1,121	0	0	42	280	0	0	0	0	0	6,347
	Yu	1,179	9	0	0	196	0	0	12	377	0	0	0	0	0	1,773
39	Ikan Baja	94,695	741	99	0	0	0	0	8	11	479	0	0	0	0	96,033
	Ikan Campur	9,840	990	194	0	740	81	18	440	666	49	0	0	0	0	13,018
	Jebong	769	0	0	0	0	0	0	196	5	0	0	0	0	0	970
42	Ketam	1,390	0	0	0	157	0	0	145	0	0	0	0	0	45	1,737
45	Udang Karang/Lobok	436	0	0	0	78	0	0	3	0	0	0	0	0	7	524
	Udang Putih	531	0	0	0	183	0	0	0	0	14	0	0	0	0	728
	Udang Minyak	266	0	0	0	3	0	0	0	0	53	0	0	0	0	322
	Udang Merah Ros	1,165	0	0	0	51	0	0	0	0	59	0	0	0	0	1,275
	Udang Kulit Keras	296	0	0	0	1	0	0	0	0	0	0	0	0	0	297
	Udang Harimau	161	0	0	0	4	0	0	0	0	4	0	0	0	0	169
	Lain-Lain Jenis Udang	2,093	1	0	0	24	0	6	0	0	37	0	0	0	0	2,161
	Udang Baring	0	0	0	0	0	0	1	0	0	659	0	0	0	0	660
56	Siput/Kepah/Kupang/Tiram	5	0	0	0	0	0	0	0	0	0	0	0	0	1	6
57	Sotong Kereta	37	0	0	0	0	0	0	2	0	0	0	0	0	0	39
	Sotong Katak	8,879	0	0	0	0	2	0	276	45	0	0	0	0	0	9,202
	Sotong Biasa	10,970	511	0	0	9	337	0	201	1,016	0	0	0	0	0	13,044
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	187,930	100,867	4,652	0	12,449	9,460	76	9,240	24,670	1,354	0	0	0	53	350,751

SARAWAK
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.4

ISSCAAP GROUP NO.	Jenis Ikan Species Nama Tempatan Local Name	Pukat Tunda Trawl Net	Pukat-Pukat Tarik Seine Net		Lain Pukat Tarik Other Seine	Pukat Hanyut Drift/Gill Net	Pukat Tangguk Lift Net	Perangkap-Perangkap Trap		Pancing Hook and Line	Pukat Bakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memungut Siput Shellfish Collection	Rampaian Miscell- aneous	Jumlah (Tan) Total (Tonnes)
			Pukat Jerut Ikan Purse Seine Fish	Pukat Jerut Bilis Purse Seine Anchovy				Belat- Belat Stationary	Bubu Portable							
24	Kebasi/Selangat	19	0	0	0	227	0	3	0	0	0	0	0	0	0	249
	Puput/B. Mata/Tirok	197	0	0	0	699	0	5	0	0	0	0	0	0	0	901
	Terubok	0	0	0	0	547	0	0	0	12	0	0	0	0	0	559
25	Siakap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Lidah	83	0	0	0	39	0	0	0	0	0	0	0	0	0	122
33	Sebelah	119	0	0	0	23	0	0	0	0	0	0	0	0	0	142
	Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biji Nangka	1,559	0	0	0	16	0	0	0	0	0	0	0	0	0	1,575
34	Daun Baharu	82	0	0	0	29	0	0	0	2	0	0	0	0	0	113
	Delah/Pinang-Pinang	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Duri/Pulutan/Utik	1,692	48	0	0	849	0	20	0	340	5	16	0	0	0	2,970
	Dengkis/Debam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Gelama/Tengerong/Selampai	3,558	0	0	0	339	0	0	0	0	5	19	0	0	0	3,921
	Gerut-Gerut	1,522	0	0	0	0	0	0	0	0	0	0	0	0	0	1,522
	Jenahak	344	0	0	0	13	0	0	0	62	0	0	0	0	0	419
	Kaci	93	0	0	0	4	0	0	0	24	0	0	0	0	0	121
	Kerapu	257	0	0	0	19	0	0	0	272	0	0	0	0	0	548
	Kerisi	1,243	0	0	0	46	0	0	0	68	0	0	0	0	0	1,357
	Kerisi Bali	196	0	0	0	0	0	0	0	123	0	0	0	0	0	319
	Kikek	73	0	0	0	28	0	0	0	0	0	0	0	0	0	101
	Malong	648	0	0	0	32	0	2	0	847	0	0	0	0	0	1,529
	Merah	1,018	0	0	0	9	0	0	0	749	0	1	0	0	0	1,777
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Semilang	0	0	0	0	1	0	8	0	3	0	7	0	0	0	19
	Shrumbu/Lemah	240	0	0	0	48	0	0	0	0	0	0	0	0	0	288
	Puntong Damar/Bulus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alu-Alu/Kacang-Kacang	56	0	0	0	13	0	0	0	3	0	0	0	0	0	72
	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	497	169	0	0	601	0	0	0	0	0	0	50	0	0	1,317
	Belanak/Kedera	1	0	0	0	2	0	2	0	0	0	17	0	0	0	22
	Cermin/Sagai/Cupak	118	0	0	0	12	0	0	0	30	0	0	0	0	0	160

Samb. Dari Jadual 4.6.4.
(Cont'd From Table 4.6.4.)

	Cincaru	1,688	12	0	0	323	0	0	0	3	0	0	0	0	0	2,026
	Demudok/Rambai	290	0	0	0	71	0	0	0	17	0	0	0	0	0	378
	Kurau/Senangin/Senohong	24	0	0	0	309	0	1	0	0	0	1	0	0	0	335
	Pelata/Selar	522	348	0	0	206	0	0	0	2	0	0	14	0	0	1,092
	Selar Kuning/Lolong	546	150	0	0	18	0	0	0	0	0	0	4	0	0	718
	Selayang/Curut	113	111	0	0	0	0	0	0	0	0	0	0	0	0	224
	Pisang-Pisang	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Talang	92	0	0	0	200	0	0	0	6	0	0	0	0	0	298
35	Bilis/Bunga Air	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
	Parang-Parang	221	0	0	0	210	0	0	0	1	0	0	0	0	0	432
	Tamban	185	1,087	0	0	1,071	0	0	0	0	0	0	0	0	0	2,343
	Bulan-Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	6	194	0	0	1,073	0	0	0	741	0	0	0	0	0	2,014
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	1,622	362	0	0	1,613	0	0	0	0	0	0	15	0	0	3,612
	Tenggiri	1,028	0	0	0	1,040	0	1	0	215	0	0	0	0	0	2,284
	Timah/Layor/Selayor	1,989	0	0	0	188	0	0	0	3	0	0	0	0	0	2,180
38	Pari	2,113	0	0	0	156	0	41	0	55	1	12	0	0	0	2,378
	Yu	1,160	0	0	0	535	0	5	0	68	0	3	0	0	0	1,771
39	Ikan Baja	17,726	0	0	0	24	0	66	0	3	409	0	0	0	0	18,228
	Ikan Campur	10,712	910	0	0	3,933	0	245	0	238	410	56	53	0	0	16,557
	Jebong	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Ketam	158	0	0	0	299	0	6	193	0	0	42	0	0	1	699
45	Udang Karang/Lobok	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
	Udang Putih	1,160	0	0	0	1,467	0	28	0	0	42	7	0	0	4	2,708
	Udang Minyak	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	Udang Merah Ros	616	0	0	0	1	0	0	0	0	47	0	0	0	0	664
	Udang Kulit Keras	534	0	0	0	0	0	0	0	0	124	0	0	0	0	658
	Udang Harimau	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
	Lain-Lain Jenis Udang	4,309	0	0	0	3,121	0	66	0	0	891	0	0	0	0	8,387
	Udang Baring	0	0	0	0	0	0	48	0	0	21	0	0	0	0	69
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3
57	Sotong Kereta	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Sotong Katak	358	0	0	0	0	0	0	0	0	0	0	0	0	0	358
	Sotong Biasa	2,176	0	0	0	1	0	0	0	0	0	0	0	0	0	2,177
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	1,726	66	8,639	0	0	10,431
	Jumlah Tan M/Total Tonnes	63,029	3,391	0	0	19,455	0	547	193	3,887	3,681	247	8,775	1	7	103,213

SABAH
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.5

ISSCAAP GROUP NO.	Jenis Ikan Species	Pukat Tunda Trawl Net	Pukat-Pukat Tarik Seine Net		Lain Pukat Tarik Other Seine	Pukat Hanyut Drift/Gill Net	Pukat Tangguk Lift Net	Perangkap-Perangkap Trap		Pancing Hook and Line	Pukat Bakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memungut Siput Shellfish Collection	Rampaian Miscell- aneous	Jumlah (Tan) Total (Tonnes)
	Pukat Jerut Ikan Purse Seine Fish		Pukat Jerut Bilis Purse Seine Anchovy	Belat- Belat Stationary				Bubu Portable								
24	Kebasi/Selangat	85	220	0	0	152	0	60	7	0	0	0	0	0	0	524
	Puput/B. Mata/Tirok	2,396	78	0	0	5	0	0	0	0	0	0	0	0	0	2,479
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Siakap	0	0	0	0	473	0	32	100	319	0	0	0	0	2	926
31	Lidah	23	3	0	0	0	0	0	0	0	0	0	0	0	0	26
	Sebelah	1,433	22	0	0	20	0	77	0	0	0	0	0	0	0	1,552
33	Bayan	57	56	0	295	135	0	9	55	1,728	0	0	0	0	106	2,441
	Biji Nangka	577	143	0	0	0	0	0	8	0	0	0	0	0	0	728
34	Daun Baharu	17	61	0	0	34	0	0	0	2	0	0	0	0	2	116
	Delah/Pinang-Pinang	4	0	0	0	18	0	0	5	213	0	0	0	0	660	900
	Duri/Pulutan/Utik	994	240	0	0	1,510	0	123	0	1,413	0	0	0	0	0	4,280
	Dengkis/Debam	7	49	0	170	83	4	87	200	7	0	0	0	0	20	627
	Gelama/Tengkerong/Selampai	1,917	334	0	0	227	0	88	0	769	0	0	0	0	22	3,357
	Gerut-Gerut	296	39	0	0	47	0	32	0	35	0	0	0	0	0	449
	Jenahak	509	52	0	0	1,489	0	1	275	1,267	0	0	0	0	100	3,693
	Kaci	62	0	0	0	4	0	0	7	31	0	0	0	0	0	104
	Kerapu	268	46	0	0	697	0	69	261	4,331	0	0	0	0	84	5,756
	Kerisi	4,493	371	0	0	42	0	0	6	315	0	0	0	0	0	5,227
	Kerisi Bali	252	52	0	0	899	0	0	7	825	0	0	0	0	0	2,035
	Kikek	837	280	0	0	109	66	50	0	2	0	0	0	0	0	1,344
	Malong	744	177	0	0	0	0	0	0	516	0	0	0	0	0	1,437
	Merah	58	39	0	0	1,486	2	12	332	1,931	0	0	0	0	10	3,870
	Mengkerong/Conor/Ubi-Ubi	2,957	156	0	0	0	0	0	0	0	0	0	0	0	0	3,113
	Remong/Kunyit-Kunyit/Tanda	12	0	0	0	0	35	0	15	159	1,142	0	0	0	0	1,363
	Semilang	19	1	0	0	0	527	0	51	112	231	0	0	0	0	941
	Shrumbu/Lemah	43	0	0	0	0	19	0	0	0	0	0	0	0	0	62
	Puntong Damar/Bulus	99	23	0	0	0	30	0	1	0	18	0	0	0	0	171
	Pasir-Pasir/Timun-Timun	39	0	0	0	0	0	0	0	0	3	0	0	0	0	42
	Alu-Alu/Kacang-Kacang	2,606	122	0	1	75	627	102	1	1,600	0	0	0	0	69	5,203
	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	436	6	0	0	0	1,371	170	45	0	0	0	0	0	0	2,028
	Belanak/Kedera	1	0	0	0	0	2,093	5	69	0	0	0	0	0	21	2,189
	Cermin/Sagai/Cupak	15	45	0	0	0	44	114	0	4	554	0	0	0	0	776

Samb. Dari Jadual 4.6.5.
(Cont'd From Table 4.6.5.)

	Cincaru	599	674	0	0	100	355	0	0	88	0	0	0	0	29	1,845
	Demudok/Rambai	1,648	729	0	8	421	251	21	12	1,953	0	0	0	0	335	5,378
	Kurau/Senangin/Senohong	1	1	0	0	2,210	0	58	0	517	0	0	0	0	0	2,787
	Pelata/Selar	1,117	977	0	53	108	797	0	0	19	0	0	0	0	144	3,215
	Selar Kuning/Lolong	303	210	0	7	24	47	0	0	659	0	0	0	0	0	1,250
	Selayang/Curut	2,989	7,344	0	26	1	2,536	0	0	19	0	0	0	0	0	12,915
	Pisang-Pisang	0	0	0	0	23	0	1	1	50	0	0	0	0	0	75
	Talang	155	79	0	0	1,283	721	93	1	44	0	0	0	0	0	2,376
35	Bilis/Bunga Air	25	5	0	0	1	3,071	56	0	0	0	0	0	0	17	3,175
	Parang-Parang	37	139	0	0	15	0	3	0	0	0	0	0	0	0	194
	Tamban	0	14,700	0	621	15	2,116	71	0	0	0	0	0	0	0	17,523
	Bulan-Bulan	82	3	0	0	9	0	46	0	0	0	0	0	0	0	140
36	Aya/Kayu/Tongkol	0	6,088	0	771	1,609	0	0	0	1,160	0	0	0	0	0	9,628
	Layaran/Mersuji	0	0	0	4	245	0	0	0	58	0	0	0	0	0	307
37	Kembong/Temenong/Pelaling	3,744	3,358	0	296	77	630	64	0	641	0	0	0	0	24	8,834
	Tenggiri	574	185	0	9	2,669	1	0	1	1,907	0	0	0	0	0	5,346
	Timah/Layor/Selayor	3,310	2,057	0	15	36	134	0	1	595	0	0	0	0	0	6,148
38	Pari	1,297	360	0	5	169	0	81	0	1,022	0	0	0	0	0	2,934
	Yu	1,138	175	0	0	962	0	0	1	835	0	0	0	0	0	3,111
39	Ikan Baja	17,158	1,563	0	0	0	21	0	0	17	0	0	0	0	0	18,759
	Ikan Campur	4,908	143	0	171	541	195	74	12	545	0	0	0	0	15	6,604
	Jebong	450	42	0	0	13	0	0	6	18	0	0	0	0	0	529
42	Ketam	1,917	90	0	0	414	0	89	153	0	0	0	0	0	2,902	5,565
45	Udang Karang/Lobok	372	6	0	0	11	0	0	0	0	0	0	0	0	24	413
	Udang Putih	2,200	0	0	19	1,365	0	0	0	0	0	3	0	0	107	3,694
	Udang Minyak	383	0	0	0	52	0	0	0	0	0	0	0	0	0	435
	Udang Merah Ros	487	0	0	0	22	0	0	0	0	0	0	0	0	0	509
	Udang Kulit Keras	580	0	0	0	0	0	0	0	0	0	0	0	0	5	585
	Udang Harimau	218	1	0	0	54	0	11	0	0	0	0	0	0	4	288
	Lain-Lain Jenis Udang	2,574	87	0	0	220	0	80	0	0	0	0	0	0	124	3,085
	Udang Baring	0	0	0	0	10	64	0	0	0	0	0	0	0	71	145
56	Siput/Kepah/Kupang/Tiram	447	52	0	0	0	0	0	0	0	0	0	0	275	98	872
57	Sotong Kereta	233	2	0	0	0	57	0	0	21	0	0	0	0	0	313
	Sotong Katak	2,784	52	0	0	0	237	0	0	0	0	0	0	0	23	3,096
	Sotong Biasa	4,871	167	0	42	2	500	95	0	585	0	0	0	0	0	6,262
76	Ubur-Ubur	43	0	0	0	0	0	0	0	0	0	0	0	0	90	133
	Jumlah Tan M/Total Tonnes	77,900	41,904	0	2,513	24,305	12,721	1,766	1,727	28,005	0	3	0	275	5,108	196,227

LABUAN
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1998
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.6

ISSCAAP GROUP NO.	Jenis Ikan Species Nama Tempatan Local Name	Pukat Tunda Trawl Net	Pukat-Pukat Tarik Seine Net		Lain Pukat Tarik Other Seine	Pukat Hanyut Drift/Gill Net	Pukat Tangguk Lift Net	Perangkap Trap		Pancing Hook and Line	Pukat Bakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memungut Siput Shellfish Collection	Rampaian Miscell- aneous	Jumlah (Tan) Total (Tonnes)
			Pukat Jerut Ikan Purse Seine Fish	Pukat Jerut Bilis Purse Seine Anchovy				Belat- Belat Stationary	Bubu Portable							
24	Kebasi/Selangat	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
	Puput/B. Mata/Tirok	10	0	0	0	2	0	0	0	0	0	0	0	0	0	12
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Siakap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Lidah	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
	Sebelah	93	0	0	0	5	0	0	0	0	0	0	0	0	0	98
33	Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biji Nangka	61	0	0	0	0	0	0	0	0	0	0	0	0	0	61
	Daun Baharu	23	0	0	0	7	0	0	0	0	0	0	0	0	0	30
	Delah/Pinang-Pinang	18	0	0	0	5	0	0	2	46	0	0	0	0	0	71
	Duri/Pulutan/Utik	20	0	0	0	8	0	0	0	0	0	0	0	0	0	28
	Dengkis/Debam	8	0	0	0	26	0	0	0	0	0	0	0	0	0	34
	Gelama/Tengkerong/Selampai	81	0	0	0	0	0	0	0	0	0	0	0	0	0	81
	Gerut-Gerut	13	0	0	0	3	0	0	0	15	0	0	0	0	0	31
	Jenahak	14	0	0	0	0	0	0	0	21	0	0	0	0	0	35
	Kaci	84	0	0	0	3	0	0	0	34	0	0	0	0	0	121
	Kerapu	47	0	0	0	3	0	0	0	104	0	0	0	0	0	154
	Kerisi	186	0	0	0	0	0	0	0	0	0	0	0	0	0	186
	Kerisi Bali	166	0	0	0	0	0	0	0	119	0	0	0	0	0	285
	Kikek	29	0	0	0	5	0	1	0	0	0	0	0	0	0	35
	Malong	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Merah	180	0	0	0	0	0	0	0	139	0	0	0	0	0	319
	Mengkerong/Conor/Ubi-Ubi	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
	Remong/Kunyit-Kunyit/Tanda	74	0	0	0	6	0	0	0	19	0	0	0	0	0	99
	Semilang	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Shrumbu/Lemah	10	0	0	0	3	0	0	0	0	0	0	0	0	0	13
	Puntong Damar/Bulus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	4	0	0	0	6	0	0	0	0	0	0	0	0	0	10
34	Alu-Alu/Kacang-Kacang	45	16	0	0	5	1	0	0	1	0	0	0	0	0	68
	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	20	27	0	0	0	10	0	0	0	0	0	0	0	0	57
	Belanak/Kedera	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
	Cermin/Sagai/Cupak	204	0	0	0	11	0	0	0	69	0	0	0	0	0	284

Samb. Dari Jadual 4.6.6.

(Cont'd From Table 4.6.6.)

	Cincaru	29	30	0	0	16	0	0	0	0	0	0	0	0	0	75
	Demudok/Rambai	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
	Kurau/Senangin/Senohong	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	Pelata/Selar	121	27	0	0	0	5	0	0	0	0	0	0	0	0	153
	Selar Kuning/Lolong	95	0	0	0	0	4	0	0	0	0	0	0	0	0	99
	Selayang/Curut	12	42	0	0	0	10	0	0	0	0	0	0	0	0	64
	Pisang-Pisang	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Talang	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5
35	Billis/Bunga Air	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
	Parang-Parang	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	Tamban	0	69	0	0	0	10	0	0	0	0	0	0	0	0	79
	Bulan-Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	4	7,519	0	0	6	0	0	0	0	0	0	0	0	0	7,529
	Layaran/Mersuji	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
37	Kembong/Temenong/Pelaling	76	219	0	0	31	9	0	0	34	0	0	0	0	0	369
	Tenggiri	64	9	0	0	8	0	0	0	25	0	0	0	0	0	106
	Timah/Layor/Selayor	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
38	Pari	128	0	0	0	0	0	0	0	2	0	0	0	0	0	130
	Yu	83	0	0	0	2	0	0	0	6	0	0	0	0	0	91
39	Ikan Baja	1,154	13	0	0	0	0	0	0	0	0	0	0	0	0	1,167
	Ikan Campur	543	1	0	0	4	0	1	0	18	0	0	0	0	0	567
	Jebong	39	0	0	0	1	0	0	0	0	0	0	0	0	0	40
42	Ketam	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
45	Udang Karang/Lobok	77	0	0	0	0	0	0	0	0	0	0	0	0	0	77
	Udang Putih	98	0	0	0	0	0	0	0	0	0	0	0	0	0	98
	Udang Minyak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Merah Ros	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Kulit Keras	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Harimau	113	0	0	0	0	0	0	0	0	0	0	0	0	0	113
	Lain-Lain Jenis Udang	495	0	0	0	0	0	0	0	0	0	0	0	0	0	495
	Udang Baring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Sotong Kereta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sotong Katak	146	0	0	0	0	0	0	0	0	0	0	0	0	0	146
	Sotong Biasa	191	8	0	0	0	0	0	0	0	0	0	0	0	0	199
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	4,972	7,980	0	4	172	49	2	2	652	0	0	0	0	0	13,833

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1998
FISHING EFFORT AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1998

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Total	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	Cumulative no. of fishing units	57,300	9,831	26,589	10,558	7,983	2,339
	Cumulative no. of trips	745,514	154,695	426,933	118,032	40,185	5,669
	Cumulative no. of days	1,004,787	154,798	449,398	193,426	159,769	47,396
	Cumulative no. of hauls	3,388,138	437,112	1,284,644	731,789	723,950	210,643
24	Kebasi/Selangat	526	7	152	269	53	45
	Puput/B. Mata/Tirok	2,340	5	558	765	801	211
	Terubok	7	0	5	2	0	0
25	Siakap	65	0	56	6	2	1
31	Lidah	1,832	69	766	618	287	92
	Sebelah	725	17	129	195	327	57
33	Bayan	157	0	0	136	12	9
	Biji Nangka	5,100	61	1,631	1,238	1,539	631
	Daun Baharu	111	3	29	42	27	10
	Delah/Pinang-Pinang	61	2	21	15	12	11
	Duri/Pulutan/Utik	3,999	67	1,040	1,676	945	271
	Dengkia/Debam	211	12	26	69	79	25
	Gelama/Tengkerong/Selampai	9,689	346	3,619	3,426	1,910	388
	Gerut-Gerut	628	3	86	264	253	22
	Jenahak	435	0	40	118	226	51
	Kaci	477	2	16	50	268	141
	Kerapu	1,984	18	151	692	880	243
	Kerisi	25,453	135	5,916	7,455	9,021	2,926
	Kerisi Bali	2,752	9	803	480	677	783
	Kikek	1,461	16	800	428	144	73
	Malong	1,143	16	404	336	320	67
	Merah	944	3	61	143	474	263
	Mengkerong/Conor/Ubi-Ubi	11,284	5	512	982	6,900	2,885
	Remong/Kunyit-Kunyit/Tanda	1,529	29	287	316	682	215
	Semilang	183	3	85	43	12	40
	Shrumbu/Lemah	203	0	0	1	151	51
	Puntong Damar/Bulus	994	45	260	309	300	80
	Pasir-Pasir/Timun-Timun	400	24	99	128	125	24
34	Alu-Alu/Kacang-Kacang	1,374	22	142	458	617	135
	Aruan Tasik	243	2	33	49	120	39
	Bawal	5,449	137	1,454	2,100	1,586	172

Samb. Dari Jadual 4.7
(Cont'd From Table 4.7)

	Belanak/Kedera	812	66	436	298	12	0
	Cermin/Sagai/Cupak	940	3	127	237	393	180
	Cincaru	5,167	8	522	1,665	2,529	443
	Demudok/Rambai	869	0	36	289	429	115
	Kurau/Senangin/Senohong	650	4	255	299	89	3
	Pelata/Selar	3,818	80	219	1,038	1,896	585
	Selar Kuning/Lolong	6,330	93	880	1,716	2,643	998
	Selayang/Curut	4,810	0	16	1,193	3,229	372
	Pisang-Pisang	26	0	10	0	15	1
	Talang	335	2	120	179	29	5
35	Bilia/Bunga Air	265	5	215	24	20	1
	Parang-Parang	2,264	31	603	875	647	108
	Tamban	1,019	6	125	465	409	14
	Bulan-Bulan	15	0	8	3	4	0
36	Aya/Kayu/Tongkol	85	0	3	26	47	9
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	19,834	165	1,721	8,663	8,230	1,055
	Tenggiri	3,227	15	439	1,364	1,173	236
	Timah/Layor/Selayor	14,855	38	1,078	2,353	9,303	2,083
38	Pari	7,273	481	1,907	2,299	1,916	670
	Yu	1,996	49	443	608	687	209
39	Ikan Baja	273,045	9,634	56,483	80,926	93,777	32,225
	Ikan Campur	20,646	511	3,592	3,805	8,545	4,193
	Jebong	1,016	5	131	155	481	244
42	Ketam	5,109	558	1,327	1,536	1,419	269
45	Udang Karang/Lobok	448	10	69	149	161	59
	Udang Putih	2,961	344	1,574	725	310	8
	Udang Minyak	5,799	1,102	4,335	348	13	1
	Udang Merah Ros	3,834	1,055	1,538	800	435	6
	Udang Kulit Keras	1,799	406	1,296	70	22	5
	Udang Harimau	403	27	98	166	100	12
	Lain-Lain Jenis Udang	14,331	2,567	9,080	1,967	656	61
	Udang Baring	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	7	3	2	1	1	0
57	Sotong Kereta	983	120	179	335	298	51
	Sotong Katak	20,829	617	6,485	5,793	5,867	2,067
	Sotong Biasa	27,763	310	4,758	10,174	10,103	2,418
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	535,322	19,373	119,291	153,353	184,638	58,667

JADUAL (TABLE) 4.7.1.

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1998
FISHING EFFORT AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1998

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Total	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	Cumulative no. of fishing units	43,393	7,295	21,694	7,849	5,580	975
	Cumulative no. of trips	627,096	119,214	365,478	105,457	33,942	3,005
	Cumulative no. of days	774,870	119,214	376,494	144,016	114,211	20,935
	Cumulative no. of hauls	2,204,491	333,762	939,064	435,630	428,776	67,259
24	Kebasi/Selangat	525	7	151	269	53	45
	Puput/B. Mata/Tirok	2,286	5	553	765	801	162
	Terubok	7	0	5	2	0	0
25	Siakap	64	0	55	6	2	1
31	Lidah	1,818	36	652	573	268	89
	Sebelah	354	1	24	67	233	29
33	Bayan	2	0	0	0	2	0
	Biji Nangka	355	0	13	70	217	55
	Daun Baharu	29	1	14	4	8	2
	Delah/Pinang-Pinang	0	0	0	0	0	0
	Duri/Pulutan/Utik	2,266	2	601	1,129	494	40
	Dengkis/Debam	40	0	3	1	29	7
	Gelama/Tengkerong/Selampai	7,497	232	2,732	2,661	1,575	297
	Gerut-Gerut	529	1	54	225	235	14
	Jenahak	362	0	34	113	200	15
	Kaci	21	0	2	0	18	1
	Kerapu	1,316	3	52	542	632	87
	Kerisi	10,729	20	729	2,443	5,893	1,644
	Kerisi Bali	74	0	0	0	66	8
	Kikek	83	1	15	55	10	2
	Malong	982	7	374	300	263	38
	Merah	184	2	11	19	136	16
	Mengkerong/Conor/Ubi-Ubi	8,191	2	94	462	5,527	2,106
	Remong/Kunyit-Kunyit/Tanda	234	0	0	27	201	6
	Semilang	149	3	55	42	10	39
	Shrumbu/Lemah	203	0	0	1	151	51
	Puntong Damar/Bulus	446	2	84	93	215	52
	Pasir-Pasir/Timun-Timun	2	0	0	2	0	0
34	Alu-Alu/Kacang-Kacang	592	0	60	210	307	15
	Aruan Tasik	89	2	22	11	44	10
	Bawal	5,039	113	1,333	2,001	1,474	118

Samb. Dari Jadual 4.7.1.

(Cont'd From Table 4.7.1.)

	Belanak/Kedera	811	66	435	298	12	0
	Cermin/Sagai/Cupak	113	0	27	30	51	5
	Cincaru	4,090	7	476	1,326	2,026	255
	Demudok/Rambai	706	0	31	255	344	76
	Kurau/Senangin/Senohong	632	1	247	292	89	3
	Pelata/Selar	2,348	0	163	802	1,202	181
	Selar Kuning/Lolong	1,700	0	262	430	873	135
	Selayang/Curut	4,077	0	14	1,145	2,835	83
	Pisang-Pisang	13	0	0	0	13	0
	Talang	241	0	104	109	24	4
35	Bilis/Bunga Air	232	4	213	13	2	0
	Parang-Parang	1,301	2	360	466	412	41
	Tamban	1,016	5	125	465	409	12
	Bulan-Bulan	14	0	7	3	4	0
36	Aya/Kayu/Tongkol	63	0	3	26	31	3
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	18,823	152	1,682	8,393	7,752	844
	Tenggiri	2,251	5	322	1,038	819	67
	Timah/Layor/Selayor	14,067	13	755	2,142	9,125	2,032
38	Pari	2,369	105	514	590	857	303
	Yu	817	9	209	210	315	74
39	Ikan Baja	178,350	5,810	41,255	50,429	64,308	16,548
	Ikan Campur	10,806	332	1,696	1,877	5,254	1,647
	Jebong	247	0	0	85	155	7
42	Ketam	3,719	390	877	1,057	1,178	217
45	Udang Karang/Lobok	12	0	0	6	4	2
	Udang Putih	2,430	205	1,313	615	290	7
	Udang Minyak	5,533	1,006	4,200	320	7	0
	Udang Merah Ros	2,669	767	1,009	499	389	5
	Udang Kulit Keras	1,503	349	1,119	13	17	5
	Udang Harimau	242	7	54	100	69	12
	Lain-Lain Jenis Udang	12,238	2,233	8,429	1,234	293	49
	Udang Baring	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	2	0	0	2	0	0
57	Sotong Kereta	946	117	174	314	290	51
	Sotong Katak	11,950	321	4,036	2,681	3,749	1,163
	Sotong Biasa	16,793	210	2,889	6,001	6,625	1,068
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	347,392	12,556	80,722	95,379	128,887	29,848

JADUAL (TABLE) 4.7.2.

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1998
FISHING EFFORT AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1998

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Total	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	Cumulative no. of fishing units	13,907	2,536	4,895	2,709	2,403	1,364
	Cumulative no. of trips	118,418	35,481	61,455	12,575	6,243	2,664
	Cumulative no. of days	229,917	35,584	72,904	49,410	45,558	26,461
	Cumulative no. of hauls	1,183,647	103,350	345,580	296,159	295,174	143,384
24	Kebasi/Selangat	1	0	1	0	0	0
	Puput/B. Mata/Tirok	54	0	5	0	0	49
	Terubok	0	0	0	0	0	0
25	Siakap	1	0	1	0	0	0
31	Lidah	214	33	114	45	19	3
	Sebelah	371	16	105	128	94	28
33	Bayan	155	0	0	136	10	9
	Biji Nangka	4,745	61	1,618	1,168	1,322	576
	Daun Baharu	82	2	15	38	19	8
	Delah/Pinang-Pinang	61	2	21	15	12	11
	Duri/Pulutan/Utik	1,733	65	439	547	451	231
	Dengkis/Debam	171	12	23	68	50	18
	Gelama/Tengkerong/Selampai	2,192	114	887	765	335	91
	Gerut-Gerut	99	2	32	39	18	8
	Jenahak	73	0	6	5	26	36
	Kaci	456	2	14	50	250	140
	Kerapu	668	15	99	150	248	156
	Kerisi	14,724	115	5,187	5,012	3,128	1,282
	Kerisi Bali	2,678	9	803	480	611	775
	Kikek	1,378	15	785	373	134	71
	Malong	161	9	30	36	57	29
	Merah	760	1	50	124	338	247
	Mengkerong/Conor/Ubi-Ubi	3,093	3	418	520	1,373	779
	Remong/Kunyit-Kunyit/Tanda	1,295	29	287	289	481	209
	Semilang	34	0	30	1	2	1
	Shrumbu/Lemah	0	0	0	0	0	0
	Puntong Damar/Bulus	548	43	176	216	85	28
	Pasir-Pasir/Timun-Timun	398	24	99	126	125	24
34	Alu-Alu/Kacang-Kacang	782	22	82	248	310	120
	Aruan Tasik	154	0	11	38	76	29
	Bawal	410	24	121	99	112	54

Samb. Dari Jadual 4.7.2.
(Cont'd From Table 4.7.2.)

	Belanak/Kedera	1	0	1	0	0	0
	Cermin/Sagai/Cupak	827	3	100	207	342	175
	Cincaru	1,077	1	46	339	503	188
	Demudok/Rambai	163	0	5	34	85	39
	Kurau/Senangin/Senohong	18	3	8	7	0	0
	Pelata/Selar	1,470	80	56	236	694	404
	Selar Kuning/Lolong	4,630	93	618	1,286	1,770	863
	Selayang/Curut	733	0	2	48	394	289
	Pisang-Pisang	13	0	10	0	2	1
	Talang	94	2	16	70	5	1
35	Bitis/Bunga Air	33	1	2	11	18	1
	Parang-Parang	963	29	243	389	235	67
	Tamban	3	1	0	0	0	2
	Bulan-Bulan	1	0	1	0	0	0
36	Aya/Kayu/Tongkol	22	0	0	0	16	6
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	1,011	13	39	270	478	211
	Tenggiri	976	10	117	326	354	169
	Timah/Layor/Selayor	788	25	323	211	178	51
38	Pari	4,904	376	1,393	1,709	1,059	367
	Yu	1,179	40	234	398	372	135
39	Ikan Baja	94,695	3,824	15,228	30,497	29,469	15,677
	Ikan Campur	9,840	179	1,896	1,928	3,291	2,546
	Jebong	769	5	131	70	326	237
42	Ketam	1,390	168	450	479	241	52
45	Udang Karang/Lobok	436	10	69	143	157	57
	Udang Putih	531	139	261	110	20	1
	Udang Minyak	266	96	135	28	6	1
	Udang Merah Ros	1,165	288	529	301	46	1
	Udang Kulit Keras	296	57	177	57	5	0
	Udang Harimau	161	20	44	66	31	0
	Lain-Lain Jenis Udang	2,093	334	651	733	363	12
	Udang Baring	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	5	1	2	-1	1	0
57	Sotong Kereta	37	3	5	21	8	0
	Sotong Katak	8,879	296	2,449	3,112	2,118	904
	Sotong Biasa	10,970	100	1,869	4,173	3,478	1,350
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	187,930	6,817	38,569	57,974	55,751	28,819

JADUAL (TABLE) 4.8

SEMANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT IKAN MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1998
FISHING EFFORT AND LANDINGS OF PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1998

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Total	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	<i>Cumulative no. of fishing units</i>	5251	60	781	1046	2184	1180
	<i>Cumulative no. of trips</i>	49471	850	10918	12511	24595	3553
	<i>Cumulative no. of days</i>	79766	850	11200	14872	33351	19492
	<i>Cumulative no. of hauls</i>	274984	2900	31598	51809	90062	90715
24	Kebasi/Selangat	0	0	0	0	0	0
	Puput/B. Mata/Tirok	72	0	43	6	21	2
	Terubok	0	0	0	0	0	0
25	Siakap	0	0	0	0	0	0
31	Lidah	0	0	0	0	0	0
	Sebelah	0	0	0	0	0	0
33	Bayan	0	0	0	0	0	0
	Biji Nangka	0	0	0	0	0	0
	Daun Baharu	0	0	0	0	0	0
	Delah/Pinang-Pinang	15	0	0	0	15	0
	Duri/Pulutan/Utik	748	0	698	48	2	0
	Dengkis/Debam	176	0	0	0	176	0
	Gelama/Tengkerong/Selampai	45	0	36	5	4	0
	Gerut-Gerut	0	0	0	0	0	0
	Jenahak	13	0	0	0	0	13
	Kaci	0	0	0	0	0	0
	Kerapu	0	0	0	0	0	0
	Kerisi	0	0	0	0	0	0
	Kerisi Bali	0	0	0	0	0	0
	Kikek	0	0	0	0	0	0
	Malong	0	0	0	0	0	0
	Merah	4	0	0	0	4	0
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	14	0	11	0	3	0
	Semilang	1	0	0	1	0	0
	Shrumbu/Lemah	6	0	0	6	0	0
	Puntong Damar/Bulus	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0
34	Alu-Alu/Kacang-Kacang	39	0	6	3	27	3
	Aruan Tasik	10	3	0	0	1	6
	Bawal	562	5	12	65	214	266

Samb. Dari Jadual 4.8
(Cont'd From Table 4.8)

	Belanak/Kedera	43	12	12	0	19	0
	Cermin/Sagai/Cupak	155	0	83	21	17	34
	Cincaru	8,225	7	284	241	4,081	3,612
	Demudok/Rambai	436	2	85	118	120	111
	Kurau/Senangin/Senohong	1	0	0	0	1	0
	Pelata/Selar	10,054	17	1,848	2,170	4,104	1,915
	Selar Kuning/Lolong	19,933	20	1,719	4,836	9,955	3,403
	Selayang/Curut	34,345	53	3,011	5,028	11,838	14,415
	Pisang-Pisang	211	0	115	19	55	22
	Talang	48	13	12	4	18	1
35	Billis/Bunga Air	0	0	0	0	0	0
	Parang-Parang	26	0	3	13	10	0
	Tamban	22,392	0	2,464	4,830	12,368	2,730
	Bulan-Bulan	156	1	153	0	2	0
36	Aya/Kayu/Tongkol	24,643	4	2,933	2,948	10,021	8,737
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	32,396	15	776	9,849	19,492	2,264
	Tenggiri	425	0	50	103	176	96
	Timah/Layor/Selayor	265	0	33	119	67	46
38	Pari	0	0	0	0	0	0
	Yu	9	0	0	0	9	0
39	Ikan Baja	6,632	797	455	793	2,594	1,993
	Ikan Campur	1,766	2	46	339	640	739
	Jebong	0	0	0	0	0	0
42	Ketam	0	0	0	0	0	0
45	Udang Karang/Lobok	0	0	0	0	0	0
	Udang Putih	55	0	0	55	0	0
	Udang Minyak	0	0	0	0	0	0
	Udang Merah Ros	0	0	0	0	0	0
	Udang Kulit Keras	20	0	0	19	1	0
	Udang Harimau	0	0	0	0	0	0
	Lain-Lain Jenis Udang	102	0	0	102	0	0
	Udang Baring	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0
57	Sotong Kereta	2	0	0	2	0	0
	Sotong Katak	2	0	0	0	2	0
	Sotong Biasa	622	1	158	246	173	44
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	164,669	952	15,046	31,989	76,230	40,452

JADUAL (TABLE) 4.8.1.

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT IKAN MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1998
FISHING EFFORT AND LANDINGS OF PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1998

ISSCAAP GROUP NO.	Usaha Menangkap Ikan <i>Fishing Effort</i>	Jumlah <i>Total</i>	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	<i>Cumulative no. of fishing units</i>	2096	22	16	437	1255	366
	<i>Cumulative no. of trips</i>	26386	369	262	5858	16152	1460
	<i>Cumulative no. of days</i>	32201	369	262	5858	19636	6075
	<i>Cumulative no. of hauls</i>	53471	1785	1207	12123	32854	5502
24	Kebasi/Selangat	0	0	0	0	0	0
	Puput/B. Mata/Tirok	29	0	0	6	21	2
	Terubok	0	0	0	0	0	0
25	Siakap	0	0	0	0	0	0
31	Lidah	0	0	0	0	0	0
	Sebelah	0	0	0	0	0	0
33	Bayan	0	0	0	0	0	0
	Biji Nangka	0	0	0	0	0	0
	Daun Baharu	0	0	0	0	0	0
	Delah/Pinang-Pinang	0	0	0	0	0	0
	Duri/Pulutan/Utik	6	0	0	4	2	0
	Dengkis/Debam	176	0	0	0	176	0
	Gelama/Tengkerong/Selampai	4	0	0	0	4	0
	Gerut-Gerut	0	0	0	0	0	0
	Jenahak	13	0	0	0	0	13
	Kaci	0	0	0	0	0	0
	Kerapu	0	0	0	0	0	0
	Kerisi	0	0	0	0	0	0
	Kerisi Bali	0	0	0	0	0	0
	Kikek	0	0	0	0	0	0
	Malong	0	0	0	0	0	0
	Merah	0	0	0	0	0	0
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	0	0	0	0	0	0
	Semilang	1	0	0	1	0	0
	Shrumbu/Lemah	6	0	0	6	0	0
	Puntong Damar/Bulus	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0
34	Alu-Alu/Kacang-Kacang	6	0	3	0	0	3
	Aruan Tasik	0	0	0	0	0	0
	Bawal	418	0	0	47	201	170

Samb. Dari Jadual 4.8.1.
(Cont'd From Table 4.8.1.)

	Belanak/Kedera	43	12	12	0	19	0
	Cermin/Sagai/Cupak	0	0	0	0	0	0
	Cincaru	6,273	0	0	34	3,662	2,577
	Demudok/Rambai	4	1	0	0	2	1
	Kurau/Senangin/Senohong	1	0	0	0	1	0
	Pelata/Selar	1,975	3	1	44	1,678	249
	Selar Kuning/Lolong	1,811	0	0	0	1,239	572
	Selayang/Curut	9,112	0	0	0	5,611	3,501
	Pisang-Pisang	50	0	0	0	28	22
	Talang	20	13	3	3	0	1
35	Billa/Bunga Air	0	0	0	0	0	0
	Parang-Parang	13	0	0	13	0	0
	Tamban	2,007	0	0	58	1,287	662
	Bulan-Bulan	1	1	0	0	0	0
36	Aya/Kayu/Tongkol	7,688	0	0	185	5,769	1,734
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	26,876	10	11	8,018	17,356	1,481
	Tenggiri	277	0	0	34	153	90
	Timah/Layor/Selayor	34	0	0	0	3	31
38	Pari	0	0	0	0	0	0
	Yu	0	0	0	0	0	0
39	Ikan Baja	5,891	797	434	717	2,333	1,610
	Ikan Campur	776	1	1	182	469	123
	Jebong	0	0	0	0	0	0
42	Ketam	0	0	0	0	0	0
45	Udang Karang/Lobok	0	0	0	0	0	0
	Udang Putih	55	0	0	55	0	0
	Udang Minyak	0	0	0	0	0	0
	Udang Merah Ros	0	0	0	0	0	0
	Udang Kulit Keras	20	0	0	19	1	0
	Udang Harimau	0	0	0	0	0	0
	Lain-Lain Jenis Udang	101	0	0	101	0	0
	Udang Baring	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0
57	Sotong Kereta	2	0	0	2	0	0
	Sotong Katak	2	0	0	0	2	0
	Sotong Biasa	111	0	0	0	83	28
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	63,802	838	465	9,529	40,100	12,870

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT IKAN MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1998
FISHING EFFORT AND LANDINGS OF PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1998

ISSCAAP GROUP NO.	Usaha Menangkap Ikan <i>Fishing Effort</i>	Jumlah <i>Total</i>	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	<i>Cumulative no. of fishing units</i>	3155	38	765	609	929	814
	<i>Cumulative no. of trips</i>	23085	481	10656	6653	8443	2093
	<i>Cumulative no. of days</i>	47565	481	10938	9014	13715	13417
	<i>Cumulative no. of hauls</i>	221513	1115	30391	39686	57208	85213
24	Kebasi/Selangat	0	0	0	0	0	0
	Puput/B. Mata/Tirok	43	0	43	0	0	0
	Terubok	0	0	0	0	0	0
25	Siakap	0	0	0	0	0	0
31	Lidah	0	0	0	0	0	0
	Sebelah	0	0	0	0	0	0
33	Bayan	0	0	0	0	0	0
	Biji Nangka	0	0	0	0	0	0
	Daun Baharu	0	0	0	0	0	0
	Delah/Pinang-Pinang	15	0	0	0	15	0
	Duri/Pulutan/Utik	742	0	698	44	0	0
	Dengkis/Debam	0	0	0	0	0	0
	Gelama/Tengkerong/Selampai	41	0	36	5	0	0
	Gerut-Gerut	0	0	0	0	0	0
	Jenahak	0	0	0	0	0	0
	Kaci	0	0	0	0	0	0
	Kerapu	0	0	0	0	0	0
	Kerisi	0	0	0	0	0	0
	Kerisi Bali	0	0	0	0	0	0
	Kikek	0	0	0	0	0	0
	Malong	0	0	0	0	0	0
	Merah	4	0	0	0	4	0
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	14	0	11	0	3	0
	Semilang	0	0	0	0	0	0
	Shrumbu/Lemah	0	0	0	0	0	0
	Puntong Damar/Bulus	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0
34	Alu-Alu/Kacang-Kacang	33	0	3	3	27	0
	Aruan Tasik	10	3	0	0	1	6
	Bawal	144	5	12	18	13	96

Samb. Dari Jadual 4.8.2.
(Cont'd From Table 4.8.2.)

	Belanak/Kedera	0	0	0	0	0	0
	Cermin/Sagai/Cupak	155	0	83	21	17	34
	Cincaru	1,952	7	284	207	419	1,035
	Demudok/Rambai	432	1	85	118	118	110
	Kurau/Senangin/Senohong	0	0	0	0	0	0
	Pelata/Selar	8,079	14	1,847	2,126	2,426	1,666
	Selar Kuning/Lolong	18,122	20	1,719	4,836	8,716	2,831
	Selayang/Curut	25,233	53	3,011	5,028	6,227	10,914
	Pisang-Pisang	161	0	115	19	27	0
	Talang	28	0	9	1	18	0
36	Bilis/Bunga Air	0	0	0	0	0	0
	Parang-Parang	13	0	3	0	10	0
	Tamban	20,385	0	2,464	4,772	11,081	2,068
	Bulan-Bulan	155	0	153	0	2	0
38	Aya/Kayu/Tongkol	16,955	4	2,933	2,763	4,252	7,003
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	5,520	5	765	1,831	2,136	783
	Tenggiri	148	0	50	69	23	6
	Timah/Layor/Selayor	231	0	33	119	64	15
38	Pari	0	0	0	0	0	0
	Yu	9	0	0	0	9	0
39	Ikan Baja	741	0	21	76	261	383
	Ikan Campur	990	1	45	157	171	616
	Jebong	0	0	0	0	0	0
42	Ketam	0	0	0	0	0	0
45	Udang Karang/Lobok	0	0	0	0	0	0
	Udang Putih	0	0	0	0	0	0
	Udang Minyak	0	0	0	0	0	0
	Udang Merah Ros	0	0	0	0	0	0
	Udang Kulit Keras	0	0	0	0	0	0
	Udang Harimau	0	0	0	0	0	0
	Lain-Lain Jenis Udang	1	0	0	1	0	0
	Udang Baring	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0
57	Sotong Kereta	0	0	0	0	0	0
	Sotong Katak	0	0	0	0	0	0
	Sotong Biasa	511	1	158	246	90	16
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	100,867	114	14,581	22,460	36,130	27,582

Jadual (Table) 5.1

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN: BILANGAN TRIP MENANGKAP IKAN MENGIKUT JENIS PERKAKAS DAN NEGERI, 1998
FISHING EFFORT: NUMBER OF TRIPS BY TYPE OF GEAR AND STATE, 1998

Jenis Perkakas <i>Type Of Gear</i>	PukatTunda <i>Trawl Net</i>					Pukat Tarik (Seine Net)										Lain-Lain Tarik Other Seine	Pukat Hanyut Drift/Gill Net	Pukat Tangguk Lift Net	Perangkap - Perangkap Trap		Pancing Hook & Line	Pukat Bakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memungut Sliput Shellfish Collection	Rampaiian Miscellaneous
						Pukat Jerut Ikan <i>Purse Seine - Fish</i>					Pukat Jerut Bilis <i>Purse Seine - Anchovy</i>								Belat Belat Stationary	Bubu Portable						
	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above											
Pantai Barat/ <i>West Coast:</i>																										
Perlis	4138	8826	2668	622	300	0	0	4183	2695	1285	0	0	0	0	0	0	81516	0	0	0	0	0	0	4509	0	9807
Kedah	57825	50218	29430	8987	257	0	0	0	2044	77	0	0	0	0	10559	10518	309205	0	497	0	11473	16266	3799	15252	666	23164
Pulau Pinang	0	0	22231	1862	123	0	0	1442	1498	30	0	0	0	0	0	25801	379961	0	0	2234	21561	12359	13935	1830	77	5194
Perak	18924	178581	22626	10889	2325	369	262	101	7177	68	0	0	0	5304	0	70771	289438	0	0	2482	27075	11625	7285	61148	5429	43533
Selangor	34110	90295	27842	11582	0	0	0	132	2738	0	0	0	0	0	0	4025	266821	0	1528	11482	35666	35310	4727	12179	6529	1935
Negeri Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20711	0	0	320	2043	0	0	0	76	0
Melaka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164	116998	0	0	55	11741	0	0	12460	1144	0
Johor Barat/ <i>West Johor:</i>	4217	37558	660	0	0	0	0	0	0	0	0	0	0	0	0	0	382900	0	19200	15307	1989	4173	2922	34308	0	17600
Pantai Timur/ <i>East Coast:</i>																										
Kelantan	0	16467	814	347	70	0	0	111	243	1143	0	870	0	0	0	0	51118	3357	10010	50	13200	0	0	0	0	11405
Terengganu	8282	25475	4164	544	151	481	10089	5832	2284	688	768	1568	0	0	0	0	41470	1003	0	29611	113748	0	0	0	0	0
Pahang	19048	12474	3948	2633	1816	0	0	429	3661	103	0	488	0	808	0	0	69167	3865	0	15533	11518	0	0	0	0	0
Johor Timur/ <i>East Johor:</i>	8151	7039	3649	2719	627	0	567	281	2255	159	0	0	0	0	0	0	56043	0	0	1380	8038	10680	0	0	0	8710

* GRT: Gross Registered Tonnage

Jadual (Table) 5.2

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN: BILANGAN HARI MENANGKAP IKAN MENGIKUT JENIS PERKAKAS DAN NEGERI, 1998
FISHING EFFORT: NUMBER OF DAYS BY TYPE OF GEAR AND STATE, 1998

Jenis Perkakas Type Of Gear	PukatTunda <i>Trawl Net</i>					Pukat Tarik (Seine Net)										Lain- LainTarik <i>Other Seine</i>	Pukat Manyut <i>Dribble Net</i>	Pukat Tangguk <i>Lift Net</i>	Perangkap - Perangkap Trap		Pancing <i>Hook & Line</i>	Pukat Bakul <i>Bag Net</i>	Pukat Rentang <i>Barrier Net</i>	Pukat Surung <i>Push/Scoop Net</i>	Memungut Siput <i>Shellfish Collection</i>	Rampai <i>Miscellaneous</i>
						Pukat Jerut Ikan <i>Purse Seine - Fish</i>					Pukat Jerut Bilis <i>Purse Seine - Anchovy</i>								Belat Stationary	Bubu <i>Portable</i>						
	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above											
Pantai Barat/West Coast:																										
Perlis	4138	20043	15680	6258	3076	0	0	4183	5682	5651	0	0	0	0	0	0	99861	0	0	0	0	0	4509	0	9807	
Kedah	57825	50218	47486	30858	1644	0	0	0	2044	264	0	0	0	0	10559	10518	309198	0	497	0	11489	16266	3799	15252	666	23164
Pulau Pinang	0	0	22231	3308	192	0	0	1442	1498	30	0	0	0	0	0	25801	379963	0	0	2275	21513	8447	13935	1830	77	5194
Perak	18924	178580	25399	55709	16023	369	262	101	7664	130	0	0	0	2733	0	70771	289603	0	0	2934	27659	19625	7245	61146	5429	44609
Selangor	34110	90295	32556	18078	0	0	0	132	2738	0	0	0	0	0	0	4025	266821	0	1528	11802	36798	35310	4727	12179	6529	1935
Negeri Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21057	0	0	1347	2041	0	0	0	76	0
Melaka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164	116998	0	0	55	11741	0	0	12460	112	0
Johor Barat/West Johor:	4217	37358	664	0	0	0	0	0	0	0	0	0	0	0	0	0	382900	0	9600	42945	1989	2070	2922	34308	0	17600
Pantai Timur/East Coast:																										
Kelantan	0	16529	5356	4567	1145	0	0	279	1193	8464	0	870	0	0	0	0	51740	4418	10010	365	24842	0	0	0	0	11405
Terengganu	8282	30587	8375	5066	1981	481	10089	7966	5059	4120	768	1792	0	0	0	0	37979	4346	0	45098	133370	0	0	0	0	0
Pahang	19048	16492	16095	18286	17865	0	0	429	3661	323	0	488	0	808	0	0	69527	1003	0	21072	24462	0	0	0	0	0
Johor Timur/East Johor:	8254	9296	19584	17639	5470	0	849	340	3802	510	0	0	0	0	0	0	58012	0	0	4670	14577	9455	0	0	0	8710

* GRT: Gross Registered Tonnage

Jadual (Table) 5.3

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN: BILANGAN KALI MENANGKAP IKAN MENGIKUT JENIS PERKAKAS DAN NEGERI, 1998
FISHING EFFORT: NUMBER OF HAULS BY TYPE OF GEAR AND STATE, 1998

Jenis Perkakas Type Of Gear	PukatTunda <i>Trawl Net</i>					Pukat Tarik (Seine Net)										Lain-Lain Tarik Other Seine	Pukat Hanyut Drift/Gill Net	Pukat Tangguk Lift Net	Perangkap - Perangkap Trap		Pancing Hook & Line	Pukat Bakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memungut Siput Shellfish Collection	Rampalan Miscellaneous
						Pukat Jerut Ikan <i>Purse Seine - Fish</i>					Pukat Jerut Bilis <i>Purse Seine - Anchovy</i>								Belat Stationary	Bubu Portable						
	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above											
Pantai Barat/West Coast:																										
Perlis	68900	27951	12888	6094	8304	0	0	8362	8833	4844	0	0	0	0	0	0	169608	0	0	0	0	0	0	9060	0	19719
Kedah	140864	149252	193648	139594	8688	0	0	0	4104	494	0	0	0	0	21096	106470	427734	0	90	0	498	30953	2825	39166	86264	23168
Pulau Pinang	0	0	61495	14690	650	0	0	3448	2262	37	0	0	0	0	0	170089	1296319	0	0	2335	28954	13779	15194	3375	77	5757
Perak	41749	450478	66463	196892	49617	1785	1207	135	13526	127	0	0	0	0	0	135410	648643	0	0	456	13109	32825	6478	80470	9091	29861
Selangor	74157	236592	99816	71506	0	0	0	178	4129	0	0	0	0	13031	0	170675	1484052	0	2249	27047	707697	105054	4727	166486	260330	25250
Negeri Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41090	0	0	14391	1995	0	0	0	0	0
Melaka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	376	130655	0	0	597	14756	0	0	24400	24	0
Johor Barat/West Johor:	8092	74781	1320	0	0	0	0	0	0	0	0	0	0	0	0	0	847696	0	19200	15672	1988	4180	2953	40915	0	17561
Pantai Timur/East Coast:																										
Kelantan	0	51075	14007	8128	1921	0	0	718	2511	15836	0	4150	0	0	0	0	157336	14283	0	0	0	0	0	0	0	68430
Terengganu	29655	206701	130199	142284	70671	1115	30391	37681	43242	68495	2742	5339	0	0	0	0	120335	15566	0	0	581	0	0	0	0	0
Pahang	51726	56338	76114	78190	52424	0	0	1287	11455	882	0	1320	0	1716	0	0	173388	3009	0	0	0	0	0	0	0	0
Johor Timur/East Johor:	21969	31466	75839	66572	18368	0	0	0	0	0	0	0	0	0	0	0	188584	0	0	1391	0	10648	0	0	0	0

*GRT: Gross Registered Tonnage

JADUAL (TABLE) 6.1

SEMENANJUNG MALAYSIA /PENINSULAR MALAYSIA
HARGA PURATA IKAN DI PANTAI MENGIKUT BULAN, 1998
MONTHLY AVERAGE EX-VESSEL PRICES OF FRESH FISH, 1998
Harga Dalam RM/Kg/Prices At RM/Kg .

Jenis-Jenis Ikan Species	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Purata, 1998 Average, 1998
Bawal Putih	19.55	19.53	19.32	18.98	18.85	19.20	20.13	20.89	20.64	20.87	21.12	20.18	19.94
Bawal Hitam	10.32	12.32	11.90	11.82	11.50	11.58	11.90	12.32	12.45	12.50	12.80	12.93	12.03
Kerapu	13.92	14.35	14.50	14.32	13.54	13.98	14.65	13.95	14.23	14.03	14.52	14.65	14.22
Tenggiri	12.32	12.50	12.68	12.35	13.05	13.24	13.50	13.21	13.02	12.98	12.80	13.52	12.93
Jenahak	13.25	14.32	14.03	13.90	14.32	14.50	14.65	14.75	14.65	13.52	14.65	15.36	14.33
Merah	7.05	8.52	8.32	8.00	7.92	7.80	7.95	8.02	7.98	7.86	8.23	8.85	8.04
Kaci	4.52	4.65	4.63	4.56	4.42	4.70	4.85	4.92	4.91	4.96	5.02	5.10	4.77
Cermin	4.75	4.86	4.78	4.81	4.92	4.95	4.86	4.50	4.65	4.80	4.90	5.06	4.82
Gelama	2.75	2.89	2.77	2.85	2.96	2.99	3.02	3.02	3.05	3.25	3.21	3.50	3.02
Kembong	4.05	4.15	4.12	3.98	4.03	4.02	4.20	4.21	4.31	4.53	4.62	4.65	4.24
Kerisi	3.15	3.26	3.20	3.16	3.22	3.23	3.15	3.28	3.31	3.40	3.50	3.56	3.29
Selayang	1.62	1.65	1.60	1.55	1.63	1.68	1.75	1.72	1.70	1.86	1.92	1.98	1.72
Tamban	1.59	1.68	1.65	1.62	1.73	1.74	1.76	1.78	1.88	1.92	1.89	1.85	1.76
Selar/Pelata	3.89	3.99	4.03	3.92	3.81	3.84	3.65	3.74	3.81	3.84	4.20	4.05	3.90
Sotong Biasa	5.84	5.79	5.62	5.45	5.68	5.71	5.76	5.81	5.78	5.70	5.72	5.89	5.73
Aya/Tongkol	2.56	2.78	2.54	2.65	2.73	2.84	2.89	2.92	2.99	3.10	3.09	3.01	2.84
Udang Putih	24.60	25.63	24.64	24.30	23.95	23.45	23.02	23.75	24.16	24.78	25.25	25.60	24.43
Udang Harimau	26.50	26.90	26.50	26.21	25.95	25.90	24.90	24.75	25.35	25.98	26.20	26.95	26.01
Lain-Lain Udang	7.25	7.93	7.75	7.65	7.25	7.05	7.35	7.45	7.89	8.05	7.85	7.95	7.62

MALAYSIA
NILAI HARGA BORONG PENDARATAN IKAN LAUT, 1998
WHOLESALE VALUE OF MARINE FISH LANDING, 1998

JADUAL (TABLE) 7.1

Negeri/State	Gred 1 Grade1		Gred 11 Grade11		Gred 111 Grade111		Udang Prawn		Ikan Baja Manure Fish		Kerang-Kerangan Shellfish		Jumlah Total	
	Tan.metrik M. Tonnes	RM	Tan.Metrik M. Tonnes	RM	Tan.Metrik M. Tonnes	RM	Tan.metrik M. Tonnes	RM	Tan.metrik M. Tonnes	RM	Tan.metrik M. Tonnes	RM	Tan.metrik M. Tonnes	RM
Pantai Barat/West Coast														
Perlis	1,999	17,337,847	93	332,570	50,439	110,565,072	2,427	22,108,124	18,823	4,701,859	0	0	73,781	155,045,472
Kedah	3,580	48,654,427	633	2,133,998	51,255	206,749,292	6,397	86,762,966	30,706	9,975,763	790	1,211,139	93,361	355,487,585
Pulau-Pinang	1,460	32,391,653	359	1,981,680	17,199	60,696,912	4,374	89,405,897	12,082	4,688,975	2	12,370	35,476	189,177,487
Perak	4,064	51,557,330	4,925	10,712,378	103,304	346,245,070	19,776	178,191,750	81,431	29,357,422	484	650,516	213,984	616,714,466
Selangor	4,819	66,892,929	2,074	15,409,820	36,837	126,527,131	19,781	127,207,250	50,328	15,286,185	3,824	6,662,097	117,663	357,985,412
Negeri-Sembilan	108	1,652,466	27	138,212	191	647,851	50	1,372,813	0	0	0	0	376	3,811,342
Melaka	501	7,852,349	11	95,037	1,173	3,666,351	187	4,619,815	0	0	23	67,247	1,895	16,300,799
Johor Barat	1,712	22,766,627	294	967,913	4,988	18,727,737	3,507	38,763,182	4,145	1,539,902	0	0	14,646	82,765,361
Jumlah Kecil/Sub.Total	18,243	249,105,628	8,416	31,771,608	265,386	873,825,416	56,499	548,431,797	197,515	65,550,106	5,123	8,603,369	551,182	1,777,287,924
Pantai Timur/East Coast														
Kelantan	532	4,476,369	415	2,560,550	34,922	95,656,701	398	4,907,378	5,275	967,004	4	6,265	41,546	108,574,267
Terengganu	3,385	41,746,157	3,640	29,709,436	121,435	420,975,251	1,088	17,978,365	14,145	3,660,416	1	1,239	143,694	514,070,864
Pahang	2,452	24,791,459	1,295	7,958,565	51,459	166,893,119	1,977	20,970,628	51,777	9,621,066	1	2,276	108,961	230,237,113
Johor Timur	1,590	14,472,381	1,321	8,722,484	26,130	76,954,267	2,673	24,707,763	24,836	6,220,459	0	0	56,550	131,077,354
Jumlah Kecil/Sub.Total	7,959	85,486,366	6,671	48,951,035	233,946	760,479,338	6,136	68,564,134	96,033	20,468,945	6	9,780	350,751	983,959,598
Sem. Malaysia/ Jumlah/Total	26,202	334,591,994	15,087	80,722,643	499,332	1,634,304,754	62,635	616,995,931	293,548	86,019,051	5,129	8,613,149	901,933	2,761,247,522
Sarawak	5,335	37,758,053	3,838	20,200,835	63,281	162,094,496	12,528	116,520,163	18,228	2,029,928	3	8,971	103,213	338,612,446
Sabah	19,804	184,182,010	13,533	58,602,840	134,105	310,838,200	9,154	98,387,410	18,759	4,678,750	872	3,389,780	196,227	660,078,990
W.Persekutuan Labuan/ Labuan F.Territory	381	2,082,267	766	4,722,928	10,756	41,481,850	783	8,892,169	1,167	105,035	0	0	13,833	57,284,249
Jumlah Kecil/Sub.Total	25,500	224,022,330	18,137	83,526,603	208,142	514,414,546	22,465	223,799,742	38,154	6,813,713	875	3,398,751	313,273	1,055,975,685
Jumlah Besar/ Grand Total	51,702	558,614,324	33,224	164,249,246	707,474	2,148,719,300	85,100	840,795,673	331,702	92,832,764	6,004	12,011,900	1,215,206	3,817,223,207

NOTA/NOTE

- Gred 1** - Termasuk Bawal Tambak, Bawal Putih, Bawal hitam, Bawal Selatan, Senangin/Kurau/Senohong, Tenggiri, Parang, Kerapu, dan Jenahak.
(Gred 1) - Includes Chinese Pomfret, Silver Pomfret, Black pomfret, Small Pomfret, Threadfin, Spanish Mackerel, Wolf Herring, Grouper and Mangrove Snapper
(Gred 11) - Termasuk Terubuk, Puput/Beliak Mata/Tirok, Merah, Kaci, Cermin/Sagai/Cupak, Demuduk/Rambai dan Siakap.
(Grade 11) - Includes Longtail Shad, Shads/Slender Shads, Red Snapper, Sweetlip, Horse Mackerel and Giant Sea Perch.
(Gred 111) - Lain-Lain Ikan Termasuk Ikan Bilis, Sotong, Ketam dan Ubor-ubor.
(Gred 111) - Other Species Including Anchovy, Squids, Crabs and Jellyfish.

MALAYSIA
NILAI HARGA RUNCIT PENDARATAN IKAN LAUT, 1998
RETAIL VALUE OF MARINE FISH LANDING, 1998

JADUAL (TABLE) 7.2

Negeri/State	Gred 1 Grade1		Gred 11 Grade11		Gred 111 Grade111		Udang Prawn		Ikan Baja Manure Fish		Kerang-Kerangan Shellfish		Jumlah Total	
	Tan.metrik M. Tonnes	RM	Tan.Metrik M. Tonnes	RM	Tan.Metrik M. Tonnes	RM	Tan.metrik M. Tonnes	RM	Tan.metrik M. Tonnes	RM	Tan.metrik M. Tonnes	RM	Tan.metrik M. Tonnes	RM
Pantai Barat/West Coast														
Perlis	1,999	25,073,209	93	461,155	50,439	179,965,600	2,427	28,492,290	18,823	6,589,100	0	0	73,781	240,581,354
Kedah	3,580	55,091,230	633	2,791,971	51,255	278,628,501	6,397	89,078,179	30,706	11,809,801	790	1,624,707	93,361	439,024,389
Pulau-Pinang	1,460	35,034,220	359	2,394,530	17,199	74,757,586	4,374	96,730,674	12,082	4,688,975	2	14,245	35,476	213,620,230
Perak	4,064	65,677,419	4,925	14,096,892	103,304	458,070,285	19,776	234,932,210	81,431	37,613,151	484	1,222,101	213,984	811,612,058
Selangor	4,819	74,662,788	2,074	18,168,240	36,837	169,050,002	19,781	149,703,956	50,328	17,653,991	3,824	9,746,087	117,663	438,985,064
Negeri-Sembilan	108	1,894,263	27	164,548	191	912,506	50	1,561,650	0	0	0	0	376	4,532,967
Melaka	501	8,606,579	11	114,678	1,173	4,210,216	187	5,044,889	0	0	23	78,543	1,895	18,054,905
Johor Barat	1,712	26,867,534	294	1,172,936	4,988	24,142,370	3,507	46,302,522	4,145	1,539,902	0	0	14,646	100,025,264
Jumlah Kecil/Sub.Total	18,243	292,907,242	8,416	39,364,950	265,386	1,189,737,066	56,499	651,846,370	197,515	79,894,920	5,123	12,685,683	551,182	2,266,436,231
Pantai Timur/East Coast														
Kelantan	532	4,873,326	415	3,033,650	34,922	114,096,404	398	5,250,527	5,275	967,004	4	7,341	41,546	128,228,252
Terengganu	3,385	49,312,907	3,640	36,334,096	121,435	575,195,375	1,088	20,655,936	14,145	4,159,899	1	1,735	143,694	685,659,948
Pahang	2,452	30,983,090	1,295	10,719,142	51,459	245,046,258	1,977	23,498,612	51,777	9,621,068	1	2,655	108,961	319,870,825
Johor Timur	1,590	18,421,364	1,321	11,308,927	26,130	112,109,394	2,673	30,500,738	24,836	6,220,459	0	0	56,550	178,560,882
Jumlah Kecil/Sub.Total	7,959	103,590,687	6,671	61,395,815	233,946	1,046,447,431	6,136	79,905,813	96,033	20,968,430	6	11,731	350,751	1,312,319,907
Sem. Malaysia/ Jumlah/Total	26,202	396,497,929	15,087	100,760,765	499,332	2,236,184,497	62,635	731,752,183	293,548	100,863,350	5,129	12,697,414	901,933	3,578,756,138
Sarawak	5,335	60,212,252	3,838	35,813,734	63,281	246,803,544	12,528	120,088,689	18,228	2,222,179	3	9,600	103,213	465,149,998
Sabah	19,804	244,301,969	13,533	76,506,894	134,105	446,869,174	9,154	113,756,385	18,759	6,227,838	872	4,069,201	196,227	891,731,461
W.Persekutuan Labuan/ Labuan F.Territory	361	5,298,637	766	12,793,209	10,756	100,663,328	783	15,451,672	1,167	140,048	0	0	13,833	134,346,894
Jumlah Kecil/Sub.Total	25,500	309,812,858	18,137	125,113,837	208,142	794,336,046	22,465	249,296,746	38,154	8,590,065	875	4,078,801	313,273	1,491,228,353
Jumlah Besar/ Grand Total	51,702	706,310,787	33,224	225,874,602	707,474	3,030,520,543	85,100	981,048,929	331,702	109,453,415	6,004	16,776,215	1,215,206	5,069,984,491

NOTA/NOTE

- Gred 1** - Termasuk Bawal Tambak, Bawal Putih, Bawal hitam, Bawal Selatan, Senangin/Kurau/Senohong, Tenggiri, Parang, Kerapu, dan Jenahak.
- (Gred 1) - Includes Chinese Pomfret, Silver Pomfret, Black pomfret, Small Pomfret, Threadfin, Spanish Mackerel, Wolf Herring, Grouper and Mangrove Snapper
- (Gred 11)** - Termasuk Terubuk, Puput/Beliak Mata/Tirok, Merah, Kaci, Cermin/Sagai/Cupak, Demuduk/Rambai dan Siakap.
- (Grade 11) - Includes Longtail Shad, Shads/Slender Shads, Red Snapper, Sweetlip, Horse Mackerel and Giant Sea Perch.
- (Gred 111)** - Lain-Lain Ikan Termasuk Ikan Bilis, Sotong, Ketam dan Ubor-ubor.
- (Gred 111) - Other Species Including Anchovy, Squids, Crabs and Jellyfish.

SEMENANJUNG MALAYSIA /PENINSULAR MALAYSIA
NILAI PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN GRED IKAN, 1998
VALUE OF MARINE FISH LANDINGS BY GEAR GROUP AND GRADE OF FISH, 1998

Pendaratan dan Nilai Landings and Values		Pukat Tunda/ Trawl Nets	Pukat Tarik / Purse Seine		Lain Pukat Tarik/ Other Seines	Pukat Hanyut Drift/ Gill Nets	Pukat Tangguk/ Lift Nets	Perangkap / Traps		Pancing / Hooks and Lines	Pukat Bakul/ Bag Nets	Pukat Rentang/ Barrier Nets	Pukat Surung Push/ Scoop Nets	Memungut Siput/ Shellfish Collection	Rampaihan Miscell- aneous	Jumlah Total
			Pukat Jerut Ikan/ Purse- Seine Fish	Pukat Jerut Bilis/ Purse- Seine Anchovy				Belat-Belat/ Stationary	Bubu/ Portable							
Gred 1 (Gred 1)	<i>Tonnes</i>	14,009	1,027	2	27	7,166	19	45	833	3,029	8	7	30	0	0	26,202
	N.B.RM	177,063,236	12,980,527	25,538	341,260	90,572,988	240,146	568,767	10,528,509	38,284,340	101,114	88,474	3,797,095	0	0	334,591,994
	N.R.RM	211,989,148	15,540,927	30,264	408,573	108,438,445	287,514	680,955	12,605,250	45,835,899	121,058	105,926	453,970	0	0	396,497,929
Gred 11 (Gred 11)	<i>Tonnes</i>	5,642	667	4	16	4,865	3	3	484	3,077	1	10	315	0	0	15,087
	N.B.RM	30,187,595	3,568,753	21,401	85,606	26,029,974	16,050	16,050	2,589,620	16,463,356	5,349	53,496	1,685,393	0	0	80,722,643
	N.R.RM	37,653,523	4,451,410	26,694	180,192	32,467,934	20,024	20,012	3,230,109	20,535,218	6,674	66,736	2,102,239	0	0	100,760,765
Gred 111 (Gred 111)	<i>Tonnes</i>	213,044	156,166	19,243	572	63,937	9,438	231	8,438	24,245	1,774	902	339	0	1,003	499,332
	N.B.RM	697,289,279	511,128,514	62,981,993	1,872,146	209,264,652	30,890,404	756,058	27,617,422	79,353,448	5,806,269	2,952,229	1,109,540	0	3,282,800	1,634,304,754
	N.R.RM	954,086,100	699,366,303	86,176,926	2,561,617	286,332,385	42,266,685	1,034,499	37,788,333	108,577,642	7,944,596	4,039,473	1,518,151	0	4,491,787	2,236,184,497
Udang (Prawn)	<i>Tonnes</i>	29,575	177	0	7,468	8,415	0	453	3	0	12,639	150	3,705	0	50	62,635
	N.B.RM	291,333,200	1,743,566	0	73,564,710	82,893,282	0	4,462,347	29,552	0	124,502,459	1,477,598	36,496,685	0	492,532	616,995,931
	N.R.RM	345,518,816	2,067,855	0	87,247,150	98,310,762	0	5,292,308	35,048	0	147,658,910	1,752,420	43,284,774	0	584,140	731,752,183
Ikan Baja (Manure Fish)	<i>Tonnes</i>	273,045	6,632	99	5,816	2,014	0	3	11	12	3,081	641	2,194	0	0	293,548
	N.B.RM	80,011,012	1,943,390	29,010	1,704,275	590,167	0	879	3,223	3,516	902,832	187,834	642,913	0	0	86,019,051
	N.R.RM	93,818,505	2,278,761	34,016	1,998,382	692,012	0	1,030	3,779	4,123	1,058,634	220,248	753,860	0	0	100,863,350
Kerang Kerangan (Shellfish)	<i>Tonnes</i>	7	0	0	0	0	0	0	0	0	0	0	0	5,121	1	5,129
	N.B.RM	11,740	0	0	0	0	0	0	0	0	0	0	0	8,599,732	1,677	8,613,149
	N.R.RM	17,329	0	0	0	0	0	0	0	0	0	0	0	12,677,610	2,475	12,697,414
Jumlah Total	<i>Tonnes</i>	535,322	164,669	19,348	13,899	86,397	9,460	735	9,769	30,363	17,503	1,710	6,583	5,121	1,054	901,933
	N.B.RM	1,275,896,062	531,364,750	63,057,942	77,567,997	409,351,063	31,146,600	5,804,101	40,768,326	134,104,660	131,318,023	4,759,631	43,731,626	8,599,732	3,777,009	2,761,247,522
	N.R.RM	1,643,083,421	723,705,256	86,267,900	92,395,914	526,241,538	42,574,223	7,028,804	53,662,519	174,952,882	156,789,872	6,184,803	48,112,994	12,677,610	5,078,402	3,578,756,138

Nota/Note:

Gred 1 - Termasuk Bawal Tambak, Bawal Putih, Bawal Hitam, Bawal Selatan, Senangin/ Kurau/ Senohong, Tenggiri, Parang, Kerapu dan Jenahak.

(Gred 1 - Includes Chinese Pomfret, Silver Pomfret, Black Pomfret, Small Pomfret, Threadfin, Spanish Mackerel, Wolf Herring, Grouper and Mangrove Snapper.

Gred 11 - Termasuk Terubuk, Puput/ Beliak Mata/Tiok, Merah, Kaci, Cermin/Sagai/ Cupak, Demuduk/ Rambai dan Siapak.

(Gred 11) - Includes Longtail Shad, Shads/Slender Shads, Red Snapper, Sweetlip, Horse Mackerel, and Giant Sea Perch.

Gred 111 - Lain - Lain Ikan Termasuk Ikan Bilis, Sotong, Ketam dan Ubor-Ubor.

(Gred 111) - Other Species Including Anchovy, Squid, Crabs and Jellyfish

N.B.RM - Nilai Borong Dalam Ringgit/Wholesale Value In Ringgit

N.R.RM - Nilai Runcit Dalam Ringgit/Retail Value In Ringgit

JADUAL (TABLE) 8.1

MALAYSIA
SIRI TAHUNAN PENDARATAN IKAN LAUT DAN NILAI TAHUN, 1994 -1998
ANNUAL SERIES OF MARINE FISH LANDING AND VALUES, 1994 -1998

NEGERI/STATE	1994		1995		1996		1997		1998	
	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value RM	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value RM	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value RM	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value RM	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value RM
Pantai Barat (West Coast)										
Perlis	36,691	100,676,227	44,468	121,003,635	44,763	117,592,180	54,273	157,140,411	73,781	155,045,472
Kedah	72,633	157,914,439	86,781	180,350,948	76,269	240,641,450	87,863	341,785,473	93,361	355,487,585
Pulau Pinang	40,998	132,105,802	46,177	152,599,130	37,612	154,910,298	37,532	158,833,466	35,476	189,177,487
Perak	196,145	474,403,000	215,537	543,739,309	225,079	843,024,682	201,212	668,933,588	213,984	616,714,466
Selangor	92,873	196,980,803	111,105	251,950,872	110,368	313,374,407	118,408	321,944,429	117,663	357,985,412
Negeri Sembilan	561	4,840,936	512	3,988,937	385	3,376,660	377	3,678,568	376	3,811,342
Melaka	1,677	11,409,862	1,933	12,373,973	1,928	14,878,785	1,750	14,954,187	1,895	16,300,799
Johor Barat/West Johore	18,724	86,193,683	22,305	104,378,013	23,091	110,157,089	14,014	82,828,973	14,646	82,765,361
Jumlah Kecil/Sub Total:	460,302	1,164,524,752	528,818	1,370,384,817	519,495	1,797,955,551	515,429	1,750,099,095	551,182	1,777,287,924
Pantai Timur (East Coast)										
Kelantan	33,086	59,827,474	25,446	51,131,023	32,729	64,337,510	34,136	77,936,565	41,546	108,574,267
Terengganu	109,509	320,540,997	80,566	233,933,168	92,167	281,965,564	139,581	471,382,230	143,694	514,070,864
Pahang	111,538	196,904,975	126,002	191,478,104	104,859	184,083,672	91,175	171,984,744	108,961	230,237,113
Johor Timur/East Johore	70,644	114,570,301	58,632	100,973,908	58,407	111,789,022	57,253	124,592,372	56,550	131,077,354
Jumlah Kecil/Sub Total:	324,777	691,843,747	290,646	577,516,203	288,162	642,175,768	322,145	845,895,911	350,751	983,959,598
Sarawak	95,624	276,951,710	99,255	242,772,805	100,744	300,078,640	128,193	408,050,416	103,213	338,612,446
Sabah	160,328	398,959,010	166,462	460,991,640	180,143	503,880,156	174,265	569,163,500	196,227	660,078,990
W.P. Labuan	24,554	52,015,557	23,255	59,240,200	38,145	78,067,262	28,941	102,022,244	13,833	57,284,249
Jumlah Kecil/Sub Total:	280,506	727,926,277	288,972	763,004,645	319,032	882,026,058	331,399	1,079,236,160	313,273	1,055,975,685
Jumlah Besar/Grand-Total:	1,065,585	2,584,294,776	1,108,436	2,710,905,665	1,126,689	3,322,157,377	1,168,973	3,675,231,166	1,215,206	3,817,223,207

MALAYSIA
KUANTITI DAN PERATUS PENDARATAN SERTA NILAI IKAN LAUT MENGIKUT NEGERI, 1998
QUANTITY AND PERCENTAGE OF LANDINGS AND VALUE OF MARINE FISH BY STATE, 1998

Negeri/ State	Kuantiti Pendaratan Dalam Tan Metrik Quantity Of Landings (Tonnes)	Peratus Percentage %	Nilai Dalam Ringgit Value In Ringgit	Peratus Percentage %
Pantai Barat (West Coast)				
Perlis	73,781	6.07	155,045,472	4.06
Kedah	93,361	7.68	355,487,585	9.31
Pulau Pinang	35,476	2.92	189,177,487	4.96
Perak	213,984	17.61	616,714,466	16.16
Selangor	117,663	9.68	357,985,412	9.38
Negeri Sembilan	376	0.03	3,811,342	0.1
Melaka	1,895	0.16	16,300,799	0.43
Johor Barat/West Johore	14,646	1.21	82,765,361	2.17
Pantai Timur (East Coast)				
Kelantan	41,546	3.42	108,574,267	2.84
Terengganu	143,694	11.82	514,070,864	13.47
Pahang	108,961	8.97	230,237,113	6.03
Johor Timur/East Johore	56,550	4.65	131,077,354	3.43
Sarawak	103,213	8.49	338,612,446	8.87
Sabah	196,227	16.15	660,078,990	17.29
W.P. Labuan	13,833	1.14	57,284,249	1.5
Jumlah/Total	1,215,206	100	3,817,223,207	100

SEMANANJUNG MALAYSIA / PENINSULAR MALAYSIA
PENGUNAAN PENDARATAN IKAN LAUT, 1998
DISPOSITION OF MARINE FISH LANDINGS, 1998

JADUAL (TABLE) 10.1

Aliran Penggunaan <i>Disposition Channel</i>	Pantai Barat / West Coast								Jumlah Kecil <i>Sub-Total</i>	Pantai Timur / East Coast				Jumlah Kecil <i>Sub-Total</i>	Jumlah Besar <i>Grand-Total</i>
	Perlis	Kedah	P.Pinang	Perak	Selangor	Negeri Sembilan	Melaka	Johor Barat <i>West Johor</i>		Kelantan	Terengganu	Pahang	Johor Timur <i>East Johor</i>		
Digunakan secara hidup <i>Disposed alive</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Digunakan secara basah <i>Disposed fresh</i>	73,307	53,783	32,977	115,838	47,849	376	1,608	13,709	339,447	40,467	129,499	99,412	31,671	301,049	640,496
Digunakan untuk dibeku <i>Disposed for freezing</i>	0	0	0	2,420	0	0	0	0	2,420	0	0	0	0	0	2,420
Digunakan untuk mengetin <i>Disposed for canning</i>	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na
Digunakan untuk diawetkan: <i>Disposed for curing:</i>															
Kering/Masin/Diasap <i>Dried/Salted/Smoked</i>	31	18,888	958	3,104	5,702	0	103	325	29,111	610	2,921	574	0	4,105	33,216
Rebus <i>Steamed/Boiled</i>	0	0	0	2,070	0	0	0	0	2,070	0	0	0	0	0	2,070
Diragikan <i>Fermented</i>	61	2,803	113	11,712	13,363	0	184	602	28,838	223	431	1,200	842	2,696	31,534
Lain-Lain <i>Others</i>	0	115	338	396	0	0	0	10	859	246	10,843	960	295	12,344	13,203
Digunakan untuk mengubahkan <i>Disposed for reduction</i>	0	17,732	1,090	58,833	50,719	0	0	0	128,374	0	0	21	23,742	23,763	152,137
Digunakan untuk lain-lain <i>Disposed for others</i>	382	40	0	19,611	30	0	0	0	4,077	0	0	6,794	0	6,794	10,871
Jumlah (Tan Metrik) <i>Total (Tonnes)</i>	73,781	93,361	35,476	213,984	117,663	376	1,895	14,646	551,182	41,546	143,694	108,961	56,550	350,751	901,933

Nota: Na: Tiada maklumat
Not available

SEMANANGJUNG MALAYSIA / PENINSULAR MALAYSIA

HASIL LAUT YANG DIAWETKAN, 1998

PROCESSED MARINE FISH PRODUCTS, 1998

(Timbangan dalam Tan Metrik / Weight in Tonnes)

JADUAL (TABLE) 10.2

FINAL

Negeri State	Ikan Masin/ Ikan Kering Salted/Dried Fish	Bilis Kering Dried Anchovies	Udang Kering Dried Prawn	Sotong Kering Dried Cuttle Fish	Ubur- Ubur (Dried Jelly Fish)	Lala Kering Dried Shellfish	Ikan Salai Smoked Fish	Ikan Baja Marine Fish	Tepung Ikan Fish Meal	Otak Udang Prawn/cuttl Paste	Belacan Shrimp Paste	Cincaluk Pickled Prawn	Budu Fermented Anchovies	Bebola Ikan Fish Ball	Bebola Sotong Cuttle- Fish Ball	Kek Ikan Fish Cake	Otak- Otak Fish Paste	Surimi Surimi	Keropok Crackers		Satay Ikan Satay Fish	Sotong Beku Frozen Cuttle- Fish	Udang/bup Beku Frozen Prawn	Ikan Rebus Fish Boiled	JUMLAH Total
																			Ikan Fish	Udang/Sotong Prawn/Cuttle Fish					
Pantai Barat West Coast																									
Perlis	17.70	-	-	-	-	-	-	254.00	-	-	5.85	-	-	4.25	-	-	-	4.25	0.10	-	-	-	-	-	286.15
Kedah	178.50	4,646.00	1.65	-	-	-	-	34.50	4,950.00	11.40	111.26	-	-	572.60	-	-	-	970.00	168.50	11.10	-	-	-	-	11,655.51
Pulau Pinang	244.30	-	137.83	-	6.50	-	-	38.25	68.40	-	34.90	-	-	-	-	-	-	-	-	-	-	-	-	-	530.18
Perak	906.62	303.52	63.92	-	-	-	-	20,639.48	15,479.62	-	290.48	-	-	4,604.21	-	-	-	-	-	-	71.81	2,121.00	653.04	493.64	45,659.34
Selangor	1,499.62	-	60.82	10.29	63.31	114.12	-	20.13	12,575.38	-	2,565.72	-	-	1,207.50	-	-	-	-	-	-	-	-	-	-	18,116.89
N. Sembilan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Melaka	62.00	-	-	-	-	-	-	-	-	-	25.50	25.00	-	-	-	-	-	-	-	-	-	-	-	-	112.50
Johor Barat/ West Johor	20.87	-	0.12	-	70.39	-	-	-	-	30.00	132.78	-	-	166.13	30.75	158.38	20.58	0.00	19.50	3.60	-	-	13.05	-	666.15
Jum.Kecil Sub-Total	2,931.61	4,949.52	294.34	10.29	140.20	114.12	0.00	20,986.36	33,073.40	41.40	3,166.49	25.00	0.00	6,554.69	30.75	158.38	20.58	974.25	188.10	14.70	71.81	2,121.00	666.09	493.64	77,026.72
Pantai Timur East Coast																									
Kelantan	246.00	15.00	-	-	-	-	-	-	-	-	-	-	96.00	-	-	-	-	-	172.00	-	-	-	-	-	531.00
Trengganu	1,393.66	115.00	-	93.79	-	-	1.50	-	-	-	5.90	-	15.20	254.25	-	89.55	-	-	11,227.00	-	-	-	-	-	13,195.85
Pahang	85.92	145.50	-	-	-	-	-	3,110.62	-	-	-	-	-	-	172.60	136.81	-	24.89	975.03	-	-	-	-	-	4,651.37
Johor Timur East Johor	-	-	-	-	-	-	-	-	6,695.25	-	356.80	-	-	-	-	-	-	-	239.30	-	-	-	-	-	7,291.35
Jum.Kecil Sub-Total	1,725.58	275.50	0.00	93.79	0.00	0.00	1.50	3,110.62	6,695.25	0.00	362.70	0.00	113.20	254.25	172.60	226.36	0.00	24.89	12,613.33	0.00	0.00	0.00	0.00	0.00	25,669.57
Jumlah Besar Grand-Total	4,657.19	5,225.02	294.34	104.08	140.20	114.12	1.50	24,096.98	39,768.65	41.40	3,529.19	25.00	113.20	6,808.94	203.35	384.74	20.58	999.14	12,801.43	14.70	71.81	2,121.00	666.09	493.64	102,696.29

Nota : Tiada hasil awet bagi ikan beku.

Note : (No production of processed marine fish products or frozen fish)

MALAYSIA
KILANG-KILANG AIR BATU DAN KEMUDAHAN-KEMUDAHAN PENYEJUKKAN SEHINGGA 31-12-1998
ICE FACTORIES AND REFRIGERATION FACILITIES AS AT 31-12-1998
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 11.1

Negeri/State	Bilangan Kilang Airbatu (No. of ice factories)	Daya Pengeluaran Harian (Daily Production Capacity)					Kemudahan Menyimpan (Storage Capacity)		
		Kuantiti (Tan Metrik) Quantity (Tonnes)	Purata Harga Seblok (RM) Average Price/Block (RM)				Bilangan Bilik Sejuk (No. of cold rooms)	Kuantiti/Quantity (Tan Metrik/Tonnes)	
			0 - 50kg	51 - 100kg	101 - 150kg	151 - 200kg		Ais (Ice)	Ikan (Fish)
Perlis	1	70	-	5.50	8.30	-	13	135	414
Kedah	2	120	-	7.00	8.30	-	40	455	389
P.Pinang	5	693	-	-	9.00	-	118	1,114	11,623
Perak	7	275	-	7.19	10.10	-	16	321	560
Selangor	5	402	8.00	-	6.00 - 9.00	-	62	572	485
Melaka	2	60	-	-	12.00	-	45	58	430
Negeri Sembilan	0	-	-	-	-	-	-	-	-
Johor Barat/West Johor	5	258	3.00 - 9.00	6.00 - 10.00	-	-	8	195	466
Johor Timur/East Johor	2	120	2.80 - 3.60	7.00 - 9.60	-	-	15	333	5
Kelantan	10	491	3.00	-	6.00 - 9.70	-	19	532	114
Terengganu	6	456	-	6.00	7.00	10.00	41	742	692
Pahang	6	598	-	-	8.00	8.50	41	495	125
Sarawak	45	500	7.00	3.60 - 9.00	10.00	-	121	1,804	6,519
Sabah	58	599	3.90	5.50	11.00	12.00	146	1,488	3,697
W. P. Labuan/Labuan Fed. Territory	4	204	5.00	5.00	16.00	-	3	148	280
JUMLAH/TOTAL	158	4,846					688	8,392	25,799

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
HASIL PERIKANAN, 1998
FISHERIES REVENUE, 1998
(HASIL DALAM RM /REVENUE IN RM)

JADUAL (TABLE) 12.1

Jenis Hasil <i>Type Of Revenue</i>	Hasil Perikanan <i>State Revenue</i>					Hasil Persekutuan <i>Federal Revenue</i>				Jumlah Besar
Negeri <i>State</i>	Perahu <i>Boat</i>	Perikanan <i>Fishing</i>	Patil Perahu <i>Boat No. Plate</i>	Sistem Kultur Laut <i>Marine Culture System</i>	Jumlah <i>Total</i>	Ikan <i>Fish</i>	Kompaun/ Denda <i>Compound/ Fine</i>	Jualan Pelbagai <i>Miscellaneous</i>	Jumlah <i>Total</i>	<i>Grand Total</i>
Perlis	25,895.50	178,703.00	3,235.00	0.00	207,833.50	0.00	0.00	921.00	921.00	208,754.50
Kedah	59,286.50	272,190.50	8,555.00	0.00	340,032.00	30,621.00	464,371.00	23,786.40	518,778.40	858,810.40
Pulau Pinang	24,700.00	33,806.00	6,980.00	10,165.00	75,651.00	0.00	124,476.00	4,252.60	128,728.60	204,379.60
Perak	178,820.50	427,514.00	21,505.00	19,595.00	647,434.50	35,822.00	135,610.00	94,938.00	266,370.00	913,804.50
Selangor	53,737.00	50,171.00	10,130.00	6,620.00	120,658.00	7,060.00	43,300.00	6,611.00	56,971.00	177,629.00
N.Sembilan	1,023.00	643.00	934.00	0.00	2,600.00	0.00	0.00	241.20	241.20	2,841.20
Melaka	2,149.50	1,899.00	3,385.00	0.00	7,433.50	0.00	3,000.00	2,447.50	5,447.50	12,881.00
Kelantan	19,730.50	435,672.00	4,711.00	815.00	460,928.50	0.00	17,500.00	11,353.00	28,853.00	489,781.50
Terengganu	45,981.50	302,579.00	11,160.00	380.00	360,100.50	2,720.00	23,475.00	38,018.50	64,213.50	424,314.00
Pahang	62,770.00	330,280.00	5,526.00	0.00	398,576.00	0.00	27,950.00	37,467.30	65,417.30	463,993.30
Johor	78,602.50	183,370.00	22,830.00	8,635.00	293,437.50	8,048.00	98,950.00	6,293.90	113,291.90	406,729.40
Jumlah Besar <i>Grand Total</i>	552,696.50	2,216,827.50	98,951.00	46,210.00	2,914,685.00	84,271.00	938,632.00	226,330.40	1,249,233.40	4,163,918.40

AKUAKULTUR/TERNAKAIR

AQUACULTURE

MALAYSIA

JADUAL (TABLE) 13.1

ANGGARAN BILANGAN DAN LUAS KOLAM, BEKAS LOMBONG, SANGKAR TANGKI SIMEN, KANDANG, KERANG, SIPUT SUDU DAN TIRAM YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT SISTEM TERNAKAN DAN NEGERI, 1998

ESTIMATED NUMBER AND AREA OF PONDS, DISUSED MINING POOLS, CAGES, CEMENT TANKS, PEN CULTURE, COCKLES, MUSSELS AND OYSTERS
AND NUMBER OF CULTURISTS BY CULTURE SYSTEM AND STATE, 1998

Negeri State	Airtawar/Freshwater														Airpayau/Brackishwater														Jumlah Besar Penternak Grand Total Culturist				
	Kolam Ponds			Bekas Lombong Ex-Mining Pools			Sangkar Cages			Yangki Simen Cement Tank			Kandang Ikan Pen Culture			Kolam Ponds			Sangkar Cages			Kerang Cockles			Siput Sudu Mussels			Tiram Oysters					
	Bil. No.	Luas (Ha) Area (Ha)	Bil. Penternak No. Of Culturists	Bil. No.	Luas (Ha) Area (Ha)	Bil. Penternak No. Of Culturists	Bil. No.	Luas (M2) Area (M2)	Bil. Penternak No. Of Culturists	Bil. No.	Luas (M2) Area (M2)	Bil. Penternak No. Of Culturists	Bil. No.	Luas (Ha) Area (Ha)	Bil. Penternak No. Of Culturists	Bil. No.	Luas (Ha) Area (Ha)	Bil. Penternak No. Of Culturists	Bil. No.	Luas (Ha) Area (Ha)	Bil. Penternak No. Of Culturists	Bil. No.	Luas (M2) Area (M2)	Bil. Penternak No. Of Culturists	Bil. No.	Luas (M2) Area (M2)	Bil. Penternak No. Of Culturists	Bil. No.		Luas (M2) Area (M2)	Bil. Penternak No. Of Culturists		
Pertis	147	28.85	100	0	0.00	0	36	625.00	6	0	0.00	0	0	0.00	0	52	35.73	8	100	250.00	2	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	116
Kedah	1,391	180.75	564	0	0.00	0	9	222.33	1	5	245.62	3	14	1.40	14	885	676.10	144	2,916	31,693.22	110	2	39.29	2	5	761.07	3	22	1,460.10	2		843	
Pulau Pinang	127	17.92	60	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	325	192.31	139	23,300	209,633.00	319	63	768.00	51	0	0.00	0	20	153.00	2		571	
Perak	2,246	627.19	1,300	233	889.72	146	724	11,045.15	61	53	10,000.00	11	206	31.51	72	1,138	708.82	148	20,185	159,129.00	207	206	2,377.86	203	0	0.00	0	0	0.00	0		2148	
Selangor	1,806	458.66	625	106	194.18	53	737	13,223.46	12	97	18,329.34	22	0	0.00	0	715	370.69	134	6,479	111,523.54	31	26	1,036.07	26	5	561.00	4	0	0.00	0		907	
Negeri Sembilan	1,633	301.52	1,050	9	14.75	9	912	13,506.63	7	165	6,731.64	32	0	0.00	0	68	59.00	4	0	0.00	0	0	0.00	0	25	4,339.00	25	0	0.00	0		1127	
Melaka	509	102.16	299	0	0.00	0	11	99.00	1	28	1,376.87	15	0	0.00	0	76	44.23	20	184	3,132.57	3	0	0.00	0	48	6,317.14	37	0	0.00	0		375	
Johor	1,489	199.26	431	0	0.00	0	166	1,725.45	5	220	5,091.37	60	0	0.00	0	692	669.44	95	5,375	122,896.68	169	3	50.79	3	332	51,593.57	77	7	7,000.00	10		850	
Pahang	2,732	985.95	2,832	3	64.00	60	2,762	39,642.16	592	51	686.78	25	0	0.00	0	189	134.51	18	29	263.00	8	0	0.00	0	0	0.00	0	0	0.00	0		3535	
Terengganu	1,300	111.94	706	0	0.00	0	1,381	24,610.44	170	188	3,223.86	75	60	3.60	60	219	109.87	49	781	7,764.04	63	0	0.00	0	0	0.00	0	19	16,887.00	27		1150	
Kelantan	2,006	202.27	1,077	0	0.00	0	191	4,366.08	49	100	3,809.92	52	655	185.63	655	157	75.37	131	1,056	21,812.00	131	0	0.00	0	0	0.00	0	33	1,391.46	12		2107	
Sarawak	1,708	156.80	1,235	0	0.00	0	895	21,480.00	372	25	624.00	8	47	1.13	37	403	126.08	162	860	8,061.62	629	0	0.00	0	0	0.00	0	0	0.00	0		2443	
Sabah	14,012	1,385.70	4,920	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	1,463	2,646.33	122	1,202	31,071.00	278	0	0.00	0	109	1,930.00	108	103	50,350.20	100		5528	
Jumlah/Total:	31,106	4,758.97	15,199	351	1,162.65	268	7,824	130,545.70	1,276	932	50,119.40	303	982	223.27	838	6,382	5,848.48	1,174	62,467	707,229.67	1,950	300	4,272.01	285	524	65,501.78	254	204	77,241.76	153		21,700	

MALAYSIA

JADUAL(TABLE) 14.1

ANGGARAN JUMLAH PENGELUARAN IKAN TERNAKAN, KERANG, SIPUT SUDU DAN TIRAM
MENGIKUT NEGERI DAN SISTEM TERNAKAN, 1998
ESTIMATED PRODUCTION OF FISH, COCKLES, MUSSELS, OYSTERS AND CEMENT TANKS
BY STATE AND CULTURE SYSTEM, 1998
(KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri State	Airtawar/Freshwater						Airpayau/Brackishwater						Jumlah Besar Grand Total Tan M. Tonnes
	Kolam Ponds	Bekas Lombong Ex- Mining Pools	Sangkar Cages	Tangki Simen Cement Tank	Kandang Ikan Pen Culture	Sub Total Jumlah Kecil	Kolam Ponds	Sangkar Cages	Kerang Cockle	Siput Sudu Mussels	Tiram Oyster	Sub Total Jumlah Kecil	
Perlis	54.76	0.00	2.80	0.00	0.00	57.56	154.67	25.98	0.00	0.00	0.00	180.65	238.21
Kedah	324.13	0.00	4.25	2.68	3.32	334.38	529.93	63.52	175.05	6.84	5.32	780.66	1,115.04
Pulau Pinang	106.96	0.00	0.00	0.00	0.00	106.96	957.12	1,836.16	13,167.08	0.00	3.24	15,963.60	16,070.56
Perak	2,158.89	3,357.64	61.61	267.23	133.82	5,979.19	2,579.77	1,386.92	54,506.52	0.00	0.00	58,473.21	64,452.40
Selangor	4,481.99	233.72	123.28	413.86	0.00	5,252.85	1,453.74	1,194.03	13,787.63	0.67	0.00	16,436.07	21,688.92
Negeri Sembilan	1,043.88	19.41	264.77	19.84	0.00	1,347.90	122.80	0.00	0.00	43.93	0.00	166.73	1,514.63
Melaka	616.33	0.00	6.80	0	0.00	623.13	83.20	5.69	80.50	190.89	0.00	360.28	983.41
Johor	1,878.68	0.00	7.26	33.89	0.00	1,919.83	1,357.52	1,188.59	0.00	716.90	5.68	3,268.69	5,188.52
Pahang	7,582.14	7.03	716.10	1.20	0.00	8,306.47	825.08	1.48	0.00	0.00	0.00	826.56	9,133.03
Terengganu	179.20	0.00	843.96	23.07	0.00	1,046.23	99.42	36.89	0.00	0.00	39.98	176.29	1,222.52
Kelantan	420.12	0.00	8.99	1.52	159.14	589.77	44.73	30.06	0.00	0.00	0.33	75.12	664.89
Sarawak	768.30	0.00	0.00	0.00	0.00	768.30	675.12	55.80	0.00	0.00	0.00	730.92	1,499.22
Sabah	6,850.00	0.00	0.00	0.00	0.00	6,850.00	2,717.00	198.00	0.00	27.14	83.15	3,025.29	9,875.29
Jumlah/Total	26,465.38	3,617.80	2,039.82	763.29	296.28	33,182.57	11,600.10	6,023.12	81,716.78	986.37	137.70	100,464.07	133,646.64

JADUAL (TABLE) 14.2

MALAYSIA
 ANGGARAN NILAI BORONG IKAN TERNAKAN, KERANG, SIPUT SUDU DAN TIRAM
 MENGIKUT NEGERI DAN SISTEM TERNAKAN, 1998
 ESTIMATED WHOLESALE VALUE OF FISH, COCKLES, MUSSELS AND OYSTERS
 BY STATE AND CULTURE SYSTEM, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Airtawar/Freshwater						Airpayau/Brackishwater						Jumlah Besar Grand Total
	Kolam Ponds	Bekas Lombong Ex- Mining Pools	Sangkar Cages	Kandang Pen Culture	Tangki Simen Cement Tank	Sub Total Jumlah Kecil	Kolam Ponds	Sangkar Cages	Kerang Cockle	Siput Sudu Mussels	Tiram Oyster	Sub Total Jumlah Kecil	
Perlis	182.25	0.00	9.49	0.00	0.00	191.74	3,085.66	311.76	0.00	0.00	0.00	3,397.42	3,589.16
Kedah	1,196.32	0.00	17.72	13.84	9.84	1,237.72	11,918.31	966.51	131.29	7.11	53.20	13,076.42	14,314.14
Pulau Pinang	409.82	0.00	0.00	0.00	0.00	409.82	15,072.61	17,746.27	9,216.96	0.00	46.98	42,082.82	42,492.64
Perak	8,829.70	11,286.28	372.48	508.99	1,019.91	22,017.36	71,989.70	19,084.27	43,605.22	0.00	0.00	134,679.19	156,696.55
Selangor	16,302.44	958.75	600.36	0.00	1,995.76	19,857.31	33,944.94	16,256.07	10,064.97	0.65	0.00	60,266.63	80,123.94
Negeri Sembilan	4,341.69	70.90	1,005.41	0.00	64.33	5,482.33	3,396.40	0.00	0.00	57.11	0.00	3,453.51	8,935.84
Melaka	2,258.16	0.00	21.37	0.00	0.00	2,279.53	2,328.35	60.71	80.50	156.53	0.00	2,626.09	4,905.62
Johor	9,381.98	0.00	34.21	0.00	123.20	9,539.39	31,716.64	17,041.19	0.00	315.44	154.33	49,227.60	58,766.99
Pahang	67,840.24	29.12	4,727.52	0.00	4.84	72,601.72	16,326.82	17.28	0.00	0.00	0.00	16,344.10	88,945.82
Terengganu	834.34	0.00	4,319.84	0.00	95.26	5,249.44	2,077.60	364.29	0.00	0.00	502.95	2,944.84	8,194.28
Kelantan	2,256.47	0.00	44.15	768.99	6.77	3,076.38	988.45	261.08	0.00	0.00	3.71	1,253.24	4,329.62
Sarawak	4359.35	0.00	0.00	0.00	0.00	4,359.35	20,542.52	435.52	0.00	0.00	0.00	20,978.04	25,337.39
Sabah	48,985.00	0.00	0.00	0.00	0.00	48,985.00	95,095.00	11,034.00	0.00	54.28	2,494.50	108,677.78	157,662.78
Jumlah/Total	167,177.76	12,345.05	11,152.55	1,291.82	3,319.91	195,287.09	308,483.00	83,578.95	63,098.94	591.12	3,255.67	459,007.68	654,294.77

JADUAL (TABLE) 14.3

MALAYSIA
 ANGGARAN NILAI RUNCIT IKAN TERNAKAN, KERANG, SIPUT SUDU DAN TIRAM
 MENGIKUT NEGERI DAN SISTEM TERNAKAN, 1998
 ESTIMATED RETAIL VALUE OF FISH, COCKLES, MUSSELS AND OYSTERS
 BY STATE AND CULTURE SYSTEM, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Airtawar/Freshwater						Airpayau/Brackishwater						Jumlah Besar Grand Total
	Kolam Ponds	Bekas Lombong Ex- Mining Pools	Sangkar Cages	Kandang Pen Culture	Tangki Simen Cement Tank	Sub Total Jumlah Kecil	Kolam Ponds	Sangkar Cages	Kerang Cockle	Siput Sudu Mussels	Tiram Oyster	Sub Total Jumlah Kecil	
Perlis	250.33	0.00	12.65	0.00	0.00	262.98	4,011.40	415.68	0.00	0.00	0.00	4,427.08	4,690.06
Kedah	1,740.54	0.00	21.25	16.60	15.30	1,793.69	13,585.53	1,098.73	210.06	10.53	79.80	14,984.65	16,778.34
Pulau Pinang	566.46	0.00	0.00	0.00	0.00	566.46	18,043.65	22,485.97	10,665.33	0.00	46.98	51,241.93	51,808.39
Perak	12,617.59	16,655.32	519.20	740.87	1,465.57	31,998.55	88,084.41	22,907.51	72,493.67	0.00	0.00	183,485.59	215,484.14
Selangor	24,311.71	1,329.65	790.78	0.00	2,634.05	29,066.19	38,250.30	18,443.64	18,613.30	1.01	0.00	75,308.25	104,374.44
Negeri Sembilan	6,639.16	112.94	1,543.09	0.00	113.47	8,408.66	3,801.40	0.00	0.00	65.02	0.00	3,866.42	12,275.08
Melaka	3,285.35	0.00	31.12	0.00	0.00	3,316.47	2,426.80	68.74	95.80	190.89	0.00	2,782.23	6,098.70
Johor	12,706.45	0.00	45.74	0.00	178.00	12,930.19	36,456.79	20,719.71	0.00	516.17	172.79	57,865.46	70,795.65
Pahang	79,926.80	44.99	6,547.32	0.00	6.87	86,525.98	21,401.09	22.75	0.00	0.00	0.00	21,423.84	107,949.82
Terengganu	1111.87	0.00	5,753.53	0.00	135.38	7,000.78	2,077.74	364.29	0.00	0.00	502.94	2,944.97	9,945.75
Kelantan	2,947.58	0.00	57.15	998.97	9.04	4,012.74	1,092.37	313.31	0.00	0.00	4.04	1,409.72	5,422.46
Sarawak	6872.17	0.00	0.00	0.00	0.00	6,872.17	23,677.03	750.20	0.00	0.00	0.00	24,427.23	31,299.40
Sabah	58,498.00	0.00	0.00	0.00	0.00	58,498.00	95,095.00	11,034.00	0.00	54.28	2,494.50	108,677.78	167,175.78
Jumlah/Total	211,474.01	18,142.90	15,321.83	1,756.44	4,557.68	251,252.86	348,003.51	98,624.53	102,078.16	837.90	3,301.05	552,845.15	804,098.01

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KOLAM AIRTAWAR, SANGKAR AIRTAWAR,
 BEKAS LOMBONG, TANGKI SIMEN DAN KANDANG MENGIKUT SPESIS IKAN, 1998
 ESTIMATED FISH PRODUCTION FROM FRESHWATER PONDS, FRESHWATER CAGES,
 EX-MINING POOLS, CEMENT TANKS AND PEN CULTURE BY SPECIES, 1998
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Species Species	Sistem Ternakan Culture System					
	Kolam Airtawar Freshwater Ponds	Bekas Lombong Ex-Mining Pools	Sangkar Airtawar Freshwater Cages	Tangki Simen Cement Tanks	Kandang Pen Culture	Jumlah Total
Lampam Jawa Javanese Carp	1,616.67	146.97	7.05	5.00	31.27	1,806.96
Lee Koh Common Carp	895.57	101.58	0.00	0.00	0.00	997.15
Kap Rumput Grass Carp	658.18	245.62	8.95	0.00	4.66	917.41
Kap Kepala Besar Big Head Carp	98.66	772.29	0.00	0.00	3.26	874.21
Udang Galah Giant Freshwater Prawn	281.17	0.00	0.00	0.00	0.00	281.17
Tilapia Hitam Black Tilapia	4,279.51	89.27	4.75	0.34	0.29	4,374.16
Tilapia Merah Red Tilapia	4,542.66	1,536.23	1,300.51	646.96	188.58	8,214.94
Jelawat River Carp	407.41	23.81	10.88	0.00	4.38	446.48
Keli Freshwater Catfish	5,219.58	155.11	0.00	98.69	0.00	5,473.38
Ketutu Goby	124.59	0.00	0.00	0.00	0.00	124.59
Belut Eel	2,250.00	0.00	0.00	0.00	0.00	2,250.00
Patin River Catfish	607.09	0.56	455.24	1.25	33.42	1,097.56
Toman Giant Snakehead	595.38	0.00	0.00	0.00	0.00	595.38
Baung River Catfish	351.85	0.00	229.48	0.00	6.09	587.42
Pelbagai Others	4,537.06	546.36	22.96	11.05	24.33	5,141.76
Jumlah Total	26,465.38	3,617.80	2,039.82	763.29	296.28	33,182.57

JADUAL (TABLE) 14.5

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI KOLAM AIRTAWAR, SANGKAR AIRTAWAR,
 BEKAS LOMBONG, TANGKI SIMEN DAN KANDANG MENGIKUT SPESIS IKAN, 1998
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM FRESHWATER PONDS, FRESHWATER CAGES,
 EX-MINING POOLS, CEMENT TANKS AND PEN CULTURE BY SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Species Spesies	Sistem Ternakan Culture System					
	Kolam Airtawar Freshwater Ponds	Bekas Lombong Ex-Mining Pools	Sangkar Airtawar Freshwater Cages	Tangki Simen Cement Tanks	Kandang Pen Culture	Jumlah Total
Lampam Jawa Javanese Carp	8,502.00	623.08	30.19	20.90	153.14	9,329.31
Lee Koh Common Carp	5,833.80	424.18	0.00	0.00	0.00	6,257.98
Kap Rumpit Grass Carp	3,120.94	1,104.03	32.45	0.00	21.10	4,278.52
Kap Kepala Besar Big Head Carp	388.44	2,036.90	0.00	0.00	8.57	2,433.91
Udang Galah Giant Freshwater Prawn	6,361.26	0.00	0.00	0.00	0.00	6,361.26
Tilapia Hitam Black Tilapia	29,041.00	297.15	19.94	1.09	0.87	29,360.05
Tilapia Merah Red Tilapia	24,119.32	5,953.94	5,678.13	2,907.03	829.74	39,488.16
Jelawat River Carp	3,008.13	170.90	78.81	0.00	31.56	3,289.40
Keli Freshwater Catfish	16,826.09	539.65	0.00	343.81	0.00	17,709.55
Ketutu Goby	4,207.66	0.00	0.00	0.00	0.00	4,207.66
Belut Eel	37,800.00	0.00	0.00	0.00	0.00	37,800.00
Patin River Catfish	3,047.05	1.80	3,373.01	5.55	145.11	6,572.52
Toman Giant Snakehead	3,335.97	0.00	0.00	0.00	0.00	3,335.97
Baung River Catfish	3,044.71	0.00	1,848.55	0.00	49.48	4,942.74
Pelbagai Others	18,541.39	1,193.42	91.47	41.53	52.25	19,920.06
Jumlah Total	167,177.76	12,345.05	11,152.55	3,319.91	1,291.82	195,287.09

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI KOLAM AIRTAWAR, SANGKAR AIRTAWAR,
 BEKAS LOMBONG TANGKI SIMEN DAN KANDANG MENGIKUT SPESIS IKAN, 1998
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM FRESHWATER PONDS, FRESHWATER CAGES,
 EX-MINING POOLS CEMENT TANKS PEN CULTURE BY SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Spesies Species	Sistem Ternakan Culture System					
	Kolam Airtawar Freshwater Ponds	Bekas Lombong Ex-Mining Pools	Sangkar Airtawar Freshwater Cages	Tangki Simen Cement Tanks	Kandang Pen Culture	Jumlah Total
Lampam Jawa Javanese Carp	11,988.78	862.19	45.25	28.80	204.07	13,129.09
Lee Koh Common Carp	8,079.48	633.51	0.00	0.00	0.00	8,712.99
Kap Rumput Grass Carp	4,362.61	1,551.21	54.52	0.00	29.48	5,997.82
Kap Kepala Besar Big Head Carp	539.01	3,275.41	0.00	0.00	13.82	3,828.24
Udang Galah Giant Freshwater Prawn	8,126.89	0.00	0.00	0.00	0.00	8,126.89
Tilapia Hitam Black Tilapia	33,422.46	434.17	26.51	1.47	1.39	33,886.00
Tilapia Merah Red Tilapia	33,040.22	8,514.37	7,903.04	3,931.02	1,106.84	54,495.49
Jelawat River Carp	4,206.72	237.59	121.79	0.00	43.84	4,609.94
Keli Freshwater Catfish	26,006.43	797.70	0.00	526.25	0.00	27,330.38
Ketutu Goby	4,998.39	0.00	0.00	0.00	0.00	4,998.39
Belut Eel	37,800.00	0.00	0.00	0.00	0.00	37,800.00
Patin River Catfish	4,330.54	2.89	4,464.89	7.71	211.85	9,017.88
Toman Giant Snakehead	4,389.47	0.00	0.00	0.00	0.00	4,389.47
Baung River Catfish	4,003.07	0.00	2,575.55	0.00	66.13	6,644.75
Pelbagai Others	26,179.94	1,833.86	130.28	62.43	79.02	28,285.53
Jumlah Total	211,474.01	18,142.90	15,321.83	4,557.68	1,756.44	251,252.86

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KOLAM AIRPAYAU, SANGKAR AIRPAYAU,
 TERNAKAN KERANG, TERNAKAN SIPUT SUDU DAN TERNAKAN TIRAM MENGIKUT SPESIES IKAN 1998
 ESTIMATED FISH PRODUCTION FROM BRACKISHWATER PONDS, BRACKISHWATER CAGES,
 COCKLE CULTURE, MUSSEL CULTURE AND OYSTER CULTURE BY SPECIES, 1998
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Spesies Species	Sistem Ternakan Culture System					
	Kolam Airpayau Brackishwater Ponds	Sangkar Airpayau Brackishwater Cages	Kerang Cockles	Siput Sudu Mussels	Tiram Oysters	Jumlah Total
Siakap <i>Barramundi</i>	1,623.42	1,984.90	0.00	0.00	0.00	3,608.32
Siakap Merah <i>Mangrove Red Snapper</i>	0.00	1,638.09	0.00	0.00	0.00	1,638.09
Kerapu <i>Grouper</i>	0.06	465.66	0.00	0.00	0.00	465.72
Jenahak <i>Mangrove Snapper</i>	14.35	1,308.98	0.00	0.00	0.00	1,323.33
Udang Putih <i>Banana Prawn</i>	149.77	0.00	0.00	0.00	0.00	149.77
Udang Harimau <i>Tiger Prawn</i>	9,685.25	0.00	0.00	0.00	0.00	9,685.25
Ketam <i>Mud Crab</i>	24.46	206.65	0.00	0.00	0.00	231.11
Ketam telur <i>Bermed' crabs</i>	0.00	7.10	0.00	0.00	0.00	7.10
Tilapia Merah <i>Red Tilapia</i>	18.34	17.87	0.00	0.00	0.00	36.21
Merah <i>Red Snapper</i>	0.00	65.10	0.00	0.00	0.00	65.10
Kerang Dewasa <i>Cockles</i>	0.00	0.00	81,716.78	0.00	0.00	81,716.78
Siput Sudu <i>Mussels</i>	0.00	0.00	0.00	986.37	0.00	986.37
Tiram <i>Oysters</i>	0.00	0.00	0.00	0.00	137.70	137.70
Pelbagai <i>Others</i>	84.45	328.77	0.00	0.00	0.00	413.22
Jumlah Total	11,600.10	6,023.12	81,716.78	986.37	137.70	100,464.07

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI KOLAM AIRPAYAU, SANGKAR AIRPAYAU,
 TERNAKAN KERANG, TERNAKAN SIPUT SUDU DAN TERNAKAN TIRAM MENGIKUT SPESIES IKAN 1998
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM BRACKISHWATER PONDS, BRACKISHWATER CAGES,
 COCKLE CULTURE, MUSSEL CULTURE AND OYSTER CULTURE BY SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Spesies Species	Sistem Ternakan Culture System					
	Kolam Airpayau Brackishwater Ponds	Sangkar Airpayau Brackishwater Cages	Kerang Cockles	Siput Sudu Mussels	Tiram Oysters	Jumlah Total
Siakap Barramundi	19,169.60	23,064.24	0.00	0.00	0.00	42,233.84
Siakap merah Mangrove Red Snapper	0.00	13,544.75	0.00	0.00	0.00	13,544.75
Kerapu Grouper	1.31	16,808.62	0.00	0.00	0.00	16,809.93
Jenahak Mangrove Snapper	184.06	17,287.14	0.00	0.00	0.00	17,471.20
Udang Putih Banana Prawn	4,428.97	0.00	0.00	0.00	0.00	4,428.97
Udang Harimau Tiger Prawn	283,442.87	0.00	0.00	0.00	0.00	283,442.87
Ketam Mud Crab	263.27	2,508.87	0.00	0.00	0.00	2,772.14
Ketam Telur Berried Crabs	0.00	152.08	0.00	0.00	0.00	152.08
Tilapia Merah Red Tilapia	93.34	96.85	0.00	0.00	0.00	190.19
Merah Red Snapper	0.00	1,046.52	0.00	0.00	0.00	1,046.52
Kerang Dewasa Cockles	0.00	0.00	63,098.94	0.00	0.00	63,098.94
Siput Sudu Mussels	0.00	0.00	0.00	591.12	0.00	591.12
Tiram Oysters	0.00	0.00	0.00	0.00	3,255.67	3,255.67
Pelbagai Others	899.58	9,069.88	0.00	0.00	0.00	9,969.46
Jumlah Total	308,483.00	83,578.95	63,098.94	591.12	3,255.67	459,007.68

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI KOLAM AIRPAYAU, SANGKAR AIRPAYAU,
 TERNAKAN KERANG, TERNAKAN SIPUT SUDU DAN TERNAKAN TIRAM MENGIKUT SPESIES IKAN 1998
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM BRACKISHWATER PONDS, BRACKISHWATER CAGES,
 COCKLE CULTURE, MUSSEL CULTURE AND OYSTER CULTURE BY SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Species Species	Sistem Ternakan Culture System					
	Kolam Airpayau Brackishwater Ponds	Sangkar Airpayau Brackishwater Cages	Kerang Cockles	Siput Sudu Mussels	Tiram Oysters	Jumlah Total
Siakap Barramundi	22,767.73	27,986.98	0.00	0.00	0.00	50,754.71
Siakap Merah Mangrove Red Snapper	0.00	17,298.44	0.00	0.00	0.00	17,298.44
Kerapu Grouper	1.47	17,898.96	0.00	0.00	0.00	17,900.43
Jenahak Mangrove Snapper	220.46	20,730.11	0.00	0.00	0.00	20,950.57
Udang Putih Banana Prawn	5,204.50	0.00	0.00	0.00	0.00	5,204.50
Udang Harimau Tiger Prawn	318,367.77	0.00	0.00	0.00	0.00	318,367.77
Ketam Mud Crab	342.80	3,218.70	0.00	0.00	0.00	3,561.50
Ketam telur Berried Crabs	0.00	155.63	0.00	0.00	0.00	155.63
Tilapia Merah Red Tilapia	123.51	108.52	0.00	0.00	0.00	232.03
Merah Red Snapper	0.00	1,191.78	0.00	0.00	0.00	1,191.78
Kerang Dewasa Cockles	0.00	0.00	102,078.16	0.00	0.00	102,078.16
Siput Sudu Mussels	0.00	0.00	0.00	837.90	0.00	837.90
Tiram Oysters	0.00	0.00	0.00	0.00	3,301.05	3,301.05
Pelbagai Others	975.27	10,035.41	0.00	0.00	0.00	11,010.68
Jumlah Total	348,003.51	98,624.53	102,078.16	837.90	3,301.05	552,845.15

MALAYSIA
BILANGAN DAN LUAS KOLAM AIRTAWAR YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1998
NUMBER AND AREA OF FRESHWATER PONDS IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Kolam Airtawar Freshwater Ponds		Bilangan Penternak No. Of Culturists				
	Bilangan Number	Luas (ha) Area(ha)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	147	28.85	97	1	0	2	100
Kedah	1,391	180.75	545	16	0	3	564
Pulau Pinang	127	17.92	51	4	5	0	60
Perak	2,246	627.19	1,088	173	9	30	1,300
Selangor	1,806	458.66	374	161	26	64	625
Negeri Sembilan	1,633	301.52	876	163	10	1	1,050
Melaka	509	102.16	235	62	1	1	299
Johor	1,489	199.26	261	136	4	30	431
Pahang	2,732	985.95	1,997	792	8	35	2,832
Terengganu	1,300	111.94	701	5	0	0	706
Kelantan	2,006	202.27	1060	9	0	8	1,077
Sarawak	1,708	156.80	31	161	0	1043	1,235
Sabah	14,012	1,385.70	88	823	2	4007	4,920
Jumlah/Total:	31,106	4,758.97	7,404	2,506	65	5,224	15,199

JADUAL (TABLE) 15.2

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KOLAM AIRTAWAR
 MENGIKUT NEGERI DAN SPESIS IKAN, 1998
 ESTIMATED FISH PRODUCTION FROM FRESHWATER PONDS
 BY STATE AND SPECIES, 1998
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Udang Gajah Giant Fresh- water Prawn	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Ketutu Goby	Belut Eel	Patin River Catfish	Toman Giant SnakeHead	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.21	0.00	0.00	0.00	11.21	17.27	1.03	20.22	0.00	0.00	0.00	0.00	0.00	4.82	54.76
Kedah	29.05	7.35	0.57	0.15	0.44	15.78	53.21	3.04	198.81	0.00	0.00	0.15	0.00	0.00	15.58	324.13
Pulau Pinang	22.52	0.00	0.00	0.00	0.10	0.00	19.39	0.13	64.82	0.00	0.00	0.00	0.00	0.00	0.00	106.96
Perak	185.09	30.33	344.97	47.42	33.71	63.68	596.04	58.77	426.77	0.00	0.00	0.00	0.00	64.35	307.76	2,158.89
Selangor	52.16	9.59	64.70	5.57	0.00	82.59	508.41	15.71	3,034.32	0.52	0.00	225.00	0.00	188.55	294.87	4,481.99
Negeri Sembilan	76.84	9.79	19.45	0.60	21.50	11.22	750.71	4.62	127.99	0.22	0.00	0.23	0.00	2.13	18.58	1,043.88
Melaka	40.17	5.39	8.40	0.89	7.53	27.40	36.51	11.96	356.44	0.40	0.00	12.18	0.00	0.00	109.06	616.33
Johor	2.11	5.06	0.55	0.70	1.80	1.02	224.50	0.00	936.49	20.86	0.00	43.60	508.37	82.85	50.77	1,878.68
Pahang	95.18	26.00	160.84	17.53	213.00	2.51	868.58	32.32	18.17	101.61	2,250.00	58.56	87.01	1.74	3,649.09	7,582.14
Terengganu	15.23	4.70	2.11	0.80	1.03	10.62	93.97	4.38	23.49	0.00	0.00	12.93	0.00	8.44	1.50	179.20
Kelantan	68.99	22.46	21.59	0.00	1.57	33.48	115.70	62.52	12.06	0.98	0.00	27.95	0.00	3.79	49.03	420.12
Sarawak	124.33	219.69	0.00	0.00	0.49	0.00	38.37	191.93	0.00	0.00	0.00	193.49	0.00	0.00	0.00	768.30
Sabah	905.00	555.00	35.00	25.00	0.00	4,020.00	1,220.00	21.00	0.00	0.00	0.00	33.00	0.00	0.00	36.00	6,850.00
Jumlah/Total:	1,616.67	895.57	658.18	98.66	281.17	4,279.51	4,542.66	407.41	5,219.58	124.59	2,250.00	607.09	595.38	351.85	4,537.06	26,465.38

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snake Head, Snakeskin Gouramy and Others.

JADUAL (TABLE) 15.3

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI KOLAM AIRTAWAR
 MENGIKUT NEGERI DAN SPESIS IKAN, 1998
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM FRESHWATER PONDS
 BY STATE AND SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Udang Galah Giant Fresh- water Prawn	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Ketutu Goby	Belut Eel	Patin River Catfish	Toman Giant Snakehead	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.63	0.00	0.00	0.00	39.24	60.45	6.18	60.66	0.00	0.00	0.00	0.00	0.00	15.09	182.25
Kedah	87.15	32.19	1.83	0.52	7.85	47.34	221.89	28.52	729.63	0.00	0.00	0.45	0.00	0.00	38.95	1,196.32
Pulau Pinang	93.23	0.00	0.00	0.00	2.17	0.00	85.12	1.78	227.52	0.00	0.00	0.00	0.00	0.00	0.00	409.82
Perak	773.68	126.78	1,559.26	124.71	725.44	191.04	2,282.83	420.79	1,489.43	0.00	0.00	0.00	0.00	526.38	609.36	8,829.70
Selangor	240.98	38.07	296.33	16.54	0.00	298.98	2,496.29	113.90	9,467.08	23.36	0.00	648.00	0.00	1,610.22	1,052.69	16,302.44
Negeri Sembilan	272.78	35.44	68.46	1.43	555.35	34.78	2,852.70	24.49	409.57	7.70	0.00	0.70	0.00	17.53	60.76	4,341.69
Melaka	143.01	20.37	28.81	2.04	153.99	88.23	137.28	51.19	1,040.80	11.82	0.00	35.32	0.00	0.00	545.30	2,258.16
Johor	7.66	19.38	2.18	2.10	38.61	3.19	1,034.95	0.00	3,202.80	930.77	0.00	187.48	2,907.88	771.33	273.65	9,381.98
Pahang	420.70	104.00	683.57	62.76	4,826.71	7.53	3,978.10	285.39	55.24	3,208.84	37,800.00	443.88	428.09	24.80	15,508.63	67,840.24
Terengganu	61.38	16.24	8.08	3.34	16.10	45.03	415.35	30.97	95.60	0.00	0.00	72.02	0.00	63.98	4.25	834.34
Kelantan	349.78	119.94	122.42	0.00	24.71	145.64	544.95	491.41	47.76	25.17	0.00	137.51	0.00	30.47	216.71	2,256.47
Sarawak	621.65	878.76	0.00	0.00	8.33	0.00	249.41	1,343.51	0.00	0.00	0.00	1,257.69	0.00	0.00	0.00	4,359.35
Sabah	5,430.00	4,440.00	350.00	175.00	0.00	28,140.00	9,760.00	210.00	0.00	0.00	0.00	264.00	0.00	0.00	216.00	48,985.00
Jumlah/Total:	8,502.00	5,833.80	3,120.94	388.44	6,361.26	29,041.00	24,119.32	3,008.13	16,828.09	4,207.66	37,800.00	3,047.05	3,335.97	3,044.71	18,541.39	167,177.76

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain.
 Note : Miscellaneous - Includes Snake Head, Snakeskin Gouramy and Others.

JADUAL (TABLE) 15.4

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DALAM KOLAM AIRTAWAR
 MENGIKUT NEGERI DAN SPESIS IKAN, 1998
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM FRESHWATER PONDS
 BY STATE AND SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Udang Galah Giant Fresh- water Prawn	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Ketutu Goby	Belut Eel	Patin River Catfish	Toman Giant Snakehead	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.95	0.00	0.00	0.00	50.45	77.72	8.24	90.99	0.00	0.00	0.00	0.00	0.00	21.98	250.33
Kedah	130.73	41.97	2.57	0.68	8.87	71.01	266.05	35.96	1,135.21	0.00	0.00	0.75	0.00	0.00	46.74	1,740.54
Pulau Pinang	125.66	0.00	0.00	0.00	2.76	0.00	105.68	1.78	330.58	0.00	0.00	0.00	0.00	0.00	0.00	566.46
Perak	1,066.12	189.26	2,180.21	201.06	946.58	304.39	3,278.22	587.70	2,197.87	0.00	0.00	0.00	0.00	721.36	944.82	12,617.59
Selangor	337.48	57.92	410.20	23.00	0.00	407.99	3,274.16	152.39	14,868.17	28.90	0.00	1,077.75	0.00	2,107.99	1,565.76	24,311.71
Negeri Sembilan	457.20	63.15	117.48	2.56	666.93	54.08	4,346.61	40.29	753.86	11.00	0.00	1.27	0.00	24.77	99.96	6,639.16
Melaka	205.27	28.89	40.74	2.67	202.78	106.86	193.50	70.21	1,603.98	14.90	0.00	52.13	0.00	0.00	763.42	3,285.35
Johor	9.73	26.67	2.78	3.50	46.40	4.80	1,400.88	0.00	4,729.27	1,102.87	0.00	261.60	3,787.36	988.40	342.19	12,706.45
Pahang	753.83	171.08	1,085.67	100.80	6,194.04	10.04	6,331.95	466.05	90.12	3,810.38	37,800.00	585.60	602.11	30.59	21,894.54	79,926.80
Terengganu	80.87	25.19	12.55	4.74	19.88	60.00	534.69	38.85	138.36	0.00	0.00	98.91	0.00	90.81	7.02	1,111.87
Kelantan	462.92	166.88	160.41	0.00	29.83	192.84	704.61	633.95	68.02	30.34	0.00	181.12	0.00	39.15	277.51	2,947.58
Sarawak	1,118.97	1,757.52	0.00	0.00	8.82	0.00	326.15	1,919.30	0.00	0.00	0.00	1,741.41	0.00	0.00	0.00	6,872.17
Sabah	7,240.00	5,550.00	350.00	200.00	0.00	32,160.00	12,200.00	252.00	0.00	0.00	0.00	330.00	0.00	0.00	216.00	58,498.00
Jumlah/Total:	11,988.78	8,079.48	4,362.61	539.01	8,126.89	33,422.46	33,040.22	4,206.72	26,006.43	4,998.39	37,800.00	4,330.54	4,389.47	4,003.07	26,179.94	211,474.01

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snake Head, Snakeskin Gouramy and Others.

JADUAL(TABLE) 16.1

MALAYSIA
 BILANGAN DAN LUAS BEKAS LOMBONG YANG DIUSAHAKAN
 SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1998
 NUMBER AND AREA OF EX-MINING POOLS IN OPERATION AND
 NUMBER OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Bekas Lombong Ex-Mining Pools		Bilangan Penternak No. Of Culturists				
	Bilangan Number	Luas (ha) Area(ha)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	0	0.00	0	0	0	0	0
Kedah	0	0.00	0	0	0	0	0
Pulau Pinang	0	0.00	0	0	0	0	0
Perak	233	889.72	44	93	0	9	146
Selangor	106	194.18	35	14	1	3	53
Negeri Sembilan	9	14.75	0	9	0	0	9
Melaka	0	0.00	0	0	0	0	0
Johor	0	0.00	0	0	0	0	0
Pahang	3	64.00	60	0	0	0	60
Terengganu	0	0.00	0	0	0	0	0
Kelantan	0	0.00	0	0	0	0	0
Sarawak	0	0.00	0	0	0	0	0
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	351	1,162.65	139	116	1	12	268

JADUAL (TABLE) 16.2

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI BEKAS LOMBONG
 MENGIKUT NEGERI DAN SPESIS IKAN, 1998
 ESTIMATED FISH PRODUCTION FROM EX-MINING POOLS
 BY STATE AND FISH SPECIES, 1998
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Patin River Catfish	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	126.69	99.54	225.44	756.83	0.00	41.79	1,458.76	20.69	150.59	0.00	477.31	3,357.64
Selangor	19.42	1.94	12.42	13.20	0.52	47.33	65.20	3.03	4.31	0.00	66.35	233.72
Negeri Sembilan	0.00	0.00	6.60	0.71	0.00	0.00	12.10	0.00	0.00	0.00	0.00	19.41
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pahang	0.86	0.10	1.16	1.55	0.04	0.15	0.17	0.09	0.21	0.00	2.70	7.03
Terengganu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelantan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total	146.97	101.58	245.62	772.29	0.56	89.27	1,536.23	23.81	155.11	0.00	546.36	3,617.80

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain-lain

Nota : Miscellaneous - Includes Snake Head, Snakeskin Gouramy and Others.

MALAYSIA
ANGGARAN NILAI BORONG PENGELUARAN DARI IKAN BEKAS LOMBONG
MENGIKUT NEGERI DAN SPESIS IKAN, 1998
ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM EX-MINING POOLS
BY STATE AND FISH SPECIES, 1998
(NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Baung River Catfish	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Patin River Catfish	Pelbagai Micellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	529.56	416.08	1,018.99	1,990.46	0.00	125.37	5,587.05	148.14	525.56	0.00	945.07	11,286.28
Selangor	89.72	7.70	56.88	39.20	0.00	171.33	320.13	21.97	13.45	1.50	236.87	958.75
Negeri Sembilan	0.00	0.00	23.23	1.69	0.00	0.00	45.98	0.00	0.00	0.00	0.00	70.90
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pahang	3.80	0.40	4.93	5.55	0.00	0.45	0.78	0.79	0.64	0.30	11.48	29.12
Terengganu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelantan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total:	623.08	424.18	1,104.03	2,036.90	0.00	297.15	5,953.94	170.90	539.65	1.80	1,193.42	12,345.05

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain

Note : Miscellaneous - Includes Snake Head, Snakeskin Gouramy and Others.

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI BEKAS LOMBONG
 MENGIKUT NEGERI DAN SPESIS IKAN, 1998
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM EX-MINING POOLS
 BY STATE AND FISH SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Baung River Catfish	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Patin River Catfish	Pelbagai Others	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	729.73	621.13	1,424.78	3,208.96	0.00	199.76	8,023.18	206.90	775.54	0.00	1,465.34	16,655.32
Selangor	125.65	11.72	78.74	54.52	0.00	233.81	419.89	29.39	21.12	2.49	352.32	1,329.65
Negeri Sembilan	0.00	0.00	39.86	3.02	0.00	0.00	70.06	0.00	0.00	0.00	0.00	112.94
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pahang	6.81	0.66	7.83	8.91	0.00	0.60	1.24	1.30	1.04	0.40	16.20	44.99
Terengganu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelantan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total:	862.19	633.51	1,551.21	3,275.41	0.00	434.17	8,514.37	237.59	797.70	2.89	1,833.86	18,142.90

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snake Head, Snakeskin Gouramy and Others.

JADUAL(TABLE) 17.1

MALAYSIA
BILANGAN DAN LUAS SANGKAR AIRTAWAR YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI,1998
NUMBER AND AREA OF FRESHWATER CAGES IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Sangkar Airtawar Freshwater Cages		Bilangan Penternak No. Of Culturists				
	Bilangan Number	Luas (M2) Area(M2)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	36	625.00	5	0	0	1	6
Kedah	9	222.33	1	0	0	0	1
Pulau Pinang	0	0.00	0	0	0	0	0
Perak	724	11,045.15	50	1	0	10	61
Selangor	737	13,223.46	6	4	0	2	12
Negeri Sembilan	912	13,506.63	2	4	0	1	7
Melaka	11	99.00	0	1	0	0	1
Johor	166	1,725.45	2	0	0	3	5
Pahang	2,762	39,642.16	467	14	0	111	592
Terengganu	1381	24,610.44	164	5	0	1	170
Kelantan	191	4,366.08	49	0	0	0	49
Sarawak	895	21,480.00	0	0	0	372	372
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	7,824	130,545.70	746	29	0	501	1,276

JADUAL (TABLE) 17.2

MALAYSIA
ANGGARAN PENGELUARAN IKAN DARI SANGKAR AIRTAWAR
MENGIKUT NEGERI DAN SPESIS IKAN, 1998
ESTIMATED FISH PRODUCTION FROM FRESHWATER CAGES
BY STATE AND FISH SPECIES, 1998
(KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Ketutu Goby	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Patin River Catfish	Toman Giant Snakehead	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.30	1.66	0.00	0.00	0.00	0.00	0.84	2.80
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	4.25	0.00	0.00	0.00	0.00	0.00	4.25
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	2.63	0.00	0.65	0.00	0.00	0.00	21.56	3.21	3.41	0.00	28.90	1.25	61.61
Selangor	1.78	0.00	0.00	0.00	0.00	0.00	118.67	0.30	2.53	0.00	0.00	0.00	123.28
Negeri Sembilan	0.77	0.00	7.90	0.00	0.00	0.00	249.30	3.05	3.75	0.00	0.00	0.00	264.77
Melaka	0.12	0.00	0.00	0.00	0.00	0.00	1.24	0.00	5.20	0.00	0.00	0.24	6.80
Johor	0.00	0.00	0.00	0.00	0.00	0.00	5.18	0.00	0.81	0.00	0.00	1.27	7.26
Pahang	1.47	0.00	0.38	0.00	0.00	0.00	245.55	3.94	434.70	0.00	13.72	16.34	716.10
Terengganu	0.09	0.00	0.02	0.00	0.00	4.28	645.68	0.38	4.36	0.00	186.33	2.82	843.96
Kelantan	0.19	0.00	0.00	0.00	0.00	0.17	7.42	0.00	0.48	0.00	0.53	0.20	8.99
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total	7.05	0.00	8.95	0.00	0.00	4.75	1,300.51	10.88	455.24	0.00	229.48	22.96	2,039.82

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snakehead, Snakeskin Gouramy, Gouramy and Others.

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI SANGKAR AIRTAWAR
 MENGIKUT NEGERI DAN SPESIS, 1998
 ESTIMATED WHOLESALE VALUE FISH PRODUCTION FROM FRESHWATER CAGES
 BY STATE AND FISH SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Ketutu Goby	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Patin River Catfish	Toman Giant Snakehead	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	1.05	5.81	0.00	0.00	0.00	0.00	2.63	9.49
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	17.72	0.00	0.00	0.00	0.00	0.00	17.72
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	10.99	0.00	2.94	0.00	0.00	0.00	82.57	22.98	14.12	0.00	236.40	2.48	372.48
Selangor	8.22	0.00	0.00	0.00	0.00	0.00	582.67	2.18	7.29	0.00	0.00	0.00	600.36
Negeri Sembilan	2.73	0.00	27.81	0.00	0.00	0.00	947.34	16.17	11.36	0.00	0.00	0.00	1,005.41
Melaka	0.43	0.00	0.00	0.00	0.00	0.00	4.66	0.00	15.08	0.00	0.00	1.20	21.37
Johor	0.00	0.00	0.00	0.00	0.00	0.00	23.88	0.00	3.48	0.00	0.00	6.85	34.21
Pahang	6.50	0.00	1.62	0.00	0.00	0.00	1,124.62	34.79	3,295.03	0.00	195.51	69.45	4,727.52
Terengganu	0.36	0.00	0.08	0.00	0.00	18.15	2,853.91	2.69	24.29	0.00	1,412.38	7.98	4,319.84
Kelantan	0.96	0.00	0.00	0.00	0.00	0.74	34.95	0.00	2.36	0.00	4.26	0.88	44.15
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total	30.19	0.00	32.45	0.00	0.00	19.94	5,678.13	78.81	3,373.01	0.00	1,848.55	91.47	11,152.55

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snakehead, Snakeskin Gouramy and Others.

MALAYSIA
ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI SANGKAR AIRTAWAR
MENGIKUT NEGERI DAN SPESIS IKAN, 1998
ESTIMATED RETAIL VALUE FISH PRODUCTION FROM FRESHWATER CAGES
BY STATE AND FISH SPECIES, 1998
(NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumpun Grass Carp	Kap Kepala Besar Big Head Carp	Ketutu Goby	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Patin River Catfish	Toman Giant Snakehead	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	1.35	7.47	0.00	0.00	0.00	0.00	3.83	12.65
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	21.25	0.00	0.00	0.00	0.00	0.00	21.25
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	15.15	0.00	4.11	0.00	0.00	0.00	118.58	32.10	21.45	0.00	323.97	3.84	519.20
Selangor	11.52	0.00	0.00	0.00	0.00	0.00	764.23	2.91	12.12	0.00	0.00	0.00	790.78
Negeri Sembilan	4.58	0.00	47.72	0.00	0.00	0.00	1,443.45	26.60	20.74	0.00	0.00	0.00	1,543.09
Melaka	0.61	0.00	0.00	0.00	0.00	0.00	6.57	0.00	22.26	0.00	0.00	1.68	31.12
Johor	0.00	0.00	0.00	0.00	0.00	0.00	32.32	0.00	4.86	0.00	0.00	8.56	45.74
Pahang	11.64	0.00	2.57	0.00	0.00	0.00	1,790.06	56.81	4,347.00	0.00	241.20	98.04	6,547.32
Terengganu	0.48	0.00	0.12	0.00	0.00	24.18	3,673.92	3.37	33.35	0.00	2,004.91	13.20	5,753.53
Kelantan	1.27	0.00	0.00	0.00	0.00	0.98	45.19	0.00	3.11	0.00	5.47	1.13	57.15
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total	45.25	0.00	54.52	0.00	0.00	26.51	7,903.04	121.79	4,464.89	0.00	2,575.55	130.28	15,321.83

Nota : Pelbagai - Termasuk ikan Haruan , Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snakehead, Snakeskin Gouramy and Others.

JADUAL(TABLE) 18.1

MALAYSIA
BILANGAN DAN LUAS TANGKI SIMEN YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1998
NUMBER AND AREA OF CEMENT TANKS IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Tangki Simen Cement Tanks		Bilangan Penternak No. Of Culturists				
	Bilangan Number	Luas (M2) Area(M2)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	0	0.00	0	0	0	0	0
Kedah	5	245.62	3	0	0	0	3
Pulau Pinang	0	0.00	0	0	0	0	0
Perak	53	10,000.00	10	1	0	0	11
Selangor	97	18,329.34	16	6	0	0	22
Negeri Sembilan	165	6,731.64	31	1	0	0	32
Melaka	28	1,376.87	14	1	0	0	15
Johor	220	5,091.37	60	0	0	0	60
Pahang	51	686.78	25	0	0	0	25
Terengganu	188	3,223.86	75	0	0	0	75
Kelantan	100	3,809.92	52	0	0	0	52
Sarawak	25	624.00	0	0	0	8	8
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	932	50,119.40	286	9	0	8	303

JADUAL(TABLE) 18.2

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI TANGKI SIMEN
 MENGIKUT NEGERI DAN SPESIES IKAN,1998
 ESTIMATED FISH PRODUCTION OF FISH FROM CEMENT TANK
 BY STATE AND FISH SPECIES,1998
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri State	Keli <i>Freshwater Catfish</i>	Tilapia Merah <i>Red Tilapia</i>	Tilapia Hitam <i>Black Tilapia</i>	Patin <i>River Catfish</i>	Lampam Jawa <i>Javanese Carp</i>	Pelbagai <i>Miscellaneous</i>	Jumlah <i>Total</i>
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	2.68	0.00	0.00	0.00	0.00	0.00	2.68
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	15.69	246.54	0.00	0.00	5.00	0.00	267.23
Selangor	18.87	393.11	0.08	0.00	0.00	1.80	413.86
Negeri Sembilan	12.69	0.64	0.00	0.00	0.00	6.51	19.84
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	28.72	2.20	0.00	1.07	0.00	1.90	33.89
Pahang	0.00	0.12	0.24	0.00	0.00	0.84	1.20
Terengganu	19.50	3.44	0.02	0.11	0.00	0.00	23.07
Kelantan	0.54	0.91	0.00	0.07	0.00	0.00	1.52
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total:	98.69	646.96	0.34	1.25	5.00	11.05	763.29

Nota : Pelbagai - Termasuk Ikan seperti Haruan, Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snakehead, Snakeskin Gouramy and Others.

JADUAL(TABLE) 18.3

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI TANGKI SIMEN
 MENGIKUT NEGERI DAN SPESIES IKAN,1998
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM CEMENT TANKS
 BY STATE AND FISH SPECIES,1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri <i>State</i>	Keli <i>Freshwater Catfish</i>	Tilapia Merah <i>Red Tilapia</i>	Tilapia Hitam <i>Black Tilapia</i>	Lampam Jawa <i>Javanese Carp</i>	Patin <i>River Catfish</i>	Pelbagai <i>Miscellaneous</i>	Jumlah <i>Total</i>
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	9.84	0.00	0.00	0.00	0.00	0.00	9.84
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	54.76	944.25	0.00	20.90	0.00	0.00	1,019.91
Selangor	58.87	1,930.17	0.29	0.00	0.00	6.43	1,995.76
Negeri Sembilan	40.61	2.43	0.00	0.00	0.00	21.29	64.33
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	98.22	10.14	0.00	0.00	4.60	10.24	123.20
Pahang	0.00	0.55	0.72	0.00	0.00	3.57	4.84
Terengganu	79.37	15.20	0.08	0.00	0.61	0.00	95.26
Kelantan	2.14	4.29	0.00	0.00	0.34	0.00	6.77
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total:	343.81	2,907.03	1.09	20.90	5.55	41.53	3,319.91

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat dan Lain - lain.

Note : Miscellaneous - Includes Snake Head, Snakeskin Gouramy and Others.

MALAYSIA
ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI TANGKI SIMEN
MENGIKUT NEGERI DAN SPESIES IKAN,1998
ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM CEMENT TANKS
BY STATE AND FISH SPECIES,1998
(NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Keli Freshwater Catfish	Tilapia Merah Red Tilapia	Tilapia Hitam Black Tilapia	Lampam Jawa Javanese Carp	Patin River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	15.30	0.00	0.00	0.00	0.00	0.00	15.30
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	80.80	1,355.97	0.00	28.80	0.00	0.00	1,465.57
Selangor	92.46	2,531.63	0.40	0.00	0.00	9.56	2,634.05
Negeri Sembilan	74.74	3.71	0.00	0.00	0.00	35.02	113.47
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	145.04	13.73	0.00	0.00	6.42	12.81	178.00
Pahang	0.00	0.87	0.96	0.00	0.00	5.04	6.87
Terengganu	114.86	19.57	0.11	0.00	0.84	0.00	135.38
Kelantan	3.05	5.54	0.00	0.00	0.45	0.00	9.04
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total:	526.25	3,931.02	1.47	28.80	7.71	62.43	4,557.68

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snakehead, Snakeskin Gouramy and Others.

JADUAL(TABLE) 19.1

MALAYSIA
BILANGAN DAN LUAS KANDANG IKAN YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1998
NUMBER AND AREA OF PEN CULTURE IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Kandang Ikan <i>Pen culture</i>		Bilangan Penternak <i>No. Of Culturists</i>				
	Bilangan Number	Luas (Ha) Area(Ha)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	0	0.00	0	0	0	0	0
Kedah	14	1.40	14	0	0	0	14
Pulau Pinang	0	0.00	0	0	0	0	0
Perak	206	31.51	72	0	0	0	72
Selangor	0	0.00	0	0	0	0	0
Negeri Sembilan	0	0.00	0	0	0	0	0
Melaka	0	0.00	0	0	0	0	0
Johor	0	0.00	0	0	0	0	0
Pahang	0	0.00	0	0	0	0	0
Terengganu	60	3.60	60	0	0	0	60
Kelantan	655	185.63	655	0	0	0	655
Sarawak	47	1.13	0	0	0	37	37
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	982	223.27	801	0	0	37	838

MALAYSIA
ANGGARAN PENGELUARAN IKAN DARI KANDANG AIRTAWAR
MENGIKUT NEGERI DAN SPESIES IKAN, 1998
ESTIMATED FISH PRODUCTION FROM FRESHWATER PEN CULTURE
BY STATE AND FISH SPECIES, 1998
(KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Ketutu Goby	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Cat fish	Udang Galah Giant Fresh- Water Prawn	Patin River Catfish	Toman Giant Snakehead	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.32
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	6.06	0.00	4.63	3.26	0.00	0.29	64.40	4.10	0.00	0.00	24.77	0.00	3.65	22.66	133.82
Selangor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelantan	25.21	0.00	0.03	0.00	0.00	0.00	120.86	0.28	0.00	0.00	8.65	0.00	2.44	1.67	159.14
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total	31.27	0.00	4.66	3.26	0.00	0.29	188.58	4.38	0.00	0.00	33.42	0.00	6.09	24.33	296.28

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snakehead, Snakeskin Gouramy, Gouramy and Others.

JADUAL (TABLE) 19.3

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI KANDANG AIRTAWAR
 MENGIKUT NEGERI DAN SPESIS IKAN, 1998
 ESTIMATED WHOLESALE VALUE FISH PRODUCTION FROM FRESHWATER PEN CULTURE
 BY STATE AND FISH SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Ketutu Goby	Udang Galah Giant Fresh- Water Prawn	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Patin River Catfish	Toman Giant Snakehead	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.84	0.00	0.00	0.00	0.00	0.00	0.00	13.84
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	25.33	0.00	20.93	8.57	0.00	0.00	0.87	246.65	29.36	0.00	102.55	0.00	29.86	44.87	508.99
Selangor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelantan	127.81	0.00	0.17	0.00	0.00	0.00	0.00	569.25	2.20	0.00	42.56	0.00	19.62	7.38	768.99
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total	153.14	0.00	21.10	8.57	0.00	0.00	0.87	829.74	31.56	0.00	145.11	0.00	49.48	52.25	1,291.82

Nota : Pelbagai - Termasuk Ikan Haruan, Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snakehead, Snakeskin Gouramy and Others.

MALAYSIA
ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI KANDANG AIRTAWAR
MENGIKUT NEGERI DAN SPESIS IKAN, 1998
ESTIMATED RETAIL VALUE FISH PRODUCTION FROM FRESHWATER PEN CULTURE
BY STATE AND FISH SPECIES, 1998
(NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Udang Galah GiantFresh- Water Prawn	Ketutu Goby	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Fresh- Water Catfish	Patin River Catfish	Toman Giant Snakehead	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	16.60
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	34.91	0.00	29.26	13.82	0.00	0.00	1.39	354.20	41.00	0.00	155.80	0.00	40.92	69.57	740.87
Selangor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelantan	169.16	0.00	0.22	0.00	0.00	0.00	0.00	736.04	2.84	0.00	56.05	0.00	25.21	9.45	998.97
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total	204.07	0.00	29.48	13.82	0.00	0.00	1.39	1,106.84	43.84	0.00	211.85	0.00	66.13	79.02	1,756.44

Nota : Pelbagai - Termasuk ikan Haruan , Sepat Siam dan Lain - lain.

Note : Miscellaneous - Includes Snakehead, Snakeskin Gouramy and Others.

MALAYSIA
BILANGAN DAN LUAS KOLAM AIRPAYAU YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1998
NUMBER AND AREA OF BRACKISHWATER PONDS IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Kolam Airpayau Brackishwater Ponds		Bilangan Penternak No. Of Culturists				
	Bilangan Number	Luas (Ha) Area(Ha)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	52	35.73	3	3	0	2	8
Kedah	885	676.10	87	27	1	29	144
Pulau Pinang	325	192.31	47	83	0	9	139
Perak	1138	708.82	43	72	2	31	148
Selangor	715	370.69	79	31	0	24	134
Negeri Sembilan	68	59.00	1	0	0	3	4
Melaka	76	44.23	17	2	0	1	20
Johor	692	669.44	33	43	0	19	95
Pahang	189	134.51	15	3	0	0	18
Terengganu	219	109.87	47	2	0	0	49
Kelantan	157	75.37	130	1	0	0	131
Sarawak	403	126.08	81	36	0	45	162
Sabah	1,463	2,646.33	0	40	0	82	122
Jumlah/Total:	6,382	5,848.48	583	343	3	245	1,174

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KOLAM AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIS IKAN, 1998
 ESTIMATED FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS
 BY STATE AND FISH SPECIES, 1998
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri <i>State</i>	Siakap <i>Barramundi</i>	Kerapu <i>Grouper</i>	Jenahak <i>Mangrove Snapper</i>	Udang Putih <i>Banana Prawn</i>	Udang Harimau <i>Tiger Prawn</i>	Ketam <i>Mud Crab</i>	Tilapia Merah <i>Red Tilapia</i>	Pelbagai <i>Miscellaneous</i>	Jumlah <i>Total</i>
Perlis	0.06	0.00	0.00	0.00	154.10	0.00	0.51	0.00	154.67
Kedah	28.72	0.06	0.00	0.00	500.60	0.55	0.00	0.00	529.93
Pulau Pinang	519.75	0.00	0.00	0.00	375.47	0.00	0.00	61.90	957.12
Perak	173.36	0.00	0.00	0.00	2,398.41	7.26	0.09	0.65	2,579.77
Selangor	404.73	0.00	3.00	0.00	1,045.69	0.30	0.00	0.02	1,453.74
Negeri Sembilan	0.30	0.00	0.00	0.00	122.50	0.00	0.00	0.00	122.80
Melaka	3.50	0.00	3.33	0.00	75.70	0.00	0.50	0.17	83.20
Johor	459.42	0.00	8.02	149.69	707.57	3.78	14.57	14.47	1,357.52
Pahang	5.64	0.00	0.00	0.00	819.44	0.00	0.00	0.00	825.08
Terengganu	2.74	0.00	0.00	0.08	94.74	0.49	1.37	0.00	99.42
Kelantan	6.25	0.00	0.00	0.00	37.15	0.03	1.30	0.00	44.73
Sarawak	18.95	0.00	0.00	0.00	636.88	12.05	0.00	7.24	675.12
Sabah	0.00	0.00	0.00	0.00	2,717.00	0.00	0.00	0.00	2,717.00
Jumlah/Total	1,623.42	0.06	14.35	149.77	9,685.25	24.46	18.34	84.45	11,600.10

Nota : Pelbagai - Termasuk Ikan Banding, Tanda, Dengkis, Cermin, Talang dan Lain - lain.

Note : Miscellaneous - Includes Milk Fish, Snapper, Rabbitfish, Horse Mackerel, Queenfish and Others.

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI KOLAM AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIES IKAN, 1998
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS
 BY STATE AND FISH SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri <i>State</i>	Siakap <i>Barramundi</i>	Kerapu <i>Grouper</i>	Jenahak <i>Mangrove Snapper</i>	Udang Putih <i>Banana Prawn</i>	Udang Harimau <i>Tiger Prawn</i>	Ketam <i>Mud crab</i>	Tilapia Merah <i>Red Tilapia</i>	Pelbagai <i>Miscellaneous</i>	Jumlah <i>Total</i>
Perlis	0.60	0.00	0.00	0.00	3,082.00	0.00	3.06	0.00	3,085.66
Kedah	356.70	1.31	0.00	0.00	11,553.85	6.45	0.00	0.00	11,918.31
Pulau Pinang	5,420.99	0.00	0.00	0.00	8,981.24	0.00	0.00	670.38	15,072.61
Perak	2,243.28	0.00	0.00	0.00	69,649.83	89.01	0.54	7.04	71,989.70
Selangor	4,804.15	0.00	35.04	0.00	29,101.55	3.59	0.00	0.61	33,944.94
Negeri Sembilan	3.15	0.00	0.00	0.00	3,393.25	0.00	0.00	0.00	3,396.40
Melaka	37.35	0.00	41.63	0.00	2,246.02	0.00	2.50	0.85	2,328.35
Johor	5,949.49	0.00	107.39	4,427.83	20,951.15	31.11	72.85	176.82	31,716.64
Pahang	77.32	0.00	0.00	0.00	16,249.50	0.00	0.00	0.00	16,326.82
Terengganu	29.84	0.00	0.00	1.14	2,036.91	3.08	6.63	0.00	2,077.60
Kelantan	59.56	0.00	0.00	0.00	920.95	0.18	7.76	0.00	988.45
Sarawak	187.17	0.00	0.00	0.00	20,181.62	129.85	0.00	43.88	20,542.52
Sabah	0.00	0.00	0.00	0.00	95,095.00	0.00	0.00	0.00	95,095.00
Jumlah/Total	19,169.60	1.31	184.06	4,428.97	283,442.87	263.27	93.34	899.58	308,483.00

Nota: Pelbagai - Termasuk Ikan Banding, Tanda, Dengkis, Cermin, Talang dan Lain - lain.

Note: Miscellaneous - Includes Milk Fish, Snapper, Rabbitfish, Horse Mackerel, Queenfish and Others.

MALAYSIA
ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI KOLAM AIRPAYAU/MASIN
MENGIKUT NEGERI DAN SPESIES IKAN, 1998
ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS
BY STATE AND FISH SPECIES, 1998
(NILAI DALAM RM '000/VALUE IN RM '000)

Negeri <i>State</i>	Siakap <i>Barramundi</i>	Kerapu <i>Grouper</i>	Jenahak <i>Mangrove Snapper</i>	Udang Putih <i>Banana Prawn</i>	Udang Harimau <i>Tiger Prawn</i>	Ketam <i>Mud Crab</i>	Tilapia Merah <i>Red Tilapia</i>	Pelbagai <i>Miscellaneous</i>	Jumlah <i>Total</i>
Perlis	0.72	0.00	0.00	0.00	4,006.60	0.00	4.08	0.00	4,011.40
Kedah	415.29	1.47	0.00	0.00	13,160.77	8.00	0.00	0.00	13,585.53
Pulau Pinang	6,912.68	0.00	0.00	0.00	10,460.59	0.00	0.00	670.38	18,043.65
Perak	2,674.94	0.00	0.00	0.00	85,287.46	114.27	0.70	7.04	88,084.41
Selangor	5,055.08	0.00	41.91	0.00	33,148.37	4.28	0.00	0.66	38,250.30
Negeri Sembilan	3.90	0.00	0.00	0.00	3,797.50	0.00	0.00	0.00	3,801.40
Melaka	42.28	0.00	46.62	0.00	2,333.83	0.00	2.88	1.19	2,426.80
Johor	7,231.27	0.00	131.93	5,203.22	23,512.55	39.69	100.24	237.89	36,456.79
Pahang	95.65	0.00	0.00	0.00	21,305.44	0.00	0.00	0.00	21,401.09
Terengganu	29.84	0.00	0.00	1.28	2,036.91	3.08	6.63	0.00	2,077.74
Kelantan	72.31	0.00	0.00	0.00	1,010.85	0.23	8.98	0.00	1,092.37
Sarawak	233.77	0.00	0.00	0.00	23,211.90	173.25	0.00	58.11	23,677.03
Sabah	0.00	0.00	0.00	0.00	95,095.00	0.00	0.00	0.00	95,095.00
Jumlah/Total	22,767.73	1.47	220.46	5,204.50	318,367.77	342.80	123.51	975.27	348,003.51

Nota: Pelbagai - Termasuk Ikan Banding, Tanda, Dengkis, Cermin, Talang dan Lain - lain.
 Note: Miscellaneous - Includes Milk Fish, Snapper, Rabbitfish, Horse Mackerel, Queenfish and Others.

JADUAL(TABLE) 21.1

MALAYSIA
BILANGAN DAN LUAS SANGKAR AIRPAYAU YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1998
NUMBER AND AREA OF BRACKISHWATER CAGES IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Sangkar Airpayau <i>Brackishwater Cages</i>		Bilangan Penternak <i>No. Of Culturists</i>				
	Bilangan Number	Luas (M2) Area(M2)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	100	250.00	0	2	0	0	2
Kedah	2,916	31,693.22	89	19	0	2	110
Pulau Pinang	23,300	209,633.00	102	208	5	4	319
Perak	20,185	159,129.00	27	179	1	0	207
Selangor	6,479	111,523.54	1	30	0	0	31
Negeri Sembilan	0	0.00	0	0	0	0	0
Melaka	184	3,132.57	1	1	0	1	3
Johor	5,375	122,896.68	70	94	1	4	169
Pahang	29	263.00	8	0	0	0	8
Terengganu	781	7,764.04	63	0	0	0	63
Kelantan	1,056	21,812.00	128	2	0	1	131
Sarawak	860	8,061.62	629	0	0	0	629
Sabah	1,202	31,071.00	0	12	0	266	278
Jumlah/Total:	62,467	707,229.67	1,118	547	7	278	1,950

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI SANGKAR AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIS IKAN, 1998
 ESTIMATED FISH PRODUCTION FROM BRACKISHWATER/MARINE CAGES
 BY STATE AND FISH SPECIES, 1998
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri State	Siakap Barramundi	Siakap Merah Mangrove Red Snapper	Kerapu Grouper	Jenahak Mangrove Snapper	Merah Red Snapper	Udang Putih Banana Prawn	Udang Harimau Tiger Prawn	Ketam Mud Crab	Ketam Telur Berried Crabs	Tilapia Merah Red Tilapia	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.98	0.00	0.00	0.00	25.98
Kedah	34.56	0.00	21.41	5.02	0.54	0.00	0.00	0.00	0.00	0.00	1.99	63.52
Pulau Pinang	774.13	942.70	30.18	74.52	0.00	0.00	0.00	7.53	7.10	0.00	0.00	1,836.16
Perak	465.10	104.40	94.75	556.05	0.00	0.00	0.00	166.61	0.00	0.00	0.01	1,386.92
Selangor	253.27	590.99	37.80	101.69	0.00	0.00	0.00	5.35	0.00	0.00	204.93	1,194.03
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.69
Johor	353.49	0.00	101.72	571.70	64.56	0.00	0.00	1.18	0.00	1.10	94.84	1,188.59
Pahang	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	1.48
Terengganu	27.36	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00	8.46	0.00	36.89
Kelantan	21.51	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	7.82	0.00	30.06
Sarawak	48.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	55.80
Sabah	0.00	0.00	178.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	198.00
Jumlah/Total	1,984.90	1,638.09	465.66	1,308.98	65.10	0.00	0.00	206.65	7.10	17.87	328.77	6,023.12

Nota : Pelbagai - Termasuk Ikan Tanda, Dengkis, Cermin, Talang dan Lain-lain.

Nota : Miscellaneous - Includes Snapper, Rabbitfish, Horse Mackerel, Queenfish and Others.

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI SANGKAR AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIES IKAN, 1998
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM BRACKISWATER/MARINE CAGES
 BY STATE AND FISH SPECIES, 1998
 (NILAI DALAM RM'000/VALUE IN RM'000)

Negeri State	Siakap Barramundi	Siakap Merah Mangrove Red Snapper	Kerapu Grouper	Jenahak Mangrove Snapper	Merah Red Snapper	Udang Putih Banana Prawn	Udang Harimau Tiger Prawn	Ketam Mud Crab	Ketam Telur Berried Crabs	Tilapia Merah Red Tilapia	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	311.76	0.00	0.00	0.00	311.76
Kedah	429.24	0.00	468.45	68.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	966.51
Pulau Pinang	8,074.18	7,475.61	889.10	1,074.58	0.00	0.00	0.00	80.72	152.08	0.00	0.00	17,746.27
Perak	6,018.39	1,039.82	2,682.37	7,300.94	0.00	0.00	0.00	2,042.64	0.00	0.00	0.11	19,084.27
Selangor	3,006.31	5,029.32	712.15	1,187.74	0.00	0.00	0.00	64.04	0.00	0.00	6,256.51	16,256.07
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	60.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.71
Johor	4,577.70	0.00	2,587.76	7,655.06	1,046.52	0.00	0.00	9.71	0.00	5.50	1,158.94	17,041.19
Pahang	13.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.71	0.00	17.28
Terengganu	297.95	0.00	25.39	0.00	0.00	0.00	0.00	0.00	0.00	40.95	0.00	364.29
Kelantan	204.99	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	46.69	0.00	261.08
Sarawak	381.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.32	435.52
Sabah	0.00	0.00	9,434.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,600.00	11,034.00
Jumlah/Total	23,064.24	13,544.75	16,808.62	17,287.14	1,046.52	0.00	0.00	2,508.87	152.08	96.85	9,069.88	83,578.95

Nota : Pelbagai - Termasuk Ikan Tanda, Dengkis, Cermin, Talang dan Lain - lain.

Note : Miscellaneous - Includes Snapper, Rabbitfish, Horse Mackerel, Queenfish and Others.

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI SANGKAR AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIS IKAN, 1998
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE CAGES
 BY STATE AND FISH SPECIES, 1998
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Siakap <i>Barramundi</i>	Siakap Merah <i>Mangrove Red Snapper</i>	Kerapu <i>Grouper</i>	Jenahak <i>Mangrove Snapper</i>	Merah <i>Red Snapper</i>	Udang Putih <i>Banana Prawn</i>	Udang Harimau <i>Tiger Prawn</i>	Ketam <i>Mud Crab</i>	Ketam Telur <i>Berried Crabs</i>	Tilapia Merah <i>Red Tilapia</i>	Pelbagai <i>Miscellaneous</i>	Jumlah <i>Total</i>
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	415.68	0.00	0.00	0.00	415.68
Kedah	499.74	0.00	523.69	75.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,098.73
Pulau Pinang	10,295.93	9,785.23	946.44	1,210.95	0.00	0.00	0.00	91.79	155.63	0.00	0.00	22,485.97
Perak	7,176.49	1,337.36	3,152.33	8,618.78	0.00	0.00	0.00	2,622.44	0.00	0.00	0.11	22,907.51
Selangor	3,163.34	6,175.85	826.31	1,420.61	0.00	0.00	0.00	76.40	0.00	0.00	6,781.13	18,443.64
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	68.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.74
Johor	5,563.93	0.00	2,980.40	9,404.47	1,191.78	0.00	0.00	12.39	0.00	7.57	1,559.17	20,719.71
Pahang	16.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.96	0.00	22.75
Terengganu	297.95	0.00	25.39	0.00	0.00	0.00	0.00	0.00	0.00	40.95	0.00	364.29
Kelantan	248.87	0.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	54.04	0.00	313.31
Sarawak	655.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.00	750.20
Sabah	0.00	0.00	9,434.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,600.00	11,034.00
Jumlah/Total	27,986.98	17,298.44	17,898.96	20,730.11	1,191.78	0.00	0.00	3,218.70	155.63	108.52	10,035.41	98,624.53

Nota: Pelbagai - Termasuk Ikan-Ikan seperti Tanda, Dengkis, Cermin, Talang dan Lain - lain.

Note: Miscellaneous - Includes Snapper, Rabbitfish and Horse Mackerel, Queenfish and Others.

JADUAL(TABLE) 22.1

MALAYSIA
BILANGAN DAN LUAS KAWASAN TERNAKAN KERANG
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1998
NUMBER AND AREA OF COCKLE CULTURE AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Ternakan Kerang Cockles Culture		Bilangan Penternak No. Of Culturists				
	Bilangan Number	Luas Kawasan LTS (Ha) TOL Area(Ha)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	0	0.00	0	0	0	0	0
Kedah	2	39.29	2	0	0	0	2
Pulau Pinang	63	768.00	2	27	0	22	51
Perak	206	2,377.86	26	152	0	25	203
Selangor	26	1,036.07	17	3	0	6	26
Negeri Sembilan	0	0.00	0	0	0	0	0
Melaka	0	0.00	0	0	0	0	0
Johor	3	50.79	1	1	0	1	3
Pahang	0	0.00	0	0	0	0	0
Terengganu	0	0.00	0	0	0	0	0
Kelantan	0	0.00	0	0	0	0	0
Sarawak	0	0.00	0	0	0	0	0
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	300	4,272.01	48	183	0	54	285

JADUAL (TABLE) 22.2

MALAYSIA
PENGELUARAN KERANG DEWASA MENGIKUT BULAN DAN NEGERI, 1998
PRODUCTION OF COCKLES BY MONTH AND STATE, 1998
(KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

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
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103.10	20.98	12.17	19.87	18.93	175.05
Pulau Pinang	1,023.32	847.40	825.07	716.93	556.06	455.26	657.86	830.05	1,613.71	1,820.47	1,549.79	2,271.16	13,167.08
Perak	3,302.05	3,447.96	4,108.93	3,798.61	4,007.67	3,668.31	4,566.77	5,108.08	5,105.00	5,515.10	5,699.25	6,178.79	54,506.52
Selangor	1,066.43	1,742.30	1,871.74	1,167.07	1,195.53	1,180.83	1,130.34	977.75	1,058.85	740.74	709.16	946.89	13,787.63
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	1.50	7.50	8.00	9.00	8.50	9.00	6.00	3.00	6.50	7.50	6.00	8.00	80.50
Johor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelantan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total:	5,393.30	6,045.16	6,813.74	5,691.61	5,767.76	5,313.40	6,360.97	7,021.98	7,805.04	8,095.98	7,984.07	9,423.77	81,716.78

JADUAL (TABLE) 22.3

MALAYSIA
 PENGELUARAN BENIH KERANG MENGIKUT BULAN DAN NEGERI, 1998
 PRODUCTION OF COCKLES SEEDS BY MONTH AND STATE, 1998
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

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
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.48	80.27	144.75
Perak	192.19	163.67	0.00	0.00	12.00	24.00	59.58	0.00	630.36	0.00	0.00	0.00	1,081.80
Selangor	204.11	0.00	0.00	207.11	7.98	119.10	0.00	0.00	0.00	0.00	0.00	0.00	538.30
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelantan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jumlah/Total:	396.30	163.67	0.00	207.11	19.98	143.10	59.58	0.00	630.36	0.00	64.48	80.27	1,764.85

MALAYSIA
BILANGAN DAN LUAS KAWASAN TERNAKAN SIPUT SUDU
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1998
NUMBER AND AREA OF MUSSEL CULTURE AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Ternakan Siput Sudu Mussel Culture		Bilangan Penternak No. Of Culturists				
	Bilangan Number	Luas (M2) Area(M2)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	0	0.00	0	0	0	0	0
Kedah	5	761.07	3	0	0	0	3
Pulau Pinang	0	0.00	0	0	0	0	0
Perak	0	0.00	0	0	0	0	0
Selangor	5	561.00	3	0	0	1	4
Negeri Sembilan	25	4,339.00	20	2	0	3	25
Melaka	48	6,317.14	35	0	0	2	37
Johor	332	51,593.57	51	18	0	8	77
Pahang	0	0.00	0	0	0	0	0
Terengganu	0	0.00	0	0	0	0	0
Kelantan	0	0.00	0	0	0	0	0
Sarawak	0	0.00	0	0	0	0	0
Sabah	109	1,930.00	0	0	0	108	108
Jumlah/Total:	524	65,501.78	112	20	0	122	254

JADUAL (TABLE) 23.2

MALAYSIA
PENGELUARAN SIPUT SUDU MENGIKUT BULAN DAN NEGERI, 1998
PRODUCTION OF MUSSELS BY MONTH AND STATE, 1998
(KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

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
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.70	0.71	0.52	0.71	0.51	0.00	0.40	0.35	0.30	0.35	0.35	1.94	6.84
Pulau Pinang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Selangor	0.32	0.00	0.07	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
Negeri Sembilan	5.70	0.80	1.90	2.80	0.55	16.00	1.30	1.95	3.20	2.79	4.64	2.30	43.93
Melaka	16.21	21.57	24.80	18.49	14.25	13.40	13.15	7.70	13.97	16.25	15.00	16.10	190.89
Johor	88.41	80.72	90.33	78.80	144.91	78.61	32.94	17.57	22.83	21.53	21.06	39.19	716.90
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kelantan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.28	2.26	2.26	2.26	2.26	27.14
Jumlah/Total:	113.60	106.06	119.88	103.34	162.48	110.27	50.05	29.85	42.56	43.18	43.31	61.79	986.37

MALAYSIA
BILANGAN DAN LUAS KAWASAN TERNAKAN TIRAM
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1998
NUMBER AND AREA OF OYSTER CULTURE AND NUMBER
OF CULTURISTS BY RACE AND STATE, 1998

Negeri State	Ternakan Tiram Oyster Culture		Bilangan Penternak No. Of Culturists				
	Bilangan Number	Luas (M2) Area(M2)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	Jumlah Total
Perlis	0	0.00	0	0	0	0	0
Kedah	22	1,460.10	2	0	0	0	2
Pulau Pinang	20	153.00	1	1	0	0	2
Perak	0	0.00	0	0	0	0	0
Selangor	0	0.00	0	0	0	0	0
Negeri Sembilan	0	0.00	0	0	0	0	0
Melaka	0	0.00	0	0	0	0	0
Johor	7	7,000.00	10	0	0	0	10
Pahang	0	0.00	0	0	0	0	0
Terengganu	19	16,887.00	27	0	0	0	27
Kelantan	33	1,391.46	12	0	0	0	12
Sarawak	0	0.00	0	0	0	0	0
Sabah	103	50,350.20	0	0	0	100	100
Jumlah/Total:	204	77,241.76	52	1	0	100	153

JADUAL (TABLE) 24.2

MALAYSIA
 PENGELUARAN TIRAM MENGIKUT BULAN DAN NEGERI, 1998
 PRODUCTION OF OYSTER BY MONTH AND STATE, 1998
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

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
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.53	0.47	0.00	0.43	0.43	0.40	0.47	0.50	0.53	0.50	0.53	0.53	5.32
Pulau Pinang	0.25	0.27	0.30	0.25	0.28	0.27	0.18	0.13	0.20	0.13	0.50	0.48	3.24
Perak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Selangor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johor	0.49	0.51	0.47	0.50	0.40	0.51	0.46	0.40	0.52	0.39	0.44	0.59	5.68
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	3.32	3.17	3.18	3.12	10.62	3.24	3.19	3.20	3.10	3.71	0.13	0.00	39.98
Kelantan	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.09	0.00	0.07	0.00	0.00	0.33
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	6.93	6.93	6.93	6.93	6.93	6.92	6.93	6.93	6.93	6.93	6.93	6.93	83.15
Jumlah/Total:	11.52	11.35	10.98	11.23	18.66	11.41	11.23	11.25	11.28	11.73	8.53	8.53	137.70

MALAYSIA
HARGA BORONG IKAN AIRTAWAR DI PASAR-PASAR UTAMA MENGIKUT
NEGERI DAN SPESIES IKAN, 1998
WHOLESALE PRICES OF FRESHWATER FISH AT MAJOR MARKETS
BY STATE AND FISH SPECIES, 1998
(RM/KG)

Jenis/Negeri <i>Species/State</i>	Lampam Jawa <i>Javanese Carp</i>	Lee Koh <i>Common Carp</i>	Kap Rumput <i>Grass Carp</i>	Kap Kepala Besar <i>Big Head Carp</i>	Udang Galah Giant <i>Fresh- water Prawn</i>	Tilapia Hitam <i>Black Tilapia</i>	Tilapia Merah <i>Red Tilapia</i>	Jelawat <i>River Carp</i>	Keli <i>Fresh- water Catfish</i>	Ketutu <i>Goby</i>	Belut <i>Eel</i>	Patin <i>River Catfish</i>	Toman <i>Giant Snake- head</i>	Baung <i>River Catfish</i>	Pelbagai <i>Miscell- aneous</i>
Perlis	3.00	3.00	0.00	0.00	15.00	3.50	3.50	6.00	3.00	0.00	0.00	0.00	0.00	0.00	3.13
Kedah	3.00	4.38	3.21	3.48	17.83	3.00	4.17	9.38	3.67	13.75	0.00	3.00	0.00	6.71	2.50
Pulau Pinang	4.14	0.00	0.00	0.00	21.67	0.00	4.39	13.67	3.51	0.00	5.52	0.00	0.00	0.00	0.00
Perak	4.18	4.18	4.52	2.63	21.52	3.00	3.83	7.16	3.49	38.98	3.83	4.14	2.64	8.18	1.98
Selangor	4.62	3.97	4.58	2.97	21.78	3.62	4.91	7.25	3.12	44.92	0.00	2.88	7.45	8.54	3.57
Negeri Sembilan	3.55	3.62	3.52	2.38	25.83	3.10	3.80	5.30	3.20	35.00	0.00	3.03	0.00	8.23	3.27
Melaka	3.56	3.78	3.43	2.29	20.45	3.22	3.76	4.28	2.92	29.54	0.00	2.90	0.00	0.00	5.00
Johor	3.63	3.83	3.97	3.00	21.45	3.13	4.61	7.22	3.42	44.62	0.00	4.30	5.72	9.31	5.39
Pahang	4.42	4.00	4.25	3.58	22.67	3.00	4.58	8.83	3.04	31.58	16.80	7.58	4.92	14.25	4.25
Terengganu	4.03	3.88	3.83	4.17	15.63	4.24	4.42	7.07	4.07	27.08	0.00	5.57	3.28	7.58	2.83
Kelantan	5.07	5.34	5.67	4.41	15.74	4.35	4.71	7.86	3.96	25.68	0.00	4.92	4.44	8.04	4.42
Sarawak	5.00	4.00	0.00	0.00	17.00	4.00	6.50	7.00	6.20	0.00	0.00	6.50	0.00	9.00	0.00
Sabah	6.00	8.00	10.00	7.00	10.00	7.00	8.00	10.00	6.00	35.00	0.00	8.00	0.00	6.00	6.00
Harga Bertimbang <i>Weighted price</i>	5.16	6.27	4.66	2.78	22.62	6.71	4.81	7.73	3.24	33.77	16.80	5.99	5.60	8.41	3.87

Nota: Pelbagai - Termasuk Ikan-Ikan Haruan, dan Sepat Siam
Note: Miscellaneous - Includes Snake Head, and Snakeskin Gouramy

JADUAL (TABLE) 25.2

MALAYSIA
HARGA RUNCIT IKAN AIRTAWAR DI PASAR-PASAR UTAMA MENGIKUT
NEGERI DAN SPESIES IKAN, 1998
RETAIL PRICES OF FRESHWATER FISH AT MAJOR MARKETS
BY STATE AND FISH SPECIES, 1998
(RM/KG)

Jenis/Negeri <i>Species/State</i>	Lampam Jawa <i>Javanese Carp</i>	Lee Koh <i>Common Carp</i>	Kap Rumput <i>Grass Carp</i>	Kap Kepala Besar <i>Big Head Carp</i>	Udang Galah <i>Giant Fresh- water Prawn</i>	Tilapia Hitam <i>Black Tilapia</i>	Tilapia Merah <i>Red Tilapia</i>	Jelawat <i>River Carp</i>	Keli <i>Fresh- water Catfish</i>	Ketutu <i>Goby</i>	Belut <i>Eel</i>	Patin <i>River Catfish</i>	Toman <i>Giant Snake- head</i>	Baung <i>River Catfish</i>	Pelbagai <i>Miscell- aneous</i>
Perlis	4.50	4.50	0.00	0.00	20.00	4.50	4.50	8.00	4.50	0.00	0.00	0.00	0.00	0.00	4.56
Kedah	4.50	5.71	4.50	4.50	20.17	4.50	5.00	11.83	5.71	30.00	0.00	5.00	0.00	8.50	3.00
Pulau Pinang	5.58	0.00	0.00	0.00	27.59	0.00	5.45	13.67	5.10	0.00	6.35	0.00	0.00	0.00	0.00
Perak	5.76	6.24	6.32	4.24	28.08	4.78	5.50	10.00	5.15	50.26	5.61	6.29	3.82	11.21	3.07
Selangor	6.47	6.04	6.34	4.13	25.84	4.94	6.44	9.70	4.90	55.58	0.00	4.79	8.41	11.18	5.31
Negeri Sembilan	5.95	6.45	6.04	4.26	31.02	4.82	5.79	8.72	5.89	50.00	0.00	5.53	0.00	11.63	5.38
Melaka	5.11	5.36	4.85	3.00	26.93	3.90	5.30	5.87	4.50	37.25	0.00	4.28	0.00	0.00	7.00
Johor	4.61	5.27	5.05	5.00	25.78	4.71	6.24	8.68	5.05	52.87	0.00	6.00	7.45	11.93	6.74
Pahang	7.92	6.58	6.75	5.75	29.08	4.00	7.29	14.42	4.96	37.50	16.80	10.00	6.92	17.58	6.00
Terengganu	5.31	5.36	5.95	5.92	19.30	5.65	5.69	8.87	5.89	31.37	0.00	7.65	4.87	10.76	4.68
Kelantan	6.71	7.43	7.43	5.72	19.00	5.76	6.09	10.14	5.64	30.96	0.00	6.48	5.67	10.33	5.66
Sarawak	9.00	8.00	0.00	0.00	18.00	8.00	8.50	10.00	13.00	0.00	0.00	9.00	0.00	14.00	0.00
Sabah	8.00	10.00	10.00	8.00	12.00	8.00	10.00	12.00	8.00	40.00	0.00	10.00	0.00	7.00	6.00
Harga Bertimbang <i>Weighted price</i>	7.27	8.74	6.54	4.38	28.90	7.75	6.63	10.33	4.99	40.12	16.80	8.22	7.37	11.31	5.50

Nota: Pelbagai - Termasuk Ikan-Ikan Haruan, dan Sepat Siam
 Note: Miscellaneous - Includes Snake Head, and Snakeskin Gouramy

MALAYSIA
HARGA BORONG IKAN AIRPAYAU/MASIN DI PASAR-PASAR UTAMA MENGIKUT
NEGERI DAN SPESIES IKAN, 1998
WHOLESALE PRICES OF BRACKISHWATER/MARINE FISH AT MAJOR MARKETS
BY STATE AND FISH SPECIES, 1998
(RM/KG)

JADUAL (TABLE) 26.1

Negeri State	Slakap Barramundi	Slakap Merah Mangrove Red Snapper	Kerapu Grouper	Jenahak Mangrove Snapper	Merah Red Snapper	Udang Putih Banana Prawn	Ketam Mud Crab	Ketam Telur Berried Crabs	Udang Harimau Tiger Prawn	Kerang Cockles	Siput Sudu Mussels	Tilapia Merah Red Tilapia	Tiram Oyster	Pelbagai Miscellaneous
Perlis	10.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00	20.00	0.00	0.00	6.00	0.00	0.00
Kedah	12.42	0.00	21.88	13.71	0.00	0.00	11.73	0.00	23.08	0.75	1.04	0.00	10.00	0.00
Pulau Pinang	10.43	7.93	29.46	14.42	0.00	0.00	10.72	21.42	23.92	0.70	0.00	5.00	14.50	10.83
Perak	12.94	9.96	28.31	13.13	0.00	0.00	12.26	0.00	29.04	0.80	0.00	6.00	0.00	10.83
Selangor	11.87	8.51	18.84	11.68	0.00	0.00	11.97	0.00	27.83	0.73	0.97	4.80	0.00	30.53
Negeri Sembilan	10.50	0.00	14.50	14.00	0.00	0.00	0.00	0.00	27.70	0.00	1.30	0.00	0.00	0.00
Melaka	10.67	0.00	0.00	12.50	0.00	0.00	0.00	0.00	29.67	1.00	0.82	5.00	0.00	5.00
Johor	12.95	0.00	25.44	13.39	16.21	29.58	8.23	0.00	29.61	0.00	0.44	5.00	27.17	12.22
Pahang	13.71	0.00	14.75	9.08	7.92	0.00	7.25	0.00	19.83	0.52	0.00	7.58	0.00	0.00
Terengganu	10.89	0.00	23.73	0.00	0.00	14.20	6.29	0.00	21.50	0.00	0.00	4.84	12.58	0.00
Kelantan	9.53	0.00	12.88	0.00	10.00	30.67	6.13	0.00	24.79	0.00	0.00	5.97	11.25	0.00
Sarawak	8.84	0.00	0.00	0.00	0.00	0.00	10.78	0.00	31.69	0.00	0.00	0.00	0.00	6.91
Sabah	0.00	0.00	53.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	2.00	0.00	30.00	80.00
Harga Bertimbang Weighted Price	11.70	8.27	36.09	13.20	16.08	29.57	11.99	21.42	29.27	0.77	0.60	5.25	23.64	24.13

Nota: Pelbagai - Termasuk Ikan-ikan Tanda, Dengkis, Cupak/Cermin dan Talang.
Nota: Miscellaneous - Includes Snapper, Rabbit fish, Horse Mackerel and Queenfish.

JADUAL (TABLE) 26.2

MALAYSIA
HARGA RUNCIT IKAN AIRPAYAU/MASIN DI PASAR-PASAR UTAMA MENGIKUT
NEGERI DAN SPESIES IKAN, 1998
RETAIL PRICES OF BRACKISHWATER/MARINE FISH AT MAJOR MARKETS
BY STATE AND FISH SPECIES, 1998
(RM/KG)

Negeri State	Siakap <i>Barramundi</i>	Siakap Merah <i>Mangrove Red Snapper</i>	Kerapu <i>Grouper</i>	Jenahak <i>Mangrove Snapper</i>	Merah <i>Red Snapper</i>	Udang Putih <i>Banana Prawn</i>	Ketam <i>Mud Crab</i>	Ketam Telur <i>Berried Crabs</i>	Udang Harimau <i>Tiger Prawn</i>	Kerang <i>Cockles</i>	Siput Sudu <i>Mussels</i>	Tilapia Merah <i>Red Tilapia</i>	Tiram <i>Oyster</i>	Pelbagai <i>Miscellaneous</i>
Perlis	12.00	0.00	0.00	0.00	0.00	0.00	16.00	0.00	26.00	0.00	0.00	8.00	0.00	0.00
Kedah	14.46	0.00	24.46	15.00	0.00	0.00	14.55	0.00	26.29	1.20	1.54	0.00	15.00	0.00
Pulau Pinang	13.30	10.38	31.36	16.25	0.00	0.00	12.19	21.92	27.86	0.81	0.00	6.00	14.50	10.83
Perak	15.43	12.81	33.27	15.50	0.00	0.00	15.74	0.00	35.56	1.33	0.00	7.75	0.00	10.83
Selangor	12.49	10.45	21.86	13.97	0.00	0.00	14.28	0.00	31.70	1.35	1.50	6.43	0.00	33.09
Negeri Sembilan	13.00	0.00	18.00	18.00	0.00	0.00	0.00	0.00	31.00	0.00	1.48	0.00	0.00	0.00
Melaka	12.08	0.00	0.00	14.00	0.00	0.00	0.00	0.00	30.83	1.19	1.00	5.75	0.00	5.00
Johor	15.74	0.00	29.30	16.45	18.46	34.76	10.50	0.00	33.23	0.00	0.72	6.88	30.42	16.44
Pahang	16.96	0.00	19.92	13.33	11.33	0.00	11.33	0.00	26.00	0.81	0.00	12.17	0.00	0.00
Terengganu	10.89	0.00	23.73	0.00	0.00	16.00	6.29	0.00	21.50	0.00	0.00	4.84	12.58	0.00
Kelantan	11.57	0.00	14.25	0.00	12.00	33.58	7.54	0.00	27.21	0.00	0.00	6.91	12.25	0.00
Sarawak	12.89	0.00	0.00	0.00	0.00	0.00	14.38	0.00	36.45	0.00	0.00	0.00	0.00	10.80
Sabah	0.00	0.00	53.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	2.00	0.00	30.00	80.00
Harga Bertimbang <i>Weighted Price</i>	14.07	10.56	38.44	15.83	18.31	34.75	15.41	21.92	32.87	1.25	0.85	6.41	23.97	26.65

Nota: Pelbagai - Termasuk Ikan-ikan Tanda, Dengkis, Cupak/Cermin dan Talang.
Nota: Miscellaneous - Includes Snapper, Rabbit fish, Horse Mackerel and Queenfish.

MALAYSIA
PENGELUARAN IKAN HIASAN MENGIKUT NEGERI, 1998
PRODUCTION OF ORNAMENTAL FISH BY STATE, 1998
(BILANGAN DALAM EKOR / NUMBER IN PIECES)

JADUAL (TABLE) 27.1

Negeri/Kumpulan State/Group	Cyprinids Barb/Danio	Cyprinids Goldfish/Koi	Anabantids	Poeciliids	Characins	Cichlids	Osteoglossids	Catfish	Loach	Aquatic Plants	Lain-Lain Others	Jumlah Total
Pertis	0	0	0	0	0	0	0	0	0	0	0	0
Kedah	0	10	0	29,360	0	0	0	2,000	0	0	0	31,370
Pulau Pinang	556,069	118,805	206,540	1,437,837	103,270	4,530,448	6,885	752,018	0	0	0	7,711,872
Perak	26,697,060	35,324,432	391,562	5,012,020	0	2,975,896	0	0	0	0	0	70,400,970
Selangor	3,177,696	6,179,573	0	2,013,166	742,092	606,993	38,056	1,056,059	0	0	1,331,965	15,145,600
Negeri Sembilan	10,950	17,300	0	27,000	4,500	5,500	0	0	0	0	0	65,250
Melaka	1,000	61,000	0	20,000	0	23,000	0	0	0	0	500	105,500
Johor	47,682,540	21,800,154	11,944,410	96,458,506	12,740,674	5,357,337	264,996	2,297,504	0	32,088,232	434,698	231,069,051
Pahang	0	0	0	0	0	0	0	0	0	0	0	0
Terengganu	0	0	0	0	0	0	0	0	0	0	0	0
Kelantan	0	0	0	11,263	0	0	0	0	0	0	0	11,263
Sarawak												0
Sabah	0	664	0	1,249	0	107	0	50	0	0	24	2,094
Jumlah/Total	78,125,315	63,501,938	12,542,512	105,010,401	13,590,536	13,499,281	309,937	4,107,631	0	32,088,232	1,767,187	324,542,970

JADUAL (TABLE) 27.2

MALAYSIA
PENGELUARAN DAN NILAI IKAN HIASAN MENGIKUT NEGERI, 1998
PRODUCTION AND VALUE OF ORNAMENTAL FISH BY STATE, 1998
(BILANGAN DALAM EKOR / NUMBER IN PIECES)

Negeri State	Pengeluaran(Ekor) Production(Pieces)	Nilai (RM) Value (RM)
Perlis	0	0.00
Kedah	31,370	6,163.00
Pulau Pinang	7,711,872	3,464,554.00
Perak	70,400,970	14,940,565.00
Selangor	15,145,600	2,828,458.00
Negeri Sembilan	65,250	6,925.00
Melaka	105,500	20,887.00
Johor	231,069,051	49,120,314.00
Pahang	0	0.00
Terengganu	0	0.00
Kelantan	11,263	2,196.00
Sarawak	0	0.00
Sabah	2,094	11,419.00
Jumlah/Total	324,542,970	70,401,481.00

JADUAL (TABLE) 28.1

MALAYSIA
BILANGAN DAN PENGELUARAN PUSAT PENGELUARAN BENIH IKAN/UDANG SWASTA
MENGIKUT NEGERI, 1998
NUMBER AND PRODUCTION OF PRIVATE FISH/PRAWN FOR HATCHERY CENTRES
BY STATE, 1998

Negeri <i>State</i>	Bilangan <i>Numbers</i>	Pengeluaran (Juta Ekor) <i>Production (Million Pieces)</i>	
		Benih Udang <i>Prawn Fry</i>	Benih ikan <i>Fish Fry</i>
Perlis	2	0.00	0.00
Kedah	26	76.00	64.98
Pulau Pinang	12	200.00	2.17
Perak	35	290.02	14.84
Selangor	28	82.20	121.41
Negeri Sembilan	8	0.40	5.41
Melaka	12	2.49	15.24
Johor	13	750.41	0.00
Pahang	4	34.20	2.86
Terengganu	3	0.00	0.00
Kelantan	6	0.00	2.41
Sarawak	10	239.30	0.00
Sabah	23	602.00	0.11
Jumlah/Total	182	2,277.02	229.43

JADUAL (TABLE) 29.1

MALAYSIA
BILANGAN DAN PENGELUARAN KILANG " FEEDMILL "
MENGIKUT NEGERI, 1998
NUMBER AND PRODUCTION OF FEEDMILLS
BY STATE, 1998

Negeri <i>State</i>	Bilangan <i>Number</i>	Pengeluaran(Tan/Metrik) <i>Production (Tonnes)</i>
Perlis	1	540.00
Kedah	3	4,200.00
Pulau Pinang	1	131.83
Perak	6	22,956.00
Selangor	2	6,480.00
Negeri Sembilan	0	0.00
Melaka	1	1,200.00
Johor	3	6,695.25
Pahang	2	3,073.82
Terengganu	1	500.00
Kelantan	1	400.00
Sarawak	2	2,561.00
Sabah	8	27,231.00
Jumlah/Total	31	75,968.90

PERAIRAN UMUM

PUBLIC WATER BODIES

MALAYSIA
PENDARATAN IKAN AIRTAWAR DARI PERAIRAN UMUM /PERIKANAN DARAT
MENGIKUT BULAN DAN NEGERI, 1998
LANDINGS OF FRESHWATER FISH FROM PUBLIC WATERBODIES /INLAND FISHERIES
BY MONTH AND STATE, 1998
(KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

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
Perlis	0.94	0.98	0.86	0.83	0.90	1.00	1.06	1.10	1.22	1.15	1.13	1.07	12.24
Kedah	17.00	11.38	12.97	14.15	13.80	12.35	13.59	13.46	14.47	16.42	19.22	18.35	177.16
Pulau Pinang	2.50	1.67	1.60	1.98	0.87	0.45	0.56	1.99	1.92	3.27	2.64	4.46	23.91
Perak	94.18	102.65	74.67	81.92	73.93	68.14	82.28	70.08	84.71	83.74	88.06	105.78	1,010.14
Selangor	25.11	25.31	34.16	40.98	59.96	34.28	57.25	100.27	83.83	90.75	56.98	87.28	696.16
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	0.71	0.78	0.93	0.89	1.14	1.11	0.99	1.02	1.17	0.93	1.17	1.10	11.94
Johor	15.50	13.49	19.34	18.66	18.05	19.67	19.97	17.88	16.53	12.88	12.87	14.00	198.84
Pahang	22.74	24.04	25.76	19.97	22.01	21.47	18.66	16.64	21.67	24.46	23.36	32.59	273.37
Terengganu	10.55	11.44	7.14	6.67	6.19	5.77	6.70	6.11	6.39	7.42	8.64	12.40	95.42
Kelantan	11.45	14.47	13.99	13.88	12.99	12.03	10.81	10.20	11.21	11.37	10.22	11.70	144.32
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sabah	140.00	148.00	156.00	96.00	82.00	122.00	166.00	172.00	145.00	157.00	168.00	148.00	1,700.00
Jumlah/Total:	340.68	354.21	347.42	295.93	291.84	298.27	377.87	410.75	388.12	409.39	392.29	436.73	4,343.50

JADUAL(TABLE) 31.1

MALAYSIA
PENGELUARAN BENIH IKAN AIRTAWAR DARI PUSAT-PUSAT PEMBAIKBIK IKAN
KERAJAAN MENGIKUT PUSAT DAN SPESIS, 1998
PRODUCTION OF FRESHWATER FINGERLINGS FROM GOVERNMENT HATCHERIES
BY HATCHERY AND SPECIES, 1998

Spesies (Species) Pusat Pembaikbiak (Hatchery)	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Sepat Siam Snakeskin Gouramy	Tilapia Nilotika Tilapia Nilotica	Tilapia Merah Red Tilapia	Kap Kepala Besar Big Head Carp	Jelawat River Carp	Keli Freshwater Catfish	Baung River Catfish	Lain-Lain Others	Jumlah Total
PPAT Bukit Tinggi, Pahang.	621,320	0	0	0	134,765	0	0	201,000	3,690	837,400	1,798,175
PPA Jitra, Kedah.	474,573	0	2,860	0	716,430	0	0	471,779	0	5,280	1,670,922
PLPD Enggor, Perak	247,345	0	9,000	0	15,000	0	0	1,117,380	4,000	0	1,392,725
PPIAT Bt.Berendam, Melaka.	0	0	0	0	4,000	0	0	1,224,693	5,000	124,594	1,358,287
PPA Ajil, Terengganu.	0	0	0	0	31,100	0	0	153,200	0	0	184,300
PPA Tapah, Perak.	321,650	0	0	0	155,740	0	0	0	0	0	477,390
Sarawak	5,204,202	2,051,378	0	107,740	2,910,910	0	3,575,798	35,676	0	6,445,929	20,331,633
Sabah	250,348	290,247	0	1,205,394	1,168,503	0	0	0	0	3,529	2,918,021
Jumlah/Total	7,119,438	2,341,625	11,860	1,313,134	5,136,448	0	3,575,798	3,203,728	12,690	7,416,732	30,131,453

JADUAL(TABLE) 31.2

MALAYSIA
PENGELUARAN BENIH-BENIH IKAN/UDANG AIRPAYAU DAN UDANG GALAH DARI PUSAT-PUSAT
KERAJAAN MENGIKUT PUSAT DAN SPESIS, 1998
PRODUCTION OF BRACKISHWATER FISH/PRAWN FINGERLINGS FROM
GOVERNMENT HATCHERIES BY HATCHERY AND SPECIES, 1998

Spesis (<i>Species</i>) Pusat Penetasan (<i>Hatchery</i>)	Udang Galah <i>Giant Fresh water Prawn</i>	Udang Harimau <i>Tiger Prawn</i>	Udang Putih <i>Banana Prawn</i>	Siakap <i>Barramundi</i>	Lain-Lain <i>Others</i>	Jumlah <i>Total</i>
PPUG Kg. Aceh, Perak.	4,501,500	0	0	0	0	4,501,500
PPIUL Tg. Demong, Terengganu.	0	0	0	50,090,600	152,670,000	202,760,600
PPPBUK Kg. Pulau Sayak, Kedah.	709,600	4,040,000	265,000	139,346	58,260	5,212,206
PPTAP Gelang Patah, Johor.	0	0	0	40,000	15,000	55,000
Sarawak	401,500	600,150	0	102,240	0	1,103,890
Sabah	0	0	0	80000	781270	861,270
Jumlah/Total	5,612,600	4,640,150	265,000	50,452,186	153,524,530	214,494,466

MALAYSIA

PEMBAHAGIAN BENIH-BENIH IKAN UNTUK KEGUNAAN PELBAGAI DAN PELEPASAN

KE PERAIRAN UMUM MENGIKUT NEGERI DAN SPESIS IKAN, 1998.

DISTRIBUTION OF FRESHWATER FRY FOR MISCELLANEOUS PURPOSES AND RELEASED
INTO PUBLIC WATERBODIES BY STATE AND SPECIES, 1998

Negeri State	Kegunaan Pelbagai/Miscellaneous Purposes							Pelepasan Ke Perairan Umum/Released Into Public Waterbodies							Jumlah Grand Total
	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Keli Freshwater Catfish	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Pelbagai Others	Jumlah Kecil Sub Total	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Udang Galah Giant-Fresh- water Prawn	Tilapia Merah Red Tilapia	Baung River Catfish	Pelbagai Others	Jumlah Kecil Sub Total	
Perlis	1,100	0	3,333	0	4,103	0	8,536	0	0	0	0	0	0	0	8,536
Kedah	4,070	0	5,280	0	20,405	770	30,525	36,850	0	0	2,200	0	0	39,050	69,575
P.Pinang	0	0	0	0	0	0	0	70,000	0	350,000	20,000	0	0	440,000	440,000
Perak	35,270	0	7,000	0	27,420	14,500	84,190	359,700	0	300,000	0	0	9,000	668,700	752,890
Selangor	34,500	0	0	0	8,000	0	42,500	0	0	0	0	0	0	0	42,500
N.Sembilan	0	0	0	0	0	0	0	105,000	0	0	0	0	165,000	270,000	270,000
Melaka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Johor	0	0	94,000	0	129,000	13,300	236,300	3,000	0	40,000	0	3,000	63,000	109,000	345,300
Pahang	347,200	10,000	162,000	0	334,000	368,400	1,221,600	193,700	12,000	105,000	19,500	0	45,500	375,700	1,597,300
Terengganu	0	0	0	0	0	0	0	62,000	0	320,000	2,000	0	150,000	534,000	534,000
Kelantan	68,700	0	10,000	0	167,203	1,163,000	1,408,903	5,000	0	0	1,500	1,340	0	7,840	1,416,743
Sarawak	0	0	0	0	0	0	0	1,155,050	0	0	0	0	1,536,231	2,691,281	2,691,281
Sabah	247,623	211,607	0	1,196,220	1,155,950	2,610	2,814,010	0	0	0	1,800	0	23,000	24,800	2,838,810
Jumlah/ Total	738,463	221,607	281,613	1,196,220	1,846,081	1,562,580	5,846,564	1,990,300	12,000	1,115,000	47,000	4,340	1,991,731	5,160,371	11,006,935

MALAYSIA
PEMBAHAGIAN BENIH-BENIH IKAN AIRTAWAR KEPADA PENTERNAK
MENGIKUT NEGERI DAN SPESIS IKAN, 1998.
DISTRIBUTION OF FRESHWATER FISH FRY TO CULTURISTS
BY STATE AND SPECIES, 1998

JADUAL(TABLE) 31.4

Negeri <i>State</i>	Lampam Jawa <i>Javanese Carp</i>	Lee Koh <i>Common Carp</i>	Sepat Siam <i>Snakeskin Gouramy</i>	Patin <i>River Catfish</i>	Udang Galah <i>Giant Fresh water Prawn</i>	Tilapia Merah <i>Red Tilapia</i>	Keli <i>River Catfish</i>	Kap Rumput <i>Grass Carp</i>	Pelbagai <i>Others</i>	Jumlah <i>Total</i>
Perlis	11,915	0	0	0	0	102,822	129,019	0	0	243,756
Kedah	132,794	0	1,760	0	0	323,616	190,927	0	5,280	654,377
Pulau Pinang	37,450	0	0	0	0	41,050	148,900	0	0	227,400
Perak	182,445	0	0	0	1,427,169	161,260	129,100	6,030	210,050	2,116,054
Selangor	18,600	0	0	0	0	13,200	0	0	11,000	42,800
Negeri Sembilan	46,060	0	0	0	893,000	29,200	38,856	0	0	1,007,116
Melaka	0	0	0	0	0	1,000	6,500	0	0	7,500
Johor	0	0	0	1,500	0	129,000	94,000	0	11,800	236,300
Pahang	44,480	17,840	0	0	516,000	39,540	14,860	1,000	31,590	665,310
Terengganu	0	0	0	0	0	29,100	153,000	0	0	182,100
Kelantan	70,200	0	0	0	0	172,203	10,000	0	1,164,340	1,416,743
Sarawak	3,751,475	1,977,961	0	0	401,600	2,865,335	30,550	0	6,026,863	15,053,784
Sabah	247,623	211,607	0	0	0	1,137,480	0	0	1,217,300	2,814,010
Jumlah/Total	4,543,042	2,207,408	1,760	1,500	3,237,769	5,044,806	945,712	7,030	8,678,223	24,667,250

**KLASIFIKASI PERANGKAAN PIAWAIAN IKAN-IKAN
AIRTAWAR MALAYSIA**

***STANDARD STATISTICAL CLASSIFICATION OF COMMON
MALAYSIAN FRESHWATER FISHES***

DAN (AND)

**KLASIFIKASI PERANGKAAN PIAWAIAN IKAN-IKAN
LAUT MALAYSIA**

***STANDARD STATISTICAL CLASSIFICATION OF MALAYSIAN
MARINE FISHES***

**KLASIFIKASI PERANGKAAN PIAWAIAAN IKAN-IKAN
AIRTAWAR MALAYSIA**

**STANDARD STATISTICAL CLASSIFICATION OF
COMMON MALAYSIAN FRESHWATER FISHES**

ISSCAAP Code	Division Group of Species	Local Name	English Name	Scientific Name
1	11 Carps, Barbels and Others	Tengas	Carp	<i>Acrossocheilus hexagonolepis</i>
		Kap Kepala Besar	Big Head Carp	<i>Aristichthys nobilis</i>
		Ikan Mas	Edible Gold Fish	<i>Carassius auratus</i>
		Kap Lumpur	Mud Carp	<i>Cirrhina molitorella</i>
		Kap Rumpit	Grass Carp	<i>Ctenopharyngodon idella</i>
		Temperas	Carp	<i>Cyclocheilichthys apogon</i>
		Lee Koh	Common Carp	<i>Cyprinus carpio</i>
		Semilang Batu	Carp	<i>Epalzeorhynchus kalopterus</i>
		Sebarau	Carp	<i>Hampala macrolepidota</i>
		Kap Perak	Silver Carp	<i>Hypophthalmichthys molitrix</i>
		Pucuk Pisang	Carp/Barb	<i>Labiobarbus fasciatus</i>
		Lomah	Carp/Barb	<i>Thynnichthys thynnoides</i>
		Jelawat	River Carp	<i>Leptobarbus heovenii</i>
		Kap Hitam	Black Carp	<i>Mylopharyngodon piceus</i>
		Sia	Carp	<i>Mystacoleucus marginatus</i>
		Terbol	Carp	<i>Osteochilus hasseltii</i>
		Lalang	Carp	<i>Oxygaster anomalura</i>
		Bulu Ayam	Moustached thryssa	<i>Thryssa mystax</i>
		Temoleh, Temelian	Malaysian Carp	<i>Probarbus jullieni</i>
		Putih, Tebal Sisek	Common Barb	<i>Puntius binotatus</i>
		Tengalan	Carp/Barb	<i>Puntioplites bulu</i>
		Kerai Kunyit	Carp/Barb	<i>Hypsibarbus sp</i>
		Lampam Jawa	Javanese Carp	<i>Puntius gonionotus</i>
		Bagoh	Spanner Barb	<i>Puntius lateristriga</i>
		Lampam Sungai	River Carp	<i>Puntius schwanenfeldii</i>
		Susur Batang	Brilliant Rasbora	<i>Rasbora einthoveni</i>
		Seluang	Two-sport Rasbora	<i>Rasbora elegans</i>
		Kelah	River Carp	<i>Tor tambroides</i>

2	12	Tilapias and Cichlids	Tilapia	Tilapia	<i>Oreochromis sp</i>
3	13	Miscellaneous freshwater fishes	Puyu	Climbing Perch	<i>Anabas testudineus</i>
			Tuna	River Eel	<i>Anguilla bicolor</i>
			Kepala Timah	Blue Panchax	<i>Aplocheilichthys panchax</i>
			Lali-Lali	Botia/loach	<i>Botia spp.</i>
			Kecil Kayu/Keli Bunga	Freshwater Catfish	<i>Clarias batrachus/C.macrocephalus</i>
			Limbat	Freshwater Catfish	<i>Clarias nieuhofii</i>
			Belut	Swamp Eel	<i>Monopterus alba</i>
			Temakang	Kissing Gourami	<i>Helostoma temminckii</i>
			Susoh Batu	Loach	<i>Homaloptera spp</i>
			Baung	River Catfish	<i>Mystus spp.</i>
			Tengku Lolah	River Catfish	<i>Mystus wyckii</i>
			Belida	Knife-fish	<i>Notopterus notopterus</i>
			Kalui	Giant Gourami	<i>Osphronemus goramg</i>
			Bujuk	Snake Head	<i>Channa lucius</i>
			Toman	Snake Head	<i>Channa micropeltes</i>
			Haruan	Snake Head	<i>Channa striatus</i>
			Ketutu	Marbled Sleeper Goby	<i>Oxyeleotris marmoratus</i>
			Lawang	River Catfish	<i>Pangasius micronemus</i>
			Patin	River Catfish	<i>Pangasius pangasius</i>
			Kepar, Patung	Malaysian Jewel Fish	<i>Pristolepis fasciatus</i>
			Kelisa	Sclerapages	<i>Scleropages formosus</i>
			Sepat Siam	Snake-Skinned Gouramy	<i>Trichogaster pectoralis</i>
			Sepat Ronggeng	Two-Spot Gouramy	<i>Trichogaster trichopterus</i>
			Tapah	Giant Catfish	<i>Wallago spp.</i>
4	CRUSTACEANS				
	41	Freshwater Crustaceans	Udang Galah	Giant Freshwater Prawn	<i>Macrobrachium rosenbergii</i>

**KLASIFIKASI PERANGKAAAN PIAWAIAN IKAN-IKAN
LAUT MALAYSIA**

**STANDARD STATISTICAL CLASSIFICATION OF
COMMON MALAYSIAN MARINE FISHES**

ISSCAAP Code	Division Group of Species	Local Name	English Name	Scientific Name
2	DIADROMOUS FRISHES			
24	Shads, Milk-fishes, etc.	Kebasi/Selangat	+ Chacunda shad (Gizzard shad)	<i>Anodontostoma chacunda</i>
		Puput	+ Shad/	<i>Pellona spp.</i>
		Beliak Mata	+ Slender Shad/ Elongate Ilisha	<i>Ilisha elongata</i>
		Terubok	0 Longtail shad	<i>Hilsa macrura</i>
25	Miscellaneous diadromous	Siakap	+Giant sea perch (Barramundi)	<i>Lates calcarifer</i>
3	MARINE FISHES			
31	Flounders, Halibuts, Soles, etc.	Lidah	+ Tonguefish (Tongue sole)	<i>Cynoglossus spp.</i>
		Sebelah	+ Deep Flounders	<i>Pseudorhombus spp.</i>
		Togok	Halibut	
33	Redfishes, Basses, Congers, etc.	Bayan	+ Parrotfish/ Moon wrasse	<i>Scarus sp./Thalassoma spp.</i>
		Biji Nangka	+ Goatfish	<i>Upeneus spp.</i>
		Daun Baharu	+ Spotted sicklefish	<i>Drepane punctata</i>
		Delah	+ Fusilier	<i>Caesio sp.</i>
		Dengkis/Debam	+ Spinefoot (Rabbit fish) marbled spine -food	<i>Siganus spp.</i>
		Duri/Pulutan/Utex	+Marine catfish	<i>Tachysurus spp./Arius spp.</i>
		Gelama/Tengkerong	+ Jewfish/Carut Croaker/ Tiger-tootled Croaker/ Bronze Croaker	<i>Decapterus spp./ Sciaena spp./Johnius spp./ Otolithus spp./Otolithoides spp.</i>
		Gerut-Gerut	+ Grunter	<i>Pomadasys spp.</i>
		Jebong	+ Starry Triggerfish	<i>Abalistes stellatus</i>
		Jenahak	+ John's snapper	<i>Lutjanus johnii</i>
		Kaci	+ Painted Sweetlip	<i>Plectorhinchus pictum</i>

	Kapas Laut	+ Majorras (Silver biddies)	<i>Gerres filamentosus/G.abreviatus/ Gerres spp</i>	
	Kerapu	+ Grouper/Coral trout	<i>Epinephelus spp./Plectropomus spp.</i>	
	Kerisi	+ Threadfin bream	<i>Nemipterus spp./Pentupodus spp.</i>	
	Kerisi Bali	+ Sharp tooth jobfish	<i>Pristipomoides typus</i>	
	Kekek	+ Ponyfish (Slipmouth)	<i>Leiognathus spp./Gazz spp./ Secutor spp.</i>	
	Lumi-Lumi	+ Bombay-duck	<i>Harpadon nehereus</i>	
	Malong	+ Conger eel/ Moray eel	<i>Muraenesox spp./Gymnothorax sp.</i>	
	Merah	+ Red snapper	<i>Lutjanus argentimaculatus/ L.malabaricus</i>	
	Mengkarong/Uni/Conor	+ Lizard fish	<i>Saurida spp./synodus spp.</i>	
	Punting Damar/ Bulus-Bulus	+ Sillago-whittings	<i>Sillago sihama/S.maculuta</i>	
	Pasir-Pasir/Timun- Timun/Puyu Laut	+ Monocle bream	<i>Scolopsis spp.</i>	
	Pelanduk	+ Emperors (Scavengers)	<i>Lathrinus spp.</i>	
	Pluru	+ Spadefish	<i>Ephippus orbis</i>	
	Remong/Kunyit-Kunyit	+ Brown stripe snapper	<i>Lutjanus vitta/L.lineolatus</i>	
	Semilang	+ Catfish eel/Striped catfish	<i>Plotosus spp.</i>	
	Shrumbu/Lemoh	+ False trevally	<i>Lactarius lactarius</i>	
	Tanda	+ Russell's snapper	<i>Lutjanus russelli</i>	
34	Jacks, Mulletts, Sauries, etc.	Aji-Aji	+ Amberjack	<i>Seriola nigrofasciata</i>
		Alu-Alu/Kacang-Kacang	+ Pickhandle Barracuda/ Obtusebaracudu	<i>Sphyraena jello/Sphyraena obtusata</i>
		Aruan Tasik	+ Black kingfish	<i>Rachycentron canadum</i>
		Bawal Hitam	0 Black pomfret	<i>Parastromateus niger</i>
		Bawal Puteh	0 Silver pomfret	<i>Pampus argenteus</i>
		Bawal Tambak	0 Chinese silver pomfret	<i>Pampus chinensis</i>
		Bawal Selatan	0 Small pomfret	<i>Pampus spp.</i>
		Belanak/Kedera	0 Mullet	<i>Liza spp/Valamugil spp.</i>
		Cermin/Cupak	+ Indian threadfin/ Trevally	<i>Alectis indicus/Carangoides spp.</i>

	Cencaru	0 Hardtail scad	<i>Megalaspis cordyla</i>
	Demudok/Rambai	+ Trevallies	<i>Carangoides spp.</i>
	Gerong-Gerong	+ Golden trevally	<i>Gnathanodon</i>
	Kurau/Senangin/ Senohong	0 Threadfin	<i>Polynemus spp./Eleutheronema tetradactylum</i>
	Kerepoh	0 Horse mackerel trevally	<i>Caranx sexfasciatus</i>
	Lolong	0 Ox-eye scad	<i>Selar boops</i>
	Mata Besar/Selar	0 Big-eye scad	<i>Selar Crumenophthalmus</i>
	Pisang-Pisang	0 Rainbow runner	<i>Elagatis bipinnulatus</i>
	Selar-Pelata	0 Selar scad	<i>Selar spp.</i>
	Selar Kuning	0 Yellow striped trevally	<i>Selaroides leptolepis</i>
	Selayang/Curut	0 Round scad	<i>Decapterus maruadsi/D.macrosona</i>
	Talang	0 Talang Queenfish	<i>Scomberoides commersonianus</i>
35 Herrings, Sardines, Anchovies, etc.	Tamban sisek	0 Fringescale sardine	<i>Sardinella fimbriata</i>
	Tamban buluh/T.Bulat	0 Rainbow sardine	<i>Dussumieria acuta</i>
	Billis	0 Anchovy	<i>Stolephorus spp.</i>
	Parang-Parang	0 Dorab wolf-herring	<i>Chirocentrus dorab</i>
	Bulan-Bulan	+ Indo-Pacific tarpon	<i>Megalops cyprinoides</i>
36 Tunas,	Aya/Kayu/Tongkol Hitam	0 Longtail tuna	<i>Thunnus tonggol</i>
	Aya/Kayu/Tongkol Kurik	0 Kawakawa (eastern little tuna)	<i>Euthynnus affinis</i>
	Aya/Kayu/Tongkol Selasih	0 Frigate tuna	<i>Auxis thazard</i>
Billfishes, etc.	Layaran/Mersuji	0 Sailfish/Black & Blue marlin	<i>Istiophorus spp./Makaira spp.</i>
	Tenggiri	0 Spanish mackerel	<i>Scomberomorus spp.</i>
37 Mackerels	Kembong/Temenong/ Pelaling	0 Indian mackerel/ Indo-pacific mackerel	<i>Rastrelliger kanagurta/R. brachysoma/R.faughni</i>
	Timah/Layor/Selayor	+ Large-head hairtail (Ribbon fish)	<i>Trichiurus lepturus</i>
38 Sharks, Rays,	Yu	+ Shark	<i>Carcharhinidae/sphyrnidae/ Orectolobidae etc.</i>
	Pari	+ Ray	<i>Gymnura spp/Dasyatis spp./ Himantura spp.</i>

39	Miscellaneous marine fishes	Ikan Baja	+/0 Trash fish (Unmarketable size)	<i>Mixed spp.</i>
		Ikan Campur	+/0 Trash fishes	<i>Mixed spp.</i>

4 CRUSTACEANS

42	Sea spiders, Crabs, etc.	Ketam laut/Ketam renjong/Ketam batu	Blue swimming crab Indo-pacific swamp-crab	<i>Portunus pelagicus</i> <i>Scylla serrata</i>
43	Lobsters, Spiny rock lobsters, etc.	Udang Karang	Spiny lobster	<i>Panulirus polyhagus</i>
		Udang Lobok	Slipper lobster	<i>Thenus orientalis</i>
45	Shrimps, Prawns, etc.	Udang putih/udang kaki merah/udang susu	Banana prawn/Western king prawn	<i>Penaeus merguensis/P. indicus/P. latisulcatus</i>
		Udang Harimau	Giant tiger prawn/ Green tiger prawn	<i>Penaeus monodon/P. semisulcatus</i>
		Udang Pasir/Udang Pasir Kepala Besar	Sand prawn	<i>Metapeneopsis stridulans & M. berbeensis/Trachypenaeus fulvus</i>
		Udang Putih Kecil	Bridshrimp Small white prawn	<i>Metapenaeus lysianassa</i>
		Udang Kuning	Yellow prawn	<i>Metapenaeus brevicornis</i>
		Udang Merah Ros/ Udang Ekor Biru	Gingja shrimp/ Greasyback shrimp	<i>Metapenaeus affinis/M. ensis/M. intermedius</i>
		Udang Kulit Keras	Rainbow prawn	<i>Paparenaeopsis sculptilis</i>
		Udang Minyak/ Udang Minyak Jalur	Sharp-rostrum prawn	<i>Parapenaeopsis hardwickii/P. coromandelica/P. hungerfordi/P. gracilima</i>
		Udang Merah	Red Prawn	<i>Solenocera subnuda</i>

5 MOLLUSCS

53	Oysters	Tiram	Rock oysters/Flat oysters	<i>Ostrea folium/Crassostrea spp.</i>
54	Mussels	Kupang/Siput Sudu/ Siput Cangkul	Green mussel Sea-Green mussel	<i>Perna viridis</i> <i>Glauconome spp</i>
56	Clams, Cockles, Arkshells, etc.	Kerang	Blood cockle	<i>Anadara granosa</i>
		Retak Seribu	Carpet clam	<i>Paphia undulata</i>
		Lain-Lain Siput	Other clams/Snails	<i>Bivalves/Gastropods</i>
57	Squids, Cuttlefishes, Octopuses, etc.	Sotong biasa/Cumit-Cumit	Common squid	<i>Loligo spp.</i>