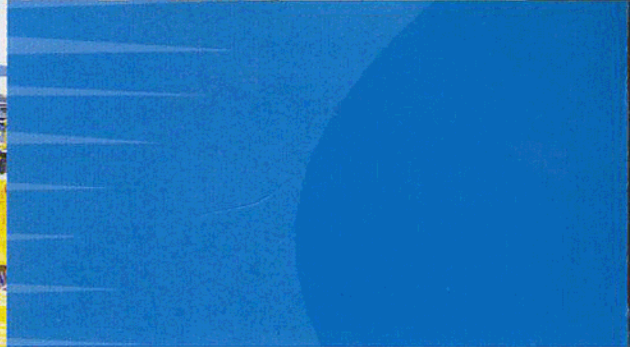




PERANGKAAN TAHUNAN PERIKANAN

ANNUAL FISHERIES STATISTICS

**1997
(Volume 1)**



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PERANGKAAN TAHUNAN PERIKANAN
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(Volume)

JABATAN PERIKANAN MALAYSIA

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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)

**KLASIFIKASI PERANGKAAAN PIAWAIAN
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(Standard Statistical Classification
Of Malaysian Marine Fishes)**

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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 memainkan peranan yang penting untuk menyumbangkan pengeluaran ikan sebagai sumber makanan dan protein yang penting kepada negara. Sektor ini juga menyumbang sehingga 1.57% kepada KDNK, serta memberi peluang pekerjaan kepada 79,000 orang nelayan dan 20,000 orang penternak ikan. Sektor perikanan pantai menghasilkan pengeluaran yang mapan dan berterusan iaitu sekitar 800,000 tan metrik setahun dalam tempoh hampir sepuluh tahun yang lepas. Pencapaian ini adalah hasil dari usaha berterusan pengurusan sumber perikanan yang dilakukan oleh pihak Jabatan.

Beberapa tindakan sedang dilaksanakan oleh pihak Jabatan untuk meningkatkan pengeluaran ikan negara. Situasi ini adalah kerana eksploitasi yang berlebihan dari sektor perikanan pantai yang mana pada masa kini telah menghasilkan pengeluaran yang maksimum. Usaha-usaha telah diambil untuk menambahkan pengeluaran sektor 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.

Walau bagaimanapun harapan untuk meningkatkan pengeluaran ikan, bergantung kepada potensi sektor akuakultur, yang mempunyai kawasan 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 di abad akan datang.

2. PROFIL PERIKANAN

Pada tahun 1997 jumlah pengeluaran daripada sektor perikanan telah mencapai 1,280,907 tan metrik dengan nilai pengeluaran RM 4.35 bilion. Sektor ini sekali lagi mencatatkan pertumbuhan sebanyak 3.35% dari segi pengeluaran dan 13.28% dari segi nilai. Penyumbangan sektor perikanan kepada KNK adalah 1.57% untuk tahun 1997 berbanding dengan 1.54 pada tahun 1996. Di samping itu penyumbangan kepada sektor pertanian juga menggalakan di mana ia telah meningkat daripada 12.05% pada tahun 1996 kepada 12.57% pada tahun 1997.

Mengikut sektor, pengeluaran daripada perikanan marin menyumbangkan 91% daripada pengeluaran ikan negara iaitu sebanyak 1,168,973 metrik tan yang bernilai RM3.68 bilion. Disektor ini, perikanan pantai masih kekal sebagai penyumbang utama dengan pengeluaran sebanyak 1,037,887 tan metrik bernilai RM3.31 bilion. Sektor perikanan laut dalam, yang belum mencapai potensi maksimanya menyumbang 10.2% iaitu sebanyak 131,086 tan metrik bernilai RM365 juta.

Pada masa yang sama, sektor akuakultur telah mencatatkan pengeluaran sebanyak 107,984 tan metrik dan dengan itu menyumbangkan kira-kira 8.4% kepada jumlah pengeluaran ikan. Angka ini menurun sebanyak 1% jika berbanding dengan pengeluaran pada tahun 1996. Penurunan ini adalah disebabkan oleh pengeluaran kerang yang merosot yang biasanya menyumbang sehingga 60% kepada pengeluaran tahunan akuakultur. Selain daripada kemerosotan kerang, pengeluaran lain-lain sistem-sistem kultur utama menunjukkan pertumbuhan yang sangat menggalakkan. Memandangkan peringkat pengeluaran sistem-sistem kultur ini yang menghasilkan produk yang lebih berharga, nilai pengeluaran meningkat sebanyak 31.71% daripada RM462.40 juta pada tahun 1996 kepada RM609.04 juta pada tahun 1997.

Sektor perikanan darat tetap mencatatkan pengeluaran yang rendah iaitu hanya 3,950 tan metrik pada tahun 1997 (0.31% daripada jumlah pengeluaran ikan). Pada tahun 1997, industri ikan hiasan mencatat pengeluaran sebanyak 309 juta ekor ikan bernilai RM61.22 juta dengan peningkatan sebanyak 1.4% kepada jumlah nilai pengeluaran sektor perikanan.

Dari segi guna tenaga, sektor perikanan terdiri daripada 78,989 orang nelayan yang bekerja di atas vesel-vesel menangkap ikan yang berlesen dan 19,717 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 1997 ialah 32,672 buah di mana kebanyakannya mengusahakan pukut-pukat tradisional (79.0%).

3. PERIKANAN MARIN

3.1 Nelayan

Pada tahun 1997 sejumlah 78,989 orang nelayan yang bekerja di atas vesel-vesel menangkap ikan berlesen iaitu menurun sebanyak 0.79% jika dibandingkan dengan tahun 1996. Nisbah nelayan yang bekerja dengan vesel menangkap ikan komersial (42.0%) berbanding dengan bilangan nelayan yang bekerja di vesel menangkap ikan tradisional (58.0%) tidak berubah dalam tempoh tersebut.

Negeri Pahang telah mencatatkan penurunan bilangan nelayan yang ketara iaitu sebanyak 26.27% manakala Negeri Kelantan mencatatkan penambahan bilangan nelayan sebanyak 17.18%. Perubahan ini mungkin akibat daripada perpindahan operasi perikanan laut dalam ke Negeri Kelantan. Negeri Pulau Pinang juga menunjukkan penambahan nelayan yang ketara iaitu sebanyak 29.28%. Negeri Sarawak mencatatkan penambahan nelayan seperti dijangkakan

sebanyak 12.87% ekor berbagai usaha yang diambil untuk membangunkan perikanan laut dalam di Sarawak. Walaupun Labuan mencatatkan peningkatan nelayan dari segi peratusan yang tinggi iaitu 34.77%, tetapi bilangan nelayan yang berusaha di vesel-vesel menangkap ikan yang berlesen adalah masih rendah (bertambah dari 279 orang kepada 378 orang). Selain daripada perubahan-perubahan yang tersebut di atas, bilangan nelayan yang bekerja di atas vesel-vesel menangkap ikan yang berdaftar di negeri-negeri lain tidak berubah dengan ketara.

Untuk dekad yang lepas, industri perikanan laut dalam seringkali dipengaruhi oleh industri perikanan negara-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 7,048 orang pada tahun 1996 kepada 8,437 orang pada tahun 1997 iaitu pertambahan sebanyak 20%. Sebanyak 8,232 orang nelayan asing telah diluluskan untuk berkerja di Semenanjung Malaysia, 163 orang di Labuan dan 42 orang di Negeri Sarawak. Peratus nelayan asing yang telah diluluskan untuk berkerja di Negeri Terengganu ialah 30.89%, Kelantan 21.30%, Pahang 17.94%, Perlis 11.31%, Labuan 1.93% dan Johor Timur 6.27%.

3.2 Vesel-vesel Menangkap Ikan

Secara keseluruhan vesel-vesel menangkap ikan yang berdaftar di Malaysia berkurang sebanyak 2.74% iaitu daripada 33,592 buah pada tahun 1996 kepada 32,672 buah pada tahun 1997. Penurunan ini terjadi terutamanya di sektor perikanan laut pantai yang terdiri daripada 25,847 buah vesel pada tahun 1997 menurun sedikit dari 26,785 buah pada tahun 1996. Penurunan ini dijangkakan, memandangkan dasar-dasar Jabatan cuba mengurangkan usaha menangkap

ikan dalam sektor ini untuk menangani masalah eksploitasi yang berlebihan bagi menjamin pengeluaran maksima yang mapan. Pengurangan bilangan vesel di sektor ini berlaku terutamanya di Semenanjung Malaysia iaitu sebanyak 4.16% (daripada 21,250 buah pada tahun 1996 kepada 20,365 buah pada tahun 1997). Penurunan bilangan vesel juga berlaku di Sarawak yang menurun sebanyak 2.79% (daripada 2,405 buah kepada 2,338 buah). Bilangan vesel menangkap ikan di Sabah kekal tidak berubah untuk dua tahun yang lepas manakala Labuan mendaftarkan lebih 32 buah pada tahun 1997 berbanding dengan 101 buah pada tahun 1996.

Perancangan dan pembangunan sektor perikanan laut dalam mengambil kira status sumber perikanan. Berdasarkan maklumat sumber perikanan yang diperolehi, bilangan vesel menangkap ikan yang dibenarkan untuk sektor perikanan laut dalam agak kecil jika dibandingkan dengan lebih dari 30,000 buah vesel yang dilesenkan untuk menerokai perairan laut pantai. Pada tahun 1997 bilangan vesel laut dalam yang dilesenkan ialah 516 buah iaitu tambahan hanya sebanyak 12 buah berbanding dengan tahun 1996.

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. Walau bagaimanapun 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 2.0% (daripada 27,080 unit pada tahun 1996 kepada 26,535 unit pada tahun 1997).

3.4 Pendaratan Ikan Marin

Pendaratan ikan marin bertambah dengan ketara iaitu sebanyak 3.75% daripada 1,126,689 tan metrik pada tahun 1996 kepada 1,168,973 tan metrik pada tahun 1997. Dari segi nilai pendaratan, terdapat penambahan sebanyak 10.54% iaitu dari RM3.32 bilion pada tahun 1996 kepada RM3.68 bilion pada tahun 1997. Didapati vesel-vesel menangkap ikan komersial yang mengusahakan pukut tunda dan pukut jerut ikan menghasilkan 70% daripada pengeluaran ikan marin. Pada keseluruhannya pendaratan oleh vesel-vesel menangkap ikan pukut tunda menurun (0.8%) iaitu dari 601,980 tan metrik pada tahun 1996 ke 596,759 tan metrik pada tahun 1997. Sebaliknya pendaratan oleh vesel-vesel pukut jerut ikan bertambah sebanyak 11.3% iaitu dari 171,512 tan metrik pada tahun 1996 kepada 190,978 tan metrik pada tahun 1997.

Jadual I

Malaysia
Pendaratan dan Nilai Perikanan Laut Pantai, 1997

	Pendaratan (Tan Metrik)	Nilai (RM)
Pantai Barat Semenanjung Malaysia	483,896	1,665,217,377
Pantai Timur Semenanjung Malaysia	259,675	666,781,637
Semenanjung Malaysia	743,571	2,331,999,014
Sabah	171,943	561,631,980
Sarawak	108,215	357,803,256
Wilayah Persekutuan Labuan	14,158	58,413,490
Jumlah	1,037,887	3,309,847,740

Sebahagian besar daripada pengeluaran ikan marin masih disumbangkan oleh sektor perikanan laut pantai (Jadual 1) yang mana pada tahun 1997 meningkat sebanyak 4.40% dari 994,144 tan metrik kepada 1,037,887 tan metrik dan dengan itu menyumbang sebanyak 88.8% kepada jumlah pengeluaran ikan marin. Sejak dua abad yang lepas 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 20% daripada jumlah bilangan vesel menangkap ikan sektor perikanan laut pantai telah menyumbangkan sebanyak 67.4% kepada jumlah pengeluaran sektor ini. Di kalangan sektor perikanan laut pantai, pendaratan oleh vesel pukat jerut ikan tidak berubah iaitu sebanyak 135,489 tan metrik (hanya menurun sebanyak 0.04% sahaja) manakala terdapat sedikit penambahan pendaratan oleh vesel pukat tunda iaitu sebanyak 3.15%. Walaupun bilangan vesel-vesel tradisional yang dilesenkan pada tahun 1997 menurun seperti dinyatakan di atas, pengeluarannya mencatatkan satu kenaikan iaitu sebanyak 7.9% dari 353,197 tan metrik pada tahun 1996 kepada 381,236 tan metrik pada tahun 1997. 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. Diketahui bahawa vesel-vesel ini beroperasi di kawasan melebihi 30 batu notika iaitu zon untuk perikanan laut dalam. Disamping itu didapati bahawa penambahan pendaratan ikan di sektor perikanan laut pantai disumbangkan oleh vesel-vesel yang mengusahakan perkakas seperti bubu yang bertambah sebanyak 16.2% serta pancing yang bertambah sebanyak 74.8%. Penambahan pendaratan oleh vesel yang mengoperasikan perkakas pancing juga adalah hasil daripada penambahan bilangan vesel pancing di kawasan perairan laut dalam. Pengusahaan vesel-vesel yang menggunakan perkakas bubu juga beroperasi di luar kawasan perairan pantai. Pengeluaran daripada perkakas memunggut yang bergantung kepada kawasan benih semulajadi serta faktor-faktor alam semulajadi juga bertambah dari 17,772 tan metrik pada tahun 1996 kepada 24,698 tan metrik pada tahun 1997. Sebenarnya terdapat penurunan dalam

pengeluaran oleh vesel-vesel yang beroperasi dengan perkakas tradisional terutama yang beroperasi di dalam kawasan perairan pantai. Contohnya adalah kemerosotan pendaratan oleh vesel pukat hanyut iaitu sebanyak 24% dari 28,404 tan metrik pada tahun 1996.

Jadual II

Malaysia
Pendaratan Perikanan Laut Dalam Mengikut Kumpulan Perkakas, 1997
(Kuantiti Dalam Tan Metrik)

	Pukat Tunda 70 GRT & Lebih	Pukat Jerut Ikan 70 GRT & Lebih	Rawai/Pancing 70 GRT & Lebih	Jumlah
Pantai Barat Semenanjung Malaysia	22,132	9,401	0	31,533
Pantai Timur Semenanjung Malaysia	28,785	33,685	0	62,470
Semenanjung Malaysia	50,917	43,086	0	94,003
Sabah	0	2,235	87	2,322
Sarawak	19,156	636	186	19,978
Wilayah Persekutuan Labuan	5,200	9,537	46	14,783
Jumlah	75,273	55,494	319	131,086

Jadual III

Malaysia
Nilai Perikanan Perikanan Laut Dalam Mengikut Kumpulan Perkakas, 1997
(Nilai Dalam RM)

	Pukat Tunda 70 GRT & Lebih	Pukat Jerut Ikan 70 GRT & Lebih	Rawai/Pancing 70 GRT & Lebih	Jumlah
Pantai Barat Semenanjung Malaysia	54,776,165	30,105,553	0	84,881,718
Pantai Timur Semenanjung Malaysia	71,242,178	107,872,096	0	179,114,274
Semenanjung Malaysia	126,018,343	137,977,649	0	263,995,992
Sabah	0	7,157,414	374,106	7,531,520
Sarawak	47,410,636	2,036,712	799,812	50,247,160
Wilayah Persekutuan Labuan	12,869,874	30,541,077	197,803	43,608,754
Jumlah	186,298,853	177,712,852	1,371,721	365,383,426

Industri perikanan laut dalam (Jadual II dan III) merangkumi vesel-vesel menangkap ikan yang bermuatan 70 GRT ke atas yang mengusahakan pukat tunda, pukat jerut (kecuali pukat jerut bilis) pancing, pukat hanyut yang beroperasi di kawasan perairan melebihi 30 batu notika. Pada tahun 1997 industri ini menyumbangkan sebanyak 131,086 tan metrik ikan atau merupakan 11.21% daripada jumlah pendaratan ikan marin di Malaysia. Pendaratan ini telah menurun sebanyak 1.10% jika dibandingkan dengan tahun sebelumnya. Dari segi pendaratan, Pantai Barat Semenanjung Malaysia menyumbangkan 24.06% (31,533 tan metrik), Pantai Timur 47.66% (62,470 tan metrik), Sabah 1.77% (2,322 tan metrik), Labuan 11.28% (14,783 tan metrik) dan Sarawak 15.24% (19,978 tan metrik) daripada jumlah pendaratan perikanan laut dalam. Pada tahun 1997 nilai pengeluaran dari sektor perikanan laut dalam ialah RM 365.38 juta iaitu 9.94% daripada jumlah nilai pendaratan ikan marin di Malaysia. Angka

ini bertambah sebanyak 4.22% iaitu daripada RM350.56 juta pada tahun 1996 kepada RM365.38 juta pada tahun 1997.

Dalam sektor perikanan laut dalam, pendaratan oleh vesel-vesel pukut jerut menunjukkan pertambahan yang ketara (54.3%) iaitu daripada 35,954 tan metrik pada tahun 1996 kepada 55,494 tan metrik pada tahun 1997. Walau bagaimanapun peningkatan ini masih tidak dapat mengimbangi penurunan pendaratan oleh vesel-vesel pukut tunda yang telah menurun sebanyak 21% iaitu daripada 96,267 tan metrik pada tahun 1996 kepada 75,269 tan metrik pada tahun 1997.

4. AKUAKULTUR

4.1 Pengeluaran Akuakultur

Pada keseluruhannya, industri akuakultur menyumbang sebanyak 10% daripada jumlah pengeluaran ikan negara. Dijangka industri akuakultur akan merupakan sektor yang 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 1997 telah dipengaruhi oleh pengeluaran kerang yang merosot. Kemerosotan ini telah menjejaskan pengeluaran keseluruhan yang menurun sebanyak 0.99% kepada 107,983 tan metrik tahun ini. Walau bagaimanapun pengeluaran dari sistem kultur yang lain meningkat sebanyak 33% dari 37,267 tan metrik kepada 49,583 tan metrik pada tahun 1997.

Selain pengeluaran ikan untuk makanan, industri akuakultur juga mengeluarkan ikan hiasan (akuarium). Pengeluaran dari sektor ini meningkat sebanyak 11.00% dari 278,462,210 ekor dalam tahun 1996 kepada 309,093,053 ekor dalam tahun 1997. Manakala dari segi nilai, peningkatan adalah sebanyak 12.00% dari RM54.66 juta dalam tahun 1996 kepada RM61.22 juta dalam tahun 1997.

Sejumlah 19,717 penternak terlibat dalam industri akuakultur dalam tahun 1997, iaitu meningkat sebanyak 0.93%. Sejumlah besar tenaga kerja terlibat dalam sektor airtawar terutama dalam ternakan kolam (70.16%), dengan selebihnya didalam sektor bekas lombong (1.32%), sangkar airtawar (6.53%) tangki simen (1.32%) dan kandang airtawar (3.35%). Walaupun bilangan penternak tidak menunjukkan peningkatan yang ketara (0.93%), pengeluaran dari semua sistem ternakan kecuali ternakan kerang menunjukkan peningkatan. Punca utama peningkatan ini disebabkan oleh peningkatan kawasan ternakan. 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 30% dari jumlah pengeluaran akuakultur. Dalam tahun 1997 jumlah pengeluaran ternakan air tawar telah meningkat sebanyak 44.05% iaitu dari 21,987 tan metrik kepada 31,672 tan metrik. Dari segi nilai pula ia merekodkan RM239.66 juta iaitu peningkatan 53.45% berbanding tahun sebelumnya dan dengan itu menyumbang hampir 40% dari jumlah nilai pengeluaran akuakultur keseluruhan.

Sektor ternakan kolam airtawar merupakan penggerak utama dalam sistem ternakan ini, menyumbang sebanyak 77.03% (24,397 tan metrik) daripada jumlah pengeluaran airtawar meningkat 41.6% berbanding dengan pengeluaran tahun 1996. Dari segi nilai ia mencatatkan peningkatan ketara sebanyak 52.34% dari RM135.94 juta kepada RM207.09 juta. Kebanyakan negeri menunjukkan peningkatan dalam pengeluaran, di mana negeri Selangor mendahului senarai pertumbuhan dengan pengeluaran hampir lima kali ganda dengan penghasilan

sebanyak 3,266 tan metrik. Pengeluaran dari negeri Perak juga meningkat hampir dua kali ganda dengan penghasilan sebanyak 1,741 tan metrik diikuti oleh negeri Pahang yang menghasilkan sebanyak 9,022 tan metrik iaitu peningkatan sebanyak 53%. Lain-lain negeri juga merekodkan pertumbuhan tetapi sebaliknya pengeluaran dari negeri Perlis, Kedah dan Sarawak tidak begitu menyakinkan. Negeri Sabah yang biasanya menyumbang 30%, juga tidak mencatatkan pertumbuhan pada tahun 1997. Spesis utama yang ditenak ialah tilapia merah (8,605 tan metrik), tilapia hitam (4,337 tan metrik) dan belut (6,620 tan metrik).

Pengeluaran dari bekas lombong juga meningkat sebanyak 40.96% (dari 2,022 tan metrik dalam tahun 1996 kepada 2,850 tan metrik dalam tahun 1997). Nilai pengeluaran meningkat sebanyak 48.0% dari RM7.02 juta dalam tahun 1996 kepada RM10.39 juta. Pada keseluruhan luas kawasan ternakan telah menurun dari 1,296 hektar pada tahun 1996 kepada 1,039 hektar dalam tahun 1997. Peningkatan pengeluaran disebabkan kadar pengeluaran yang meningkat dari 1.56 tan/hektar/tahun dalam tahun 1996 kepada 2.74 tan/hektar dalam tahun 1997. Perak dan Selangor merupakan pengeluar utama dalam ternakan bekas lombong. Walau bagaimanapun negeri Pahang menunjukkan kemerosotan pengeluaran dari 320 tan metrik kepada 64 tan metrik. Spesis utama yang dihasilkan ialah Tilapia Merah (33.32%) diikuti oleh Kap Kepala Besar (21.87%) dan Kap Rumput (7.74%).

Ternakan sangkar airtawar menyumbang 18.13% dari keseluruhan pengeluaran ternakan airtawar iaitu menunjukkan pertambahan 17.5%, (peningkatan dari 1,550 tan metrik kepada 1,883 tan metrik dalam tahun 1997). Peningkatan ini disebabkan pertambahan luas kawasan ternakan sebanyak 64% dari 85,815 meter persegi kepada 140,708 meter persegi dalam tahun 1997. Walau bagaimanapun kadar purata pengeluaran telah menurun dari 25.9 kg/m² kepada 13.36 kg/m². Ikan Tilapia Merah merupakan spesis utama ditenak (62.13%) diikuti Ikan Baung (17.28%) dan Patin (16.70%). Pengeluaran dari negeri Terengganu meningkat dengan mendadak dari 57 tan metrik dalam tahun

1996 kepada 808 tan metrik dalam tahun 1997. Negeri Pahang juga menunjukkan peningkatan pengeluaran dari 389 tan metrik kepada 579 tan metrik. Sebaliknya pengeluaran bagi negeri-negeri seperti Perak, Selangor, Negeri Sembilan dan Melaka agak lembab.

Ternakan tangki simen dan kandang menyumbang 2,369 tan metrik terutama ternakan Tilapia Merah, Patin, Baung dan Ikan Keli. Sistem ternakan ini terus berkembang di negeri Perak, Selangor dan Kelantan. Kadar purata pengeluaran telah meningkat dari 14.5 kg/m² dalam tahun 1996 kepada 20.24 kg/m². Negeri Kelantan yang baru muncul dalam bidang ini berjaya meningkatkan pengeluaran dari cuma 7.51 tan metrik pada tahun 1996 kepada 1,304 tan metrik pada tahun 1997.

4.3 Sistem Air Payau

Sektor air payau termasuk ternakan kerang yang biasanya menyumbang 60 hingga 70% jumlah pengeluaran. Lain-lain ternakan termasuk kolam air payau, sangkar air payau, ternakan siput sudu dan tiram.

Dalam tahun 1997, sektor air payau menyumbang 70% daripada jumlah pengeluaran akuakultur. Sumbangan ini menurun dari 80% dalam tahun 1996 disebabkan oleh kemerosotan penghasilan kerang. Pengeluaran dalam tahun 1997 merosot sebanyak 12.36% dari 87,075 tan metrik pada tahun 1996 ke 76,311 tan metrik.

Penghasilan **kerang** merosot dengan ketara sebanyak 18.7% dari 71,795 tan metrik dalam tahun 1996 kepada 58,400 tan metrik dalam tahun 1997. Negeri Perak hanya berjaya menghasilkan 75% dari pengeluarannya pada tahun 1996 (33,898 tan metrik dari 45,058 tan metrik). Penghasilan kerang dari Negeri Pulau Pinang juga menurun dari 16,692 tan metrik kepada 12,623 tan metrik. Selangor sebaliknya menunjukkan peningkatan dari 9,884 tan metrik kepada 11,589 tan metrik dalam tahun 1997. Didapati bahawa kemerosotan di Perak dan Pulau Pinang bukan disebabkan oleh pengurangan kawasan ternakan yang

mana masih kekal untuk tahun 1997 berbanding dengan kawasan ternakan pada tahun 1996. Laporan menunjukkan bahawa kemerosotan berlaku kerana sumber benih kerang yang berkurangan.

Pengeluaran dari **kolam-kolam air payau** meningkat sebanyak 19% dari 8,954 tan metrik dalam tahun 1996 kepada 10,384 tan metrik dalam tahun 1997. Peningkatan disebabkan oleh lebih ramai penternak yang terlibat (tambahan 30% kepada 5,533) serta kawasan ternakan yang bertambah sebanyak dua kali ganda kepada 5,910 hektar. Nilai juga bertambah sebanyak 25% dari RM179.01 juta kepada RM224.94 juta. Pengeluaran dari negeri Kedah meningkat sebanyak tiga kali ganda, negeri Melaka dua kali ganda dan negeri Pahang empat kali ganda. Negeri Sabah yang pada keseluruhannya menyumbang sebanyak 30% daripada jumlah pengeluaran kolam air payau dalam tahun 1997, mencatat peningkatan pengeluaran sebanyak 30% kepada 2,900 tan metrik. Lain-lain negeri tidak menunjukkan peningkatan yang ketara jika dibandingkan dengan pengeluaran pada tahun 1996.

Pertumbuhan dari **sangkar air payau** tidak begitu menggalakkan iaitu cuma sebanyak 0.04% (5,619 tan metrik). Walau bagaimanapun nilai pengeluaran meningkat sebanyak 16% dari RM86.38 juta kepada RM100.29 juta dalam tahun 1997. Selangor menunjukkan peningkatan sebanyak 25% dari 892 tan metrik manakala negeri Perak merekodkan penurunan sebanyak 19% kepada 1,444 tan metrik. Pengeluaran dari lain-lain negeri termasuk Johor yang biasanya giat dalam sektor ini tidak menggalakkan untuk tahun 1997.

Pengeluaran utama dari sangkar air payau terdiri daripada ikan siakap dan jenahak yang menyumbang sebanyak 74% daripada pengeluaran sektor ini. Lain-lain spesis termasuk kerapu, ikan merah, tilapia merah dan ketam.

Pengeluaran **siput sudu** telah meningkat sebanyak 53% dari 1,163 tan metrik dalam tahun 1996 kepada 1,779 tan metrik dalam tahun 1997. Negeri Johor yang merupakan pengeluar utama dengan pengeluaran sebanyak dua kali

ganda iaitu sebanyak 1,465 tan metrik dengan menyumbangkan 82% pengeluaran siput sudu negara. Negeri-negeri lain seperti Perak, Pulau Pinang dan Perlis juga menunjukkan peningkatan yang menggalakkan.

Nilai pengeluaran siput sudu meningkat hampir RM1 juta dari RM568,000 dalam tahun 1996 iaitu peningkatan sebanyak 60%. Jumlah pengeluaran tiram adalah dua kali ganda iaitu sebanyak 127 tan metrik dalam tahun 1997 dengan nilai pengeluaran sebanyak RM2.1 juta iaitu satu peningkatan dari RM594,000 dalam tahun 1996. Negeri Sabah menunjukkan pertumbuhan yang pesat dalam ternakan tiram, dengan penghasilan yang tertinggi iaitu sebanyak 73 tan metrik berbanding sebanyak 10 tan setahun sebelumnya.

4.3 Ikan Hiasan

Jumlah pengeluaran ikan hiasan telah menunjukkan peningkatan sebanyak 11.00% dari 278,462,210 ekor dalam tahun 1996 kepada 309,093,053 ekor dalam tahun 1997. Dari segi nilai terdapat peningkatan sebanyak 12.00% dari RM54.66 juta dalam tahun 1996 kepada RM61.22 juta dalam tahun 1997. Johor masih kekal sebagai pengeluar utama ikan hiasan yang menyumbang sebanyak 194,152,116 ekor, iaitu 81% dari jumlah keseluruhan pengeluaran ikan hiasan dalam tahun 1997. Ini diikuti oleh Perak yang menyumbangkan sebanyak 69,020,479 ekor iaitu 22.33%, Selangor menyumbangkan sebanyak 30,291,119 ekor iaitu 9.80%, dan Pulau Pinang menyumbangkan sebanyak 15,423,743 ekor iaitu 4.99% dari jumlah pengeluaran ikan hiasan dalam tahun 1997. Dua kumpulan utama ikan hiasan yang dikeluarkan adalah 'cyprinid' yang menyumbangkan sebanyak 45.53%, terdiri dari ikan emas, koi 'barb' dan 'danio' dan 'poecilid' yang menyumbangkan 25.60% dari jumlah pengeluaran ikan hiasan negara.

5. PENGELUARAN BENIH

Pengeluaran benih ikan air tawar dari pusat-pusat pembaikbiak ikan kerajaan pada tahun 1997 sebanyak 26.90 juta ekor. Spesis utama yang dibiak ialah Lampam Jawa (8.5 juta ekor), Tilapia Merah (4.99 juta ekor), Lee Koh (3.81 juta ekor) dan Jelawat (2.45 juta ekor). Semua spesis ini menyumbang sebanyak 73.33% daripada pengeluaran keseluruhan benih-benih ikan daripada pusat-pusat kerajaan.

Pengeluaran benih ikan/udang air payau daripada pusat-pusat kerajaan pada tahun 1997 sebanyak 79.25 juta ekor. Spesis utama yang dibiak ialah Siakap (51.21 juta ekor), Udang Harimau (21.14 juta ekor) dan Udang Galah (6.66 juta ekor). Semua spesis ini menyumbang sebanyak 99.69% daripada jumlah pengeluaran keseluruhan benih-benih udang/ikan daripada pusat-pusat kerajaan.

Pada tahun 1997 sejumlah 6.89 juta ekor benih ikan air tawar dilepaskan ke perairan umum dan sejumlah 5.39 juta ekor benih ikan air tawar digunakan untuk kegunaan pelbagai.

Sebanyak 25.69 juta ekor benih ikan air tawar dibahagikan kepada penternak-penternak pada tahun 1997. Penternak Negeri Sembilan menggunakan benih-benih ikan airtawar sebanyak 18.18 juta ekor. Negeri Sabah sebanyak 3.38 juta ekor dan Perak 1.25 juta ekor. Semua negeri-negeri ini menggunakan benih ikan air tawar sebanyak 88.77% daripada jumlah keseluruhan pengedaran benih-benih kepada negeri-negeri.

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 1.57% to the national Gross Domestic Product (GDP), it provides direct employment to more than 79,000 fishermen and 20,000 fish culturists. Over the years, the industry has succeeded in achieving a steady production from its marine inshore fisheries amounting to an average of 800,000 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 1997, the total production from the fisheries sector amounted to 1,280,907 tonnes valued at RM4.35 billion. Statistically, the fisheries sector again recorded an overall increase in both production and value. However, the increase in production by 3.35% was marginal, while on the other hand the value increased by a substantial 13.28%. 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 1.57% as compared to 1.54% in 1996. Incidentally its contribution to the agricultural sector was also encouraging, increasing from 12.05% to 12.57%. 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 91% of the nation's fish production standing at 1,168,973 tonnes with a value of RM3.68 billion. Within this sector, the coastal fisheries yet remained the major contributor with a production of 1,037,887 tonnes valued at RM3.31 billion. Still to be developed to its full potential, the deep-sea fisheries sector managed 131,086 tonnes contributing 10.2% to the total fish production valued at RM365 million.

At the same time, the aquaculture sector recorded a production of 107,984 tonnes which constituted about 8.4% to the total fish production dipping by 1% from the production in 1996. Production was affected by the poor cockle harvest, which if not, would have been impressive taking into consideration that the the harvest of this bivalve constituted to nearly 60% of the overall aquaculture production annually. With a strong growth in the other culture systems which generated higher value produce, the value from the aquaculture sector rose by 31.71% from RM462.40 million in 1996 to RM609.04 million in 1997.

The inland fisheries sector continued to be insignificant producing only 3,950 tonnes (0.31% of the total fish production). The contribution from the ornamental fish (aquarium) industry recorded 309 million pieces valued at RM61.22 million in 1997 representing 1.4% of the total value produced by the fisheries sector.

The work force of the fisheries sector consists of 78,989 fishermen working on licensed fishing vessels and 19,717 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 32,672 fishing vessels were licenced in 1997 with the majority operating traditional gears (79.0%).

3. MARINE FISHERIES

3.1 Fishermen.

With 78,989 fishermen working on licensed fishing vessels, dropping by only 0.79% as compared to 1996, the population of the marine fisheries work-force has remained largely unchanged. Neither was there a change in the ratio of fishermen working on licensed commercial fishing vessels (42.0%) as against the number of fishermen working on traditional fishing vessels (58.0%).

Pahang recorded a sharp drop of 26.27% in the number of fishermen while on the other hand Kelantan recorded an increase of 17.18% . This apparent movement could be attributed to the shift to especially deep-sea fishing operations into Kelantan. Penang also showed a significant increase of 29.28% in its fishermen's population Sarawak moved up by 12.87% as expected since considerable efforts have been put to develop the deep-sea fishing operation in this area. Even though Labuan recorded a high percentage increment of 34.77%, the number of fishermen working on registered fishing vessels here was small (increased from 279 to 378). Apart from these significant changes, the number of fishermen working on registered fishing vessels in other states fluctuated insignificantly and could safely be assumed to remain unchanged.

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 7,048 in 1996 to 8,437 in 1997 i.e by nearly 20%. Of this, 8,232 foreign crews had been approved to work in Peninsular Malaysia with 163 in Labuan and 42 in Sarawak. The percentage of the total foreign crews who had been approved to work on fishing vessels in Terengganu were 30.89%, Kelantan 21.30%, Pahang 17.94%, Perlis 11.31%, Labuan 1.93%, and East Johor 6.27%.

3.2 Fishing Vessels

On the whole, fishing vessels registered in Malaysia decreased by 2.74% from 33,592 units in 1996 to 32,672 units in 1997. The drop occurred mainly within the inshore fisheries which carried a fleet of 25,847 in 1997 dipping slightly from 26,785 in 1996. This decrease was anticipated, as the present policy tries to reduce the fishing capacity in the effort to curb over-fishing and sustain maximum harvest from this sector. The reduction of the fishing fleet in this sector occurred mainly in Peninsular Malaysia by 4.16% (from 21,250 units in 1996 to 20,365 units in 1997), though the adjustment also happened in Sarawak which showed a reduction by 2.79% (from 2,405 units to 2,338 units). Apparently, there was no significant growth in the fishing fleet in Sabah for the last two years. Labuan, with its potential as a deep-sea centre, registered 32 units more in 1997 adding to the 101 units licensed in 1996.

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 1997, the total number of deep-sea fishing vessels licensed stood at 516 units with an addition of 12 operating units compared to the previous year. The number of deep-sea fishing vessels will grow, and it is expected that production from this sector will 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. Therefore, the number of fishing licence issued for fishing gear will in variably exceed the number of fishing vessels licensed. Generally they reflect the same trend in the change of the fishing effort of the industry. Correspondingly, with the decrease in the number of fishing vessels licensed, the number of fishing gears were reduced by 2.0% (from 27,080 units in 1996 to 26,535 units in 1997). Most of the reduction occurred within the traditional gear-group especially for drift-netters and hook and lines.

3.4 Marine Fish landings.

The total marine landing increased significantly by 3.75% from 1,126,689 tonnes in 1996 to 1,168,973 tonnes for 1997. In terms of value, there was an improvement of 10.54% from RM3.32 billion to RM3.68 billion in 1997. Commercial fishing vessels operating trawls and fish purse seiners produced 70% of the total marine fish landings. Fishing vessels operating traditional gears which made up 80 % of the fishing fleet, produces about 30 % of the total marine production. There was a slight decrease in landings by the trawlers from 601,980 tonnes in 1996 to 596,759 tonnes in 1997 (0.8%) but on the other hand, landing from the purse seiners increased by 11.3% from 171,512 tonnes in 1996 to 190,978 tonnes in 1997.

Table 1

Malaysia
Landings and Values of Marine Inshore Fisheries, 1997

	Landing (Tonnes)	Value (RM)
West Coast of Peninsular Malaysia	483,896	1,665,217,377
East Coast of Peninsular Malaysia	259,675	666,781,637
Peninsular Malaysia	743,571	2,331,999,014
Sabah	171,943	561,631,980
Sarawak	108,215	357,803,256
Federal Territory of Labuan	14,158	58,413,490
Total	1,037,887	3,309,847,740

The bulk of the production is accounted for by the **inshore fisheries** (table 1) which, in 1997, recorded an increase of 4.40% from 994,144 tonnes in 1996 to 1,037,887 tonnes contributing 88.8% 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 20% of the total inshore fleet in number of operating units, produces 67.4% of the total inshore production. The traditional gears involving 25,847 units of fishing vessels produces only 338,351 tonnes. Within the commercial sector of the inshore fisheries, on contrary to the overall pattern of landings by trawlers and purse seiners in 1997, landings from the purse-seiners remained unchanged at 135,489 tonnes (dropping by only 0.04%) whereas there was a slight increase in the landings by trawlers licensed to operate in this inshore sector (by 3.15%). Although the number of traditional fishing vessels licensed in 1997 dropped as stated, production from the traditional fishing vessels showed a significant increment by 7.9% from 353,197 tonnes in 1996 to 381,236 tonnes in 1997. A huge proportion of the inshore's production was contributed by efficient

commercial gears namely trawlers and fish purse seiners licensed to operate in this sector. It is known that these commercial fishing vessels ventured and operated beyond the 30 nautical mile limit of the inshore zone. Further more, looking at the production of the traditional fishing vessels itself, it is highly noticeable that the increase in landings was contributed by vessels operating gears like stationary traps (bubu) which increased by as much as 16.2%, and hook & line which increased by a remarkable 74.8%. The increase in landings by vessels operating hooks and lines were also well contributed by fishing vessels operating in the deep-sea fishing areas. Operations of stationary traps were also known to be in areas out of the inshore fishing sector/zone. Harvest of shellfish which depends on natural spatfalls and natural environmental factors, also increased from 17,772 tonnes to 24,698 tonnes in 1997. There was an decrease in the landings of other traditional fishing vessels especially for those operating inside the inshore zone itself. Landings from traditional vessels operating drift netters recorded a noticeable drop of 24% in 1997 from 28,404 tonnes in 1996.

Table II

**Landings of Deep-Sea Fisheries by Gear Group, 1997
(Quantity in Tonnes)**

	Trawl nets 70 GRT & above	Fish Purse Seine nets 70 GRT & above	Hooks and Lines 70 GRT & above	Total
West Coast of Peninsular Malaysia	22,132	9,401	0	31,533
East Coast of Peninsular Malaysia	28,785	33,685	0	62,470
Peninsular Malaysia	50,917	43,086	0	94,003
Sabah	0	2,235	87	2,322
Sarawak	19,156	636	186	19,978
Federal Territory of Labuan	5,200	9,537	46	14,783
Total	75,273	55,494	319	131,086

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	54,776,165	30,105,553	0	84,881,718
East Coast of Peninsular Malaysia	71,242,178	107,872,096	0	179,114,274
Peninsular Malaysia	126,018,343	137,977,649	0	263,995,992
Sabah	0	7,157,414	374,106	7,531,520
Sarawak	47,410,636	2,036,712	799,812	50,247,160
Federal Territory of Labuan	12,869,874	30,541,077	197,803	43,608,754
Total	186,298,853	177,712,852	1,371,721	365,383,426

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 131,086 tonnes of fish in 1997 which was 11.21% of the total marine fish landing of Malaysia and showed a drop of 1.10% in 1997 as compared to the preceeding year. In terms of size of landings, the West Coast of Peninsular Malaysia contributed 24.06% (31,533 tonnes), East Coast 47.66% (62,470 tonnes), Sabah 1.77% (2,322 tonnes), Labuan 11.28% (14,783 tonnes) and Sarawak 15.24% (19,978 tonnes) of the total landings of the deep-sea fisheries. The deep-sea fisheries contributed RM365.38 million in 1997 which was 9.94% of the total marine fish landing value in Malaysia. The value of deep-sea fisheries increased by 4.22% from RM350.56 million to RM365.38 million in 1997.

Within the deep-sea fishing sector, landing from vessels operating purse seines reported a remarkable increment of 54.3% from 35,954 tonnes in 1996 to 55,494 tonnes in 1997. However this contribution still failed to offset the decline in landings

from the trawlers within this sector, which dropped by 21% from 96,267 tonnes in 1996 to 75,269 tonnes in 1997. New comers to the deep-sea fishing industry were vessels operating hooks and line which in 1997 contributed 0.24% of the catches in this sector amounting to RM1.37 million in value.

4. AQUACULTURE

4.1 Aquaculture production

Generally, the aquaculture industry, through the last decade provides about 10% 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 production for 1997 have been badly affected by the poor cockle harvest which depended on natural spatfalls and environmental factors. The poor harvest brought down the aquaculture production by 0.99% to 107,983 tonnes this year. However production from other culture systems increased by 33% from 37,267 tonnes to 49,583 tonnes in 1997.

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 11.00% from 278,462,210 pieces in 1996 to 309,093,053 pieces in 1997 valued at RM61.22 million as compared to RM54.66 million in the previous year.

A total of 19,717 fish farmers/culturists were involved in the aquaculture industry in 1997, increasing by just 0.93%. The bulk of the work force were involved in the freshwater sector especially in pond cultures (70.16 %), with the rest in ex-mining pool (1.32 %), freshwater cage (6.53 %), freshwater cement tank (1.32 %), and

freshwater pen (3.35%). Apparently the population of the farmers and culturists did not increase significantly. However, production of all culture systems (except for cockle) showed remarkable improvements. 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 production rate have improved significantly.

4.2 Freshwater culture

Contributing 30% to the total aquaculture production, in 1997, production from the freshwater culture, improved remarkably by 44.05% from 21,987 tonnes to 31,672 tonnes. In terms of value, it recorded RM239.66 million, which is 53.45% more from the previous year, thus contributing to the total aquaculture value by nearly 40%.

The **freshwater pond culture** spearhead the sector, producing 77.03% (24,397 tonnes) of the total freshwater production improving by 41.6% as compared to the production recorded in 1996. In terms of value, it recorded a significant increase of 52.34% from RM135.94 million to RM207.09 million. Most states showed an increase in production with Selangor heading the list growing by nearly five folds to produce a record harvest of 3,266 tonnes. Production from Perak also doubled to 1,741 tonnes followed by Pahang, which managed to produce 9,022 tonnes increasing by 53%. Sabah which normally contributed up to 30% did not show any growth in 1997. Other states also recorded higher production but contribution from Perlis, Kedah and Sarawak were not impressive. The major species cultured for freshwater ponds were red tilapia (8,605 tonnes), black tilapia (4,337) tonnes and eel (6,620 tonnes).

Production from **mining pool** also went up by 40.96% (from 2,022 tonnes in 1996 to 2,850 tonnes in 1997) posting a value of RM10.39 million improving by 48.0% from RM7.02 million in 1996. There was actually an overall reduction in area from 1,296 hectare in 1996 to 1,039 hectare in 1997. Production was mainly due to better average production rate which improved from 1.56 tonnes/hectare/year in 1996 to 2.74 tonnes/hectare in 1997. Both Perak and Selangor remained strong in the mining pool culture, showing remarkable growths, however Pahang was not

able to sustain growth as production slumped from 320 tonnes to 64 tonnes. Major species produced remained the same with red tilapia being the favourite (33.32%), followed by big head carp (21.87%) and grass carp (7.74%).

Freshwater cage culture which contributed 18.13% to the overall freshwater production also registered a growth of 17.5% increasing from 1,550 tonnes to 1,883 tonnes in 1997. This increase was due to the expansion in area by 64% from 85,815 square meters to 140,708 square meters in 1997. The average production rate however dropped from 25.9 kg/m² to 13.36kg/m². Red tilapia remained the most common species (62.13%) with catfish (17.28%) and river catfish (16.7%) also commonly cultured. Production from Terengganu jumped from 57 tonnes in 1996 to a remarkable 808 tonnes in 1997. Pahang also increased production from 389 tonnes to 579 tonnes in 1997. Production from other states like Perak, Selangor, N.Sembilan and Melaka remained sluggish.

Cement and Pen cultures together provided 2,369 tonnes of mainly red tilapia, and freshwater catfish. These culture systems have been picking up especially in Perak, Selangor and Kelantan. Their high average production rate of 20.24 kg/m² which have improved from 14.5 kg/m² in 1996 have enable freshwater fish to be produced from small area of tanks and pens. Kelantan have been very active being able to produce 1,304 tonnes in 1997 going up from just 7.51 tonnes in 1996.

4.3 Brackishwater System

Basically production from the brackishwater sector includes cockle harvest which on the average normally makes up 60-70% of the total production. Other culture includes brackishwater ponds, brackishwater cages, mussel and oyster cultures.

The importance of the brackishwater sector was reflected by its contribution of 70% to the total aquaculture production in 1997. This contribution have in fact declined from 80% in 1996 because of the poor cockle harvest. The production in 1997 stood at 76,311 decreasing by 12.36% from 87,075 tonnes in 1996. With the drop in cockle harvest which was of lower value, and the increase in production of other

higher value harvest, the value contributed by the brackishwater sector rose by 20.63% from RM306.22 million to RM369.38 million.

Cockle production contracted by a significant 18.7% from 71,795 tonnes in 1996 to 58,400 tonnes in 1997. Perak harvested only three quarter of the cockle produced in 1996 declining from 45,058 tonnes to 33,898 tonnes. Penang also experienced a drop in harvest from 16,692 tonnes to 12,623 tonnes. On the other hand harvest in Selangor did not show a similar trend, where production actually increased from 9,884 tonnes to 11,589 tonnes in 1997. Incidentally, there were no reduction in the area of farming or the number of culturists especially in Perak and Penang, which experienced the poor harvest. Reports have been made indicating poor cockle seed spatfall as the main reason of the decline in production.

Production from the **brackishwater ponds** moved up by 19% from 8,954 tonnes in 1996 to 10,384 tonnes in 1997, as more people were involved (up 30% to 5,533) and the area for ponds were doubled to 5,910 hectare. The value also increased by 25% from RM179.01 million to RM 224.94 million. Production went up by three folds for Kedah, double for Melaka and four folds for Pahang. Sabah which normally produced 30% of the total brackishwater pond increased its production in 1997 by 30% to 2,900 tonnes. Other states did not show any significant increment as compared to their production in 1996.

Growth from the **brackishwater cages** culture was not impressive managing only 0.04% to 5,619 tonnes. However, the value increased by 16% from RM86.38 million to RM100.29 million in 1997. Selangor registered an increment of 25% from 892 tonnes and Perak recorded a decline by 19% to 1,444 tonnes. Production from other states, even for Johore remained stagnant. Main produce from the brackishwater cages were barramundi (siakap) and mangrove snappers both making up 74% of the production. Other species included grouper, red snapper, red tilapia and crabs.

Mussel production improved by 53% from 1,163 tonnes in 1996 to 1,779 tonnes in 1997. Johore being the main producer spearhead this culture production when it nearly double its production to 1,465 tonnes contributing up to 82% of the nation's

mussel harvest. Perak, Penang and Perlis also showed significant increase in production. Overall the value for mussel production approached RM1 million from RM568, 000 in 1996 increasing by 60%. Oyster production doubled to 127 tonnes in 1997 giving a value of RM2.1 million increasing from RM594, 000 in 1996. Sabah showed a strong growth in oyster cultures, chalking an all time high of 73 tonnes as compared to about 10 tonnes previously.

4.4 Ornamental Fish

The total production of ornamental fish increased by 11.00% from 278,462,210 pieces in 1996 to 309,093,053 pieces in 1997. In terms of value, the increase was 12.00% (from RM54.66 million in 1996 to RM61.22 million in 1997). Johor remained as the main producer of ornamental fish contributing 194,152,116 pieces which was 81% of the total production of ornamental fish in 1997. This was followed by Perak which contributed 69,020,479 pieces or 22.33%, Selangor 30,291,119 pieces (9.80%) and Penang 15,423,743 pieces which was 4.99% of the total production of ornamental fish. The two main groups of ornamental fish produced were Cyprinids contributing 45.53% (Goldfish, Koi, Barb, Danio) and Poecilids contributing 25.60%.

5. FINGERLINGS PRODUCTION

Production of freshwater fingerlings from government hatcheries in 1997 amounted to 26.90 million pieces. The main species breed were javanese carp (8.5 million pieces), red tilapia (4.99 million pieces), common carp (3.81 million pieces) and river carp (2.45 million pieces). All the above species constituted 73.33% of the total production of the freshwater fingerlings from government hatcheries.

Production of brackishwater fish/prawn fingerlings from government hatcheries in 1997 were 79.25 million pieces. The main species produced were barramundi (51.21 million pieces), tiger prawn (21.14 million pieces) and giant fresh water prawn (6.66 million pieces). All the above species constituted 99.69% of the total production of brackishwater fish/prawn fingerlings from government hatcheries.

In 1997, 6.89 million pieces of freshwater fingerlings was released into public waterbodies and 5.39 million pieces of freshwater fingerlings was used for miscellaneous purposes.

In 1997, 25.69 million pieces of fresh water fingerlings were distributed to fish culturists. Fish culturists in state of Negeri Sembilan received 18.18 million pieces of freshwater fish fingerlings, Sabah 3.38 million pieces and Perak 1.25 million pieces. All the above states received 88.77% of the total fish fingerlings distributed to states.

ABMA/su..(BUKU1-291)

PETA, CARTA DAN GRAF
MAPS, CHARTS AND GRAPHS

DAERAH-DAERAH PERIKANAN

FISHERIES DISTRICTS

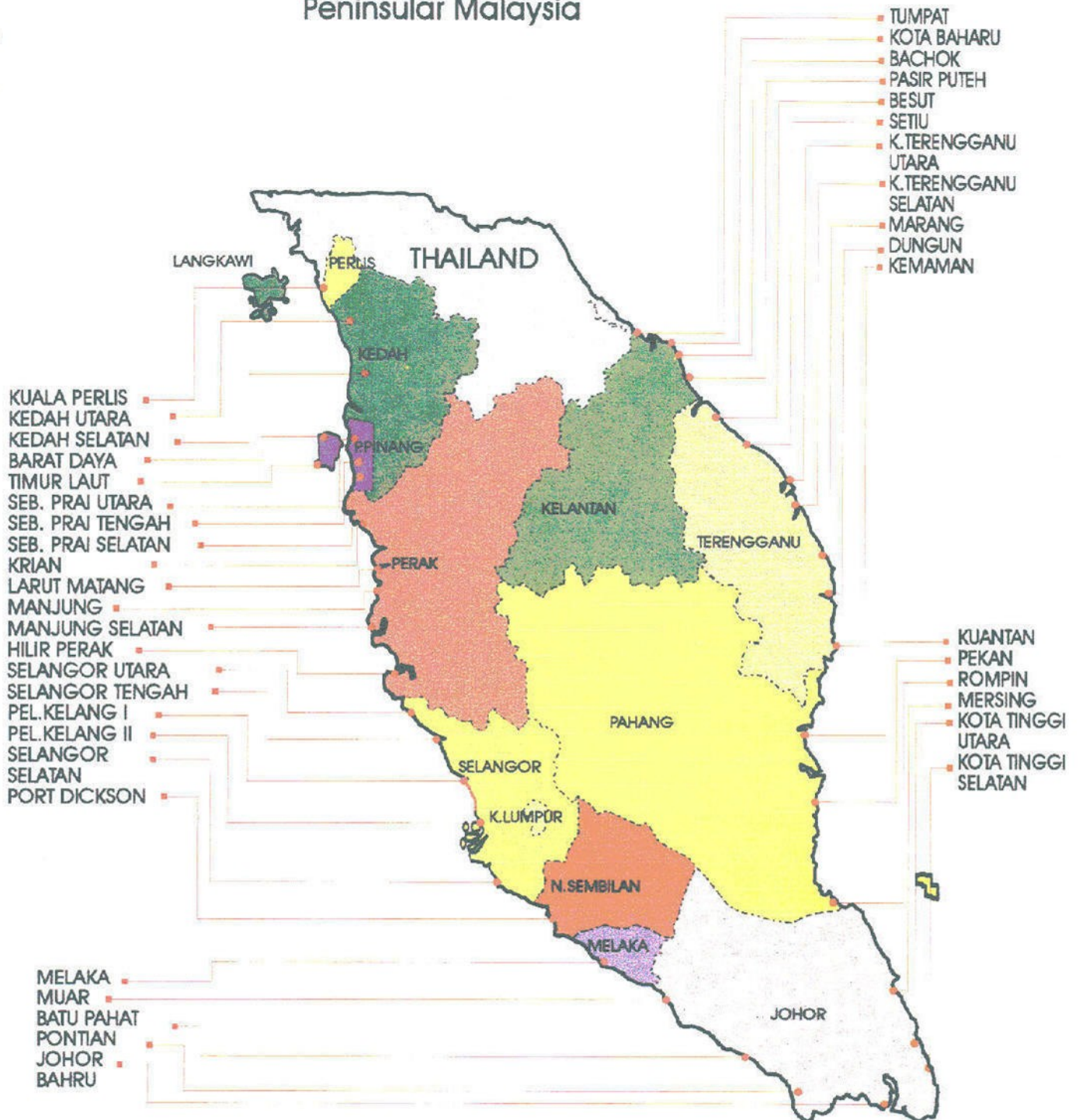
MALAYSIA

MALAYSIA - DAERAH- DAERAH PERIKANAN

Malaysia - Fisheries Districts

SEMENANJUNG MALAYSIA

Peninsular Malaysia



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

KUDAT

KOTA MARUDU

KOTA BELUD

TUARAN

KOTA KINABALU

PAPAR

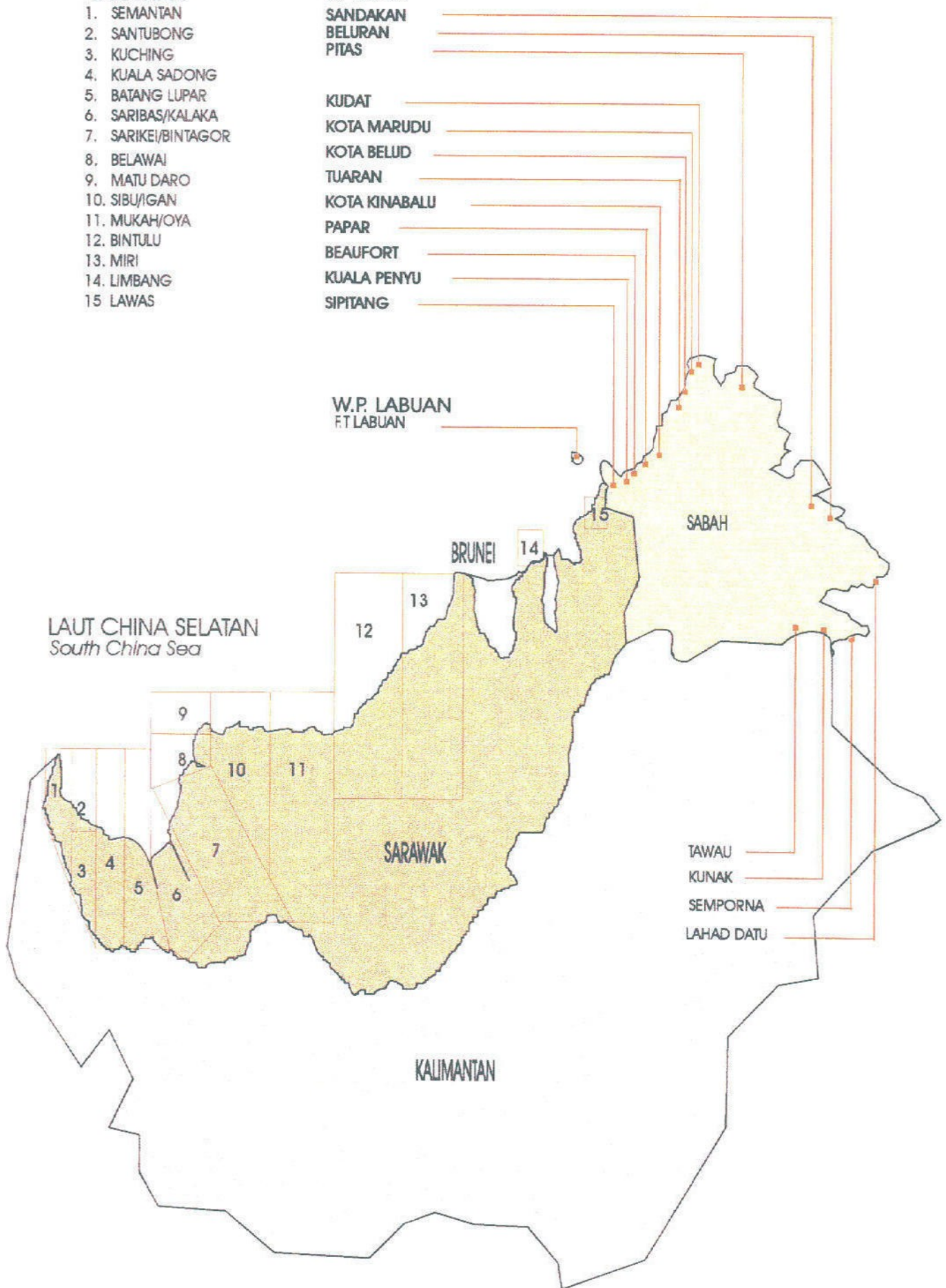
BEAUFORT

KUALA PENYU

SIKITANG

W.P. LABUAN
FT LABUAN

LAUT CHINA SELATAN
South China Sea



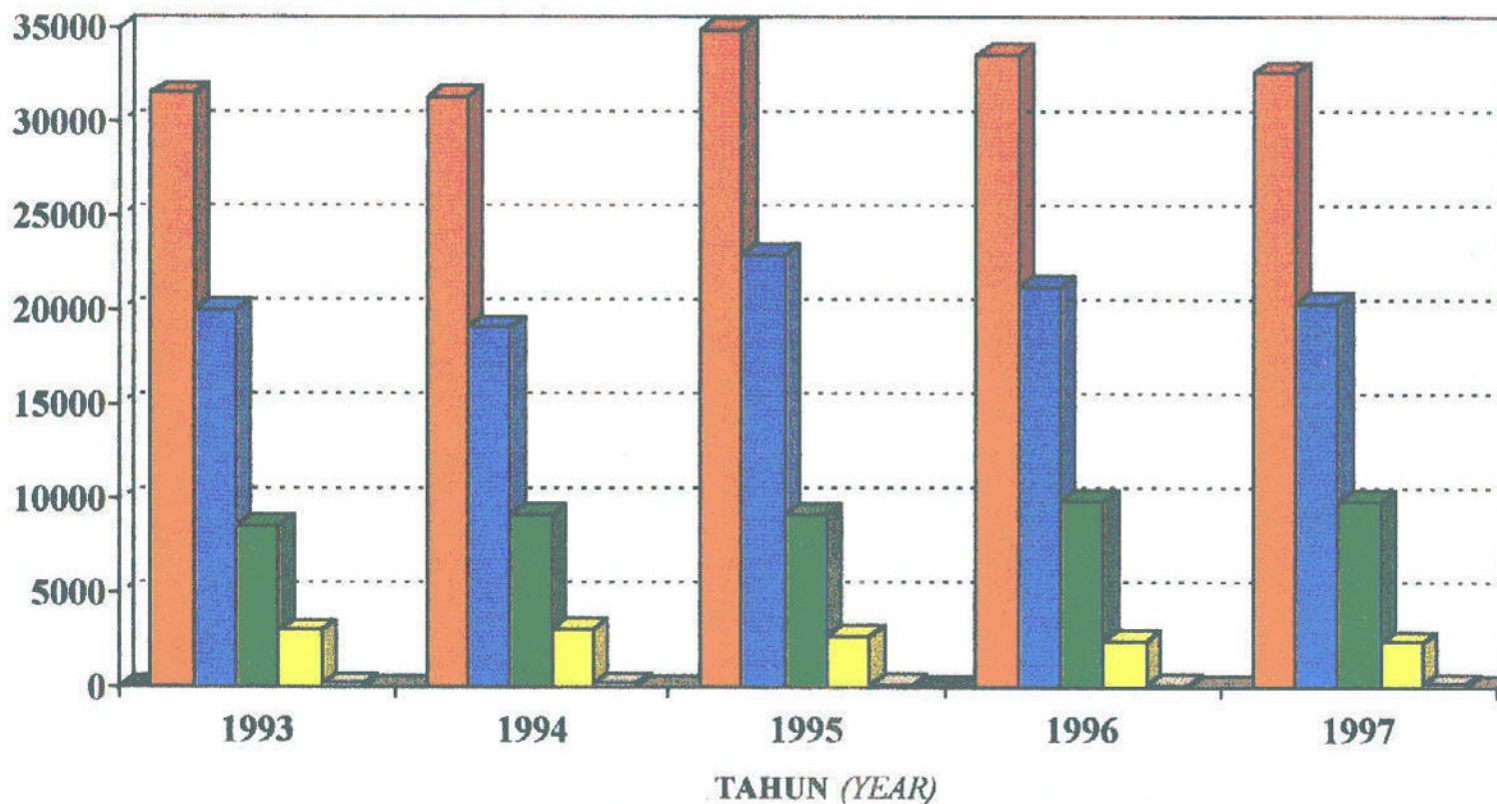
BILANGAN VESEL MENANGKAP IKAN YANG DILESENKAN, 1993-1997

(Number Of Fishing Vessels Licensed, 1993-1997)

MALAYSIA

BILANGAN VESEL

(Number Of Vessels)



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

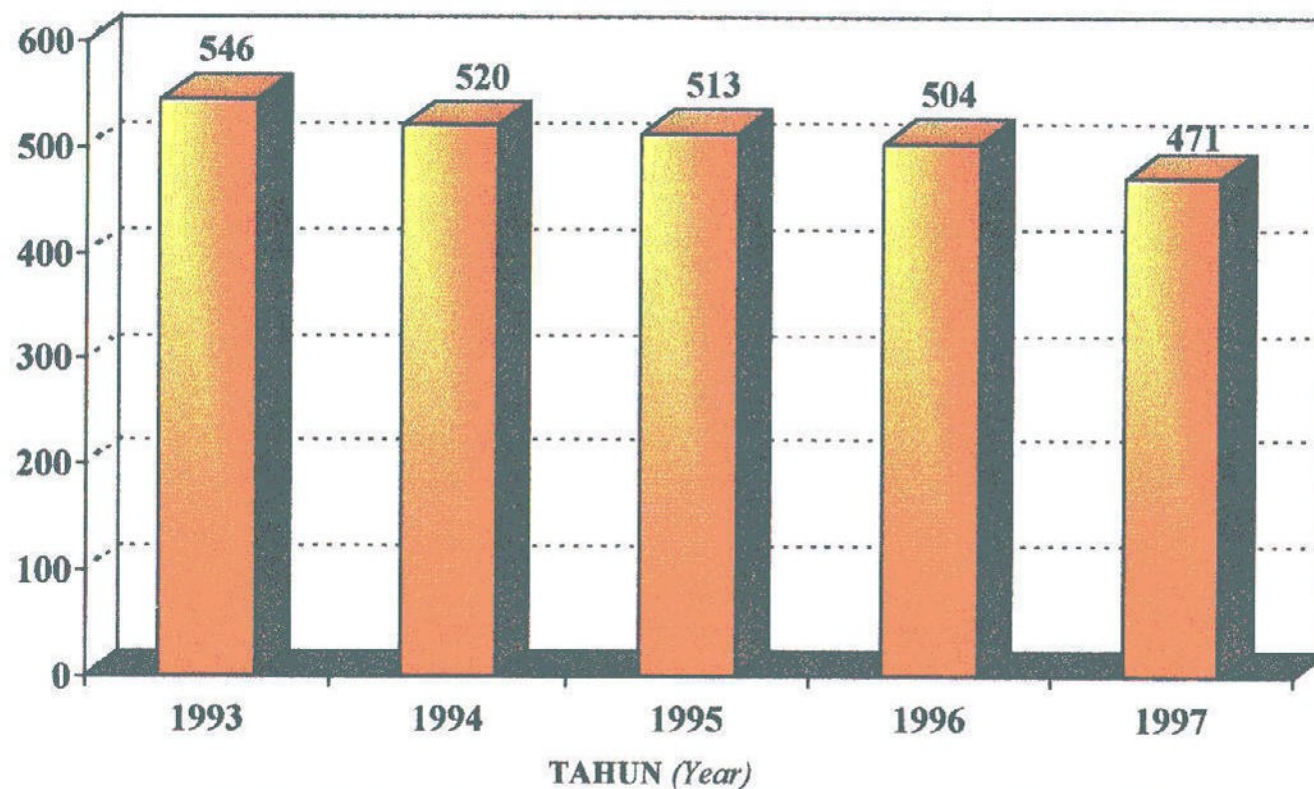
BILANGAN VESEL-VESEL LAUT DALAM YANG DILESENKAN, 1993-1997

(Number Of Deep-Sea Vessels Licensed, 1993-1997)

BILANGAN VESEL

(Number Of Vessels)

MALAYSIA



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

ARAH ALIRAN PENDARATAN IKAN LAUT, 1993-1997

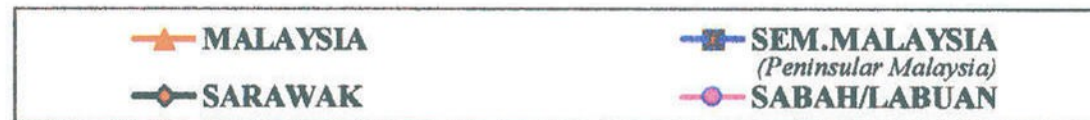
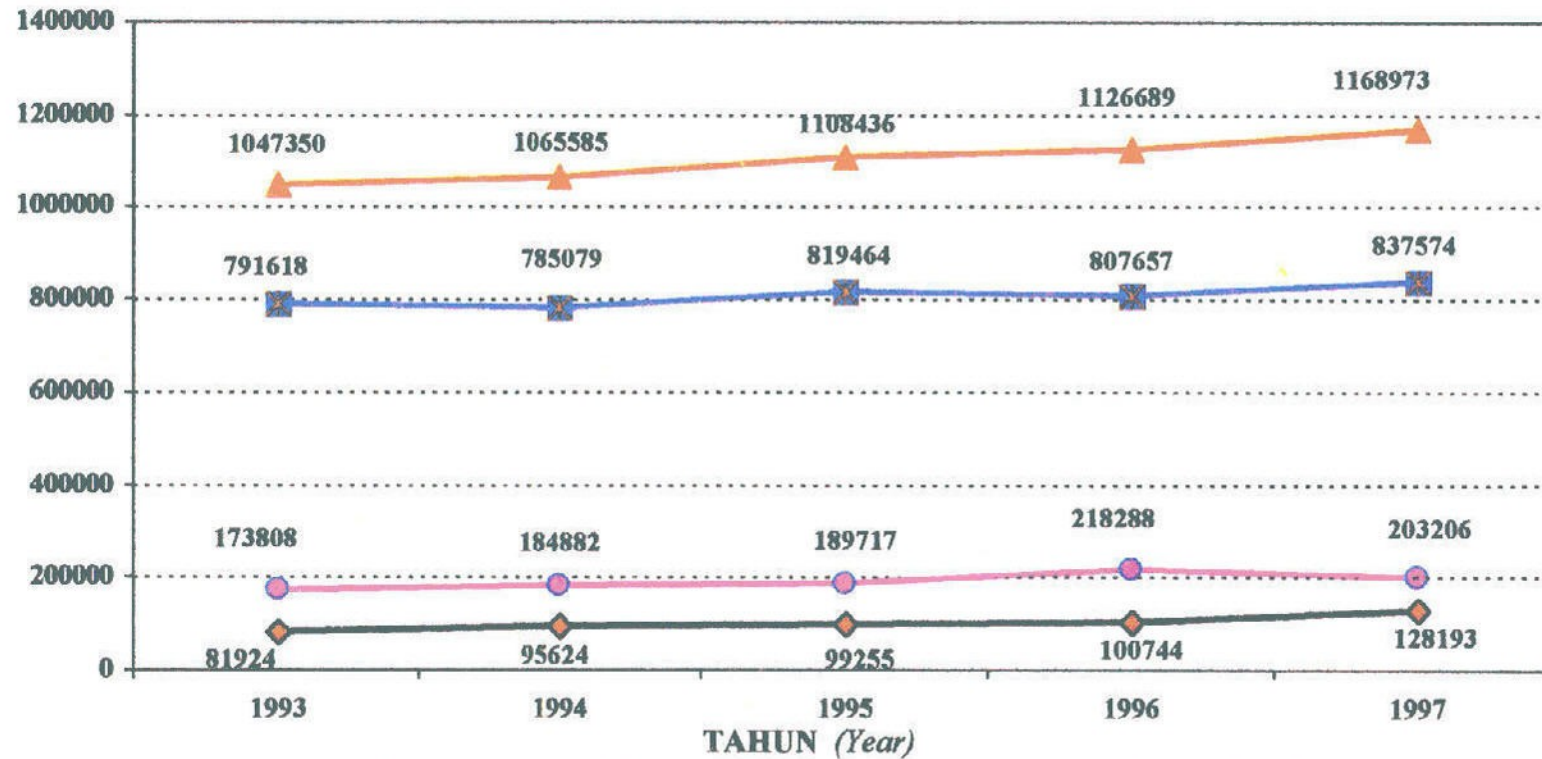
(Trend Of Marine Fish Landings, 1993-1997)

CA
CH

KUANTITI DALAM TAN METRIK

(Quantity in Tonnes)

MALAYSIA



ARAH ALIRAN PENDARATAN UDANG, 1993-1997

(Trend Of Prawn Landings, 1993-1997)

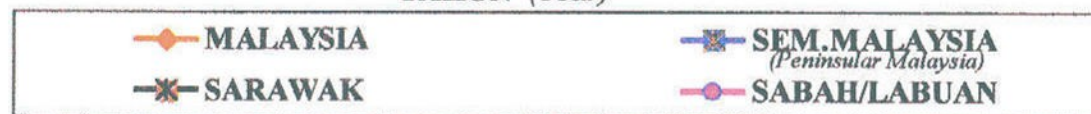
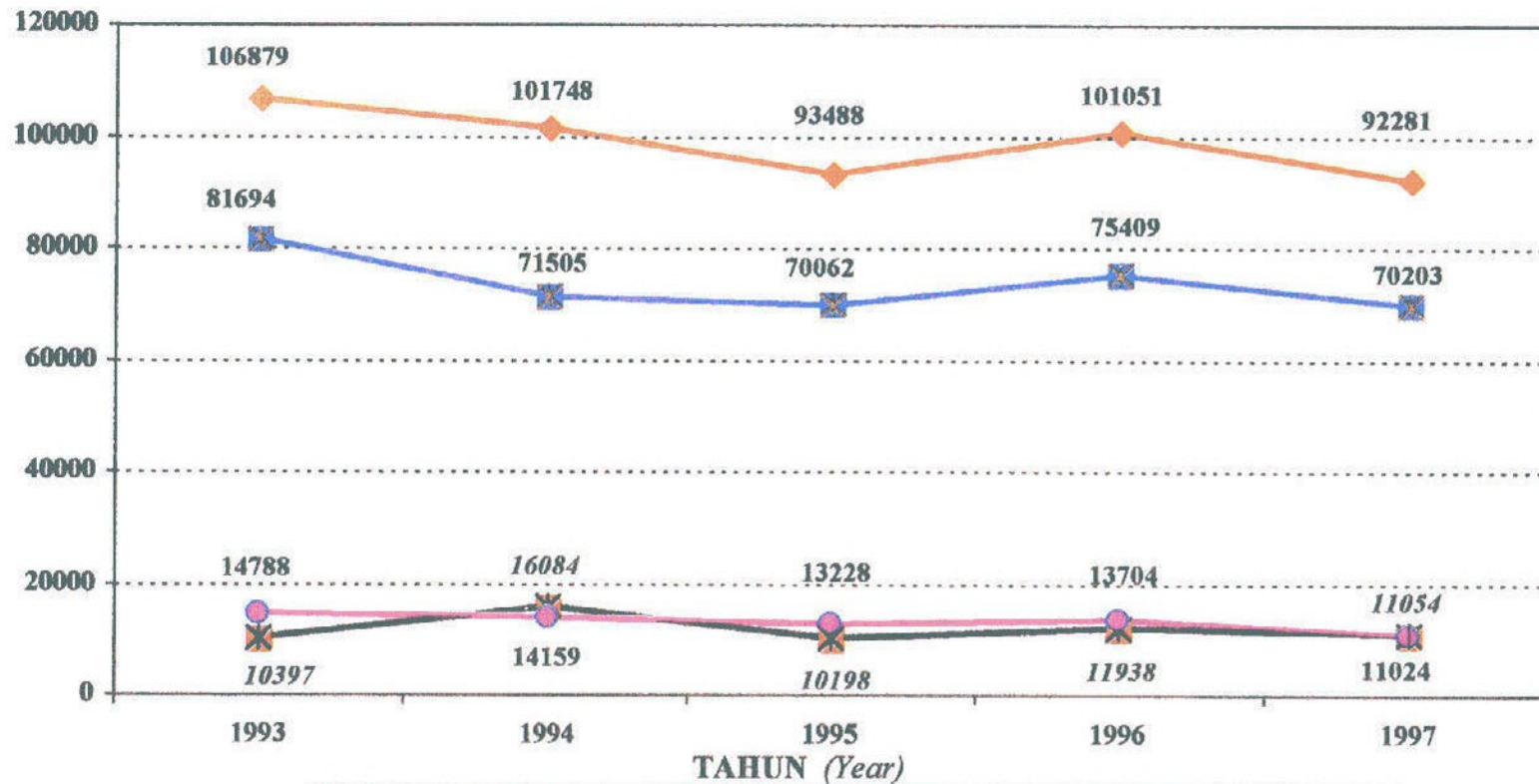
CARTA IV

CHART IV

MALAYSIA

KUANTITI DALAM TAN METRIK

(Quantity in Tonnes)



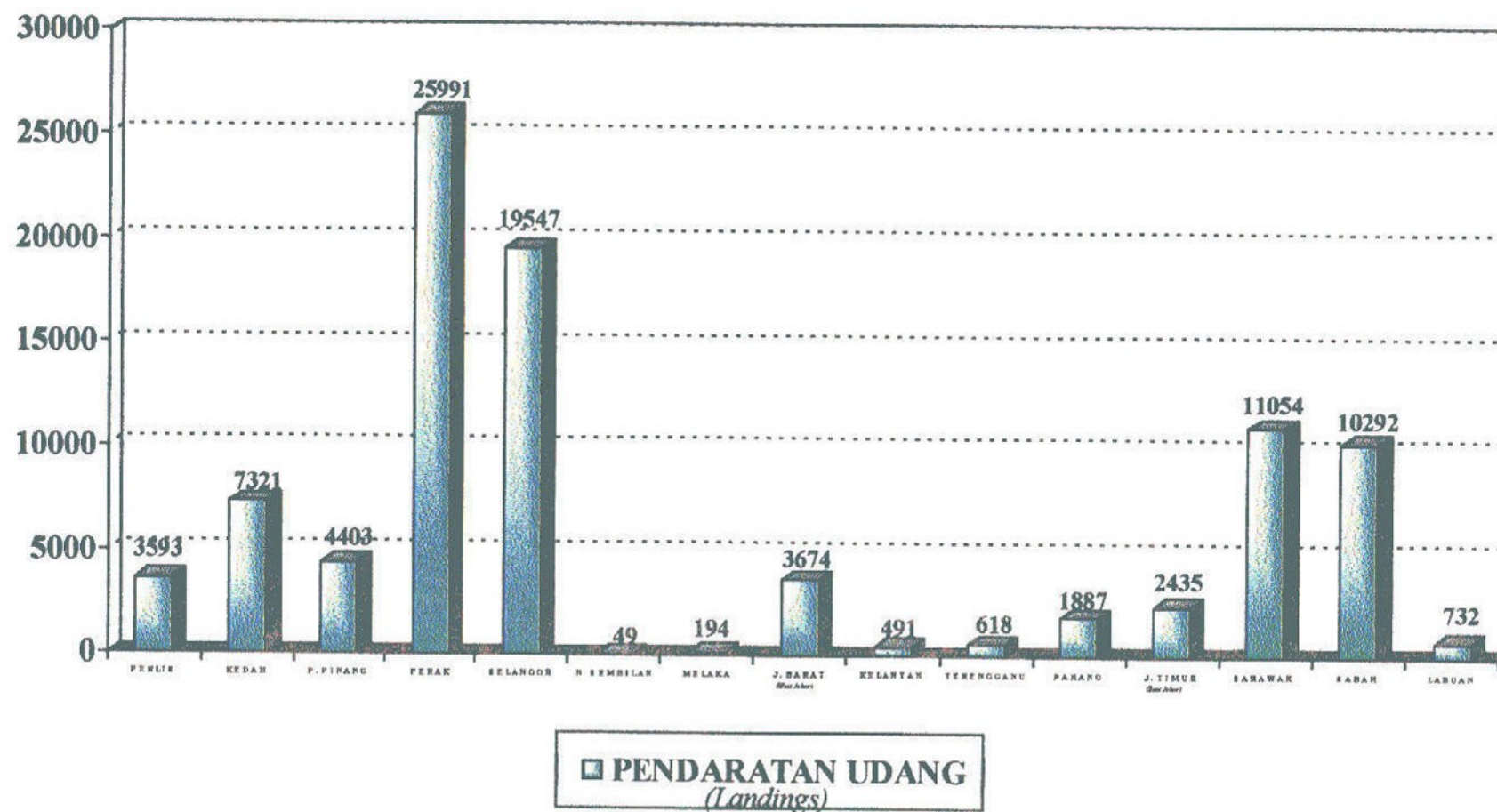
PENDARATAN UDANG , 1997

(Prawn Landings, 1997)

MALAYSIA

Kuantiti Dalam Tan Metrik

(Quantity in Tonnes)

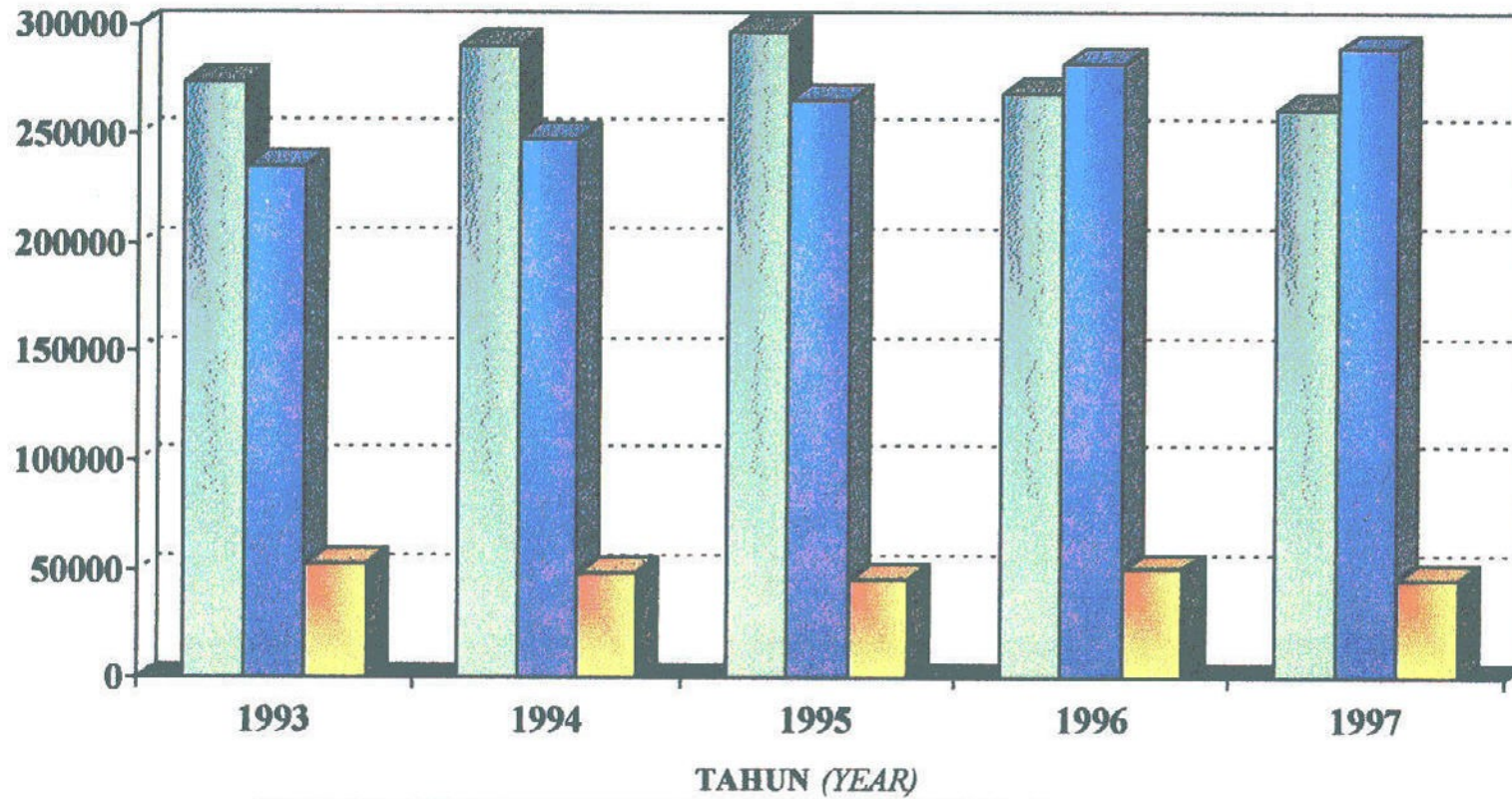


PENDARATAN PUKAT TUNDA, 1993-1997
(Trawl Landings, 1993-1997)

CARTA VI
CHART VI

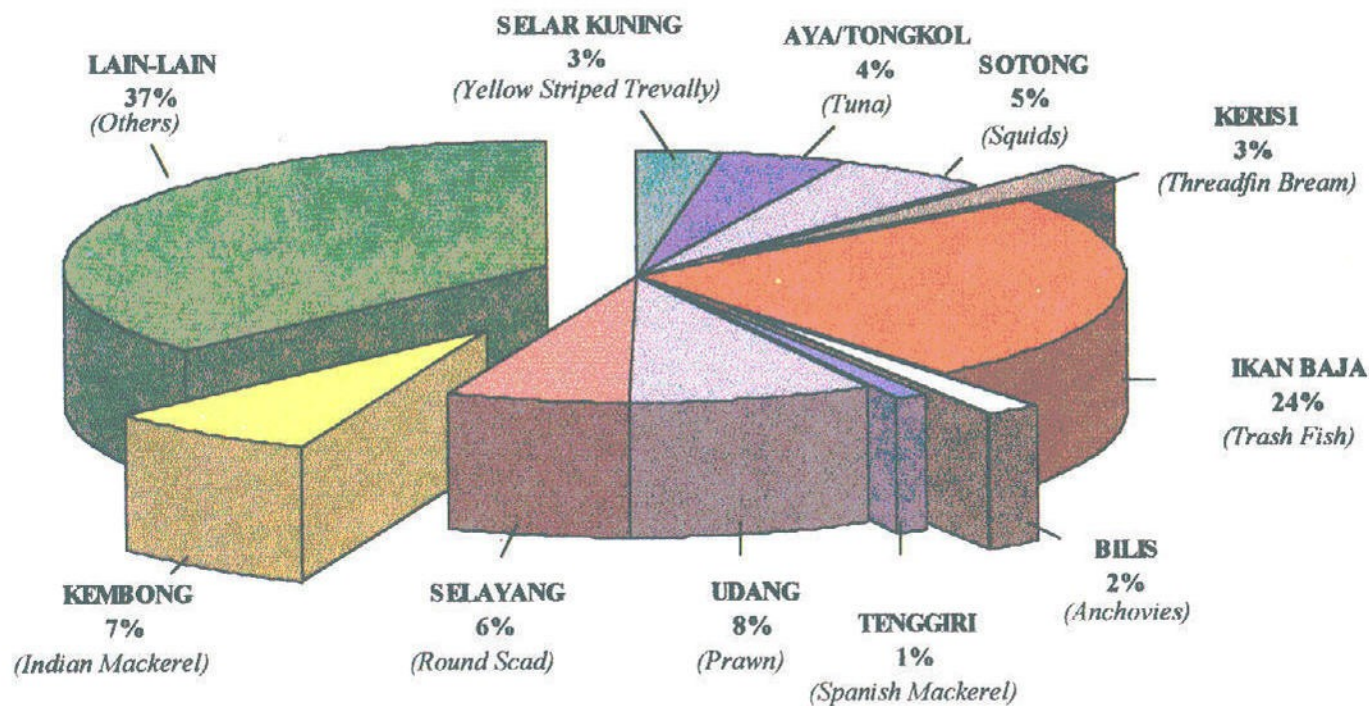
MALAYSIA

KUANTITI DALAM TAN METRIK
(Quantity in Tonnes)



PENDARATAN IKAN LAUT MENGIKUT SPESIES UTAMA, 1997
(Landings Of Marine Fish By Main Species, 1997)

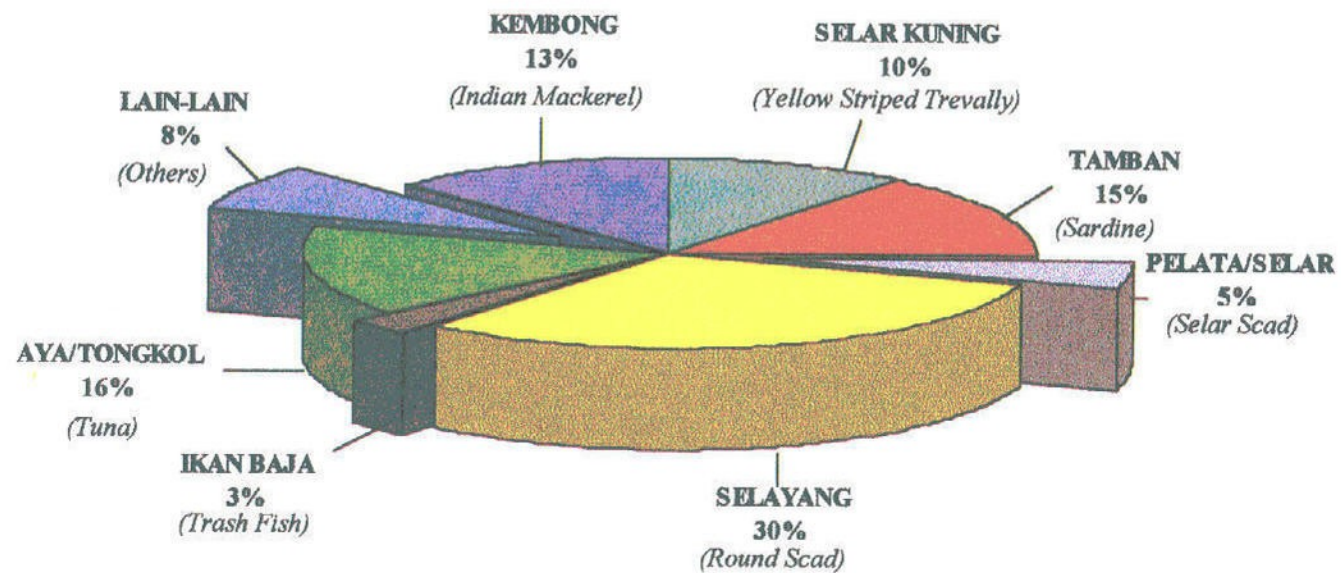
MALAYSIA



PENDARATAN PUKAT JERUT IKAN MENGIKUT SPESIES UTAMA, 1997

(Purse - Seine Fish Landings By Main Species, 1997)

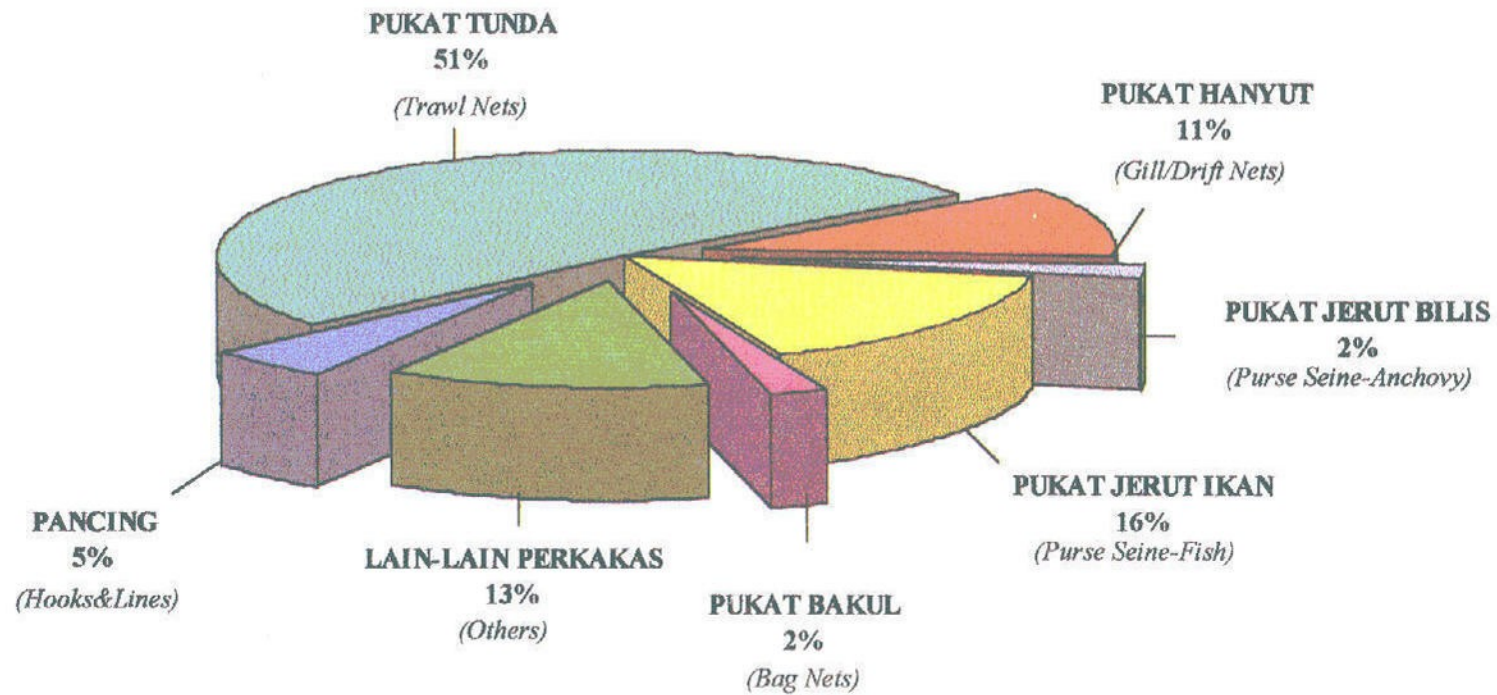
MALAYSIA



PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS, 1997

(Landings Of Marine Fish By Gear Group, 1997)

MALAYSIA



ARAH ALIRAN NILAI PASARAN IKAN LAUT, 1993 -1997

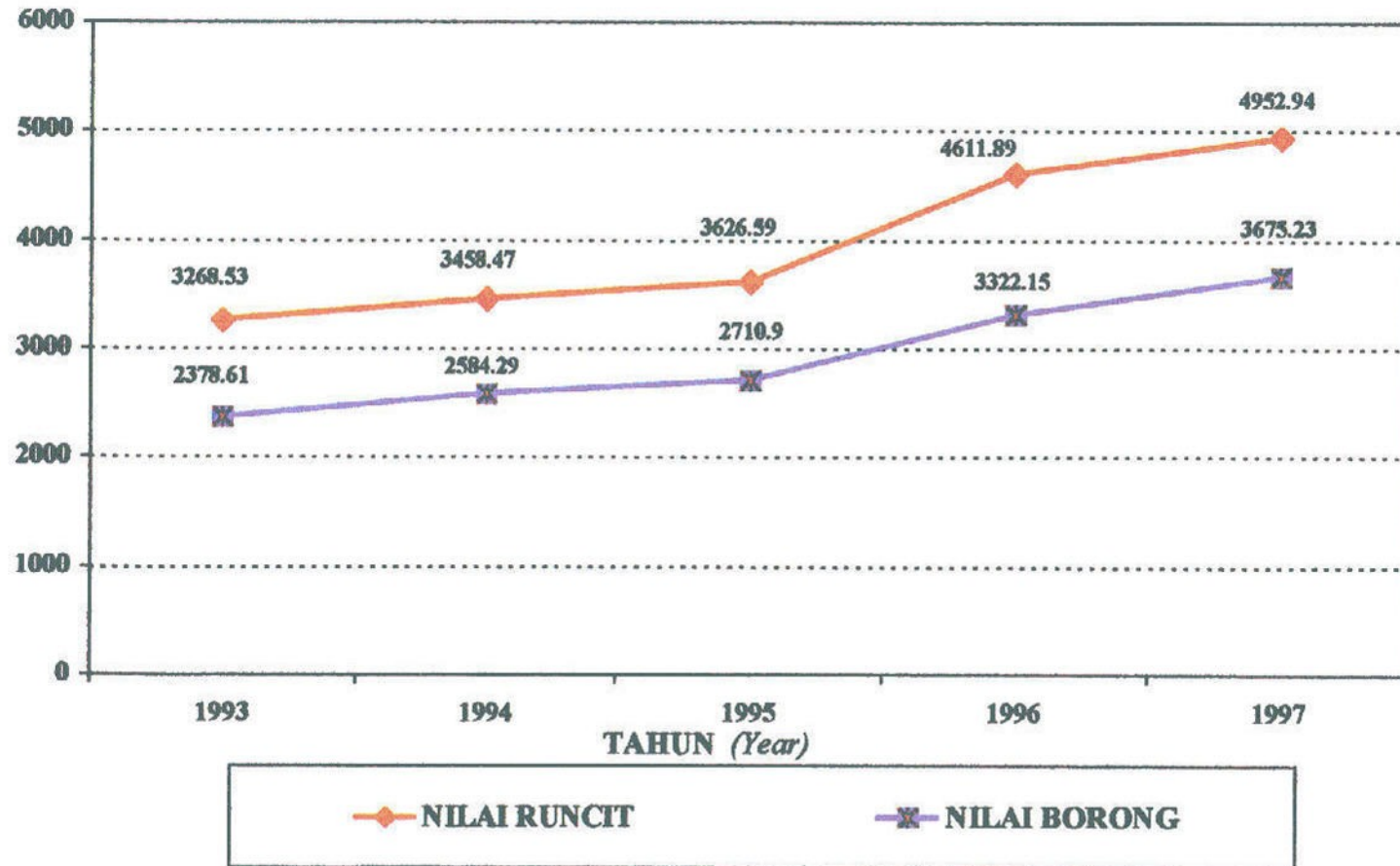
(Trend Of Market Values Of Marine Fish, 1993 -1997)

CARTA X
CHART X

NILAI DALAM RM JUTA

(Values in RM Million)

MALAYSIA



ARAH ALIRAN PENGELUARAN TERNAKAIR, 1993 - 1997

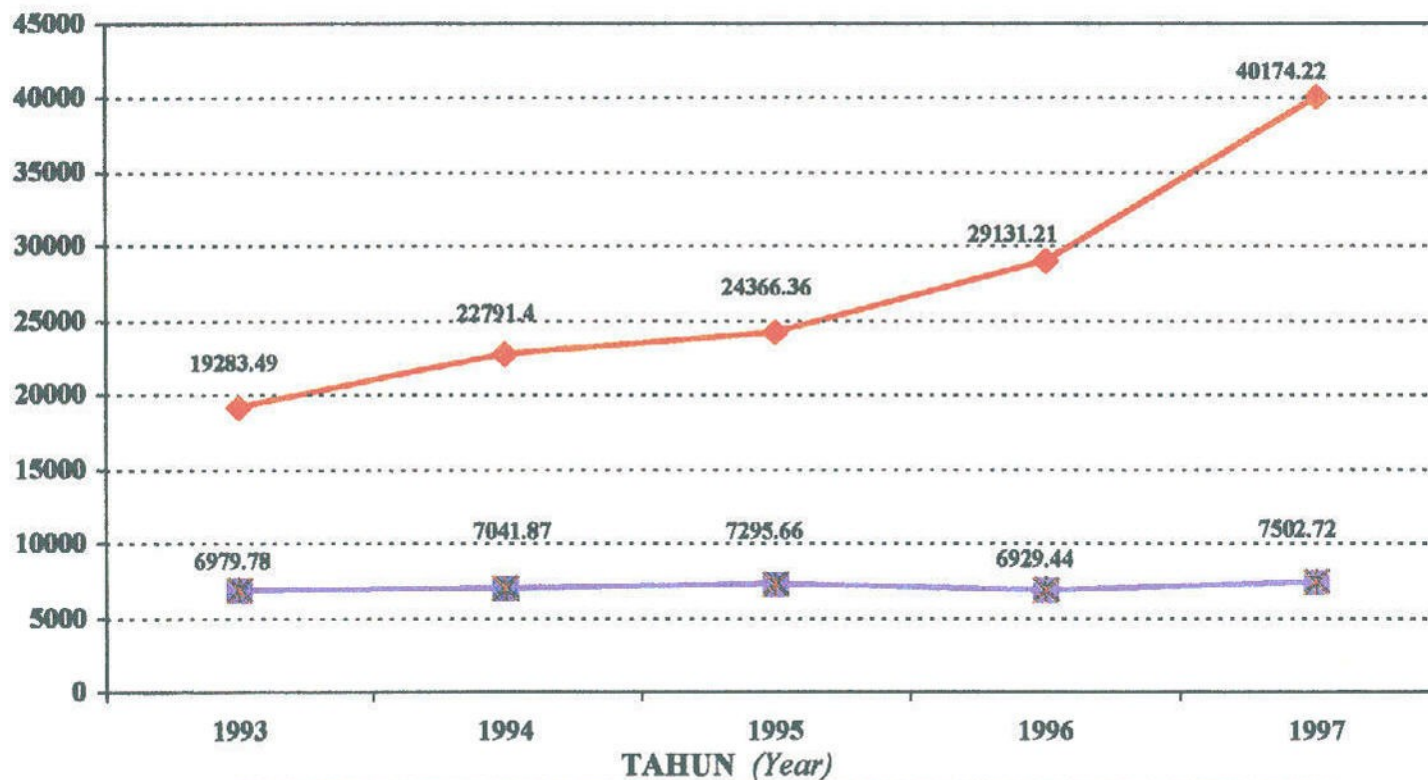
(Trend Of Aquaculture Productions, 1993 - 1997)

CARTA XI
CHART XI

KUANTITI DALAM TAN METRIK

(Quantity in Tonnes)

MALAYSIA



—◆— KOLAM/B.LOMBONG/T.SIMEN/KANDANG

(Pond/Ex.Mining Pools/Cement Tanks/Pen Culture)

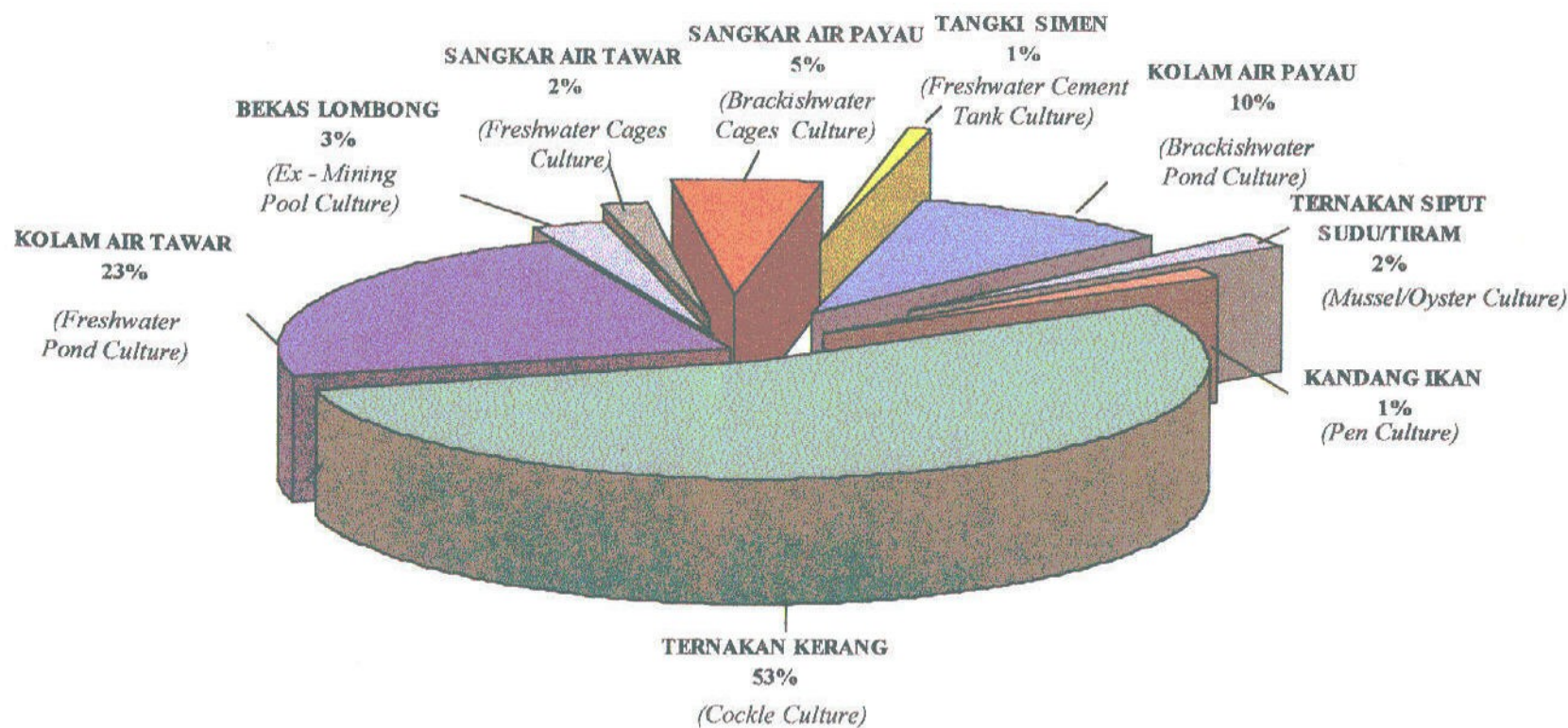
—■— SANGKAR

(Cages)

PENGELUARAN TERNAKAIR MENGIKUT JENIS TERNAKAN, 1997

(Production Of Aquaculture By Type Of Culture, 1997)

MALAYSIA



JADUAL

TABLES

PERIKANAN LAUT
MARINE FISHERIES

MALAYSIA

JADUAL (TABLE) 1.1

BILANGAN NELAYAN YANG BEKERJA DI ATAS VESEL-VESEL BERLESEN, 1997
NUMBER OF FISHERMEN WORKING IN LICENSED VESSELS, 1997

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			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	1,988	3,556	996	1,185	758	126	641	2,957	12,207	2,523	7,008	2,821	2,898	15,250	6,642	15,176	108	21,926	49,383
Cina Chinese	202	601	1,540	5,876	4,809	148	226	1,631	15,033	1	10	793	1,296	2,100	813	183	8	1,004	18,137
India Indians	0	0	34	129	49	21	1	1	235	0	0	0	1	1	0	0	0	0	236
Portugis Portuguese	0	0	0	0	0	0	54	0	54	0	0	0	0	0	0	0	0	0	54
Thai Thais	1,783	683	4	0	0	0	0	0	2,470	1,275	1,360	93	359	3,087	0	0	35	35	5,592
Indonesia Indonesians	0	0	0	0	0	4	48	0	52	0	0	3	0	3	0	0	10	10	65
Lain-lain Others	0	0	0	0	9	3	0	195	207	34	0	0	2	36	8	5,056	215	5,279	5,522
Jumlah Besar Grand Total	3,973	4,840	2,574	7,190	5,625	302	970	4,784	30,258	3,833	8,378	3,710	4,556	20,477	7,463	20,415	376	28,254	78,989

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 DI ATAS VESEL- VESEL BERLESEN MENGIKUT KUMPULAN PERKAKAS DAN NEGERI,1997

NUMBER OF FISHERMEN WORKING IN LICENSED VESSELS BY GEAR GROUP AND STATE, 1997

Negeri State	Johor												Jumlah Kecil Sub- Total	W.P Labuan F.Territory			Jumlah Kecil Sub- Total	Jumlah Besar Grand Total
Kumpulan Perkakas Gear Group	Perlis	Kedah	Pulau Pinang Penang	Perak	Selangor	Negeri Sembilan	Melaka Malacca	Barat West Johore	Kelantan	Terengganu	Pahang	Johor Timur East Johor		Sarawak	Sabah			
Pukat Tunda Trawl Nets	670	1,720	268	3,061	2,189	1	3	667	506	872	1,446	1,087	12,490	2,936	4,695	24	7,655	20,145
Pukat Tarik/Seine Nets:																		
Pukat Jerut Ikan Purse Seine-Fish	2,683	246	225	425	162	0	0	0	1,551	4,222	775	987	11,276	229	1,427	150	1,806	13,082
Pukat Jerut Bilis Purse Seine-Anchovy	0	1,177	0	89	0	0	0	0	33	154	152	0	1,605	0	0	0	0	1,605
Lain-lain Other Seines	0	30	334	734	8	0	0	8	70	11	7	2	1,204	0	223	0	223	1,427
Pukat Hanyut Gill/Drift Nets	587	1,572	1,581	2,244	2,514	267	903	3,760	1,150	995	590	2,082	18,245	4,298	6,219	114	10,631	28,876
Pukat Tangguk Lift Nets	8	27	0	1	1	0	0	0	50	90	36	0	213	0	1,479	18	1,497	1,710
Perangkap/Traps																		
Belat-Belat Stationary	0	2	0	0	0	0	0	54	0	0	0	41	97	0	219	0	219	316
Bubu Portable traps	6	4	10	53	6	18	0	77	61	315	272	44	866	0	383	10	393	1,259
Pancing Hooks & lines	19	16	66	131	90	16	59	51	410	1,663	424	276	3,221	0	4,656	60	4,716	7,937
Pukat Bakul Bag Nets	0	0	0	7	336	0	0	79	0	0	0	35	457	0	0	0	0	457
Pukat surung Push/Scoop nets	0	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Pukat Rentang Barrier Nets	0	45	57	86	51	0	5	23	0	0	0	0	267	0	43	0	43	310
Memungut siput Shellfish Collection	0	0	0	131	8	0	0	19	0	0	0	0	158	0	244	0	244	402
Pembawa ikan Fish Carriers	0	0	0	146	246	0	0	31	0	56	8	2	489	0	0	0	0	489
Rampaian Miscellaneous	0	1	29	82	14	0	0	15	2	0	0	0	143	0	827	0	827	970
Jumlah/Total	3,973	4,840	2,574	7,190	5,625	302	970	4,784	3,833	8,378	3,710	4,556	50,735	7,463	20,415	376	28,254	78,989

MALAYSIA
BILANGAN NELAYAN YANG BEKERJA DI ATAS VESEL YANG DILESENKAN
MENGIKUT DAERAH-DAERAH PERIKANAN, 1997
NUMBER OF FISHERMEN WORKING IN LICENSED FISHING VESSELS
BY FISHERIES DISTRICTS, 1997

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>
SEMENANJUNG MALAYSIA (PENINSULAR MALAYSIA)					
1) Kuala Perlis	1,988	202	0	1,783	3,973
2) Langkawi	352	16	0	656	1,024
3) Kedah utara	1,763	532	0	0	2,295
4) Kedah Selatan	1,441	53	0	27	1,521
5) Timur Laut/P.Pinang	225	305	13	4	547
6) Barat daya/P.Pinang	282	487	1	0	770
7) Seberang Prai Utara	216	120	1	0	337
8) Seberang Prai Tengah	71	28	2	0	101
9) Seberang Prai Selatan	202	600	17	0	819
10) Krian	276	1,212	2	0	1,490
11) Larut & Matang	120	1,555	1	0	1,676
12) Manjong	646	1,707	119	0	2,472
13) Hilir Perak	143	1,402	7	0	1,552
14) Selangor Utara	264	1,879	0	0	2,143
14) Selangor Tengah	143	912	5	0	1,060
16) Pelabuhan Kelang I	10	1,090	0	2	1,102
17) Pelabuhan Kelang II	208	621	4	0	833
18) Selangor Selatan	133	307	40	7	487
19) Port Dickson	126	148	21	7	302
20) Melaka	641	226	1	102	970
21) Muar	591	276	0	0	867
22) Batu Pahat	882	535	0	37	1,454
23) Pontian	605	668	0	37	1,310
24) Johor Bahru	879	152	1	121	1,153
25) Pengerang (Kota Tinggi)	1,000	475	0	2	1,477
26) Sedeli	611	276	0	159	1,046
27) Mersing	1,287	545	1	200	2,033
28) Kuantan	1,282	499	0	71	1,852
29) Pekan	867	51	0	21	939
30) Kuala Rompin	672	243	0	4	919
31) Kemaman	1,296	3	0	37	1,336
32) Dungun	1,078	0	0	0	1,078
33) Marang	1,145	0	0	179	1,324
34) Kuala Terengganu Utara	861	0	0	38	899
35) Kuala Terengganu Selatan	1,071	1	0	405	1,477
36) Besut	433	6	0	0	439
37) Setiu	1,124	0	0	701	1,825
38) Kota Bahru	748	0	0	372	1,120
39) Bachok & Pasir Putih	853	0	0	873	1,726
40) Tumpat	922	1	0	64	987
Jumlah Kecil <i>Sub-Total</i>	27,457	17,133	236	5,909	50,735

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	1204	237	0	0	1441
2) Santubong	979	36	0	0	1015
3) Pendam (Sadong Jaya)	168	9	0	0	177
4) Sematan	122	8	0	0	130
5) Batang Lupar (Sebuyau)	444	12	0	0	456
6) Saribas / Kalaka (Kabong)	431	10	0	0	441
7) Sibu / Igan	392	189	0	0	581
8) Sarikei / Bitangor	204	122	0	0	326
9) Mukah / Oya	799	10	0	0	809
10) Belawai	220	17	0	0	237
11) Matu Daro	215	19	0	0	234
12) Bintulu	421	35	0	0	456
13) Miri	629	109	0	8	746
14) Limbang	88	0	0	0	88
15) Lawas	326	0	0	0	326
Jumlah Kecil/Sub-Total	6642	813	0	8	7463
SABAH					
1) Tawau	1201	55	0	554	1810
2) Semporna	670	0	0	1322	1992
3) Kunak	253	59	0	263	575
4) Lahad Datu	431	0	0	221	652
5) Sandakan	2296	6	0	1685	3987
6) Beluran	1511	0	0	0	1511
7) Kudat	1941	12	0	672	2625
8) Kota marudu	826	2	0	4	832
9) Pitas	791	0	0	0	791
10) Kota Belut	1168	0	0	0	1168
11) Tuaran	776	0	0	0	776
12) Kota Kinabalu	1487	40	0	291	1818
13) Papar	298	2	0	23	323
14) Beaufort	525	3	0	0	528
15) Kuala Penyu	733	4	0	21	758
16) Sipitang	269	0	0	0	269
Jumlah kecil/Sub-Total	15176	183	0	5056	20415
W.P. LABUAN/LABUAN F.T.					
1) Kg. Bebuloh	19	0	0	0	19
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	22	8	0	260	290
Jumlah Kecil/Sub-Total	108	8	0	260	376
Jumlah Besar/Grand Total	49383	18137	236	11233	78989

Nota: Bumiputera Termasuk Orang Melayu dan Kumpulan Bumiputera Lain

Note: Bumiputeras including Malay and Other Indigeneous Groups

MALAYSIA
BILANGAN NELAYAN ASING YANG DILULUSKAN MENGIKUT NEGERI, 1997
NUMBER OF APPROVED FOREIGN FISHERMEN BY STATE, 1997

JADUAL (TABLE) 1.4

Negeri State Keturunan/ Ethnic Group	Pantai Barat/West Coast								Jumlah Kecil Sub- Total	Pantai Timur/East Coast				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		Sarawak	Sabah	W.P. Labuan Federal Territory Labuan	
Thai Thais	954	809	1	20	1	0	0	0	1,785	1,763	2,605	1,511	529	6,408	0	0	35	8,228
Indonesia Indonesian	0	0	0	0	1	0	0	0	1	0	0	3	0	3	42	0	10	56
Lain-Lain Others	0	0	0	0	0	0	0	0	0	34	1	0	0	35	0	0	118	153
Jumlah Besar Grand Total	954	809	1	20	2	0	0	0	1,786	1,797	2,606	1,514	529	6,446	42	0	163	8,437

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

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

MALAYSIA
BILANGAN VESEL MENANGKAP IKAN YANG DILESENKAN MENGIKUT NEGERI DAN KELAS MUATAN, 1997
NUMBER OF LICENSED FISHING VESSELS BY STATE AND TONNAGE CLASS, 1997

Jenis Type Negeri State	Jumlah Total	Vesel Tidak Berjentera Non- Powered vessels	Vesel Berjentera Sangkut Outboard- Powered vessels	Vesel Berjentera Dalam/Inboard-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	589	1	105	483	58	103	30	58	39	100	64	31
Kedah	1,340	3	425	912	192	187	58	54	64	199	110	48
Pulau Pinang/Penang	1,518	18	964	536	70	336	2	3	1	82	39	3
Perak	3,949	95	1,020	2,834	534	913	324	454	99	136	305	69
Selangor	2,710	97	538	2,075	60	1,148	221	226	103	186	128	3
Negeri Sembilan	198	2	159	37	0	34	3	0	0	0	0	0
Melaka/Malacca	732	9	602	121	2	111	8	0	0	0	0	0
Johor Barat/West Johor	3,336	127	2,381	828	118	405	74	169	51	11	0	0
<i>Jumlah/Total</i>	14,372	352	6,194	7,826	1,034	3,237	720	964	357	714	646	154
Pantai Timur/East Coast:												
Kelantan	1,068	7	303	758	293	120	133	79	18	39	39	37
Terengganu	2,219	3	316	1,900	307	590	384	302	107	106	47	57
Pahang	1,125	4	309	812	47	253	153	40	30	74	131	84
Johor Timur/East Johor	1,581	27	753	801	89	238	135	38	12	107	137	45
<i>Jumlah/Total</i>	5,993	41	1,681	4,271	736	1,201	805	459	167	326	354	223
Malaysia:												
Semenanjung Malaysia/ (Peninsular Malaysia)	20,365	393	7,875	12,097	1,770	4,438	1,525	1,423	524	1,040	1,000	377
Sarawak	2,338	2	777	1,559	217	458	307	103	88	133	131	122
Sabah	9,836	2,557	4,065	3,214	546	1,167	709	219	178	337	52	6
W. Persekutuan Labuan/ F. Territory Labuan	133	0	112	21	0	0	1	1	3	2	3	11
<i>Jumlah/Total</i>	32,672	2,952	12,829	16,891	2,533	6,063	2,542	1,746	793	1,512	1,186	516

Nota/Note: GRT - Gross Registered Tonnage

JADUAL (TABLE) 2.2

MALAYSIA
BILANGAN VESEL MENANGKAP IKAN YANG DILESENKAN MENGIKUT NEGERI DAN KUASA KUDA, 1997
NUMBER OF LICENSED FISHING VESSELS BY STATE AND HORSEPOWER, 1997

Negeri/ State Kuasa Kuda/ 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 F.T. Labuan	Jumlah Kecil Sub- Total	Jumlah Besar Grand- Total
Enjin Dalam/ Inboard-Powered																			
Kurang dari 5 k.k. (Under 5 h.p.)	0	18	0	9	3	0	0	5	35	24	30	3	2	59	5	120	0	125	219
5 - 9 k.k. (h.p.)	11	41	7	25	3	0	3	62	152	219	94	10	9	332	124	295	0	419	903
10 - 19 "	57	153	40	170	107	3	50	90	670	86	386	85	140	697	374	240	1	615	1,982
20 - 39 "	96	141	57	235	764	25	67	260	1,645	254	758	353	230	1,595	457	160	5	622	3,862
40 - 59 "	34	46	187	1,188	24	2	0	38	1,519	12	114	17	19	162	86	590	3	679	2,360
60 - 99 "	22	36	89	238	123	3	0	108	619	14	229	18	40	301	147	270	3	420	1,340
100 - 149 "	39	68	31	204	301	4	1	70	718	32	112	18	47	209	82	290	2	374	1,301
150 - 249 "	157	222	89	283	370	0	0	156	1,277	43	87	40	84	254	138	735	5	878	2,409
250 k.k. ke atas (250 h.p. & above)	67	187	36	482	380	0	0	39	1,191	74	90	268	230	662	146	514	2	662	2,515
Jumlah Kecil Sub-Total	483	912	536	2,834	2,075	37	121	828	7,826	758	1,900	812	801	4,271	1,559	3,214	21	4,794	16,891
Enjin Sangkut/ Outboard-Powered																			
Kurang dari 5 k.k. (Under 5 h.p.)	9	56	196	317	50	28	51	591	1,298	185	149	45	153	532	74	220	0	294	2,124
5 - 9 k.k. (h.p.)	85	286	209	197	155	31	218	727	1,908	112	96	135	191	534	151	330	4	485	2,927
10 - 19 "	11	51	245	195	192	62	244	684	1,684	5	58	80	233	376	65	1,525	20	1,610	3,670
20 - 39 "	0	28	248	205	122	31	87	271	992	1	12	47	140	200	111	1,620	25	1,756	2,948
40 - 59 "	0	4	66	106	19	7	2	108	312	0	1	2	36	39	314	315	50	679	1,030
60 - 99 "	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	55	13	130	130
100 - 149 "	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150 - 249 "	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250 k.k. ke atas (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	105	425	964	1,020	538	159	602	2,381	6,194	303	316	309	753	1,681	777	4,065	112	4,954	12,829
Jumlah Besar Grand Total	588	1,337	1,500	3,854	2,613	196	723	3,209	14,020	1,061	2,216	1,121	1,554	5,952	2,336	7,279	133	9,748	29,720

MALAYSIA
BILANGAN VESEL MENANGKAP IKAN BERLESEN MENGIKUT KUMPULAN PERKAKAS, JENIS DAN KELAS MUATAN, 1997
NUMBER OF LICENSED FISHING VESSELS BY GEAR GROUP, TYPE AND TONNAGE CLASS, 1996

JADUAL (TABLE) 2.3

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. of 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 & ke atas (& Above)	SARAWAK	SABAH	W.P. LABUAN
Pukat Tunda/Trawl Net	5,980	0	0	3,981	17	140	584	996	398	899	735	212	579	1,414	6
Pukat Tarik/Seine Net															
Pukat Jerut Ikan Purse Seine-Fish	845	0	1	670	1	22	60	79	41	103	246	118	19	145	10
Pukat Jerut Bilis Purse Seine-Anchovy	92	0	0	92	0	10	13	10	4	2	10	43	0	0	0
Lain-Lain/Other Seine	627	15	120	442	75	359	7	1	0	0	0	0	0	50	0
Pukat Hanyut Gill/Drift Net	17,549	226	7,077	4,582	1,121	2,858	445	112	26	16	2	2	1,417	4,209	38
Pukat Tangguk/Lift Net	415	0	27	73	12	33	23	5	0	0	0	0	0	306	9
Perangkap/Trap															
Belat-Belat (Stationary)	250	4	49	4	1	3	0	0	0	0	0	0	6	187	0
Bubu (Portable)	667	6	69	297	14	120	91	45	21	5	1	0	4	281	10
Pancing/Hooks & Line	4,326	21	313	1,351	284	576	280	171	31	9	0	0	50	2,531	60
Pukat Bakul/Bag Net	429	9	24	203	34	165	2	0	0	2	0	0	193	0	0
Pukat Surung Push/Scoop Net	23	0	4	0	0	0	0	0	0	0	0	0	19	0	0
Pukat Rentang Barrier Net	236	7	57	116	88	26	2	0	0	0	0	0	51	5	0
Memungut Siput Shellfish Collection	137	8	15	114	97	17	0	0	0	0	0	0	0	0	0
Pembawa Ikan Fish Carrier	252	76	30	146	21	89	18	4	2	4	6	2	0	0	0
Rampaian/Miscellaneous	844	21	89	26	5	20	0	0	1	0	0	0	0	708	0
Jumlah/Total	32,672	393	7,875	12,097	1,770	4,438	1,525	1,423	524	1,040	1,000	377	2,338	9,836	133

Nota/Note: GRT - Gross Registered Tonnage

JADUAL (TABLE) 2.4

MALAYSIA
BILANGAN VESEL MENANGKAP IKAN YANG DILESENKAN MENGIKUT
DAERAH-DAERAH PERIKANAN, 1997
NUMBER OF LICENSED FISHING VESSELS BY FISHERIES DISTRICTS, 1997

Daerah - Daerah Perikanan <i>Fisheries Districts</i>	Vesel-Vesel Menangkap Ikan (Fishing Vessels)			
	Berjentera Dalam <i>Inboard</i>	Berjentera Sangkut <i>Outboard</i>	Tidak Berjentera <i>Non-Powered</i>	Jumlah <i>Total</i>
SEMENANJUNG MALAYSIA PENINSULAR MALAYSIA				
1) Perlis	483	105	1	589
2) Langkawi	86	70	0	156
3) Kedah Utara	621	113	1	735
4) Kedah Selatan	205	242	2	449
5) Timur Laut P.Pinang	72	281	3	356
6) Barat Daya P.Pinang	131	435	4	570
7) Seberang Prai Utara	91	69	4	164
8) Seberang Prai Tengah	9	82	2	93
9) Seberang Prai Selatan	233	97	5	335
10) Krian	651	328	34	1,013
11) Larut & Matang	866	139	14	1,019
12) Manjong	740	453	30	1,223
13) Hilir Perak	577	100	17	694
14) Selangor Utara	702	152	1	855
15) Selangor Tengah	495	90	14	599
16) Pelabuhan Klang I	469	5	0	474
17) Pelabuhan Klang II	231	188	79	498
18) Selangor Selatan	178	103	3	284
19) Port Dickson	37	159	2	198
20) Melaka	121	602	9	732
21) Muar	191	317	39	547
22) Batu Pahat	287	446	6	739
23) Pontian	342	524	32	898
24) Johor Bahru	8	1,094	50	1,152
25) Pengerang (Kota Tinggi)	97	584	25	706
26) Sedeli	263	51	0	314
27) Mersing	441	118	2	561
28) Kuantan	393	67	1	461
29) Pekan	248	169	3	420
30) Kuala Rompin	171	73	0	244
31) Kemaman	406	26	0	432
32) Dungun	317	58	1	376
33) Marang	228	116	1	345
34) Kuala Terengganu Utara	264	41	0	305
35) Kuala Terengganu Selatan	327	6	0	333
36) Besut	238	4	0	242
37) Setiu	120	65	1	186
38) Kota Bharu	175	96	0	271
39) Bachok & Pasir Putih	325	120	7	452
40) Tumpat	258	87	0	345
Jumlah Kecil <i>Sub-Total</i>	12,097	7,875	393	20,365

Samb. (Cont'd) Jadual (Table) 2.4

Daerah-Daerah Perikanan <i>Fisheries Districts</i>	Vesel-Vesel Menangkap Ikan (Fishing Vessels)			
	Berjentera Dalam <i>Inboard</i>	Berjentera Sangkut <i>Outboard</i>	Tidak Berjentera <i>Non-Powered</i>	Jumlah Total
SARAWAK				
1) 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) Sebuyau / Sri Aman	184	9	0	193
6) Kabong	215	0	0	215
7) Sibu/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	1,559	777	2	2,338
SABAH				
1) Tawau	140	433	369	942
2) Semporna	452	169	287	908
3) Kunak	15	63	75	153
4) Lahad Datu	128	63	112	303
5) Sandakan	854	360	485	1,699
6) Beluran	265	579	171	1,015
7) Kudat	851	218	72	1,141
8) Kota Marudu	21	399	140	560
9) Kota Belud	157	228	343	728
10) Pitas	28	201	235	464
11) Tuaran	32	214	10	256
12) Kota Kinabalu	255	268	24	547
13) Papar	1	136	8	145
14) Beaufort	11	309	43	363
15) Kuala Penyu	4	254	178	436
16) Sipitang	0	171	5	176
Jumlah Kecil/Sub-Total	3,214	4,065	2,557	9,836
WIL. PER. LABUAN/LABUAN F.T.				
1) Kg. Bebuloh	0	18	0	18
2) Kg. Ranca-Ranca	4	12	0	16
3) Kg. Lubok Temiang	0	9	0	9
4) Kg. Batu Manikar	0	10	0	10
5) Kg. Tg. Aru	1	5	0	6
6) Kg. Miri/Lada/Pagar	0	2	0	2
7) Kg. Patau-Patau	2	21	0	23
8) Lain-Lain Kampong	14	35	0	49
Jumlah Kecil/Sub-Total	21	112	0	133
Jumlah Besar/Grand Total	16,891	12,829	2,952	32,672

JADUAL (TABLE) 2.5

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
BILANGAN VESEL MENANGKAP IKAN YANG DILESENKAN DAN BILANGAN
NELAYAN YANG BEKERJA DI VESEL-VESEL BERLESEN, 1977 - 1997
NUMBER OF FISHING VESSELS LICENSED DAN NUMBER OF FISHERMEN
OPERATING LICENSED VESSELS, 1977 - 1997

Bilangan Vesel Menangkap Ikan Yang Dilesenkan <i>Number of fishing Vessels Licensed</i>					Bilangan Nelayan <i>Number of Fishermen</i>				
Tahun <i>Year</i>	Berjentera Dalam <i>Inboard</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	16,977	2,775	4,329	24,081	44,373	30,131	541	600	75,645
1978	17,775	3,684	6,038	27,497	51,265	30,980	637	812	83,694
1979	17,741	5,156	6,256	29,153	50,816	30,323	528	1,259	82,926
1980	18,433	6,585	5,502	30,520	55,008	31,802	410	1,752	88,972
1981	18,585	7,368	4,437	30,390	54,538	30,084	609	1,694	86,925
1982	17,875	7,246	2,620	27,741	49,232	28,306	739	1,960	80,237
1983	16,285	7,202	2,208	25,695	47,322	25,238	534	2,496	75,590
1984	16,533	7,458	1,682	25,673	48,616	25,077	564	2,111	76,368
1985	15,324	6,751	1,296	23,371	42,620	23,532	471	2,907	69,530
1986	14,626	6,864	986	22,476	34,269	21,357	448	3,378	59,452
1987	14,822	6,430	886	22,138	33,815	21,634	394	4,726	60,569
1988	14,760	5,832	749	21,341	32,386	21,367	409	4,121	58,283
1989	15,507	7,146	806	23,459	35,907	22,443	454	3,776	62,580
1990	15,326	7,029	779	23,134	34,719	21,364	471	3,247	59,801
1991	15,331	6,760	718	22,809	35,609	21,385	448	3,867	61,309
1992	14,999	6,223	632	21,854	35,279	21,094	440	3,597	60,410
1993	14,351	5,206	463	20,020	28,607	18,466	245	6,569	53,887
1994	13,677	4,988	424	19,089	27,499	17,984	249	6,463	52,195
1995	13,443	9,050	491	22,984	30,440	17,976	239	6,347	55,002
1996	12,701	8,112	437	21,250	28,418	17,010	206	6,676	52,310
1997	12,097	7,875	393	20,365	27,457	17,133	236	5,909	50,735

MALAYSIA
BILANGAN PERKAKAS YANG DILESENKAN MENGIKUT NEGERI, 1997
NUMBER OF LICENSED FISHING GEARS BY STATE, 1997

JADUAL (TABLE) 3.1

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
Negeri State	Trawl Nets	Pukat Jerut Ikan Purse Seine- Fish	Pukat Jerut Bilis Purse Seine- Anchovy	Lain-Lain Other Seines			Belat-Belat Stationary	Bubu Portable							
Pantai Barat/West Coast:															
Perlis	186	111	0	0	280	3	0	2	7	0	0	0	0	0	589
Kedah	467	15	39	13	754	14	1	1	9	0	19	0	0	8	1,340
Pulau Pinang/Penang	99	25	0	98	1,171	0	0	3	57	0	38	4	0	23	1,518
Perak	1,297	52	10	398	1,717	1	0	32	103	4	81	0	114	140	3,949
Selangor	796	18	0	5	1,498	1	0	3	58	167	19	0	5	140	2,710
Negeri Sembilan	0	0	0	1	182	0	0	6	9	0	0	0	0	0	198
Malaka/Malacca	0	0	0	3	684	0	0	0	43	0	2	0	0	0	732
Johor Barat/West Johore	262	0	0	6	2,801	0	37	65	48	49	21	0	18	29	3,336
<i>Jumlah Kecil/Sub-Total</i>	3,107	221	49	524	9,087	19	38	112	334	220	180	4	137	340	14,372
Pantai Timur/East Coast:															
Kelantan	84	52	8	42	666	32	0	12	170	0	0	0	0	2	1,068
Terengganu	211	295	24	8	637	34	0	123	849	0	0	0	0	38	2,219
Pahang	331	42	11	2	427	15	0	103	187	0	0	0	0	7	1,125
Johor Timur/East Johore	248	61	0	1	1,068	0	19	22	145	16	0	0	0	1	1,581
<i>Jumlah Kecil/Sub-Total</i>	874	450	43	53	2,798	81	19	260	1,351	16	0	0	0	48	5,993
Sarawak	579	19	0	2	1,488	0	6	4	157	231	87	24	0	0	2,597
Sabah	1,208	177	0	10	1,027	198	85	73	464	0	4	0	0	194	3,440
W.P. Labuan	6	10	0	0	38	9	0	10	60	0	0	0	0	0	133
<i>Jumlah Kecil/Sub-Total</i>	1,793	206	0	12	2,553	207	91	87	681	231	91	24	0	194	6,170
Jumlah Besar/Grand Total	5,774	877	92	589	14,438	307	148	459	2,366	467	271	28	137	582	26,535

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
ANGGARAN BILANGAN KUMULATIF PERKAKAS YANG DIUSAHAKAN MENGIKUT NEGERI, 1997
ESTIMATED CUMULATIVE NUMBER OF FISHING GEARS IN OPERATION BY STATE, 1997

JADUAL (TABLE) 3.2

Kumpulan Perkakas <i>Gear Group</i>	Pukat Tunda	Pukat-Pukat Tarik <i>Seine Net</i>			Pukat Hanyut <i>Drift/ Gill Net</i>	Pukat Tangguk <i>Lift Net</i>	Perangkap- Perangkap <i>Trap</i>		Pancing Hook & Line	Pukat Bakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/ Scoop Net	Memungut Siput Shellfish Collection	Rampaihan Miscell- aneous	Jumlah Total
Negeri State	Trawl Net	Pukat Jerut Ikan <i>Purse Seine- Fish</i>	Pukat Jerut Bilis <i>Purse Seine- Anchovy</i>	Lain-Lain <i>Other Seine</i>			Belat-Belat <i>Stationary</i>	Bubu <i>Portable</i>							
Pantai Barat/West Coast:															
Perlis	2,742	1,041	0	0	7,432	0	0	0	0	0	0	360	50	756	12,381
Kedah	9,909	132	628	756	25,218	0	11	65	1,025	1,924	300	1,254	135	2,321	43,678
Pulau Pinang	1,197	168	0	1,356	22,787	0	0	106	1,338	588	936	175	37	280	28,968
Perak	16,859	535	95	4,041	18,253	0	0	258	2,527	1,525	829	3,369	201	3,212	51,704
Selangor	11,006	164	0	293	20,195	0	84	1,186	4,830	2,604	352	1,180	0	330	42,224
Negeri Sembilan	0	0	0	0	1,953	0	0	104	196	0	0	0	0	17	2,270
Melaka	0	0	0	12	7,512	0	0	27	804	0	0	1,680	0	0	10,035
Johor Barat/West Johor	3,106	0	0	0	25,404	0	491	1,505	139	369	295	2,412	0	1,109	34,830
Jumlah Kecil/Sub-Total	44,819	2,040	723	6,458	128,754	0	586	3,251	10,859	7,010	2,712	10,430	423	8,025	226,090
Pantai Timur/East Coast:															
Kelantan	2,194	295	56	0	3,739	311	645	30	1,843	0	0	0	0	745	9,858
Terengganu	2,863	2,131	237	0	1,425	347	0	2,513	7,351	0	0	0	0	0	16,867
Pahang	4,806	239	53	0	3,855	40	0	1,100	1,064	0	0	0	0	0	11,157
Johor Timur/East Johor	4,090	429	0	0	4,142	0	0	104	1,094	694	0	0	0	765	11,318
Jumlah Kecil/Sub-Total	13,953	3,094	346	0	13,161	698	645	3,747	11,352	694	0	0	0	1,510	49,200
Jumlah Besar/Grand Total	58,772	5,134	1,069	6,458	141,915	698	1,231	6,998	22,211	7,704	2,712	10,430	423	9,535	275,290

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN KUMPULAN PERKAKAS, 1997
LANDINGS OF MARINE FISH BY STATE AND GEAR GROUP, 1997

JADUAL (TABLE) 4.1

Kumpulan Perkakas <i>Gear Group</i>	Pukat Tunda <i>Trawl Net</i>	Pukat-Pukat Tarik <i>Seine Net</i>			Pukat Hanyut <i>Drift/Gill Net</i>	Pukat Tangguk <i>Lift Net</i>	Perangkap-Perangkap <i>Trap</i>		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>	Rampaian <i>Miscell- aneous</i>	Jumlah Tan M. <i>Total Tonnes</i>
		Pukat Jerut Ikan <i>Purse Seine- Fish</i>	Pukat Jerut Bilis <i>Purse Seine- Anchovy</i>	Lain-Lain <i>Other Seine</i>			Belat-Belat <i>Stationary</i>	Bubu <i>Portable</i>							
Pantai Barat/West Coast:															
Perlis	22,214	25,608	0	0	5,699	0	0	0	0	0	0	232	400	120	54,273
Kedah	53,280	7,132	11,475	143	10,741	0	17	28	274	624	72	359	3,570	148	87,863
Pulau Pinang	20,045	2,299	0	3,341	10,462	0	0	36	303	733	145	107	17	44	37,532
Perak	137,728	7,025	1,617	13,413	32,104	0	0	218	869	4,068	242	3,314	162	452	201,212
Selangor	67,236	2,996	0	321	8,373	0	270	89	3,632	13,485	1,054	432	20,515	5	118,408
Negeri Sembilan	0	0	0	0	297	0	0	19	57	0	0	0	2	2	377
Melaka	0	0	0	10	1,444	0	0	3	179	0	0	82	32	0	1,750
Johor Barat/West Johor	6,774	0	0	0	4,964	0	362	179	61	1,404	86	93	0	91	14,014
Jumlah/Total:	307,277	45,060	13,092	17,228	74,084	0	649	572	5,375	20,314	1,599	4,619	24,698	862	515,429
Pantai Timur/East Coast:															
Kelantan	12,373	12,291	450	0	2,968	2,770	77	11	3,169	0	0	0	0	27	34,136
Terengganu	33,538	73,595	7,974	0	1,881	3,027	0	4,695	14,871	0	0	0	0	0	139,581
Pahang	70,151	11,293	772	0	3,137	477	0	2,664	2,681	0	0	0	0	0	91,175
Johor Timur/East Johor	44,643	8,587	0	0	940	0	0	45	1,797	1,212	0	0	0	29	57,253
Jumlah/Total:	160,705	105,766	9,196	0	8,926	6,274	77	7,415	22,518	1,212	0	0	0	56	322,145
Malaysia:															
Semenanjung Malaysia/ Peninsular Malaysia	467,982	150,826	22,288	17,228	83,010	6,274	726	7,987	27,893	21,526	1,599	4,619	24,698	918	837,574
Sarawak	50,730	1,292	0	0	19,692	0	623	203	2,796	4,082	1,321	40,483	0	6,971	128,193
Sabah	67,903	25,115	0	7,422	22,106	19,118	2,139	1,456	23,683	0	94	0	231	4,998	174,265
W.Persekutuan Labuan/ Labuan, Federal Territory	10,144	13,745	0	27	1,470	318	51	90	3,072	0	0	24	0	0	28,941
Jumlah Tan M./Total Tonnes	596,759	190,978	22,288	24,677	126,278	25,710	3,539	9,736	57,444	25,608	3,014	45,126	24,929	12,887	1,168,973

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN NEGERI, 1997
LANDINGS OF MARINE FISH BY MONTH AND STATE, 1997
(Kuantiti Dalam Tan Metrik/Quantity In Tonnes)

JADUAL (TABLE) 4.2

<i>Bulan/Month Negeri/State</i>	<i>Januari January</i>	<i>Februari February</i>	<i>Mac March</i>	<i>April April</i>	<i>Mei May</i>	<i>Jun June</i>	<i>Julai July</i>	<i>Ogos August</i>	<i>September September</i>	<i>Oktober October</i>	<i>November November</i>	<i>Disember December</i>	<i>Jumlah Tan M. Total Tonnes</i>
Pantai Barat/West Coast:													
Perlis	2,325	1,960	4,215	3,868	4,977	6,230	6,021	5,457	4,484	4,925	4,766	5,045	54,273
Kedah	8,443	6,420	8,012	7,794	8,626	7,341	8,072	7,019	5,317	6,967	7,331	6,521	87,863
Pulau Pinang	2,671	2,479	3,718	3,406	3,653	3,617	3,662	2,648	1,961	2,774	3,450	3,493	37,532
Perak	16,536	12,203	20,982	17,771	16,093	19,703	18,557	15,496	14,291	16,532	16,731	16,317	201,212
Selangor	10,873	6,716	11,007	10,236	7,488	12,371	12,674	10,818	8,166	9,680	9,733	8,646	118,408
Negeri Sembilan	31	32	27	28	30	31	33	27	27	35	38	38	377
Melaka	146	135	167	152	149	158	147	166	97	136	154	143	1,750
Johor Barat/West Johor	1,525	905	995	1,067	1,174	1,269	1,259	1,250	1,137	1,001	1,337	1,095	14,014
Jumlah Kecil/Sub-Total	42,550	30,850	49,123	44,322	42,190	50,720	50,425	42,881	35,480	42,050	43,540	41,298	515,429
Pantai Timur/East Coast:													
Kelantan	2,340	1,251	2,750	4,238	3,063	2,951	3,081	3,163	2,779	3,326	2,864	2,330	34,136
Terengganu	3,460	3,399	7,015	9,021	13,316	18,059	14,233	14,423	16,651	18,136	15,954	5,914	139,581
Pahang	7,152	4,228	6,381	5,440	7,002	8,003	7,827	8,474	9,444	10,753	9,555	6,916	91,175
Johor Timur/East Johor	4,165	1,779	4,676	4,004	4,440	5,355	5,491	5,465	6,181	6,630	5,174	3,893	57,253
Jumlah Kecil/Sub-Total	17,117	10,657	20,822	22,703	27,821	34,368	30,632	31,525	35,055	38,845	33,547	19,053	322,145
Malaysia:													
Semenanjung Malaysia/ Peninsular Malaysia	59,667	41,507	69,945	67,025	70,011	85,088	81,057	74,406	70,535	80,895	77,087	60,351	837,574
Sarawak	13,875	17,757	23,426	15,611	8,216	8,526	7,606	6,987	5,538	8,183	6,602	5,866	128,193
Sabah	13,356	12,319	15,355	15,174	14,368	16,111	13,749	14,095	13,990	15,262	14,920	15,566	174,265
W.Persekutuan Labuan/ Labuan, Federal Territory	2,266	2,221	3,225	3,336	3,457	2,930	2,100	2,503	952	2,002	2,007	1,942	28,941
Jumlah Besar (Tan Metrik) Grand Total Tonnes	89,164	73,804	111,951	101,146	96,052	112,655	104,512	97,991	91,015	106,342	100,616	83,725	1,168,973

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN KUMPULAN PERKAKAS, 1997
LANDINGS OF MARINE FISH BY MONTH AND GEAR GROUP, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.3

Bulan/Month	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 Tan M. Total Tonnes
Kumpulan Perkakas Gear Group													
Pukat-Pukat Tunda <i>Trawl Net</i>	39,441	25,046	42,298	37,242	38,388	44,498	43,563	39,627	36,351	42,827	39,870	38,831	467,982
P.P. Tarik/Seine Net: Pukat Jerut Ikan <i>P.Seine-Fish</i>	4,555	3,939	9,624	10,395	11,934	19,840	15,466	14,858	17,248	20,015	14,630	8,322	150,826
Pukat Jerut Bilis <i>P.Seine-Anchovy</i>	1,749	1,467	1,679	1,738	2,253	2,198	2,371	2,711	1,827	2,278	1,116	901	22,288
Lain-Lain <i>Other Seine</i>	1,614	1,511	1,531	1,929	1,406	1,343	1,310	1,125	938	1,654	1,504	1,363	17,228
Pukat-Pukat Hanyut <i>Drift/Gill Net</i>	5,456	4,263	7,082	8,275	7,669	9,638	9,324	7,417	5,671	6,057	6,389	5,769	83,010
Pukat-Pukat Tangguk <i>Lift Net</i>	79	94	250	683	585	731	821	939	677	929	470	16	6,274
Perangkap-Perangkap/Trap: Belat-Belat <i>(Stationary)</i>	84	58	63	61	66	38	43	63	58	100	46	46	726
Bubu <i>(Portable)</i>	598	553	536	528	771	635	708	599	712	1,032	809	506	7,987
Pancing <i>Hook & Line</i>	1,286	1,057	1,190	1,644	2,940	2,177	2,580	2,295	2,740	2,138	6,685	1,161	27,893
Pukat-Pukat Bakul <i>Bag Net</i>	1,769	1,744	1,963	1,837	1,796	1,595	1,836	1,847	2,057	1,523	2,316	1,243	21,526
Pukat-Pukat Rentang <i>Barrier Net</i>	132	150	104	129	170	106	112	152	190	103	101	150	1,599
Pukat-Pukat Surung <i>Push/Scoop Net</i>	350	261	342	471	551	335	384	352	338	372	401	462	4,619
Memungut Siput <i>Shellfish Collection</i>	2,476	1,301	3,209	1,998	1,402	1,876	2,452	2,345	1,666	1,786	2,677	1,510	24,698
Rampaian <i>Miscellaneous</i>	78	63	74	95	80	78	87	76	62	81	73	71	918
Jumlah Tan M./Total Tonnes	59,667	41,507	69,945	67,025	70,011	85,088	81,057	74,406	70,535	80,895	77,087	60,351	837,574

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY STATE AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.4

ISSCAAP GROUP	Spesies Species	Pantai Barat West Coast								Jumlah Total	Pantai Timur East Coast				Jumlah Total	Sarawak	Sabah	W. P. Labuan Federal Territory	Jumlah Total	Jumlah Besar Grand- Total
		Perlis	Kedah	P.Pinang	Perak	Selangor	Negeri Sembilan	Melaka	Johor Barat West Johor		Kelantan	Terengganu	Pahang	Johor Timur East Johor						
24	Kebasi/Selangor	66	538	274	854	184	11	0	472	2,399	0	0	0	1	1	308	555	23	886	3,286
	Puput/B. Mata/Tirok	121	260	252	8,350	1,936	14	0	147	11,080	113	0	0	1	114	1,239	875	66	2,180	13,374
25	Terubok	0	0	0	46	56	0	0	0	102	0	0	0	0	0	574	0	0	574	676
	Siakap	1	5	6	23	12	3	0	33	83	1	7	4	1	13	11	767	0	778	874
31	Lidah	996	349	268	519	470	0	0	122	2,724	39	49	42	35	165	103	13	24	140	3,029
	Sebelah	7	282	16	163	50	0	0	9	527	11	104	50	127	292	143	1,090	141	1,374	2,193
33	Bayan	0	0	0	3	0	0	0	14	17	0	49	24	10	83	6	2,196	0	2,202	2,302
	Biji Nangka	48	11	4	1,153	11	1	0	10	1,238	729	3,045	305	211	4,290	4,334	333	107	4,774	10,302
	Dau Baharu	0	0	1	6	16	13	17	50	103	2	48	21	56	127	104	124	125	353	583
	Delah/Pinang-Pinang	0	0	0	23	0	0	0	0	23	0	172	89	12	273	0	1,343	320	1,663	1,959
	Duri/Pulutan/Utik	87	538	1,904	1,100	603	13	260	290	4,795	240	1,806	393	549	2,988	2,655	2,989	172	5,816	13,599
	Dengkis/Debam	0	0	0	88	0	0	0	19	107	12	326	178	79	595	0	498	135	633	1,335
	Gelama/Tengkerong/Selampai	609	933	2,235	4,930	3,056	20	185	574	12,542	641	559	241	591	2,032	2,924	2,706	164	5,794	20,368
	Gerut-Gerut	15	244	58	152	70	4	4	30	577	28	59	4	32	123	20	285	151	456	1,156
	Jenahak	10	165	15	146	77	16	27	76	532	0	7	14	47	68	153	2,831	195	3,179	3,779
	Kaci	0	0	7	20	0	3	0	2	32	12	138	116	395	661	28	93	260	381	1,074
	Kerapu	128	835	126	472	93	5	21	55	1,735	51	1,225	369	227	1,872	445	4,517	555	5,517	9,124
	Kerisi	1,703	931	558	5,859	318	0	0	0	9,369	726	7,990	3,669	1,802	14,187	709	5,311	526	6,546	30,102
	Kerisi Bali	6	7	0	110	5	0	0	0	128	1	1,089	986	70	2,146	189	1,738	493	2,420	4,694
	Kikek	11	6	0	59	2	0	0	33	111	171	700	22	31	924	64	1,144	119	1,327	2,362
	Malang	211	374	80	225	2,817	5	60	279	4,051	1	63	65	51	180	1,641	951	21	2,613	6,844
	Merah	8	28	27	157	25	4	20	26	295	175	854	428	436	1,893	1,164	3,127	590	4,881	7,069
	Mengkerong/Conor/Ubi-Ubi	1,112	14	40	8,042	10	0	0	24	9,242	739	534	1,256	251	2,780	0	2,468	0	2,468	14,490
	Remang/Kunyit-Kunyit/Tanda	1	8	27	107	6	0	0	0	149	226	655	490	353	1,724	0	1,040	297	1,337	3,210
	Semilang	1	53	92	346	104	4	0	28	628	0	4	5	0	9	25	785	0	810	1,447
	Shrumbu/Lemah	0	0	0	211	0	0	0	0	211	0	2	0	0	2	301	11	36	348	561
	Puntang/Damar/Bulus	43	24	5	1,103	126	5	0	0	1,306	217	116	161	84	578	0	47	3	50	1,934
	Pasir-Pasir/Timun-Timun	0	0	0	0	1	0	0	0	1	31	478	291	110	910	0	0	39	39	950
34	Alu-Alu/Kacang-Kacang	27	502	66	386	31	5	10	8	1,035	138	219	334	260	951	16	4,476	176	4,668	6,654
	Aruan Tasik	2	4	1	79	25	2	0	13	126	34	92	83	49	258	0	0	1	1	385
	Bawal	415	2,037	745	1,312	1,557	17	30	658	6,771	56	126	131	103	416	1,377	1,431	282	3,090	10,277
	Belanak/Kedera	3	191	187	366	1,673	2	60	5	2,487	116	2	0	0	118	30	1,890	25	1,945	4,550
	Cermin/Sagai/Cupak	0	2	0	93	12	3	0	50	160	156	644	332	485	1,617	134	602	698	1,434	3,211

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

	Cincaru	1,228	937	385	3,664	1,635	0	18	159	8,026	179	670	385	804	2,038	1,452	1,626	520	3,598	13,662
	Demudak/Rambai	5	496	59	255	1	0	0	0	816	49	196	118	167	530	243	4,621	136	5,000	6,346
	Kurau/Senangin/Senohong	54	31	118	475	354	15	33	118	1,198	28	2	12	28	70	440	1,962	31	2,433	3,701
	Pelata/Selar	530	1,507	396	1,607	356	2	0	12	4,410	1,891	5,697	1,707	1,464	10,759	806	3,918	430	5,154	20,323
	Selar Kuning/Lolong	2,133	952	0	2,408	12	0	0	0	5,505	1,979	14,905	4,941	3,066	24,891	494	874	267	1,635	32,031
	Selayang/Curut	3,328	1,042	162	2,420	1	0	0	0	6,953	7,985	37,743	3,123	2,891	51,742	74	11,866	549	12,489	71,184
	Pisang-Pisang	93	1	0	3	0	0	0	0	97	1,262	77	39	0	1,378	0	102	4	106	1,581
	Talang	20	87	32	87	30	11	10	34	311	5	16	108	68	197	392	1,929	43	2,364	2,872
35	Bilis/Bunga Air	0	11,479	0	1,857	145	0	0	16	13,497	924	5,326	535	7	6,792	11	3,461	11	3,483	23,772
	Parang-Parang	172	409	74	455	652	11	128	381	2,282	106	192	483	392	1,173	662	62	44	768	4,223
	Tamban	955	428	712	1,517	1,154	1	0	81	4,848	1,509	8,321	3,275	3,100	16,205	2,009	14,687	361	17,057	38,110
	Bulan-Bulan	0	0	0	4	0	0	0	0	4	0	343	12	0	355	1	154	0	155	514
36	Aya/Kayu/Tongkol	2,564	1,394	233	1,694	537	1	0	0	6,423	1,586	12,910	1,853	1,012	17,361	1,356	14,007	11,476	26,839	50,623
	Layaran/Mersuji	0	0	0	5	0	0	0	0	5	4	11	10	0	25	0	312	20	332	362
37	Kembang/Temenong/Pelaling	14,022	13,008	7,679	26,457	5,420	0	0	0	66,586	592	4,508	2,896	869	8,865	2,630	7,202	1,518	11,350	86,801
	Tenggiri	675	949	163	966	899	29	149	285	4,115	493	734	689	535	2,451	2,130	4,607	431	7,168	13,734
	Timah/Layar/Selayar	128	336	541	1,882	485	0	49	182	3,603	338	862	147	123	1,470	1,331	4,851	18	6,200	11,273
38	Pari	127	559	355	2,960	1,765	29	91	273	6,159	494	1,944	1,509	1,886	5,833	1,951	3,179	160	5,290	17,282
	Yu	17	134	45	351	215	2	99	44	907	44	571	443	560	1,618	1,651	3,073	234	4,958	7,483
39	Ikan Baja	12,800	28,007	12,555	65,854	42,672	0	0	3,783	165,671	6,165	9,056	46,043	23,225	84,489	14,758	15,638	3,704	34,100	284,260
	Ikan Campur	2,673	1,787	191	6,459	1,450	51	252	1,030	13,893	1,628	5,321	3,454	2,100	12,503	13,921	5,287	1,863	21,071	47,467
	Jebang	0	0	316	222	5	0	0	3	546	1	189	206	457	853	0	423	119	542	1,941
42	Ketam	426	1,287	401	1,082	597	24	0	534	4,351	112	200	605	404	1,321	545	3,439	75	4,059	9,731
45	Udang Karang/Lobok	0	0	7	7	1	0	0	0	15	40	103	139	174	456	5	263	97	365	836
	Udang Putih	338	1,519	1,176	2,082	1,305	45	132	1,120	7,717	76	67	238	187	568	2,493	4,026	220	6,739	15,024
	Udang Minyak	3	0	796	5,653	4,048	0	0	130	10,630	30	56	67	241	394	16	493	0	509	11,533
	Udang Merah Ros	498	1,219	109	317	1,981	0	0	274	4,398	0	116	677	354	1,147	386	387	0	773	6,318
	Udang Kulit Keras	0	0	371	1,335	1,126	0	0	133	2,965	130	25	77	8	240	1,520	236	0	1,756	4,961
	Udang Marimau	56	214	39	65	13	0	0	0	387	1	33	6	100	140	4	302	103	409	936
	Lain-Lain Jenis Udang	2,465	3,979	1,772	13,621	1,499	4	26	1,002	24,368	214	218	683	810	1,925	6,573	4,295	272	11,140	37,433
	Udang Baring	233	390	133	2,911	9,574	0	36	1,015	14,292	0	0	0	561	561	57	290	40	387	15,240
56	Siput/Kepah/Kupang/Tiram	399	3,570	17	162	20,515	2	33	0	24,698	14	0	0	0	14	0	788	0	788	25,500
57	Sotong Kereta	109	734	1	50	31	0	0	0	925	1	40	2	77	120	0	225	0	225	1,270
	Sotong Katak	715	943	386	4,553	2,326	0	0	21	8,944	246	2,550	3,451	2,458	8,705	234	2,497	211	2,942	20,591
	Sotong Biasa	1,876	2,124	1,291	10,643	2,094	0	0	94	18,122	1,344	5,417	3,139	2,666	12,566	1,686	5,877	240	7,803	38,491
76	Ubur-Ubur	0	0	23	626	2,164	0	0	263	3,076	0	0	0	0	0	49,665	1,070	0	50,735	53,811
	Jumlah Tan M/Total Tonnes	54,273	87,863	37,532	201,212	118,408	377	1,750	14,014	515,429	34,136	139,581	91,175	57,253	322,145	128,193	174,265	28,941	331,399	1,168,973

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL(TABLE) 4.5

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>December</i>	Jumlah (Tan) <i>Total</i> (Tonnes)
	Nama Tempatan <i>Local Name</i>													
24	Kebasi/Selangat	302	231	267	288	336	264	288	233	184	252	325	316	3,286
	Puput/B. Mata/Tirok	1,072	603	1,703	1,517	1,615	962	795	930	722	1,115	1,249	1,091	13,374
	Terubok	17	23	13	37	82	92	93	89	49	93	80	8	676
25	Siakap	71	73	70	80	64	66	83	65	84	71	84	63	874
31	Lidah	227	152	347	320	228	245	265	240	252	230	277	246	3,029
	Sebelah	186	164	218	196	206	181	183	181	163	179	150	186	2,193
33	Bayan	171	101	166	159	181	267	195	250	164	178	276	194	2,302
	Biji Nangka	352	282	488	836	819	1,073	1,065	943	1,017	1,494	1,220	713	10,302
	Dau Baharu	32	53	61	65	72	55	47	44	34	35	44	41	583
	Delah/Pinang-Pinang	99	75	111	224	277	138	165	169	141	163	193	204	1,959
	Duri/Pulutan/Utik	869	757	974	1,078	1,207	1,277	1,412	1,808	916	1,264	1,098	939	13,599
	Dengkis/Debam	111	72	126	138	154	96	104	104	95	102	134	99	1,335
	Gelama/Tengkerong/Selampai	1,581	1,235	1,852	1,946	1,769	1,924	1,922	1,676	1,364	1,798	1,758	1,543	20,368
	Gerut-Gerut	126	70	126	104	135	117	94	75	64	72	76	97	1,156
	Jenahak	253	232	331	341	370	302	334	314	322	350	343	287	3,779
	Kaci	71	46	76	79	184	75	74	74	90	106	126	73	1,074
	Kerapu	644	516	645	924	1,105	749	870	739	708	798	809	617	9,124
	Kerisi	2,582	1,551	2,819	2,653	2,574	2,466	2,469	2,579	2,499	3,035	2,760	2,115	30,102
	Kerisi Bali	271	249	335	526	543	378	395	381	388	441	513	274	4,694
	Kikek	171	149	235	303	281	192	176	176	154	220	142	163	2,362
	Malong	613	433	620	551	690	504	613	433	396	660	866	465	6,844
	Merah	494	461	539	652	725	611	596	521	585	665	727	493	7,069
	Mengkerong/Conor/Ubi-Ubi	838	688	1,546	1,225	1,275	1,299	1,222	1,024	1,051	1,305	1,230	1,787	14,490
	Remong/Kunyit-Kunyit/Tanda	206	150	287	262	310	270	260	258	261	326	352	268	3,210
	Semilang	134	103	97	105	109	106	129	115	170	141	125	113	1,447
	Shrumbu/Lemah	24	18	52	58	59	47	81	46	32	54	48	42	561
	Puntong Damar/Bulus	231	85	362	92	150	188	155	125	148	123	127	148	1,934
	Pasir-Pasir/Timun-Timun	50	36	102	122	98	68	84	63	73	135	65	54	950
34	Alu-Alu/Kacang-Kacang	522	417	668	649	616	600	609	510	547	436	543	537	6,654
	Arvan Tasik	25	14	48	43	28	50	31	38	35	32	25	16	385
	Bawal	808	575	800	880	879	820	886	823	792	1,318	874	822	10,277
	Belanak/Kedera	571	352	440	279	245	345	274	356	305	464	492	427	4,550
	Cermin/Sagai/Cupak	206	119	221	320	425	219	259	224	253	329	419	217	3,211

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

	Cincaru	1,077	604	1,191	1,158	1,243	1,540	1,124	1,673	875	1,394	978	805	13,662
	Demudok/Rambai	353	269	495	910	620	491	546	677	473	585	486	441	6,346
	Kurau/Senangin/Senohong	279	239	330	293	344	335	384	308	315	316	321	237	3,701
	Pelata/Selar	1,328	972	1,535	1,585	1,864	1,815	2,094	1,673	1,551	2,051	2,254	1,601	20,323
	Selar Kuning/Lolong	1,288	968	2,558	2,345	2,699	2,847	3,482	4,058	3,484	4,025	3,052	1,225	32,031
	Selayang/Curut	2,197	1,873	3,937	4,511	4,166	12,319	6,247	6,588	8,827	9,875	6,355	4,289	71,184
	Pisang-Pisang	9	48	10	10	19	12	7	59	33	36	1283	55	1,581
	Talang	180	197	254	317	333	246	248	216	188	224	206	263	2,872
35	Bilis/Bunga Air	2,054	1,649	1,876	1,716	2,472	2,339	2,113	1,979	2,041	2,609	1,504	1,420	23,772
	Parang-Parang	292	235	337	392	387	474	472	419	296	369	308	242	4,223
	Tamban	1,549	1,443	3,715	3,155	3,294	3,606	3,168	3,461	4,834	4,525	3,321	2,039	38,110
	Bulan-Bulan	7	7	11	350	24	8	25	16	22	12	17	15	514
36	Aya/Kayu/Tongkol	2,973	2,421	4,343	3,115	3,271	6,019	4,734	4,280	4,001	4,766	6,680	4,020	50,623
	Layaran/Mersuji	29	31	36	46	17	5	55	42	23	38	18	22	362
37	Kembong/Temenong/Pelaling	4,371	3,932	8,290	8,921	7,876	9,970	11,048	8,136	6,435	5,641	6,109	6,072	86,801
	Tenggiri	1,214	998	1,285	1,300	1,195	1,154	1,076	976	856	1,127	1,309	1,244	13,734
	Timah/Layor/Selayor	794	692	1,139	1,166	982	1,090	1,010	917	772	1,023	860	828	11,273
38	Pari	1,343	882	1,550	1,308	1,414	2,508	1,455	1,450	1,445	1,475	1,298	1,154	17,282
	Yu	408	449	555	624	617	825	732	735	653	705	674	506	7,483
39	Ilkan Baja	24,076	15,795	23,719	21,947	22,561	28,355	27,120	24,313	21,817	25,701	24,523	24,333	284,260
	Ilkan Campur	2,683	2,624	3,769	4,980	4,342	4,272	4,370	4,113	4,009	5,010	3,835	3,460	47,467
	Jebong	91	95	203	155	118	159	169	154	199	232	173	193	1,941
42	Ketam	673	593	728	751	788	824	853	873	780	999	940	929	9,731
45	Udang Karang/Lobok	75	58	68	57	67	69	87	69	63	69	94	60	836
	Udang Putih	1,537	1,253	1,498	1,461	1,173	1,141	1,198	1,058	895	1,126	1,306	1,378	15,024
	Udang Minyak	1,046	888	770	1,172	1,152	863	1,124	880	606	1,152	1,119	761	11,533
	Udang Merah Ros	662	480	599	474	568	479	498	563	374	432	537	652	6,318
	Udang Kulit Keras	471	373	516	469	627	460	431	286	227	303	415	383	4,961
	Udang Harimau	100	84	94	80	66	57	57	63	52	137	66	80	936
	Lain-Lain Jenis Udang	3747	3357	3764	3473	3507	3234	2881	2506	1923	2828	2648	3565	37,433
	Udang Baring	1,491	1,359	1,321	1,125	1,187	1,037	1,035	1,015	1,806	1,181	1,822	861	15,240
56	Siput/Kepah/Kupang/Tiram	2,508	1,344	3,261	2,060	1,474	1,957	2,528	2,417	1,737	1,866	2,768	1,580	25,500
57	Sotong Kereta	92	67	101	107	100	97	106	142	107	117	143	91	1,270
	Sotong Katak	1,635	1,096	1,797	1,492	1,803	1,983	1,951	1,797	1,525	2,043	1,709	1,760	20,591
	Sotong Biasa	2,569	2,343	2,587	3,503	4,375	3,159	3,152	2,680	3,645	4,269	3,825	2,384	38,491
76	Ubur-Ubur	10,033	14,001	16,964	7,566	1,496	860	704	1,793	68	97	110	119	53,811
	Jumlah Tan M/Total Tonnes	89,164	73,804	111,951	101,146	96,052	112,655	104,512	97,991	91,015	106,342	100,616	83,725	1,168,973

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1997
(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>December</i>	Jumlah (Tan) <i>Total</i> (Tonnes)
	Nama Tempatan <i>Local Name</i>													
24	Kebasi/Selangat	237	146	192	236	268	153	222	169	94	178	261	244	2,400
	Puput/B. Mata/Tirok	969	516	1,550	1,279	1,398	702	603	727	565	845	1,059	981	11,194
	Terubok	16	13	7	15	9	1	1	2	1	6	29	2	102
25	Siakap	6	5	6	6	6	16	12	3	7	9	13	7	96
31	Lidah	222	140	335	307	212	225	259	232	247	215	266	229	2,889
	Sebelah	83	61	96	74	82	78	74	54	49	64	61	43	819
33	Bayan	9	4	6	8	11	7	4	3	6	6	33	3	100
	Biji Nangka.	248	161	341	555	545	651	558	495	535	660	454	325	5,528
	Daun Baharu	13	12	26	26	20	18	18	17	21	21	21	17	230
	Delah/Pinang-Pinang	6	9	25	26	36	20	25	13	58	29	34	15	296
	Duri/Pulutan/Utik	514	414	582	578	635	652	884	1,262	508	667	567	520	7,783
	Dengkis/Debam	58	30	62	63	78	35	60	64	57	67	85	43	702
	Gelama/Tengkerong/Selampai	1,261	925	1,434	1,465	1,217	1,301	1,395	1,154	959	1,121	1,213	1,129	14,574
	Gerut-Gerut	72	35	65	58	66	71	67	48	45	52	50	71	700
	Jengahak	52	37	62	59	54	45	53	41	30	68	57	42	600
	Kaci	48	24	55	40	41	47	53	49	69	89	116	62	693
	Kerapu	224	152	283	258	465	341	439	324	286	330	340	165	3,607
	Kerisi	2,032	1,041	2,280	2,064	1,965	1,976	2,013	2,026	2,024	2,482	2,162	1,491	23,556
	Kerisi Bali	129	68	171	208	260	184	220	151	221	254	293	115	2,274
	Kikek	61	45	113	195	135	68	76	57	78	100	46	61	1,035
	Malong	475	318	428	288	471	244	346	216	166	445	596	238	4,231
	Merah	159	77	167	142	224	188	186	155	247	236	306	101	2,188
	Mengkerong/Conor/Ubi-Ubi	645	509	1,349	964	1,054	1,052	1,037	850	789	1,138	999	1,636	12,022
	Remong/Kunyit-Kunyit/Tanda	138	77	174	145	170	144	160	142	144	218	221	140	1,873
	Semilang	74	46	44	34	48	49	48	40	79	62	61	52	637
	Shrumbu/Lemah	3	3	9	7	4	10	47	19	13	39	30	29	213
	Puntong Damar/Bulus	229	80	358	90	149	187	145	119	141	121	122	143	1,884
	Pasir-Pasir/Timun-Timun	44	31	93	116	94	66	83	61	72	134	64	53	911
34	Alu-Alu/Kacang-Kacang	151	80	184	189	203	185	205	166	135	167	170	151	1,986
	Aruan Tasik	25	14	48	42	28	50	31	38	35	32	25	16	384
	Bawal	653	373	568	561	524	525	546	597	567	1,015	620	638	7,187
	Belanak/Kedera	392	175	298	172	150	213	189	226	123	225	243	199	2,605
	Cermin/Sagai/Cupak	109	54	131	132	162	135	148	121	193	210	287	95	1,777

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

	Cincaru	864	377	879	738	796	1,264	828	1,390	640	1,105	659	524	10,064
	Demudok/Rambai	94	49	131	178	170	89	136	130	79	128	99	63	1,346
	Kurau/Senangin/Senohong	133	78	125	118	130	121	131	103	80	86	91	72	1,268
	Pelata/Selar	985	634	1,090	1,146	1,329	1,329	1,614	1,229	1,178	1,532	1,938	1,165	15,169
	Selar Kuning/Lolong	1,192	805	2,396	2,191	2,542	2,715	3,361	3,949	3,316	3,878	2,951	1,100	30,396
	Selayang/Curut	1,375	977	2,652	3,246	3,222	11,270	5,267	5,605	7,781	8,549	5,412	3,339	58,695
	Pisang-Pisang	7	47	5	7	8	7	4	46	19	27	1,263	35	1,475
	Talang	40	24	35	52	66	38	34	34	23	86	38	38	508
35	Bilis/Bunga Air	1,764	1,412	1,588	1,494	2,225	1,972	1,955	1,853	1,825	2,182	1,100	919	20,289
	Parang-Parang	264	207	297	315	288	374	386	320	248	308	244	204	3,455
	Tamban	594	546	1,691	1,635	2,004	1,953	1,874	1,902	3,235	3,108	1,940	571	21,053
	Bulan-Bulan	1	1	1	341	11	0	0	1	2	1	0	0	359
36	Aya/Kayu/Tongkol	662	1,306	1,386	2,018	2,149	2,313	2,305	1,574	2,411	2,254	4,247	1,159	23,784
	Layaran/Mersui	4	1	1	12	0	1	0	0	2	1	1	7	30
37	Kembong/Temenong/Pelaling	3,725	3,275	7,434	7,568	6,639	8,957	10,154	7,233	5,548	4,548	5,170	5,200	75,451
	Tenggiri	549	382	591	518	514	604	482	502	408	596	777	643	6,566
	Timah/Layar/Selayor	258	186	617	525	426	361	530	453	298	614	396	409	5,073
38	Pari	932	539	1,114	891	996	1,979	1,015	992	1,036	1,011	779	708	11,992
	Yu	114	131	210	208	181	344	279	299	225	198	209	127	2,525
39	Ikan Baja	21,661	13,452	20,661	18,679	19,410	24,698	24,071	21,327	19,640	22,718	22,131	21,712	250,160
	Ikan Campur	1,697	1,135	2,051	2,153	2,301	2,387	2,649	2,391	2,469	3,017	2,156	1,990	26,396
	Jebong	71	70	146	100	72	113	130	105	137	186	131	138	1,399
42	Ketam	452	316	440	450	506	516	530	523	398	500	533	508	5,672
45	Udang Karang/Lobok	43	20	31	28	32	44	51	43	38	44	58	39	471
	Udang Putih	885	615	722	818	634	692	682	632	526	630	700	749	8,285
	Udang Minyak	1,035	848	746	1,128	1,081	796	1,087	843	565	1,085	1,077	733	11,024
	Udang Merah Ros	586	415	524	406	494	408	455	514	327	382	478	556	5,545
	Udang Kulit Keras	348	265	261	173	314	198	340	233	199	249	349	276	3,205
	Udang Harimau	67	50	57	39	35	37	30	40	33	44	41	54	527
	Lain-Lain Jenis Udang	2,481	2,314	2,264	2,298	2,613	2,453	2,089	1,746	1,357	2,081	1,962	2,635	26,293
	Udang Baring	1,386	1,232	1,262	1,111	1,176	1,029	1,030	989	1,785	1,177	1,818	858	14,853
56	Siput/Kepah/Kupang/Tiram	2,478	1,302	3,210	2,000	1,404	1,878	2,453	2,346	1,666	1,786	2,678	1,511	24,712
57	Sotong Kereta	78	54	85	92	85	81	86	119	88	86	125	66	1,045
	Sotong Katak	1,391	864	1,507	1,232	1,535	1,781	1,672	1,567	1,292	1,796	1,519	1,493	17,649
	Sotong Biasa	2,075	1,860	1,954	2,481	3,630	2,595	2,565	2,084	3,084	3,596	3,079	1,685	30,688
76	Ubur-Ubur	19	43	239	234	209	52	575	1,648	13	1	34	9	3,076
	Jumlah Tan M/Total Tonnes	59,667	41,507	69,945	67,025	70,011	85,088	81,057	74,406	70,535	80,895	77,087	60,351	837,574

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST OF PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5.2.

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>December</i>	Jumlah (Tan) <i>Total</i> (Tonnes)
	Nama Tempatan <i>Local Name</i>													
24	Kebasi/Selangat	237	145	192	236	268	153	222	169	94	178	261	244	2,399
	Puput/B. Mata/Tirok	965	514	1,521	1,257	1,384	695	594	713	560	842	1,054	981	11,080
	Terubok	16	13	7	15	9	1	1	2	1	6	29	2	102
25	Siakap	6	4	5	5	4	14	12	3	5	8	11	6	83
31	Lidah	203	130	318	292	204	213	246	219	233	202	255	209	2,724
	Sebelah	56	43	67	52	49	46	50	34	28	41	38	23	527
33	Bayan	2	2	3	3	3	2	0	1	0	1	0	0	17
	Biji Nangka	73	40	135	88	88	130	109	139	115	144	118	59	1,238
	Daun Baharu	6	6	16	13	8	5	6	7	7	10	9	10	103
	Delah/Pinang-Pinang	1	0	2	2	2	5	5	1	1	2	2	0	23
	Duri/Pulutan/Utik	423	343	441	428	436	435	380	380	315	443	386	385	4,795
	Dengkis/Debam	21	4	13	7	6	6	5	11	7	12	11	4	107
	Gelama/Tengkerong/Selampai	1,121	851	1,305	1,239	937	1,108	1,158	982	828	950	1,050	1,013	12,542
	Gerut-Gerut	61	33	58	47	51	57	55	40	30	42	41	62	577
	Jenahak	43	34	54	55	49	40	50	37	24	62	48	36	532
	Kaci	5	2	2	1	2	2	3	2	2	2	6	3	32
	Kerapu	159	100	177	158	182	141	150	134	130	167	137	100	1,735
	Kerisi	774	460	1,348	864	777	844	865	782	745	756	603	551	9,369
	Kerisi Bali	9	12	31	21	4	7	10	8	11	9	3	3	128
	Kikek	15	14	14	5	9	10	7	6	9	7	2	13	111
	Malong	464	309	418	278	458	197	328	206	154	433	582	224	4,051
	Merah	25	13	38	29	16	19	20	17	48	38	19	13	295
	Mengkerong/Conor/Ubi-Ubi	427	385	1,175	744	766	798	800	619	540	757	778	1,453	9,242
	Remong/Kunyit-Kunyit/Tanda	12	4	23	8	7	8	9	9	12	15	32	10	149
	Semilang	74	46	44	34	45	49	47	40	78	61	60	50	628
	Shrumbu/Lemah	3	3	9	6	4	10	46	19	13	39	30	29	211
	Puntong Damar/Bulus	140	58	327	72	89	109	98	89	103	91	66	64	1,306
	Pasir-Pasir/Timun-Timun	0	0	1	0	0	0	0	0	0	0	0	0	1
34	Alu-Alu/Kacang-Kacang	85	48	104	109	96	102	111	87	65	77	84	67	1,035
	Aruan Tasik	9	5	31	12	3	16	5	11	10	12	6	6	126
	Bawal	626	345	531	533	465	501	515	563	521	964	588	619	6,771
	Belanak/Kedera	384	162	289	158	140	198	181	214	116	215	233	197	2,487
	Cermin/Sagai/Cupak	20	10	12	10	13	12	22	11	10	17	12	11	160

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

	Cincaru	761	315	758	567	639	1,077	638	1153	525	831	429	333	8,026
	Demudok/Rambai	68	39	100	82	99	70	79	72	45	71	55	36	816
	Kurau/Senangin/Senohong	131	78	105	99	121	115	129	101	74	84	89	72	1,198
	Pelata/Selar	408	288	329	258	330	343	376	360	360	386	513	459	4,410
	Selar Kuning/Lolong	318	236	511	285	442	429	499	897	497	559	489	343	5,505
	Selayang/Curut	332	262	354	198	362	1,923	905	432	499	417	598	671	6,953
	Pisang-Pisang	6	9	3	4	4	5	3	24	16	21	1	1	97
	Talang	36	19	28	44	28	30	23	19	13	13	24	34	311
35	Bilis/Bunga Air	1,736	1,365	1,296	1010	1,015	1,175	1,230	902	831	1,082	937	918	13,497
	Parang-Parang	198	160	203	225	192	260	229	205	123	168	159	160	2,282
	Tamban	294	221	758	464	508	558	458	255	363	539	193	237	4,848
	Bulan-Bulan	1	1	0	0	0	0	0	1	0	1	0	0	4
36	Aya/Kayu/Tongkol	249	241	369	701	627	983	993	486	484	372	443	475	6,423
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	0	0	5	5
37	Kembong/Temenong/Pelaling	3,566	3,169	7,091	7039	5,936	8,345	9,397	5,972	3,965	3,141	3,971	4,994	66,586
	Tenggiri	391	295	448	320	299	371	279	241	171	339	466	495	4,115
	Timah/Layor/Selayor	178	118	442	365	252	240	416	317	206	433	290	346	3,603
38	Pari	595	314	650	413	393	1,415	532	390	384	380	370	323	6,159
	Yu	59	64	99	72	48	104	104	84	83	62	73	55	907
39	Ikan Baja	14,636	9,779	14,354	13,951	13,093	16,451	15,768	13,309	11,636	14,133	14,142	14,419	165,671
	Ikan Campur	779	660	1,276	1,217	1,145	1,117	1,317	1,352	1,222	1,360	1,198	1,250	13,893
	Jebong	35	41	76	52	24	64	49	42	37	57	33	36	546
42	Ketam	378	257	379	390	376	336	330	362	297	380	438	428	4,351
45	Udang Karang/Lobok	1	1	2	2	1	1	2	1	1	1	1	1	15
	Udang Putih	737	555	648	789	609	676	658	614	508	605	664	654	7,717
	Udang Minyak	962	801	654	1,099	1,069	789	1,080	830	549	1,073	1,053	671	10,630
	Udang Merah Ros	341	282	386	353	437	358	416	465	282	342	398	338	4,398
	Udang Kulit Keras	304	245	199	158	312	194	337	224	193	242	327	230	2,965
	Udang Harimau	53	45	49	31	26	23	20	22	21	32	31	34	387
	Lain-Lain Jenis Udang	2,137	2,127	2,054	2,235	2,525	2,351	1,988	1,614	1,264	1,955	1,757	2,361	24,368
	Udang Baring	1,386	1,231	1,262	1,111	1,176	1,029	861	827	1,623	1,110	1,818	858	14,292
56	Siput/Kepah/Kupang/Tiram	2,476	1,301	3,209	1,998	1,402	1,876	2,452	2,345	1,666	1,786	2,677	1,510	24,698
57	Sotong Kereta	77	47	79	92	81	77	73	99	64	81	89	66	925
	Sotong Katak	759	554	813	607	598	685	798	725	643	947	900	915	8,944
	Sotong Biasa	1,678	1,549	1,189	1,076	1,238	1,265	1,301	936	2,007	2,443	2,326	1,114	18,122
76	Ubur-Ubur	19	43	239	234	209	52	575	1,648	13	1	34	9	3,076
	Jumlah Tan M/Total Tonnes	42,550	30,850	49,123	44,322	42,190	50,720	50,425	42,881	35,480	42,050	43,540	41,298	515,429

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL(TABLE) 4.5.3.

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>December</i>	Jumlah (Tan) <i>Total (Tonnes)</i>
	Nama Tempatan <i>Local Name</i>													
24	Kebasi/Selangat	0	1	0	0	0	0	0	0	0	0	0	0	1
	Puput/B. Mata/Tirok	4	2	29	22	14	7	9	14	5	3	5	0	114
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Siakap	0	1	1	1	2	2	0	0	2	1	2	1	13
31	Lidah	19	10	17	15	8	12	13	13	14	13	11	20	165
	Sebelah	27	18	29	22	33	32	24	20	21	23	23	20	292
33	Bayan	7	2	3	5	8	5	4	2	6	5	33	3	83
	Biji Nangka	175	121	206	467	457	521	449	356	420	516	336	266	4,290
	Dauu Baharu	7	6	10	13	12	13	12	10	14	11	12	7	127
	Delah/Pinang-Pinang	5	9	23	24	34	15	20	12	57	27	32	15	273
	Duri/Pulutan/Utik	91	71	141	150	199	217	504	882	193	224	181	135	2,988
	Dengkis/Debam	37	26	49	56	72	29	55	53	50	55	74	39	595
	Gelama/Tengkerong/Selampai	140	74	129	226	280	193	237	172	131	171	163	116	2,032
	Gerut-Gerut	11	2	7	11	15	14	12	8	15	10	9	9	123
	Jenahak	9	3	8	4	5	5	3	4	6	6	9	6	68
	Kaci	43	22	53	39	39	45	50	47	67	87	110	59	661
	Kerapu	65	52	106	100	283	200	289	190	156	163	203	65	1,872
	Kerisi	1,258	581	932	1,200	1,188	1,132	1,148	1,244	1,279	1,726	1,559	940	14,187
	Kerisi Bali	120	56	140	187	256	177	210	143	210	245	290	112	2,146
	Kikek	46	31	99	190	126	58	69	51	69	93	44	48	924
	Malong	11	9	10	10	13	47	18	10	12	12	14	14	180
	Merah	134	64	129	113	208	169	166	138	199	198	287	88	1,893
	Mengkerong/Conor/Ubi-Ubi	218	124	174	220	288	254	237	231	249	381	221	183	2,780
	Remong/Kunyit-Kunyit/Tanda	126	73	151	137	163	136	151	133	132	203	189	130	1,724
	Semilang	0	0	0	0	3	0	1	0	1	1	1	2	9
	Shrumbu/Lemah	0	0	0	1	0	0	1	0	0	0	0	0	2
	Puntong Damar/Bulus	89	22	31	18	60	78	47	30	38	30	56	79	578
	Pasir-Pasir/Timun-Timun	44	31	92	116	94	66	83	61	72	134	64	53	910
34	Alu-Alu/Kacang-Kacang	66	32	80	80	107	83	94	79	70	90	86	84	951
	Aruan Tasik	16	9	17	30	25	34	26	27	25	20	19	10	258
	Bawal	27	28	37	28	59	24	31	34	46	51	32	19	416
	Belanak/Kedera	8	13	9	14	10	15	8	12	7	10	10	2	118
	Cermin/Sagai/Cupak	89	44	119	122	149	123	126	110	183	193	275	84	1,617

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

	Cincaru	103	62	121	171	157	187	190	237	115	274	230	191	2,038
	Demudok/Rambai	26	10	31	96	71	19	57	58	34	57	44	27	530
	Kurau/Senangin/Senohong	2	0	20	19	9	6	2	2	6	2	2	0	70
	Pelata/Selar	577	346	761	888	999	986	1,238	869	818	1,146	1,425	706	10,759
	Selar Kuning/Lolong	874	569	1,885	1,906	2,100	2,286	2,862	3,052	2,819	3,319	2,462	757	24,891
	Selayang/Curut	1,043	715	2,298	3,048	2,860	9,347	4,362	5,173	7,282	8,132	4,814	2,668	51,742
	Pisang-Pisang	1	38	2	3	4	2	1	22	3	6	1,262	34	1,378
	Talang	4	5	7	8	38	8	11	15	10	73	14	4	197
35	Bilis/Bunga Air	28	47	292	484	1,210	797	725	951	994	1,100	163	1	6,792
	Parang-Parang	66	47	94	90	96	114	157	115	125	140	85	44	1,173
	Tamban	300	325	933	1,171	1,496	1,395	1,416	1,647	2,872	2,569	1,747	334	16,205
	Bulan-Bulan	0	0	1	341	11	0	0	0	2	0	0	0	355
36	Aya/Kayu/Tongkol	413	1,065	1,017	1,317	1,522	1,330	1,312	1,088	1,927	1,882	3,804	684	17,361
	Layaran/Mersuji	4	1	1	12	0	1	0	0	2	1	1	2	25
37	Kembong/Temenong/Pelaling	159	106	343	529	703	612	757	1,261	1,583	1,407	1,199	206	8,865
	Tenggiri	158	87	143	198	215	233	203	261	237	257	311	148	2,451
	Timah/Layor/Selayor	80	68	175	160	174	121	114	136	92	181	106	63	1,470
38	Pari	337	225	464	478	603	564	483	602	652	631	409	385	5,833
	Yu	55	67	111	136	133	240	175	215	142	136	136	72	1,618
39	Ikan Baja	7,025	3,673	6,307	4,728	6,317	8,247	8,303	8,018	8,004	8,585	7,989	7,293	84,489
	Ikan Campur	918	475	775	936	1,156	1,270	1,332	1,039	1,247	1,657	958	740	12,503
	Jebong	36	29	70	48	48	49	81	63	100	129	98	102	853
42	Ketam	74	59	61	60	130	180	200	161	101	120	95	80	1,321
45	Udang Karang/Lobok	42	19	29	26	31	43	49	42	37	43	57	38	456
	Udang Putih	148	60	74	29	25	16	24	18	18	25	36	95	568
	Udang Minyak	73	47	92	29	12	7	7	13	16	12	24	62	394
	Udang Merah Ros	245	133	138	53	57	50	39	49	45	40	80	218	1,147
	Udang Kulit Keras	44	20	62	15	2	4	3	9	6	7	22	46	240
	Udang Harimau	14	5	8	8	9	14	10	18	12	12	10	20	140
	Lain-Lain Jenis Udang	344	187	210	63	88	102	101	132	93	126	205	274	1,925
	Udang Baring	0	1	0	0	0	0	169	162	162	67	0	0	561
56	Siput/Kepah/Kupang/Tiram	2	1	1	2	2	2	1	1	0	0	1	1	14
57	Sotong Kereta	1	7	6	0	4	4	13	20	24	5	36	0	120
	Sotong Katok	632	310	694	625	937	1,096	874	842	649	849	619	578	8,705
	Sotong Biasa	397	311	765	1,405	2,392	1,330	1,264	1,148	1,077	1,153	753	571	12,566
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	17,117	10,657	20,822	22,703	27,821	34,368	30,632	31,525	35,055	38,845	33,547	19,053	322,145

SARAWAK
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL(TABLE) 4.5.4.

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 December	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name													
24	Kebasi/Selangat	18	18	27	18	29	67	32	31	20	15	17	16	308
	Puput/B. Mata/Tirok	15	20	74	145	95	170	129	142	78	202	132	37	1,239
	Terubok	1	10	6	22	73	91	92	87	48	87	51	6	574
25	Siakap	0	0	2	1	0	1	1	0	1	4	1	0	11
31	Lidah	3	6	8	10	8	17	4	7	4	12	9	15	103
33	Sebelah	6	6	9	21	14	14	13	13	9	12	13	13	143
	Bayan	0	0	0	3	0	0	0	0	0	0	3	0	6
	Biji Nangka	50	87	93	221	214	406	473	413	455	813	751	358	4,334
	Daun Baharu	7	5	9	18	10	9	7	8	11	8	6	6	104
	Delah/Pinang-Pinang	0	0	0	0	0	0	0	0	0	0	0	0	0
	Duri/Pulutan/Utik	80	95	119	243	288	308	284	282	200	326	266	164	2,655
	Dengkis/Debam	0	0	0	0	0	0	0	0	0	0	0	0	0
	Gelama/Tengkerong/Selampai	107	107	144	238	225	347	288	278	229	440	312	209	2,924
	Gerut-Gerut	0	0	0	0	2	13	0	2	0	1	2	0	20
	Jenahak	5	4	8	9	10	17	14	19	11	15	12	29	153
	Kaci	1	1	2	2	2	2	1	4	7	6	0	0	28
	Kerapu	16	27	25	52	38	48	53	40	34	47	38	27	445
	Kerisi	34	25	48	54	43	93	82	67	41	66	65	91	709
	Kerisi Bali	14	24	18	16	20	14	13	14	13	18	3	22	189
	Kikek	5	6	7	6	9	13	4	3	9	1	1	0	64
	Malong	26	45	98	178	150	193	196	149	146	152	182	126	1,641
	Merah	59	61	71	121	95	140	121	103	74	120	95	104	1,164
	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	0	2	1	5	3	7	2	1	1	1	1	1	25
	Shrumbu/Lemah	18	13	37	49	40	35	31	24	17	12	15	10	301
	Puntung 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
	Alu-Alu/Kacang-Kacang	3	4	3	1	1	1	1	0	0	2	0	0	16
34	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	44	38	81	168	178	171	201	109	122	140	84	41	1,377
	Belanak/Kedera	1	1	0	1	4	3	2	3	0	9	2	4	30
	Cermin/Sagai/Cupak	0	0	1	9	15	11	12	9	10	28	20	19	134

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

	Cincaru	59	75	101	179	117	136	148	142	104	129	128	134	1,452
	Demudok/Rambai	19	12	20	25	26	30	26	31	19	14	13	8	243
	Kurau/Senangin/Senohong	2	1	30	58	58	50	63	37	32	59	45	5	440
	Pelata/Selar	31	26	54	84	69	124	113	92	61	66	50	36	806
	Selar Kuning/Lolong	19	14	55	64	46	40	41	37	71	64	24	19	494
	Selayang/Curut	5	12	8	2	16	12	5	2	5	2	3	2	74
	Pisang-Pisang	0	0	0	0	0	0	0	0	0	0	0	0	0
	Talang	12	10	19	56	46	43	61	44	27	30	25	19	392
35	Bilis/Bunga Air	11	0	0	0	0	0	0	0	0	0	0	0	11
	Parang-Parang	22	22	23	70	68	93	73	92	47	60	57	35	662
	Tamban	123	102	145	175	172	213	144	141	175	223	231	165	2,009
	Bulan-Bulan	0	0	0	0	1	0	0	0	0	0	0	0	1
36	Aya/Kayu/Tongkol	25	26	100	131	173	170	117	116	116	141	178	63	1,356
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	131	110	160	304	260	349	268	233	206	246	175	188	2,630
	Tenggiri	76	93	157	225	203	251	220	192	142	279	184	108	2,130
	Timah/Layor/Selayor	50	70	75	104	73	180	130	189	86	152	143	79	1,331
38	Pari	84	91	116	176	190	206	199	198	167	214	175	135	1,951
	Yu	64	79	97	135	142	216	183	155	117	197	163	103	1,651
39	Ikan Baja	1,052	777	1,617	1,452	1,294	1,657	1,451	1,338	789	1,301	841	1,189	14,758
	Ikan Campur	510	538	1,216	1,864	1,416	1,392	1,265	1,247	1,056	1,454	1,110	853	13,921
	Jebong	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Ketam	22	27	41	51	47	59	36	38	98	48	37	41	545
45	Udang Karang/Lobok	1	0	1	0	1	0	0	0	0	0	1	1	5
	Udang Putih	234	256	349	200	193	167	182	148	111	191	234	228	2,493
	Udang Minyak	0	0	0	13	0	0	0	0	0	0	1	2	16
	Udang Merah Ros	45	40	44	37	40	39	14	18	11	20	24	54	386
	Udang Kulit Keras	89	87	231	271	292	246	76	41	15	40	46	86	1,520
	Udang Harimau	2	1	1	0	0	0	0	0	0	0	0	0	4
	Lain-Lain Jenis Udang	570	668	1,064	803	488	419	427	366	338	414	349	667	6,573
	Udang Baring	0	5	12	13	8	7	4	1	1	2	2	2	57
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	6	9	13	18	15	25	43	27	17	27	16	18	234
	Sotong Biasa	93	47	71	164	163	143	137	117	138	186	203	224	1,686
76	Ubur-Ubur	10,005	13,954	16,715	7,326	1,033	68	124	137	49	87	63	104	49,665
	Jumlah Tan M/Total Tonnes	13,875	17,757	23,426	15,611	8,216	8,526	7,606	6,987	5,538	8,183	6,602	5,866	128,193

SABAH
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL(TABLE) 4.5.5.

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>December</i>	Jumlah (Tan) <i>Total</i> (Tonnes)
	Nama Tempatan <i>Local Name</i>													
24	Kebasi/Selangat	45	62	43	34	33	43	33	33	70	58	46	55	555
	Puput/B. Mata/Tirok	83	62	68	86	91	89	62	60	78	67	57	72	875
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Siakap	65	68	62	73	58	49	70	62	76	58	70	56	767
31	Lidah	1	1	1	1	1	2	1	1	1	1	0	2	13
33	Sebelah	88	86	91	76	69	82	89	109	101	97	74	128	1,090
	Bayan	162	97	160	148	170	260	191	247	158	172	240	191	2,196
	Biji Nangka	48	26	40	38	34	11	28	30	20	18	12	28	333
	Daun Baharu	4	8	6	7	9	22	16	16	1	4	15	16	124
	Delah/Pinang-Pinang	72	57	70	93	125	110	129	147	79	126	152	183	1,343
	Duri/Pulutan/Utik	257	231	239	242	239	311	232	258	203	262	262	253	2,989
	Dengkis/Debam	32	35	44	47	41	53	42	37	35	32	46	54	498
	Gelama/Tengkerong/Selampai	202	190	241	201	304	270	233	240	172	234	217	202	2,706
	Gerut-Gerut	38	23	50	24	16	29	16	19	15	15	18	22	285
	Jenahak	182	174	240	246	242	230	255	249	279	257	264	213	2,831
	Kaci	4	9	7	7	5	18	8	12	8	6	2	7	93
	Kerapu	355	270	300	489	443	343	353	362	380	404	405	413	4,517
	Kerisi	454	435	441	450	498	384	360	473	418	417	495	486	5,311
	Kerisi Bali	101	132	121	141	148	154	139	207	143	157	165	130	1,738
	Kikek	95	95	92	86	103	105	89	109	63	115	91	101	1,144
	Malong	100	70	91	85	69	67	71	68	84	58	87	101	951
	Merah	225	267	266	259	263	261	253	242	250	276	290	275	3,127
	Mengkerong/Conor/Ubi-Ubi	193	179	197	261	221	247	185	174	262	167	231	151	2,468
	Remong/Kunyit-Kunyit/Tanda	48	50	80	79	47	113	76	106	108	99	116	118	1,040
	Semilang	60	55	52	66	58	50	79	74	90	78	63	60	785
	Shrumbu/Lemah	1	0	0	1	1	1	1	1	1	1	1	2	11
	Puntong Damar/Bulus	2	5	4	2	1	1	10	6	7	1	3	5	47
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alu-Alu/Kacang-Kacang	359	319	453	415	364	408	394	338	405	264	371	386	4,476
34	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	89	111	101	92	95	116	137	115	101	162	169	143	1,431
	Belanak/Kedera	174	174	139	104	83	128	82	126	181	229	246	224	1,890
	Cermin/Sagai/Cupak	23	12	39	49	42	46	69	69	30	60	78	85	602

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

	Cincaru	98	66	121	137	197	133	146	134	127	150	171	146	1,626
	Demudok/Rambai	234	192	318	698	393	363	376	508	364	440	367	368	4,621
	Kurau/Senangin/Senohong	142	157	169	112	148	162	186	167	203	171	185	160	1,962
	Pelata/Selar	268	241	326	314	392	351	348	328	296	433	247	374	3,918
	Selar Kuning/Lolong	64	81	76	75	68	83	72	61	88	62	61	83	874
	Selayang/Curut	797	818	1,222	1,022	856	1,025	959	947	1,031	1,315	932	942	11,866
	Pisang-Pisang	2	1	5	3	11	5	3	13	14	9	19	17	102
	Talang	128	162	200	204	191	163	152	137	137	107	142	206	1,929
35	Bilis/Bunga Air	279	236	288	222	238	366	158	126	216	427	404	501	3,461
	Parang-Parang	1	1	8	3	10	7	13	7	1	1	7	3	62
	Tamban	771	785	1,810	1,259	1,056	1,428	1,135	1,404	1,417	1,185	1,142	1,295	14,687
	Bulan-Bulan	6	6	10	9	12	8	25	15	20	11	17	15	154
36	Aya/Kayu/Tongkol	1,264	1,079	1,152	923	884	1,394	1,066	907	991	1,387	1,364	1,596	14,007
	Layaran/Mersuji	22	28	32	34	5	4	55	42	21	37	17	15	312
37	Kembong/Temenong/Pelaling	387	430	543	677	572	609	572	620	655	793	703	641	7,202
	Tenggiri	541	471	484	486	357	285	352	273	296	240	336	486	4,607
	Timah/Layor/Selayor	485	433	433	537	483	549	350	275	388	257	321	340	4,851
38	Pari	308	244	306	226	211	317	237	257	237	222	318	296	3,179
	Yu	199	221	228	264	235	258	262	273	301	293	282	257	3,073
39	Ilkan Baja	1,290	1,159	1,406	1,417	1,509	1,637	1,238	1,244	1,273	1,261	1,075	1,129	15,638
	Ilkan Campur	390	364	414	462	496	472	422	436	404	435	473	519	5,287
	Jebong	16	19	35	41	31	40	33	46	56	44	28	34	423
42	Ketam	195	241	233	241	208	247	285	311	283	448	368	379	3,439
45	Udang Karang/Lobok	14	17	23	19	19	24	35	24	22	18	30	18	263
	Udang Putih	386	355	395	381	314	277	329	273	256	298	366	396	4,026
	Udang Minyak	11	40	24	31	71	67	37	37	41	67	41	26	493
	Udang Merah Ros	31	25	31	31	34	32	29	31	36	30	35	42	387
	Udang Kulit Keras	34	21	24	25	21	16	15	12	13	14	20	21	236
	Udang Harimau	18	17	19	19	16	18	25	21	18	86	20	25	302
	Lain-Lain Jenis Udang	672	337	393	330	340	353	358	385	224	319	324	260	4,295
	Udang Baring	93	108	33	1	3	1	1	25	20	2	2	1	290
56	Siput/Kepah/Kupang/Tiram	30	42	51	60	70	79	75	71	71	80	90	69	788
57	Sotong Kereta	14	13	16	15	15	16	20	23	19	31	18	25	225
	Sotong Katak	217	191	255	216	219	166	229	193	209	204	157	241	2,497
	Sotong Biasa	378	411	524	772	556	413	443	471	417	481	539	472	5,877
76	Ubur-Ubur	9	4	10	6	254	740	5	8	6	9	13	6	1,070
	Jumlah Tan M/Total Tonnes	13,356	12,319	15,355	15,174	14,368	16,111	13,749	14,095	13,990	15,262	14,920	15,566	174,265

LABUAN
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5.6.

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>December</i>	Jumlah (Tan) <i>Total (Tonnes)</i>
	Nama Tempatan <i>Local Name</i>													
24	Kebasi/Selangat	2	5	5	0	6	1	1	0	0	1	1	1	23
	Puput/B. Mata/Tirok	5	5	11	7	31	1	1	1	1	1	1	1	66
	Terubok	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
31	Lidah	1	5	3	2	7	1	1	0	0	2	2	0	24
	Sebelah	9	11	22	25	41	7	7	5	4	6	2	2	141
33	Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biji Nangka	6	8	14	22	26	5	6	5	7	3	3	2	107
	Daun Baharu	8	28	20	14	33	6	6	3	1	2	2	2	125
	Delah/Pinang-Pinang	21	9	16	105	116	8	11	9	4	8	7	6	320
	Duri/Pulutan/Utik	18	17	34	15	45	6	12	6	5	9	3	2	172
	Dengkis/Debam	21	7	20	28	35	8	2	3	3	3	3	2	135
	Gelama/Tengkerong/Selampai	11	13	33	42	23	6	6	4	4	3	16	3	164
	Gerut-Gerut	16	12	11	22	51	4	11	6	4	4	6	4	151
	Jenahak	14	17	21	27	64	10	12	5	2	10	10	3	195
	Kaci	18	12	12	30	136	8	12	9	6	5	8	4	260
	Kerapu	49	67	37	125	159	17	25	13	8	17	26	12	555
	Kerisi	62	50	50	85	68	13	14	13	16	70	38	47	526
	Kerisi Bali	27	25	25	161	115	26	23	9	11	12	52	7	493
	Kikek	10	3	23	16	34	6	7	7	4	4	4	1	119
	Malong	12	0	3	0	0	0	0	0	0	5	1	0	21
	Merah	51	56	35	130	143	22	36	21	14	33	36	13	590
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0	0	0	0	0	0	0	0
	Remang/Kunyit-Kunyit/Tanda	20	23	33	38	93	13	24	10	9	9	15	10	297
	Semilang	0	0	0	0	0	0	0	0	0	0	0	0	0
	Shrumbu/Lemah	2	2	6	1	14	1	2	2	1	2	2	1	36
	Puntong Damar/Bulus	0	0	0	0	0	0	0	0	0	1	2	0	3
	Pasir-Pasir/Timun-Timun	6	5	9	6	4	2	1	2	1	1	1	1	39
34	Alu-Alu/Kacang-Kacang	9	14	28	44	48	6	9	6	7	3	2	0	176
	Aruan Tasik	0	0	0	1	0	0	0	0	0	0	0	0	1
	Bawal	22	53	50	59	82	8	2	2	2	1	1	0	282
	Belanak/Kedera	4	2	3	2	8	1	1	1	1	1	1	0	25
	Cermin/Sagai/Cupak	74	53	50	130	206	27	30	25	20	31	34	18	698

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

110	Cincaru	56	86	90	104	133	7	2	7	4	10	20	1	520
	Demudok/Rambai	6	16	26	9	31	9	8	8	11	3	7	2	136
	Kurau/Senangin/Senohong	2	3	6	5	8	2	4	1	0	0	0	0	31
	Pelata/Selar	44	71	65	41	74	11	19	24	16	20	19	26	430
	Selar Kuning/Lolong	13	68	31	15	43	9	8	11	9	21	16	23	267
	Selayang/Curut	20	66	55	241	72	12	16	34	10	9	8	6	549
	Pisang-Pisang	0	0	0	0	0	0	0	0	0	0	1	3	4
	Talang	0	1	0	5	30	2	1	1	1	1	1	0	43
	35 Bilis/Bunga Air	0	1	0	0	9	1	0	0	0	0	0	0	11
	Parang-Parang	5	5	9	4	21	0	0	0	0	0	0	0	44
	Tamban	61	10	69	86	62	12	15	14	7	9	8	8	361
	Bulan-Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0
	36 Aya/Kayu/Tongkol	1,022	10	1,705	43	65	2,142	1,246	1,683	483	984	891	1,202	11,476
	Layaran/Mersuji	3	2	3	0	12	0	0	0	0	0	0	0	20
	37 Kembong/Temenong/Pelaling	128	117	153	372	405	55	54	50	26	54	61	43	1,518
	Tenggiri	48	52	53	71	121	14	22	9	10	12	12	7	431
	Timah/Layor/Selayor	1	3	14	0	0	0	0	0	0	0	0	0	18
	38 Pari	19	8	14	15	17	6	4	3	5	28	26	15	160
	Yu	31	18	20	17	59	7	8	8	10	17	20	19	234
	39 Ikan Baja	73	407	35	399	348	363	360	404	115	421	476	303	3,704
	Ikan Campur	86	587	88	501	129	21	34	39	80	104	96	98	1,863
	Jebong	4	6	22	14	15	6	6	3	6	2	14	21	119
	42 Ketam	4	9	14	9	27	2	2	1	1	3	2	1	75
	45 Udang Karang/Lobok	17	21	13	10	15	1	1	2	3	7	5	2	97
	Udang Putih	32	27	32	62	32	5	5	5	2	7	6	5	220
	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	13	16	17	22	15	2	2	2	1	7	5	1	103
	Lain-Lain Jenis Udang	24	38	43	42	66	9	7	9	4	14	13	3	272
	Udang Baring	12	14	14	0	0	0	0	0	0	0	0	0	40
	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	21	32	22	26	34	11	7	10	7	16	17	8	211
	Sotong Biasa	23	25	38	86	26	8	7	8	6	6	4	3	240
	76 Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0
Jumlah Tan M/Total Tonnes		2,266	2,221	3,225	3,336	3,457	2,930	2,100	2,503	952	2,002	2,007	1,942	28,941

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1997
(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	Rampaian Miscel- laneous	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name		Pukat Jerut Ikan Seine Fish Purse	Pukat Jerut Bilis Seine Anchovy				Belat- Belat Stationary	Bubu Portable							
24	Kebasi/Selangat	858	0	0	4	2,330	0	84	5	4	0	1	0	0	0	3,286
	Puput/B. Mata/Tirok	4,961	31	14	0	8,351	1	8	0	7	1	0	0	0	0	13,374
	Terubok	36	0	0	0	635	0	1	0	4	0	0	0	0	0	676
25	Siakap	26	0	0	1	435	0	34	85	282	0	10	1	0	0	874
31	Lidah	2,383	0	0	19	598	0	13	0	1	3	12	0	0	0	3,029
	Sebelah	1,971	0	0	4	112	0	95	6	2	1	2	0	0	0	2,193
33	Bayan	299	0	0	262	105	0	9	86	1,450	0	0	0	0	91	2,302
	Biji Nangka	10,166	2	0	0	34	0	0	98	2	0	0	0	0	0	10,302
	Dau Baharu	333	0	0	0	184	0	2	15	24	0	1	0	0	24	583
	Delah/Pinang-Pinang	86	21	0	0	93	2	2	166	716	0	0	0	0	873	1,959
	Duri/Pulutan/Utik	6,008	11	1,021	81	4,155	1	227	35	1,847	43	170	0	0	0	13,599
	Dengkis/Debam	323	1	0	84	219	2	62	547	65	0	0	0	0	32	1,335
	Gelama/Tengkerong/Selampai	13,449	59	212	256	5,353	6	176	6	603	60	179	2	0	7	20,368
	Gerut-Gerut	761	1	0	0	129	0	44	15	205	0	1	0	0	0	1,156
	Jenahak	982	1	0	0	978	0	1	288	1,466	0	0	0	0	63	3,779
	Kaci	612	0	0	0	20	0	2	107	333	0	0	0	0	0	1,074
	Kerapu	2,630	0	0	1	669	1	102	821	4,829	0	0	0	0	71	9,124
	Kerisi	24,450	0	0	0	645	5	0	3,568	1,434	0	0	0	0	0	30,102
	Kerisi Bali	2,087	0	0	0	707	0	0	159	1,741	0	0	0	0	0	4,694
	Kikek	1,978	11	10	0	188	66	108	0	1	0	0	0	0	0	2,362
	Malong	2,777	0	0	4	330	0	4	3	3,725	1	0	0	0	0	6,844
	Merah	1,884	7	0	0	1,123	7	19	668	3,340	0	0	0	0	21	7,069
	Mengkerong/Conor/Ubi-Ubi	14475	0	0	0	2	0	0	10	3	0	0	0	0	0	14,490
	Remong/Kunyit-Kunyit/Tanda	1449	4	0	0	66	14	11	497	1169	0	0	0	0	0	3,210
	Semilang	197	0	0	2	516	0	74	168	297	6	187	0	0	0	1,447
	Shrumbu/Lemah	505	0	0	0	54	0	2	0	0	0	0	0	0	0	561
	Puntong Damar/Bulus	1465	0	0	2	421	0	0	11	33	0	2	0	0	0	1,934
	Pasir-Pasir/Timun-Timun	646	0	0	0	30	1	2	256	15	0	0	0	0	0	950
34	Alu-Alu/Kacang-Kacang	3,562	171	0	11	253	840	138	28	1,575	1	0	0	0	75	6,654
	Arvan Tasik	215	12	8	0	33	3	0	19	95	0	0	0	0	0	385
	Bawal	6,311	728	1	6	2,841	247	58	1	2	9	0	73	0	0	10,277

Samb. Dari Jadual 4.6
(Cont'd From Table 4.6)

	Belanak/Kedera	778	60	0	11	3,412	1	124	3	0	60	98	0	0	3	4,550
	Cermin/Sagai/Cupok	1,249	139	0	0	241	184	3	91	1,303	1	0	0	0	0	3,211
	Cincaru	7,338	3,967	0	38	945	542	0	7	767	0	0	13	0	45	13,662
	Demudok/Rambai	2,359	860	0	4	463	469	29	71	1,865	0	0	0	0	226	6,346
	Kurau/Senangin/Senohong	410	2	0	1	2,769	0	88	0	425	2	4	0	0	0	3,701
	Pelata/Selar	6,329	8,936	146	0	1,132	1,189	2	6	2,483	0	0	14	0	86	20,323
	Selar Kuning/Lolong	7,954	19,895	0	1	57	3,538	1	107	477	0	0	1	0	0	32,031
	Selayang/Curut	5,738	59,719	0	5	44	4,470	0	0	1,206	0	0	2	0	0	71,184
	Pisang-Pisang	37	1416	0	0	22	3	0	12	91	0	0	0	0	0	1,581
	Talang	435	65	0	2	1,405	784	105	0	70	0	0	6	0	0	2,872
35	Bilis/Bunga Air	417	189	19,177	13	1	3,872	69	0	0	0	0	0	0	34	23,772
	Parang-Parang	2,561	40	5	1	1,610	0	1	0	3	2	0	0	0	0	4,223
	Tamban	1,624	27,776	835	0	2,314	5,214	92	0	205	0	0	0	0	50	38,110
	Bulan-Bulan	78	358	0	0	5	0	62	0	11	0	0	0	0	0	514
36	Aya/Kayu/Tongkol	277	29,987	573	6,783	3,820	28	0	20	9,135	0	0	0	0	0	50,623
	Layaran/Mersuji	5	1	0	0	197	0	0	0	159	0	0	0	0	0	362
37	Kembong/Temenong/Pelaling	21,982	24,488	0	99	37,577	972	84	0	1,534	0	0	10	0	55	86,801
	Tenggiri	4,146	466	0	2	6,006	4	0	25	3,084	1	0	0	0	0	13,734
	Timah/Layor/Selayor	7,845	1,986	109	22	684	304	12	5	291	15	0	0	0	0	11,273
38	Pari	10,771	30	0	28	2,664	0	162	46	3,560	5	16	0	0	0	17,282
	Yu	3,867	2	6	0	1,983	0	13	11	1,597	2	2	0	0	0	7,483
39	Ilkan Baja	261,949	5,461	13	7,253	3,243	807	90	0	1	3,372	657	1,414	0	0	284,260
	Ilkan Compur	33863	2552	113	126	7235	88	385	556	1507	462	514	55	0	11	47,467
	Jebong	1779	0	0	1	29	0	0	112	20	0	0	0	0	0	1,941
42	Ketam	4,515	6	0	21	1,759	0	120	586	3	14	144	9	0	2,554	9,731
45	Udang Karang/Lobok	756	0	0	0	50	0	0	2	1	0	0	0	0	27	836
	Udang Putih	6,470	0	0	179	7,505	0	64	0	0	292	130	307	0	77	15,024
	Udang Minyak	6,528	0	0	2,772	368	0	2	1	0	1,380	0	482	0	0	11,533
	Udang Merah Ros	4,988	20	0	288	776	0	82	0	0	80	22	62	0	0	6,318
	Udang Kulit Keras	2,702	0	0	1,033	200	0	3	0	0	953	0	63	0	7	4,961
	Udang Hanimau	787	0	0	16	103	0	15	0	0	10	1	4	0	0	936
	Lain-Lain Jenis Udang	23,146	592	45	5,167	5,106	0	237	0	0	2,031	47	999	0	63	37,433
	Udang Baring	0	0	0	16	6	49	294	0	0	13,451	0	1,183	0	241	15,240
56	Siput/Kepah/Kupang/Tiram	428	0	0	0	0	0	0	0	0	1	0	0	0	142	25,500
57	Sotong Kereta	1,201	0	0	5	0	47	0	0	12	5	0	0	0	0	1,270
	Sotong Katak	19,323	0	0	44	355	292	0	322	18	148	0	89	0	0	20,591
	Sotong Biasa	33,260	905	0	9	94	1,657	122	85	2,346	13	0	0	0	0	38,491
76	Ubur-Ubur	979	0	0	0	489	0	0	0	0	3,183	814	40,337	0	8,009	53,811
	Jumlah Tan M/Total Tonnes	596,759	190,978	22,288	24,677	126,278	25,710	3,539	9,736	57,444	25,608	3,014	45,126	24,929	12,887	1,168,973

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.1

ISSCAAP GROUP NO.	Jenis Ikan Species	Pukat Tunda <i>Trawl Net</i>	Pukat-Pukat Tarik/ Seine Net		Lain Pukat Tarik <i>Other Seine</i>	Pukat Hanyut <i>Drift/Gill Net</i>	Pukat Tangguk <i>Lift Net</i>	Perangkap-perangkap Trap		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>Miscel- laneous</i>	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name		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	601	0	0	4	1,794	0	0	0	0	0	1	0	0	0	2,400
	Puput/B. Mata/Tirok	3,434	31	14	0	7,712	1	1	0	0	1	0	0	0	0	11,194
	Terubok	32	0	0	0	70	0	0	0	0	0	0	0	0	0	102
25	Siakap	25	0	0	1	42	0	1	9	9	0	8	1	0	0	96
31	Lidah	2,250	0	0	19	591	0	13	0	1	3	12	0	0	0	2,889
	Sebelah	789	0	0	4	19	0	0	2	2	1	2	0	0	0	819
33	Bayan	13	0	0	0	1	0	0	51	35	0	0	0	0	0	100
	Biji Nangka	5,414	2	0	0	17	0	0	93	2	0	0	0	0	0	5,528
	Dau Baharu	126	0	0	0	82	0	0	15	6	0	1	0	0	0	230
	Delah/Pinang-Pinang	48	21	0	0	25	2	0	155	45	0	0	0	0	0	296
	Duri/Pulutan/Utik	3,880	10	1,021	81	1,992	1	16	35	551	38	158	0	0	0	7,783
	Dengkis/Debam	231	1	0	0	19	0	0	406	45	0	0	0	0	0	702
	Gelama/Tengkerong/Selampai	8,940	59	212	256	4,695	6	52	6	132	51	163	2	0	0	14,574
	Gerut-Gerut	557	1	0	0	39	0	1	12	89	0	1	0	0	0	700
	Jenahak	379	1	0	0	11	0	1	76	132	0	0	0	0	0	600
	Kaci	525	0	0	0	3	0	0	98	67	0	0	0	0	0	693
	Kerapu	2,119	0	0	1	26	1	0	563	897	0	0	0	0	0	3,607
	Kerisi	18,413	0	0	0	564	5	0	3,563	1,011	0	0	0	0	0	23,556
	Kerisi Bali	1,755	0	0	0	15	0	0	152	352	0	0	0	0	0	2,274
	Kikek	911	11	10	0	59	3	41	0	0	0	0	0	0	0	1,035
	Malong	1,418	0	0	4	198	0	4	3	2,603	1	0	0	0	0	4,231
	Merah	1,132	7	0	0	13	4	0	303	729	0	0	0	0	0	2,188
	Mengkerong/Conor/Ubi-Ubi	12,007	0	0	0	2	0	0	10	3	0	0	0	0	0	12,022
	Remong/Kunyit-Kunyit/Tanda	1,322	4	0	0	26	14	0	386	121	0	0	0	0	0	1,873
	Semilang	158	0	0	2	113	0	0	60	117	3	184	0	0	0	637
	Shrumbu/Lemah	213	0	0	0	0	0	0	0	0	0	0	0	0	0	213
	Puntong Damar/Bulus	1,461	0	0	2	381	0	0	11	27	0	2	0	0	0	1,884
	Pasir-Pasir/Timun-Timun	625	0	0	0	16	1	0	254	15	0	0	0	0	0	911
34	Alu-Alu/Kacang-Kacang	1,639	42	0	6	143	0	5	28	122	1	0	0	0	0	1,986
	Aruan Tasik	215	12	8	0	33	3	0	18	95	0	0	0	0	0	384
	Bawal	5,276	582	1	6	1,287	8	17	1	0	9	0	0	0	0	7,187

Samb. Dari Jadual 4.6.1.
(Cont'd From Table 4.6.1.)

	Belanak/Kedera	771	60	0	11	1,594	0	26	0	0	60	83	0	0	0	2,605
	Cermin/Sagai/Cupak	866	139	0	0	133	1	0	77	560	1	0	0	0	0	1,777
	Cincaru	5,901	3,251	0	0	220	0	0	7	685	0	0	0	0	0	10,064
	Demudok/Rambai	930	191	0	2	29	0	1	58	135	0	0	0	0	0	1,346
	Kurau/Senangin/Senohong	335	2	0	1	896	0	8	0	23	0	3	0	0	0	1,268
	Pelata/Selar	3,636	8,194	146	0	682	82	0	6	2,423	0	0	0	0	0	15,169
	Selar Kuning/Lolong	7,049	19,695	0	0	31	3,445	1	107	68	0	0	0	0	0	30,396
	Selayang/Curut	3,099	53,975	0	0	23	392	0	0	1,206	0	0	0	0	0	58,695
	Pisang-Pisang	28	1,395	0	0	0	3	0	11	38	0	0	0	0	0	1,475
	Talang	229	48	0	2	188	0	3	0	38	0	0	0	0	0	508
35	Bilis/Bunga Air	262	156	19,177	1	0	693	0	0	0	0	0	0	0	0	20,289
	Parang-Parang	2,247	40	5	1	1,158	0	0	0	3	1	0	0	0	0	3,455
	Tamban	1,276	17,477	835	0	365	841	5	0	205	0	0	0	0	49	21,053
	Bulan-Bulan	5	342	0	0	1	0	0	0	11	0	0	0	0	0	359
36	Aya/Kayu/Tongkol	247	14,564	573	0	539	28	0	20	7,813	0	0	0	0	0	23,784
	Layaran/Mersuji	5	1	0	0	0	0	0	0	24	0	0	0	0	0	30
37	Kembong/Temenong/Pelaling	18,086	21,127	0	0	35,289	2	0	0	947	0	0	0	0	0	75,451
	Tenggiri	2,788	314	0	1	1,953	3	0	25	1,481	1	0	0	0	0	6,566
	Timah/Layor/Selayor	4,325	236	109	4	369	1	10	5	0	14	0	0	0	0	5,073
38	Pari	7,774	0	0	28	2,016	0	2	46	2,121	4	1	0	0	0	11,992
	Yu	1,685	2	6	0	378	0	8	11	435	0	0	0	0	0	2,525
39	Ikan Baja	229,530	5,198	13	7,253	3,195	0	3	0	1	2,896	657	1,414	0	0	250,160
	Ikan Campur	19,742	2,215	113	25	2,961	86	26	520	541	75	54	28	0	10	26,396
	Jebong	1,281	0	0	1	1	0	0	108	8	0	0	0	0	0	1,399
42	Kelam	3,023	6	0	21	1,372	0	0	266	3	14	140	9	0	818	5,672
45	Udang Karang/Lobok	423	0	0	0	38	0	0	2	1	0	0	0	0	7	471
	Udang Putih	3,207	0	0	167	4,230	0	33	0	0	255	59	307	0	27	8,285
	Udang Minyak	6,107	0	0	2,772	280	0	2	1	0	1,380	0	482	0	0	11,024
	Udang Merah Ros	4,260	20	0	288	762	0	82	0	0	49	22	62	0	0	5,545
	Udang Kulit Keras	1,781	0	0	1,033	200	0	3	0	0	125	0	63	0	0	3,205
	Udang Harimau	442	0	0	16	53	0	1	0	0	10	1	4	0	0	527
	Lain-Lain Jenis Udang	14,924	592	45	5,166	3,196	0	90	0	0	1,227	47	999	0	7	26,293
	Udang Baring	0	0	0	0	6	0	265	0	0	13,423	0	1,159	0	0	14,853
56	Siput/Kepah/Kupang/Tiram	13	0	0	0	0	0	0	0	0	1	0	0	24,698	0	24,712
57	Sotong Kereta	1,035	0	0	5	0	0	0	0	0	5	0	0	0	0	1,045
	Sotong Katak	16,724	0	0	44	304	0	0	322	18	148	0	89	0	0	17,649
	Sotong Biasa	27,149	802	0	0	89	648	5	85	1,897	13	0	0	0	0	30,688
76	Ubur-Ubur	889	0	0	0	471	0	0	0	0	1,716	0	0	0	0	3,076
	Jumlah Tan M/Total Tonnes	467,982	150,826	22,288	17,228	83,010	6,274	726	7,987	27,893	21,526	1,599	4,619	24,698	918	837,574

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST OF PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.2.

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</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>Miscel- laneous</i>	Jumlah (Tan) <i>Total (Tonnes)</i>
	Nama Tempatan <i>Local Name</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	600	0	0	4	1,794	0	0	0	0	0	1	0	0	0	2,399
	Puput/B. Mata/Tirok	3,424	31	0	0	7,624	0	0	0	0	1	0	0	0	0	11,080
	Terubok	32	0	0	0	70	0	0	0	0	0	0	0	0	0	102
25	Siakap	25	0	0	1	42	0	0	1	5	0	8	1	0	0	83
31	Lidah	2,098	0	0	19	579	0	13	0	0	3	12	0	0	0	2,724
	Sebelah	504	0	0	4	16	0	0	0	0	1	2	0	0	0	527
33	Bayan	2	0	0	0	0	0	0	15	0	0	0	0	0	0	17
	Biji Nangka	1,237	0	0	0	1	0	0	0	0	0	0	0	0	0	1,238
	Daun Baharu	19	0	0	0	79	0	0	4	0	0	1	0	0	0	103
	Delah/Pinang-Pinang	0	0	0	0	4	0	0	19	0	0	0	0	0	0	23
	Duri/Pulutan/Utik	2,342	0	0	81	1,788	0	9	19	360	38	158	0	0	0	4,795
	Dengkis/Debam	45	0	0	0	0	0	0	62	0	0	0	0	0	0	107
	Gelama/Tengkerong/Selampai	7,590	4	0	256	4,327	0	43	3	103	51	163	2	0	0	12,542
	Gerut-Gerut	455	0	0	0	30	0	0	9	82	0	1	0	0	0	577
	Jenahak	314	1	0	0	11	0	1	75	130	0	0	0	0	0	532
	Kaci	18	0	0	0	2	0	0	11	1	0	0	0	0	0	32
	Kerapu	1,498	0	0	1	23	0	0	79	134	0	0	0	0	0	1,735
	Kerisi	9,252	0	0	0	117	0	0	0	0	0	0	0	0	0	9,369
	Kerisi Bali	127	0	0	0	0	0	0	1	0	0	0	0	0	0	128
	Kikek	66	9	0	0	3	0	33	0	0	0	0	0	0	0	111
	Malong	1,253	0	0	4	193	0	4	1	2,595	1	0	0	0	0	4,051
	Merah	226	1	0	0	13	0	0	13	42	0	0	0	0	0	295
	Mengkerong/Conor/Ubi-Ubi	9,242	0	0	0	0	0	0	0	0	0	0	0	0	0	9,242
	Remong/Kunyit-Kunyit/Tanda	141	0	0	0	0	0	0	0	8	0	0	0	0	0	149
	Semilang	154	0	0	2	113	0	0	56	116	3	184	0	0	0	628
	Shrumbu/Lemah	211	0	0	0	0	0	0	0	0	0	0	0	0	0	211
	Puntong Damar/Bulus	1,113	0	0	2	163	0	0	0	26	0	2	0	0	0	1,306
	Pasir-Pasir/Timun-Timun	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	Alu-Alu/Kacang-Kacang	913	0	0	6	59	0	5	1	50	1	0	0	0	0	1,035
	Aruan Tasik	116	0	0	0	2	0	0	1	7	0	0	0	0	0	126
	Bawal	5,056	457	0	6	1,226	0	17	0	0	9	0	0	0	0	6,771

Samb. Dari Jadual 4.6.2.
(Cont'd From Table 4.6.2.)

	Belanak/Kedera	766	59	0	11	1,508	0	0	0	0	60	83	0	0	0	2,487
	Cermin/Sagai/Cupak	98	0	0	0	35	0	0	26	0	1	0	0	0	0	160
	Cincaru	5,205	2,695	0	0	126	0	0	0	0	0	0	0	0	0	8,026
	Demudok/Rambai	771	19	0	2	20	0	1	2	1	0	0	0	0	0	816
	Kurau/Senangin/Senohong	332	2	0	1	830	0	7	0	23	0	3	0	0	0	1,198
	Pelata/Selar	2,384	2,011	0	0	13	0	0	0	2	0	0	0	0	0	4,410
	Selar Kuning/Lolong	2,473	3,031	0	0	0	0	1	0	0	0	0	0	0	0	5,505
	Selayang/Curut	2,307	4,646	0	0	0	0	0	0	0	0	0	0	0	0	6,953
	Pisang-Pisang	3	94	0	0	0	0	0	0	0	0	0	0	0	0	97
	Talang	113	18	0	2	147	0	2	0	29	0	0	0	0	0	311
35	Bilis/Bunga Air	250	154	13,092	1	0	0	0	0	0	0	0	0	0	0	13,497
	Parang-Parang	1,617	1	0	1	662	0	0	0	0	1	0	0	0	0	2,282
	Tamban	1,266	3,390	0	0	142	0	0	0	1	0	0	0	0	49	4,848
	Bulan-Bulan	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
36	Aya/Kayu/Tongkol	230	5,902	0	0	290	0	0	0	1	0	0	0	0	0	6,423
	Layaran/Mersuji	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
37	Kembong/Temenong/Pelaling	17,385	16,310	0	0	32,891	0	0	0	0	0	0	0	0	0	66,586
	Tenggiri	2,182	243	0	1	1,655	0	0	0	34	0	0	0	0	0	4,115
	Timah/Layor/Selayor	3,448	19	0	4	108	0	10	0	0	14	0	0	0	0	3,603
38	Pari	3,533	0	0	28	1,049	0	2	8	1,534	4	1	0	0	0	6,159
	Yu	703	0	0	0	151	0	8	1	44	0	0	0	0	0	907
39	Ikan Baja	146,137	4,572	0	7,253	3,195	0	3	0	1	2,439	657	1,414	0	0	165,671
	Ikan Campur	10,510	714	0	25	2,423	0	23	30	45	31	54	28	0	10	13,893
	Jebong	539	0	0	1	1	0	0	4	1	0	0	0	0	0	546
42	Ketam	2,078	0	0	21	1,241	0	0	79	0	14	140	9	0	769	4,351
45	Udang Karang/Lobok	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
	Udang Putih	2,776	0	0	167	4,106	0	33	0	0	242	59	307	0	27	7,717
	Udang Minyak	5,776	0	0	2,772	279	0	0	0	0	1,321	0	482	0	0	10,630
	Udang Merah Ros	3,226	20	0	288	696	0	82	0	0	2	22	62	0	0	4,398
	Udang Kulit Keras	1,542	0	0	1,033	199	0	3	0	0	125	0	63	0	0	2,965
	Udang Harimau	312	0	0	16	48	0	0	0	0	6	1	4	0	0	387
	Lain-Lain Jenis Udang	13,081	592	0	5,166	3,194	0	79	0	0	1,203	47	999	0	7	24,368
	Udang Baring	0	0	0	0	6	0	265	0	0	12,862	0	1,159	0	0	14,292
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0	0	0	0	0	0	0	24,698	0	24,698
57	Sotong Kereta	916	0	0	5	0	0	0	0	0	4	0	0	0	0	925
	Sotong Katak	8,344	0	0	44	295	0	0	24	0	148	0	89	0	0	8,944
	Sotong Biasa	17,987	65	0	0	24	0	5	28	0	13	0	0	0	0	18,122
76	Ubur-Ubur	889	0	0	0	471	0	0	0	0	1,716	0	0	0	0	3,076
										0						
	Jumlah Tan M/Total Tonnes	307,277	45,060	13,092	17,228	74,084	0	649	572	5,375	20,314	1,599	4,619	24,698	862	515,429

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.3.

ISSCAAP GROUP NO.	Jenis Ikan Species	Pukat Tunda <i>Trawl Net</i>	Pukat-Pukat Tarik/ Seine Net		Lain Pukat Tarik <i>Other Seine</i>	Pukat Hanyut <i>Drift/Gill Net</i>	Pukat Tangguk <i>Lift Net</i>	Perangkap-perangkap Trap		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>Miscel- laneous</i>	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name		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	0	0	0	0	0	0	0	0	0	0	1
	Puput/B. Mata/Tirok	10	0	14	0	88	1	1	0	0	0	0	0	0	0	114
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Siakap	0	0	0	0	0	0	1	8	4	0	0	0	0	0	13
31	Lidah	152	0	0	0	12	0	0	0	1	0	0	0	0	0	165
	Sebelah	285	0	0	0	3	0	0	2	2	0	0	0	0	0	292
33	Bayan	11	0	0	0	1	0	0	36	35	0	0	0	0	0	83
	Biji Nangka	4,177	2	0	0	16	0	0	93	2	0	0	0	0	0	4,290
	Dauu Baharu	107	0	0	0	3	0	0	11	6	0	0	0	0	0	127
	Delah/Pinang-Pinang	48	21	0	0	21	2	0	136	45	0	0	0	0	0	273
	Duri/Pulutan/Ulik	1,538	10	1,021	0	204	1	7	16	191	0	0	0	0	0	2,988
	Dengkis/Debam	186	1	0	0	19	0	0	344	45	0	0	0	0	0	595
	Gelama/Tengkerong/Selampai	1,350	55	212	0	368	6	9	3	29	0	0	0	0	0	2,032
	Gerut-Gerut	102	1	0	0	9	0	1	3	7	0	0	0	0	0	123
	Jenahak	65	0	0	0	0	0	0	1	2	0	0	0	0	0	68
	Kaci	507	0	0	0	1	0	0	87	66	0	0	0	0	0	661
	Kerapu	621	0	0	0	3	1	0	484	763	0	0	0	0	0	1,872
	Kerisi	9,161	0	0	0	447	5	0	3,563	1,011	0	0	0	0	0	14,187
	Kerisi Bali	1,628	0	0	0	15	0	0	151	352	0	0	0	0	0	2,146
	Kikek	845	2	10	0	56	3	8	0	0	0	0	0	0	0	924
	Malong	165	0	0	0	5	0	0	2	8	0	0	0	0	0	180
	Merah	906	6	0	0	0	4	0	290	687	0	0	0	0	0	1,893
	Mengkerong/Conor/Ubi-Ubi	2,765	0	0	0	2	0	0	10	3	0	0	0	0	0	2,780
	Remong/Kunyit-Kunyit/Tanda	1,181	4	0	0	26	14	0	386	113	0	0	0	0	0	1,724
	Semilang	4	0	0	0	0	0	0	4	1	0	0	0	0	0	9
	Shrumbu/Lemah	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Puntong Damar/Bulus	348	0	0	0	218	0	0	11	1	0	0	0	0	0	578
	Pasir-Pasir/Timun-Timun	624	0	0	0	16	1	0	254	15	0	0	0	0	0	910
34	Alu-Alu/Kacang-Kacang	726	42	0	0	84	0	0	27	72	0	0	0	0	0	951
	Aruan Tasik	99	12	8	0	31	3	0	17	88	0	0	0	0	0	258
	Bawal	220	125	1	0	61	8	0	1	0	0	0	0	0	0	416

Samb. Dari Jadual 4.6.3.
(Cont'd From Table 4.6.3.)

	Belanak/Kedera	5	1	0	0	86	0	26	0	0	0	0	0	0	0	118
	Cermin/Sagai/Cupak	768	139	0	0	98	1	0	51	560	0	0	0	0	0	1,617
	Cincaru	696	556	0	0	94	0	0	7	685	0	0	0	0	0	2,038
	Demudok/Rambai	159	172	0	0	9	0	0	56	134	0	0	0	0	0	530
	Kurau/Senangin/Senohong	3	0	0	0	66	0	1	0	0	0	0	0	0	0	70
	Pelata/Selar	1,252	6,183	146	0	669	82	0	6	2,421	0	0	0	0	0	10,759
	Selar Kuning/Lolong	4,576	16,664	0	0	31	3,445	0	107	68	0	0	0	0	0	24,891
	Selayang/Curut	792	49,329	0	0	23	392	0	0	1,206	0	0	0	0	0	51,742
	Pisang-Pisang	25	1,301	0	0	0	3	0	11	38	0	0	0	0	0	1,378
	Talang	116	30	0	0	41	0	1	0	9	0	0	0	0	0	197
35	Bilis/Bunga Air	12	2	6,085	0	0	693	0	0	0	0	0	0	0	0	6,792
	Parang-Parang	630	39	5	0	496	0	0	0	3	0	0	0	0	0	1,173
	Tamban	10	14,087	835	0	223	841	5	0	204	0	0	0	0	0	16,205
	Bulan-Bulan	1	342	0	0	1	0	0	0	11	0	0	0	0	0	355
36	Aya/Kayu/Tongkol	17	8,662	573	0	249	28	0	20	7,812	0	0	0	0	0	17,361
	Layaran/Mersuji	0	1	0	0	0	0	0	0	24	0	0	0	0	0	25
37	Kembong/Temenong/Pelaling	701	4,817	0	0	2,398	2	0	0	947	0	0	0	0	0	8,865
	Tenggiri	606	71	0	0	298	3	0	25	1,447	1	0	0	0	0	2,451
	Timah/Layor/Selayor	877	217	109	0	261	1	0	5	0	0	0	0	0	0	1,470
38	Pari	4,241	0	0	0	967	0	0	38	587	0	0	0	0	0	5,833
	Yu	982	2	6	0	227	0	0	10	391	0	0	0	0	0	1,618
39	Ikan Baja	83,393	626	13	0	0	0	0	0	0	457	0	0	0	0	84,489
	Ikan Campur	9,232	1,501	113	0	538	86	3	490	496	44	0	0	0	0	12,503
	Jebong	742	0	0	0	0	0	0	104	7	0	0	0	0	0	853
42	Ketam	945	6	0	0	131	0	0	187	3	0	0	0	0	49	1,321
45	Udang Karang/Lobok	408	0	0	0	38	0	0	2	1	0	0	0	0	7	456
	Udang Putih	431	0	0	0	124	0	0	0	0	13	0	0	0	0	568
	Udang Minyak	331	0	0	0	1	0	2	1	0	59	0	0	0	0	394
	Udang Merah Ros	1,034	0	0	0	66	0	0	0	0	47	0	0	0	0	1,147
	Udang Kulit Keras	239	0	0	0	1	0	0	0	0	0	0	0	0	0	240
	Udang Harimau	130	0	0	0	5	0	1	0	0	4	0	0	0	0	140
	Lain-Lain Jenis Udang	1,843	0	45	0	2	0	11	0	0	24	0	0	0	0	1,925
	Udang Baring	0	0	0	0	0	0	0	0	0	561	0	0	0	0	561
56	Siput/Kepah/Kupang/Tiram	13	0	0	0	0	0	0	0	0	1	0	0	0	0	14
57	Sotong Kereta	119	0	0	0	0	0	0	0	0	1	0	0	0	0	120
	Sotong Katak	8,380	0	0	0	9	0	0	298	18	0	0	0	0	0	8,705
	Sotong Biasa	9,162	737	0	0	65	648	0	57	1,897	0	0	0	0	0	12,566
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	160,705	105,766	9,196	0	8,926	6,274	77	7,415	22,518	1,212	0	0	0	56	322,145

SARAWAK
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL(TABLE) 4.6.4

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</i>	Pukat Tunda <i>Trawl Net</i>	Pukat-Pukat Tarik/ <i>Seine Net</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>Miscel- laneous</i>	Jumlah (Tan M) <i>Total (Tonnes)</i>
	Nama Tempatan <i>Local Name</i>		Pukat Jerut Ikan <i>Purse Seine- Fish</i>	Pukat Jerut Bilis <i>Purse Seine- Anchovy</i>	Lain Pukat Tarik <i>Other Seine</i>			Belat- Belat <i>Stationary</i>	Bubu <i>Portable</i>							
24	Kebasi/Selangat	7	0	0	0	292		5	0	4	0	0	0	0	0	308
	Puput/B. Mata/Tirok	642	0	0	0	583		7	0	7	0	0	0	0	0	1,239
	Terubok	4	0	0	0	565		1	0	4	0	0	0	0	0	574
25	Siakap	1	0	0	0	7		2	0	1	0	0	0	0	0	11
31	Lidah	97	0	0	0	6		0	0	0	0	0	0	0	0	103
	Sebelah	118	0	0	0	25		0	0	0	0	0	0	0	0	143
33	Bayan	6	0	0	0	0		0	0	0	0	0	0	0	0	6
	Biji Nangka	4,317	0	0	0	17		0	0	0	0	0	0	0	0	4,334
	Dauv Baharu	77	0	0	0	25		0	0	2	0	0	0	0	0	104
	Delah/Pinang-Pinang	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Duri/Pulutan/Utik	1,302	0	0	0	1,015		42	0	279	5	12	0	0	0	2,655
	Dengkis/Debam	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Gelama/Tengkerong/Selampai	2,482	0	0	0	409		10	0	0	9	14	0	0	0	2,924
	Gerut-Gerut	6	0	0	0	13		0	0	1	0	0	0	0	0	20
	Jenahak	104	0	0	0	10		0	0	39	0	0	0	0	0	153
	Kaci	17	0	0	0	0		0	0	11	0	0	0	0	0	28
	Kerapu	205	0	0	0	14		0	0	226	0	0	0	0	0	445
	Kerisi	620	0	0	0	36		0	0	53	0	0	0	0	0	709
	Kerisi Bali	26	0	0	0	0		0	0	163	0	0	0	0	0	189
	Kikek	53	0	0	0	11		0	0	0	0	0	0	0	0	64
	Malong	705	0	0	0	132		0	0	804	0	0	0	0	0	1,641
	Merah	541	0	0	0	29		3	0	591	0	0	0	0	0	1,164
	Mengkerong/Ubi/Conor	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Remong/Kunyit/Tanda	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Semilang	0	0	0	0	0		17	0	2	3	3	0	0	0	25
	Shrumbu/Lemah	268	0	0	0	33		0	0	0	0	0	0	0	0	301
	Puntung Damar/ Bulus	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Pasir/Timun	0	0	0	0	0		0	0	0	0	0	0	0	0	0
34	Alu-Alu/Kacang-Kacang	8	0	0	0	6		1	0	1	0	0	0	0	0	16
	Aruan Tasik	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Bawal	584	76	0	0	644		0	0	0	0	0	73	0	0	1,377

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

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	Belanak/Kedera	0	0	0	0	18		2	0	0	0	10	0	0	0	30
	Cermin/Sagai/Cupak	132	0	0	0	1		0	0	1	0	0	0	0	0	134
	Cincaru	949	84	0	0	406		0	0	0	0	0	13	0	0	1,452
	Demudok/Rambai	196	0	0	0	44		3	0	0	0	0	0	0	0	243
	Kurau/Senangin/Senohong	44	0	0	0	392		1	0	0	2	1	0	0	0	440
	Pelata/Selar	289	159	0	0	344		0	0	0	0	0	14	0	0	806
	Selar Kuning/Lolong	335	143	0	0	15		0	0	0	0	0	1	0	0	494
	Selayang/Curut	12	60	0	0	0		0	0	0	0	0	2	0	0	74
	Pisang-Pisang	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Talang	70	1	0	0	314		0	0	1	0	0	6	0	0	392
35	Bilis/Bunga Air	11	0	0	0	0		0	0	0	0	0	0	0	0	11
	Parang-Parang	243	0	0	0	417		1	0	0	1	0	0	0	0	662
	Tamban	158	322	0	0	1,529		0	0	0	0	0	0	0	0	2,009
	Bulan	0	0	0	0	1		0	0	0	0	0	0	0	0	1
36	Aya/Kayu/Tongkol	5	137	0	0	919		0	0	295	0	0	0	0	0	1,356
	Layaran/Mersuji	0	0	0	0	0		0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	585	126	0	0	1,909		0	0	0	0	0	10	0	0	2,630
	Tenggiri	824	41	0	0	1,153		0	0	112	0	0	0	0	0	2,130
	Timah/Layor/Selayor	1,073	0	0	0	257		0	0	0	1	0	0	0	0	1,331
38	Pari	1,474	0	0	0	377		46	0	38	1	15	0	0	0	1,951
	Yu	1,016	0	0	0	615		5	0	11	2	2	0	0	0	1,651
39	Ikan Baja	14,146	1	0	0	48		87	0	0	476	0	0	0	0	14,758
	Ikan Campur	8756	142	0	0	3736		275	0	150	387	448	27	0	0	13,921
	Jebong	0	0	0	0	0		0	0	0	0	0	0	0	0	0
42	Ketam	157	0	0	0	176		7	203	0	0	2	0	0	0	545
45	Udang Karang/Lobok	5	0	0	0	0		0	0	0	0	0	0	0	0	5
	Udang Putih	874	0	0	0	1,543		31	0	0	37	0	0	0	8	2,493
	Udang Minyak	16	0	0	0	0		0	0	0	0	0	0	0	0	16
	Udang Merah Ros	355	0	0	0	0		0	0	0	31	0	0	0	0	386
	Udang Kulit Keras	692	0	0	0	0		0	0	0	828	0	0	0	0	1,520
	Udang Harimau	4	0	0	0	0		0	0	0	0	0	0	0	0	4
	Lain-Lain Jenis Udang	4,133	0	0	0	1,588		48	0	0	804	0	0	0	0	6,573
	Udang Baring	0	0	0	0	0		29	0	0	28	0	0	0	0	57
56	Siput/Kepah/Kupang/Tiram	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
	Sotong Katak	234	0	0	0	0		0	0	0	0	0	0	0	0	234
	Sotong Biasa	1,686	0	0	0	0		0	0	0	0	0	0	0	0	1,686
76	Ubur-Ubur	66	0	0	0	18		0	0	0	1,467	814	40,337	0	6,963	49,665
	Jumlah Tan M/Total Tonnes	50,730	1,292	0	0	19,692	0	623	203	2,796	4,082	1,321	40,483	0	6,971	128,193

SABAH
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.5

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</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>Miscel- laneous</i>	Jumlah (Tan) <i>Total (Tonnes)</i>
	Nama Tempatan <i>Local Name</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	227	0	0	0	244	0	79	5	0	0	0	0	0	0	555
	Puput/B. Mata/Tirok	856	0	0	0	19	0	0	0	0	0	0	0	0	0	875
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Siakap	0	0	0	0	386	0	31	76	272	0	2	0	0	0	767
31	Lidah	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
33	Sebelah	975	0	0	0	22	0	93	0	0	0	0	0	0	0	1,090
	Bayan	280	0	0	262	104	0	9	35	1,415	0	0	0	0	91	2,196
	Biji Nangka	328	0	0	0	0	0	0	5	0	0	0	0	0	0	333
	Dau Baharu	67	0	0	0	33	0	0	0	0	0	0	0	0	24	124
	Delah/Pinang-Pinang	3	0	0	0	9	0	0	3	455	0	0	0	0	873	1,343
	Duri/Pulutan/Utik	726	1	0	0	1,080	0	165	0	1,017	0	0	0	0	0	2,989
	Dengkis/Debam	62	0	0	84	121	2	59	137	1	0	0	0	0	32	498
	Gelama/Tengkerong/Selampai	1,863	0	0	0	249	0	114	0	471	0	2	0	0	7	2,706
	Gerut-Gerut	164	0	0	0	55	0	41	0	25	0	0	0	0	0	285
	Jenahak	447	0	0	0	957	0	0	205	1,159	0	0	0	0	63	2,831
	Kaci	29	0	0	0	9	0	0	5	50	0	0	0	0	0	93
	Kerapu	165	0	0	0	599	0	100	249	3,333	0	0	0	0	71	4,517
	Kerisi	4,947	0	0	0	44	0	0	5	315	0	0	0	0	0	5,311
	Kerisi Bali	220	0	0	0	692	0	0	7	819	0	0	0	0	0	1,738
	Kikek	936	0	0	0	81	63	63	0	1	0	0	0	0	0	1,144
	Malong	633	0	0	0	0	0	0	0	318	0	0	0	0	0	951
	Merah	36	0	0	0	1,078	3	16	357	1,616	0	0	0	0	21	3,127
	Mengkerong/Conor/Ubi-Ubi	2,468	0	0	0	0	0	0	0	0	0	0	0	0	0	2,468
	Remong/Kunyit-Kunyit/Tanda	7	0	0	0	14	0	10	108	901	0	0	0	0	0	1,040
	Semilang	39	0	0	0	403	0	57	108	178	0	0	0	0	0	785
	Shrumbu/Lemah	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
	Puntong Damar/Bulus	1	0	0	0	40	0	0	0	6	0	0	0	0	0	47
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alu-Alu/Kacang-Kacang	1,842	78	0	5	67	828	129	0	1,452	0	0	0	0	75	4,476
34	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	340	0	0	0	909	139	41	0	2	0	0	0	0	0	1,431

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

122		Belanak/Kedera	7	0	0	0	1,780	1	94	0	0	0	5	0	0	3	1,890
		Cermin/Sagai/Cupak	3	0	0	0	36	183	0	6	374	0	0	0	0	0	602
		Cincaru	411	327	0	38	181	542	0	0	82	0	0	0	0	45	1,626
		Demudok/Rambai	1,125	669	0	2	372	469	21	13	1,724	0	0	0	0	226	4,621
		Kurau/Senangin/Senohong	2	0	0	0	1,480	0	78	0	402	0	0	0	0	0	1,962
		Pelata/Selar	2,162	444	0	0	87	1,079	0	0	60	0	0	0	0	86	3,918
		Selar Kuning/Lolong	366	21	0	1	11	66	0	0	409	0	0	0	0	0	874
		Selayang/Curut	2,326	5,474	0	5	21	4,040	0	0	0	0	0	0	0	0	11,866
		Pisang-Pisang	5	21	0	0	22	0	0	1	53	0	0	0	0	0	102
		Talang	136	16	0	0	860	784	102	0	31	0	0	0	0	0	1,929
	35	Bilis/Bunga Air	144	33	0	1	1	3,179	69	0	0	0	0	0	0	34	3,461
		Parang-Parang	49	0	0	0	13	0	0	0	0	0	0	0	0	0	62
		Tamban	190	9,675	0	0	417	4,317	87	0	0	0	0	0	0	1	14,687
		Bulan-Bulan	73	16	0	0	3	0	62	0	0	0	0	0	0	0	154
	36	Aya/Kayu/Tongkol	0	3,958	0	6,783	2,239	0	0	0	1,027	0	0	0	0	0	14,007
		Layaran/Mersuji	0	0	0	0	177	0	0	0	135	0	0	0	0	0	312
	37	Kembong/Temenong/Pelaling	3,070	2,451	0	99	138	915	84	0	390	0	0	0	0	55	7,202
		Tenggiri	431	63	0	1	2,820	1	0	0	1,291	0	0	0	0	0	4,607
		Timah/Layor/Selayor	2,436	1,750	0	18	51	303	2	0	291	0	0	0	0	0	4,851
	38	Pari	1,367	30	0	0	268	0	113	0	1,401	0	0	0	0	0	3,179
		Yu	990	0	0	0	962	0	0	0	1,121	0	0	0	0	0	3,073
	39	Ikan Baja	14,822	9	0	0	0	807	0	0	0	0	0	0	0	0	15,638
		Ikan Campur	4,002	21	0	101	447	0	78	12	613	0	12	0	0	1	5,287
		Jebong	397	0	0	0	12	0	0	2	12	0	0	0	0	0	423
	42	Ketam	1,264	0	0	0	208	0	112	117	0	0	2	0	0	1,736	3,439
	45	Udang Karang/Lobok	231	0	0	0	12	0	0	0	0	0	0	0	0	20	263
		Udang Pufih	2,169	0	0	12	1,732	0	0	0	0	0	71	0	0	42	4,026
		Udang Minyak	405	0	0	0	88	0	0	0	0	0	0	0	0	0	493
		Udang Merah Ros	373	0	0	0	14	0	0	0	0	0	0	0	0	0	387
		Udang Kulit Keras	229	0	0	0	0	0	0	0	0	0	0	0	0	7	236
		Udang Harimau	238	0	0	0	50	0	14	0	0	0	0	0	0	0	302
		Lain-Lain Jenis Udang	3,817	0	0	1	322	0	99	0	0	0	0	0	0	56	4,295
		Udang Baring	0	0	0	0	0	49	0	0	0	0	0	0	0	241	290
	56	Siput/Kepah/Kupang/Tiram	415	0	0	0	0	0	0	0	0	0	0	0	231	142	788
	57	Sotong Kereta	166	0	0	0	0	47	0	0	12	0	0	0	0	0	225
		Sotong Katak	2,154	0	0	0	51	292	0	0	0	0	0	0	0	0	2,497
		Sotong Biasa	4,230	58	0	9	5	1,009	117	0	449	0	0	0	0	0	5,877
	76	Ubur-Ubur	24	0	0	0	0	0	0	0	0	0	0	0	0	1,046	1,070
		Jumlah Tan M/Total Tonnes	67,903	25,115	0	7,422	22,106	19,118	2,139	1,456	23,683	0	94	0	231	4,998	174,265

Samb. Dari Jadual 4.6.6.
(Cont. From Table 4.6.6.)

	Belanak/Kedera	0	0	0	0	20	0	2	3	0	0	0	0	0	25
	Cermin/Sagai/Cupak	248	0	0	0	71	0	3	8	368	0	0	0	0	698
	Cincaru	77	305	0	0	138	0	0	0	0	0	0	0	0	520
	Demudok/Rambai	108	0	0	0	18	0	4	0	6	0	0	0	0	136
	Kurau/Senangin/Senohong	29	0	0	0	1	0	1	0	0	0	0	0	0	31
	Pelata/Selar	242	139	0	0	19	28	2	0	0	0	0	0	0	430
	Selar Kuning/Lolong	204	36	0	0	0	27	0	0	0	0	0	0	0	267
	Selayang/Curut	301	210	0	0	0	38	0	0	0	0	0	0	0	549
	Pisang-Pisang	4	0	0	0	0	0	0	0	0	0	0	0	0	4
	Talang	0	0	0	0	43	0	0	0	0	0	0	0	0	43
35	Bitis/Bunga Air	0	0	0	11	0	0	0	0	0	0	0	0	0	11
	Parang-Parang	22	0	0	0	22	0	0	0	0	0	0	0	0	44
	Tamban	0	302	0	0	3	56	0	0	0	0	0	0	0	361
	Bulan-Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	25	11,328	0	0	123	0	0	0	0	0	0	0	0	11,476
	Layaran/Mersuji	0	0	0	0	20	0	0	0	0	0	0	0	0	20
37	Kembong/Temenong/Pelaling	241	784	0	0	241	55	0	0	197	0	0	0	0	1,518
	Tenggiri	103	48	0	0	80	0	0	0	200	0	0	0	0	431
	Timah/Layor/Selayor	11	0	0	0	7	0	0	0	0	0	0	0	0	18
38	Pari	156	0	0	0	3	0	1	0	0	0	0	0	0	160
	Yu	176	0	0	0	28	0	0	0	30	0	0	0	0	234
39	Ikan Baja	3,451	253	0	0	0	0	0	0	0	0	0	0	0	3,704
	Ikan Campur	1,363	174	0	0	91	2	6	24	203	0	0	0	0	1,863
	Jebong	101	0	0	0	16	0	0	2	0	0	0	0	0	119
42	Ketam	71	0	0	0	3	0	1	0	0	0	0	0	0	75
45	Udang Karang/Lobok	97	0	0	0	0	0	0	0	0	0	0	0	0	97
	Udang Putih	220	0	0	0	0	0	0	0	0	0	0	0	0	220
	Udang Minyak	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
	Udang Kulit Keras	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Harimau	103	0	0	0	0	0	0	0	0	0	0	0	0	103
	Lain-Lain Jenis Udang	272	0	0	0	0	0	0	0	0	0	0	0	0	272
	Udang Baring	0	0	0	16	0	0	0	0	0	0	24	0	0	40
56	Siput/Kepah/Kupang/Tiram	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
	Sotong Katak	211	0	0	0	0	0	0	0	0	0	0	0	0	211
	Sotong Biasa	195	45	0	0	0	0	0	0	0	0	0	0	0	240
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	10,144	13,745	0	27	1,470	318	51	90	3,072	0	0	24	0	28,941

JADUAL (TABLE) 4.7

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1997
FISHING EFFORT AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1997

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	58,772	10,310	27,640	10,609	7,841	2,372
	Cumulative no. of trips	856,255	181,028	512,005	113,987	43,067	6,168
	Cumulative no. of days	1,132,108	181,915	538,380	209,518	156,938	45,357
	Cumulative no. of hauls	3,576,244	475,815	1,634,780	732,817	586,846	145,986
24	Kebasi/Selangat	601	5	227	251	117	1
	Puput/B. Mata/Tirok	3,434	10	817	1,000	1,407	200
	Terubok	32	0	31	1	0	0
25	Siakap	25	1	15	7	2	0
31	Lidah	2,250	123	995	812	273	47
	Sebelah	789	9	83	255	366	76
33	Bayan	13	0	5	3	4	1
	Biji Nangka	5,414	10	1,565	1,111	1,978	750
	Daun Baharu	126	1	46	31	29	19
	Delah/Pinang-Pinang	48	1	20	7	12	8
	Duri/Pulutan/Utik	3,880	50	925	1,568	1,007	330
	Dengkis/Debam	231	3	45	40	106	37
	Gelama/Tengkerong/Selampai	8,940	233	3,303	3,325	1,842	237
	Gerut-Gerut	557	2	67	271	194	23
	Jenahak	379	1	46	65	216	51
	Kaci	525	0	12	49	260	204
	Kerapu	2,119	11	154	858	812	284
	Kerisi	18,413	117	3,709	4,626	6,522	3,439
	Kerisi Bali	1,755	2	298	247	517	691
	Kikek	911	14	480	292	118	7
	Malong	1,418	32	462	489	371	64
	Merah	1,132	4	97	135	467	429
	Mengkerong/Conor/Ubi-Ubi	12,007	47	707	1,224	7,316	2,713
	Remong/Kunyit-Kunyit/Tanda	1,322	8	184	284	577	269
	Semilang	158	3	76	30	30	19
	Shrumbu/Lemah	213	0	1	0	149	63
	Puntong Damar/Bulus	1,461	21	202	277	795	166
	Pasir-Pasir/Timun-Timun	625	22	293	165	114	31
34	Alu-Alu/Kacang-Kacang	1,639	12	199	555	709	164
	Aruan Tasik	215	1	36	30	112	36
	Bawal	5,276	189	1,103	2,211	1,655	118

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

	Belanak/Kedera	771	22	579	158	12	0
	Cermin/Sagai/Cupak	866	5	116	215	326	204
	Cencaru	5,901	8	449	1,481	3,507	456
	Demudok/Rambai	930	0	15	361	468	86
	Kurau/Senangin/Senohong	335	4	168	105	54	4
	Pelata/Selar	3,636	8	242	1,040	1,870	476
	Selar Kuning/Lolong	7,049	57	1,034	1,690	3,244	1,024
	Selayang/Curut	3,099	0	4	211	2,461	423
	Pisang-Pisang	28	1	4	0	2	21
	Talang	229	1	45	93	88	2
35	Billis/Bunga Air	262	4	198	53	5	2
	Parang-Parang	2,247	30	562	908	655	92
	Tamban	1,276	10	164	573	513	16
	Bulan-Bulan	5	0	0	2	3	0
36	Aya/Kayu/Tongkol	247	0	0	34	197	16
	Layaran/Mersuji	5	0	5	0	0	0
37	Kembong/Temenong/Pelaling	18,086	172	2,187	7,237	7,707	783
	Tenggiri	2,788	10	367	1,201	1,012	198
	Timah/Layor/Selayor	4,325	32	1,339	1,505	1,239	210
38	Pari	7,774	305	1,884	2,148	2,579	858
	Yu	1,685	39	344	542	527	233
39	Ikan Baja	229,530	11,071	55,458	68,767	68,688	25,546
	Ikan Campur	19,742	529	3,553	3,433	7,673	4,554
	Jebong	1,281	0	63	354	599	265
42	Ketam	3,023	365	930	990	626	112
45	Udang Karang/Lobok	423	12	88	123	135	65
	Udang Putih	3,207	168	2,025	826	178	10
	Udang Minyak	6,107	935	4,690	470	11	1
	Udang Merah Ros	4,260	1,760	2,294	134	72	0
	Udang Kulit Keras	1,781	347	1,397	28	7	2
	Udang Harimau	442	25	117	188	101	11
	Lain-Lain Jenis Udang	14,924	1,935	8,399	3,266	1,253	71
	Udang Baring	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	13	0	0	3	10	0
57	Sotong Kereta	1,035	141	272	387	222	13
	Sotong Katak	16,724	544	4,457	5,019	4,962	1,742
	Sotong Biasa	27,149	317	5,504	8,263	10,118	2,947
76	Ubur-Ubur	889	13	830	46	0	0
	Jumlah Tan M./Total Tonnes	467,982	19,802	115,986	132,073	149,201	50,920

JADUAL (TABLE) 4.7.1.

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST OF PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1997
FISHING EFFORT AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1997

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	44,819	7,923	22,551	7,859	5,559	927
	Cumulative no. of trips	733,491	141,491	451,879	100,579	36,789	2,753
	Cumulative no. of days	902,656	141,541	464,877	160,067	117,623	18,548
	Cumulative no. of hauls	2,744,513	353,969	1,344,822	538,626	448,220	58,876
24	Kebasi/Selangat	600	5	227	250	117	1
	Puput/B. Mata/Tirok	3,424	10	808	999	1,407	200
	Terubok	32	0	31	1	0	0
25	Siakap	25	1	15	7	2	0
31	Lidah	2,098	105	920	772	257	44
	Sebelah	504	2	15	164	285	38
33	Bayan	2	0	0	0	2	0
	Biji Nangka	1,237	2	33	182	830	190
	Daun Baharu	19	0	11	2	5	1
	Delah/Pinang-Pinang	0	0	0	0	0	0
	Duri/Pulutan/Utik	2,342	13	453	1,178	610	88
	Dengkis/Debam	45	0	0	1	39	5
	Gelama/Tengkerong/Selampai	7,590	175	2,823	2,824	1,565	203
	Gerut-Gerut	455	1	35	231	174	14
	Jenahak	314	1	42	58	188	25
	Kaci	18	0	0	0	16	2
	Kerapu	1,498	7	54	716	606	115
	Kerisi	9,252	94	773	2,348	4,443	1,594
	Kerisi Bali	127	1	4	4	76	42
	Kikek	66	0	27	35	3	1
	Malong	1,253	24	415	457	322	35
	Merah	226	2	17	22	136	49
	Mengkerong/Conor/Ubi-Ubi	9,242	45	443	766	6,056	1,932
	Remong/Kunyit-Kunyit/Tanda	141	0	1	28	101	11
	Semilang	154	3	75	30	29	17
	Shrumbu/Lemah	211	0	0	0	148	63
	Puntong Damar/Bulus	1,113	4	80	145	742	142
	Pasir-Pasir/Timun-Timun	1	0	0	1	0	0
34	Alu-Alu/Kacang-Kacang	913	5	67	356	438	47
	Aruan Tasik	116	1	30	5	66	15
	Bawal	5,056	169	1,031	2,155	1,609	91

Samb. Dari Jadual 4.7.1.
(Cont'd From Table 4.7.1.)

	Belanak/Kedera	766	22	575	157	12	0
	Cermin/Sagai/Cupak	98	0	28	9	57	4
	Cencaru	5,205	8	435	1,288	3,147	327
	Demudok/Rambai	771	0	9	333	383	46
	Kurau/Senangin/Senohong	332	4	166	105	53	4
	Pelata/Selar	2,384	1	192	719	1,320	152
	Selar Kuning/Lolong	2,473	0	169	372	1,652	280
	Selayang/Curut	2,307	0	1	117	2,069	120
	Pisang-Pisang	3	0	3	0	0	0
	Talang	113	0	36	51	25	1
35	Billis/Bunga Air	250	4	198	47	1	0
	Parang-Parang	1,617	8	419	660	496	34
	Tamban	1,266	8	160	572	511	15
	Bulan-Bulan	4	0	0	1	3	0
36	Aya/Kayu/Tongkol	230	0	0	32	186	12
	Layaran/Mersuji	5	0	5	0	0	0
37	Kembong/Temenong/Pelaling	17,385	165	2,161	6,989	7,405	665
	Tenggiri	2,182	2	321	993	785	81
	Timah/Layor/Selayor	3,448	16	965	1,281	1,045	141
38	Pari	3,533	108	459	745	1,709	512
	Yu	703	8	147	249	239	60
39	Ikan Baja	146,137	6,998	40,655	43,456	44,529	10,499
	Ikan Campur	10,510	447	1,774	1,759	4,688	1,842
	Jebong	539	0	4	296	226	13
42	Ketam	2,078	230	623	705	462	58
45	Udang Karang/Lobok	15	0	1	6	6	2
	Udang Putih	2,776	102	1,935	621	108	10
	Udang Minyak	5,776	821	4,508	442	5	0
	Udang Merah Ros	3,226	1,441	1,664	70	51	0
	Udang Kulit Keras	1,542	300	1,227	12	1	2
	Udang Harimau	312	12	74	141	74	11
	Lain-Lain Jenis Udang	13,081	1,773	7,702	2,615	929	62
	Udang Baring	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0
57	Sotong Kereta	916	129	226	354	196	11
	Sotong Katak	8,344	304	1,971	2,323	3,049	697
	Sotong Biasa	17,987	258	3,179	5,541	7,502	1,507
76	Ubur-Ubur	889	13	830	46	0	0
	Jumlah Tan M./Total Tonnes	307,277	13,852	81,252	86,844	103,196	22,133

JADUAL (TABLE) 4.7.2

PANTAI TIMUR SEMENANJUNG MALAYSIA /EAST COAST PENINSULAR MALAYSIA
 USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1997
 FISHING EFFORT AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1997

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	13,953	2,387	5,089	2,750	2,282	1,445
	Cumulative no. of trips	122,764	39,537	60,126	13,408	6,278	3,415
	Cumulative no. of days	229,452	40,374	73,503	49,451	39,315	26,809
	Cumulative no. of hauls	831,731	121,846	289,958	194,191	138,626	87,110
24	Kebasi/Selangat	1	0	0	1	0	0
	Puput/B. Mata/Tirok	10	0	9	1	0	0
	Terubok	0	0	0	0	0	0
25	Siakap	0	0	0	0	0	0
31	Lidah	152	18	75	40	16	3
	Sebelah	285	7	68	91	81	38
33	Bayan	11	0	5	3	2	1
	Biji Nangka	4,177	8	1,532	929	1,148	560
	Daun Baharu	107	1	35	29	24	18
	Delah/Pinang-Pinang	48	1	20	7	12	8
	Duri/Pulutan/Utik	1,538	37	472	390	397	242
	Dengkis/Debam	186	3	45	39	67	32
	Gelama/Tengkerong/Selampai	1,350	58	480	501	277	34
	Gerut-Gerut	102	1	32	40	20	9
	Jenahak	65	0	4	7	28	26
	Kaci	507	0	12	49	244	202
	Kerapu	621	4	100	142	206	169
	Kerisi	9,161	23	2,936	2,278	2,079	1,845
	Kerisi Bali	1,628	1	294	243	441	649
	Kikek	845	14	453	257	115	6
	Malong	165	8	47	32	49	29
	Merah	906	2	80	113	331	380
	Mengkerong/Conor/Ubi-Ubi	2,765	2	264	458	1,260	781
	Remong/Kunyit-Kunyit/Tanda	1,181	8	183	256	476	258
	Semilang	4	0	1	0	1	2
	Shrumbu/Lemah	2	0	1	0	1	0
	Puntong Damar/Bulus	348	17	122	132	53	24
	Pasir-Pasir/Timun-Timun	624	22	293	164	114	31
34	Alu-Alu/Kacang-Kacang	726	7	132	199	271	117
	Aruan Tasik	99	0	7	25	46	21
	Bawal	220	20	71	56	46	27

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

	Belanak/Kedera	5	0	4	1	0	0
	Cermin/Sagai/Cupak	768	5	88	206	269	200
	Cencaru	696	0	14	193	360	129
	Demudok/Rambai	159	0	6	28	85	40
	Kurau/Senangin/Senohong	3	0	2	0	1	0
	Pelata/Selar	1,252	7	50	321	550	324
	Selar Kuning/Lolong	4,576	57	865	1,318	1,592	744
	Selayang/Curut	792	0	3	94	392	303
	Pisang-Pisang	25	1	1	0	2	21
	Talang	116	1	9	42	63	1
35	Bilis/Bunga Air	12	0	0	6	4	2
	Parang-Parang	630	22	143	248	159	58
	Tamban	10	2	4	1	2	1
	Bulan-Bulan	1	0	0	1	0	0
36	Aya/Kayu/Tongkol	17	0	0	2	11	4
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	701	7	26	248	302	118
	Tenggiri	606	8	46	208	227	117
	Timah/Layor/Selayor	877	16	374	224	194	69
38	Pari	4,241	197	1,425	1,403	870	346
	Yu	982	31	197	293	288	173
39	Ikan Baja	83,393	4,073	14,803	25,311	24,159	15,047
	Ikan Campur	9,232	82	1,779	1,674	2,985	2,712
	Jebong	742	0	59	58	373	252
42	Ketam	945	135	307	285	164	54
45	Udang Karang/Lobok	408	12	87	117	129	63
	Udang Putih	431	66	90	205	70	0
	Udang Minyak	331	114	182	28	6	1
	Udang Merah Ros	1,034	319	630	64	21	0
	Udang Kulit Keras	239	47	170	16	6	0
	Udang Harimau	130	13	43	47	27	0
	Lain-Lain Jenis Udang	1,843	162	697	651	324	9
	Udang Baring	0	0	0	0	0	0
56	Siput/Kepah/Kupang/Tiram	13	0	0	3	10	0
57	Sotong Kereta	119	12	46	33	26	2
	Sotong Katak	8,380	240	2,486	2,696	1,913	1,045
	Sotong Biasa	9,162	59	2,325	2,722	2,616	1,440
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M./Total Tonnes	160,705	5,950	34,734	45,229	46,005	28,787

JADUAL (TABLE) 4.8

SEMANJUNG MALAYSIA/ PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT IKAN MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1997
FISHING EFFORT AND LANDINGS OF FISH PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1997

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	5,134	57	952	1,012	2,095	1,018
	Cumulative no. of trips	67,093	1,026	17,582	16,064	29,224	3,197
	Cumulative no. of days	94,392	1,026	18,303	18,186	39,780	17,097
	Cumulative no. of hauls	220,686	6,843	55,776	43,957	87,189	26,921
24	Kebasi/Selangat	0	0	0	0	0	0
	Puput/B. Mata/Tirok	31	0	0	0	30	1
	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	2	2	0	0	0	0
	Daun Baharu	0	0	0	0	0	0
	Delah/Pinang-Pinang	21	0	1	0	20	0
	Duri/Pulutan/Utik	10	1	1	0	8	0
	Dengkis/Debam	1	0	0	0	1	0
	Gelama/Tengkerong/Selampai	59	0	51	8	0	0
	Gerut-Gerut	1	0	1	0	0	0
	Jenahak	1	0	0	0	0	1
	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	11	0	0	1	0	10
	Malong	0	0	0	0	0	0
	Merah	7	0	0	0	0	7
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	4	0	1	1	2	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	42	0	17	1	22	2
	Aruan Tasik	12	0	6	0	6	0
	Bawal	582	0	53	11	359	159

LABUAN
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1997
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.6

ISSCAAP GROUP NO.	Jenis Ikan <i>Species</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>Miscel- laneous</i>	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan <i>Local Name</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	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
	Puput/B. Mata/Tirok	29	0	0	0	37	0	0	0	0	0	0	0	0	0	66
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Siakap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	31 Lidah	23	0	0	0	1	0	0	0	0	0	0	0	0	0	24
	Sebelah	89	0	0	0	46	0	2	4	0	0	0	0	0	0	141
	33 Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biji Nangka	107	0	0	0	0	0	0	0	0	0	0	0	0	0	107
	Daun Baharu	63	0	0	0	44	0	2	0	16	0	0	0	0	0	125
	Delah/Pinang-Pinang	35	0	0	0	59	0	2	8	216	0	0	0	0	0	320
	Duri/Pulutan/Utik	100	0	0	0	68	0	4	0	0	0	0	0	0	0	172
	Dengkis/Debam	30	0	0	0	79	0	3	4	19	0	0	0	0	0	135
	Gelama/Tengkerong/Selampai	164	0	0	0	0	0	0	0	0	0	0	0	0	0	164
	Gerut-Gerut	34	0	0	0	22	0	2	3	90	0	0	0	0	0	151
	Jenahak	52	0	0	0	0	0	0	7	136	0	0	0	0	0	195
	Kaci	41	0	0	0	8	0	2	4	205	0	0	0	0	0	260
	Kerapu	141	0	0	0	30	0	2	9	373	0	0	0	0	0	555
	Kerisi	470	0	0	0	1	0	0	0	55	0	0	0	0	0	526
	Kerisi Bali	86	0	0	0	0	0	0	0	407	0	0	0	0	0	493
	Kikek	78	0	0	0	37	0	4	0	0	0	0	0	0	0	119
	Malong	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21
	Merah	175	0	0	0	3	0	0	8	404	0	0	0	0	0	590
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	120	0	0	0	26	0	1	3	147	0	0	0	0	0	297
	Semilang	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Shrumbu/Lemah	24	0	0	0	10	0	2	0	0	0	0	0	0	0	36
	Puntong Damar/Bulus	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	Pasir-Pasir/Timun-Timun	21	0	0	0	14	0	2	2	0	0	0	0	0	0	39
34	Alu-Alu/Kacang-Kacang	73	51	0	0	37	12	3	0	0	0	0	0	0	0	176
	Aruan Tasik	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	Bawal	111	70	0	0	1	100	0	0	0	0	0	0	0	0	282

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

	Belanak/Kedera	60	6	5	48	1	0
	Cermin/Sagai/Cupak	139	0	63	21	43	12
	Cencaru	3,251	1	36	188	2,266	760
	Demudok/Rambai	191	1	53	24	86	27
	Kurau/Senangin/Senohong	2	1	1	0	0	0
	Pelata/Selar	8,194	26	1,361	1,108	3,898	1,801
	Selar Kuning/Lolong	19,695	28	4,789	3,191	7,671	4,016
	Selayang/Curut	53,975	64	6,981	6,047	14,703	26,180
	Pisang-Pisang	1,395	0	37	0	40	1,318
	Talang	48	9	10	1	25	3
35	Bilis/Bunga Air	156	0	0	19	137	0
	Parang-Parang	40	1	25	7	7	0
	Tamban	17,477	20	3,719	2,852	9,160	1,726
	Bulan-Bulan	342	0	341	0	1	0
36	Aya/Kayu/Tongkol	14,564	30	4,235	1,682	6,229	2,388
	Layaran/Mersuji	1	0	1	0	0	0
37	Kembong/Temenong/Pelaling	21,127	27	1,255	7,186	10,426	2,233
	Tenggiri	314	0	29	22	150	113
	Timah/Layor/Selayor	236	2	128	44	47	15
38	Pari	0	0	0	0	0	0
	Yu	2	0	0	2	0	0
39	Ikan Baja	5,198	304	961	532	1,713	1,688
	Ikan Campur	2,215	5	462	331	864	553
	Jebong	0	0	0	0	0	0
42	Ketam	6	0	0	6	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	20	0	0	10	10	0
	Udang Kulit Keras	0	0	0	0	0	0
	Udang Harimau	0	0	0	0	0	0
	Lain-Lain Jenis Udang	592	0	0	475	117	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	802	1	268	291	169	73
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M./Total Tonnes	150,826	529	24,891	24,109	58,211	43,086

JADUAL (TABLE) 4.8.1

PANTAI BARAT SEMENANJUNG MALAYSIA/ WEST COAST OF PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT IKAN MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1997
FISHING EFFORT AND LANDINGS OF FISH PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1997

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	2,040	9	28	462	1,198	343
	Cumulative no. of trips	33,541	162	1,032	10,442	20,668	1,237
	Cumulative no. of days	45,411	162	1,033	10,442	27,567	6,207
	Cumulative no. of hauls	84,887	1,197	6,010	24,509	47,179	5,992
24	Kebasi/Selangat	0	0	0	0	0	0
	Puput/B. Mata/Tirok	31	0	0	0	30	1
	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	0	0	0	0	0	0
	Dengkis/Debam	0	0	0	0	0	0
	Gelama/Tengkerong/Selampai	4	0	4	0	0	0
	Gerut-Gerut	0	0	0	0	0	0
	Jenahak	1	0	0	0	0	1
	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	9	0	0	1	0	8
	Malong	0	0	0	0	0	0
	Merah	1	0	0	0	0	1
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	0	0	0	0	0	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	0	0	0	0	0	0
	Aruan Tasik	0	0	0	0	0	0
	Bawal	457	0	50	9	259	139

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

	Belanak/Kedera	59	6	5	47	1	0
	Cermin/Sagai/Cupak	0	0	0	0	0	0
	Cencaru	2,695	1	30	100	1,964	600
	Demudok/Rambai	19	0	6	3	8	2
	Kurau/Senangin/Senohong	2	1	1	0	0	0
	Pelata/Selar	2,011	6	361	400	1,000	244
	Selar Kuning/Lolong	3,031	10	331	290	1,600	800
	Selayang/Curut	4,646	9	898	571	1,424	1,744
	Pisang-Pisang	94	0	6	0	13	75
	Talang	18	2	4	0	11	1
35	Bilis/Bunga Air	154	0	0	18	136	0
	Parang-Parang	1	1	0	0	0	0
	Tamban	3,390	4	970	553	1,395	468
	Bulan-Bulan	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	5,902	7	2,300	671	2,500	424
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	16,310	17	973	6,186	7,626	1,508
	Tenggiri	243	0	20	8	115	100
	Timah/Layor/Selayor	19	0	12	3	2	2
38	Pari	0	0	0	0	0	0
	Yu	0	0	0	0	0	0
39	Ikan Baja	4,572	284	859	443	1,497	1,489
	Ikan Campur	714	1	130	162	241	180
	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	20	0	0	10	10	0
	Udang Kulit Keras	0	0	0	0	0	0
	Udang Harimau	0	0	0	0	0	0
	Lain-Lain Jenis Udang	592	0	0	475	117	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	65	0	18	32	10	5
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M./Total Tonnes	45,060	349	6,978	9,982	19,959	7,792

JADUAL (TABLE) 4.8.2

PANTAI TIMUR SEMENANJUNG MALAYSIA/ EAST COAST OF PENINSULAR MALAYSIA
 USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT IKAN MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1997
 FISHING EFFORT AND LANDINGS OF FISH PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1997

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	3,094	48	924	550	897	675
	Cumulative no. of trips	33,552	864	16,550	5,622	8,556	1,960
	Cumulative no. of days	48,981	864	17,270	7,744	12,213	10,890
	Cumulative no. of hauls	135,799	5,646	49,766	19,448	40,010	20,929
24	Kebasi/Selangat	0	0	0	0	0	0
	Puput/B. Mata/Tirok	0	0	0	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	2	2	0	0	0	0
	Daun Baharu	0	0	0	0	0	0
	Delah/Pinang-Pinang	21	0	1	0	20	0
	Duri/Pulutan/Utik	10	1	1	0	8	0
	Dengkis/Debam	1	0	0	0	1	0
	Gelama/Tengkerong/Selampai	55	0	47	8	0	0
	Gerut-Gerut	1	0	1	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	2	0	0	0	0	2
	Malong	0	0	0	0	0	0
	Merah	6	0	0	0	0	6
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	4	0	1	1	2	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	42	0	17	1	22	2
	Aruan Tasik	12	0	6	0	6	0
	Bawal	125	0	3	2	100	20

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

	Belanak/Kedera	1	0	0	1	0	0
	Cermin/Sagai/Cupak	139	0	63	21	43	12
	Cencaru	556	0	6	88	302	160
	Demudok/Rambai	172	1	47	21	78	25
	Kurau/Senangin/Senohong	0	0	0	0	0	0
	Pelata/Selar	6,183	20	1,000	708	2,898	1,557
	Selar Kuning/Lolong	16,664	18	4,458	2,901	6,071	3,216
	Selayang/Curut	49,329	55	6,083	5,476	13,279	24,436
	Pisang-Pisang	1,301	0	31	0	27	1,243
	Talang	30	7	6	1	14	2
35	Billis/Bunga Air	2	0	0	1	1	0
	Parang-Parang	39	0	25	7	7	0
	Tamban	14,087	16	2,749	2,299	7,765	1,258
	Bulan-Bulan	342	0	341	0	1	0
36	Aya/Kayu/Tongkol	8,662	23	1,935	1,011	3,729	1,964
	Layaran/Mersuji	1	0	1	0	0	0
37	Kembong/Temenong/Pelaling	4,817	10	282	1,000	2,800	725
	Tenggiri	71	0	9	14	35	13
	Timah/Layor/Selayor	217	2	116	41	45	13
38	Pari	0	0	0	0	0	0
	Yu	2	0	0	2	0	0
39	Ikan Baja	626	20	102	89	216	199
	Ikan Campur	1,501	4	332	169	623	373
	Jebong	0	0	0	0	0	0
42	Ketam	6	0	0	6	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	0	0	0	0	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	737	1	250	259	159	68
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M./Total Tonnes	105,766	180	17,913	14,127	38,252	35,294

SEMANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN : BILANGAN TRIP MENANGKAP IKAN MENGIKUT JENIS PERKAKAS DAN NEGERI, 1997
FISHING EFFORT : NUMBER OF TRIPS BY TYPE OF GEAR AND STATE, 1997

JADUAL (TABLE) 5.1

Jenis Perkakas	Pukat Tunda Trawl Net					Pukat Tarik (Seine Net)										Lain-Lain Tarik Other Seine	Pukat Hanyut Drift/Gill Net	Pukat Tangguk Lift Net	Perangkap-Perangkap		Pancing Hook&Line	Pukat Sakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memunggut Siput Shellfish Collection	Rampalan Miscellaneous
						Pukat Jerut Ikan Purse Seine-Fish					Pukat Jerut Bilis Purse Seine-Anchovy								Belat-Belat Stationary	Bubu Portable						
	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above											
Type Of Gear	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above											
Negeri/State																										
Perlis	5922	21527	3840	195	116	0	0	8479	3644	1014	0	0	0	0	0	0	78631	0	0	0	0	0	0	5371	661	8936
Kedah	63640	44622	21057	9435	422	0	0	0	2981	103	0	0	0	271	10418	10607	321025	0	163	888	14750	20991	3720	17681	2450	25902
P.Pinang	0	0	22180	2010	75	0	135	1531	1560	75	0	0	0	0	0	32842	427712	0	0	1375	22813	12430	11812	3365	712	5054
Perak	30846	255230	24510	15561	2122	162	897	300	7651	45	0	0	0	6791	0	73950	310118	0	0	4902	29642	21396	11904	60810	2502	54572
Selangor	31174	84037	28091	9588	18	0	0	132	4832	0	0	0	0	0	0	3856	237008	0	1280	11030	36708	36604	4791	12449	0	1828
N.Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24842	0	0	360	2755	0	0	0	0	0
Melaka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190	111853	0	0	78	12060	0	0	13709	0	0
Johor Barat/ West Johor	9909	46463	901	0	0	0	0	0	0	0	0	0	0	0	0	0	396810	0	18314	11288	1999	8251	2947	39509	0	17910
Kelantan	0	15987	1428	343	52	0	0	90	313	318	0	1021	0	0	0	0	42737	3132	10365	45	11518	0	0	0	0	12412
Terengganu	6048	17633	1552	166	240	864	15368	4896	2160	1034	1123	2375	0	0	0	0	20520	3984	0	23421	82331	0	0	0	0	0
Pahang	24364	18665	6918	2786	2301	0	627	283	3863	138	0	910	119	472	0	0	68272	823	0	19745	11661	0	0	0	0	0
Johor Timur/ East Johor	9125	7841	3510	2983	822	0	555	353	2220	470	0	0	0	0	0	0	58609	0	0	837	9157	11250	0	0	0	9081

* GRT: Gross Registered Tonnage

SEMANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN : BILANGAN HARI MENANGKAP IKAN MENGIKUT JENIS PERKAKAS DAN NEGERI, 1997
FISHING EFFORT : NUMBER OF FISHING DAYS BY TYPE OF GEAR AND STATE, 1997

JADUAL (TABLE) 5.2

Jenis Perkakas	Pukat Tunda Trawl Net					Pukat Tarik (Seine Net)										Lain-Lain Tarik Other Seine	Pukat Hanyut Drift/Gill Net	Pukat Tangguk Lift Net	Perangkap-Perangkap		Pancing Hook&Line	Pukat Bakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memunggut Siput Shellfish Collection	Rampalan Miscellaneous
						Pukat Jerut Ikan Purse Seine-Fish					Pukat Jerut Bilis Purse Seine-Anchovy								Trap							
	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-49.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-49.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-49.9 GRT	70GRT &Above				Belat-Belat Stationary	Bubu Portable						
Type Of Gear	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-49.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-49.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-49.9 GRT	70GRT &Above											
Negeri/State																										
Perlis	5969	32950	19704	1361	867	0	0	8479	10192	5616	0	0	0	0	0	0	115419	0	0	0	0	0	0	5371	661	8936
Kedah	63642	44623	48815	29179	2104	0	0	0	2981	382	0	0	0	271	10418	10607	321025	0	163	888	14750	20991	3720	17681	2450	25902
P.Pinang	0	0	22226	3517	348	0	136	1531	1560	75	0	0	0	0	0	32842	427712	0	0	1680	22813	12430	14582	3365	712	5054
Perak	30846	256804	32984	63240	15154	162	897	300	8002	134	0	0	0	6791	0	73950	310118	0	0	5521	29642	21396	11904	60810	2502	54572
Selangor	31174	84037	35437	20326	75	0	0	132	4832	0	0	0	0	0	0	3856	237291	0	1280	11931	37094	36604	4791	12449	0	1828
N.Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24900	0	0	957	2755	0	0	0	0	187
Melaka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191	111854	0	0	78	12060	0	0	13709	0	0
Johor Barat/ West Johor	9910	46463	901	0	0	0	0	0	0	0	0	0	0	0	0	0	396810	0	18314	42591	1999	8251	2947	39509	0	17910
Kelantan	0	16158	6217	3888	1068	0	0	323	1216	2064	0	1021	0	0	0	0	43933	4462	10365	351	25599	0	0	0	0	12411
Terengganu	6048	25755	7257	1049	2733	864	15893	6703	3974	6298	1123	2375	0	0	0	0	20961	4667	0	27894	113132	0	0	0	0	0
Pahang	24364	21897	18735	15927	16637	0	627	283	3863	478	0	910	128	472	0	0	68773	823	0	19745	18460	0	0	0	0	0
Johor Timur/ East Johor	9962	9693	17242	18451	6371	0	750	435	3160	2050	0	0	0	0	0	0	62378	0	0	3120	15086	11250	0	0	0	9111

* GRT: Gross Registered Tonnage

SEMANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN : BILANGAN KALI MEMUKAT IKAN MENGIKUT JENIS PERKAKAS DAN NEGERI, 1997
FISHING EFFORT : NUMBER OF HAULS BY TYPE OF GEAR AND STATE, 1997

JADUAL (TABLE) 5.3

Jenis Perkakas	Pukat Tunda Trawl Net					Pukat Tarik (Seine Net)										Pukat Hanyut Drift/Gill Net	Pukat Tangkap LIR Net	Perangkap-Perangkap		Pancing Hook&Line	Pukat Sakul Bag Net	Pukat Rentang Barrier Net	Pukat Surung Push/Scoop Net	Memunggut Siput Shellfish Collection	Rampai Miscellaneous	
						Pukat Jerut Ikan Purse Seine-Fish					Pukat Jerut Bilis Purse Seine-Anchovy							Lain-Lain Tarik Other Seine	Trap							
						0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above				0-9.9 GRT							0-24.9 GRT
Type Of Gear	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above	0-9.9 GRT	0-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70GRT &Above											
Negeri/State																										
Perlis	12648	135307	37108	2503	2089	0	0	19074	18348	5660	0	0	0	0	0	0	246148	0	0	0	0	0	0	5742	0	17163
Kedah	162584	133867	195764	112667	6210	0	0	0	3951	254	0	0	0	337	20864	105628	481159	0	22	520	0	42213	3726	53182	317520	25531
P.Pinang	0	0	68040	15157	1140	0	406	4467	1613	78	0	0	0	0	0	521382	1631230	0	0	1421	22746	12495	14508	5915	708	5040
Perak	78110	733689	121162	223944	49221	1197	5604	622	18739	0	0	0	0	42527	0	151780	923784	0	0	0	0	25574	38847	411018	1206	0
Selangor	81248	248624	114747	90517	216	0	0	346	4528	0	0	0	0	0	0	155290	647048	0	2499	15287	497490	146397	5129	134520	0	6382
N.Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35349	0	0	0	7138	3175	0	0	0	0
Malaka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	492	134615	0	0	756	12060	0	0	27434	0	0
Johor Barat/ West Johor	19379	93335	1805	13432	0	0	0	0	0	0	0	0	0	0	0	0	946045	0	18294	101888	2008	8277	2973	45924	0	9612
Kelantan	0	52876	26598	8432	3091	0	0	869	8090	5552	0	4783	0	0	0	0	133520	13914	24033	0	0	0	0	0	0	74485
Terengganu	20967	138203	25595	4646	8530	5646	46338	17011	13570	10941	5171	6826	0	0	0	0	95703	13932	0	0	110	0	0	0	0	0
Pahang	72617	67514	71314	53284	53821	0	1896	837	12820	400	0	2637	342	1417	0	0	188895	2468	0	0	0	0	0	0	0	0
Johor Timur/ East Johor	28262	31365	70684	72264	21668	0	1532	731	5530	4036	0	0	0	0	0	0	192064	0	0	8271	0	11250	0	0	0	0

*GRT : Gross Registered Tonnage

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
HARGA PURATA IKAN DIPANTAI MENGIKUT BULAN, 1997
MONTHLY AVERAGE EX-VESSEL PRICES OF FRESH FISH, 1997
Harga Dalam RM/Kg/Prices At RM/Kg

JADUAL (TABLE) 6.1

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, 1997 Average, 1997
Bawal Putih	18.58	18.87	18.01	16.51	17.80	18.84	19.92	20.27	19.19	19.93	17.80	15.35	18.42
Bawal Hitam	8.54	8.88	8.46	7.94	8.42	8.67	8.72	9.14	9.00	9.30	9.45	9.34	8.82
Kerapu	11.20	10.74	10.92	11.32	10.89	10.93	10.80	11.08	11.64	10.95	10.94	11.90	11.11
Tenggiri	10.09	10.17	9.77	9.59	9.70	9.44	9.69	9.93	9.95	9.81	9.72	9.63	9.79
Jenahak	10.92	11.20	10.84	10.66	11.20	10.81	10.75	11.24	10.59	10.41	10.53	10.79	10.83
Merah	6.96	7.54	7.22	6.94	6.76	6.80	7.54	6.66	6.90	6.75	6.62	7.02	6.98
Kaci	4.09	4.56	4.46	4.69	4.66	4.36	4.26	4.82	4.30	4.56	4.51	4.39	4.47
Cermin	4.59	4.04	4.39	4.07	4.50	4.29	4.60	4.60	4.20	4.33	4.33	4.44	4.37
Gelama	2.48	2.58	2.59	2.51	2.55	2.67	2.70	2.72	2.56	2.30	2.28	2.51	2.54
Kembong	3.66	3.88	3.53	3.61	3.51	3.66	3.55	3.67	3.54	3.50	3.67	3.90	3.64
Kerisi	2.88	3.10	2.64	2.81	2.93	2.84	2.92	3.24	3.41	2.70	2.78	2.99	2.94
Selayang	1.59	1.75	1.52	1.57	1.60	1.71	1.58	1.46	1.52	1.48	1.44	1.57	1.57
Tamban	1.57	1.33	1.61	1.36	1.22	1.29	1.44	1.39	1.34	1.32	1.36	1.40	1.39
Selar/Pelata	3.23	3.10	2.94	2.75	2.92	3.08	2.90	2.69	3.22	3.12	3.09	3.14	3.02
Sotong Biasa	5.47	5.47	5.05	5.12	4.99	5.04	5.37	5.13	5.03	4.82	5.03	5.23	5.15
Aya/Tongkol	2.73	3.11	2.69	2.41	2.86	2.53	2.49	2.59	2.42	2.54	2.67	2.36	2.62
Udang Putih	23.31	24.07	21.49	19.75	19.71	22.17	19.52	20.21	19.67	19.72	21.63	21.58	21.07
Udang Harimau	25.31	23.51	26.11	25.97	24.88	24.62	24.73	22.25	24.69	18.49	25.50	25.04	24.26
Lain-Lain Udang	7.65	7.80	7.70	6.98	7.13	7.10	7.18	7.71	7.18	7.23	7.73	6.91	7.36

MALAYSIA
NILAI HARGA BORONG PENDARATAN IKAN LAUT, 1997
WHOLESALE VALUE OF MARINE FISH LANDINGS, 1997

JADUAL (TABLE) 7.1

Negeri/State	Gred I Grade 1		Gred II Grade 11		Gred III Grade 111		Udang Prawn		Ikan Baja Manure Fish		Kerang-Kerangan Shellfish		Jumlah Total	
	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM
Perlis	1,454	12,697,983	135	287,834	35,892	108,022,553	3,593	32,231,836	12,800	3,223,970	399	676,235	54,273	157,140,411
Kedah	4,426	58,500,308	791	3,345,930	43,748	163,661,268	7,321	102,100,122	28,007	8,185,175	3,570	5,992,670	87,863	341,785,473
Pulau Pinang	1,241	28,187,411	351	1,472,796	18,965	63,153,450	4,403	60,843,393	12,555	5,070,955	17	105,461	37,532	158,833,466
Perak	3,826	49,953,045	8,944	62,151,856	96,435	313,317,315	25,991	219,753,230	65,854	23,604,003	162	154,139	201,212	668,933,588
Selangor	3,632	50,776,586	2,042	13,714,072	30,000	106,890,000	19,547	103,648,766	42,672	12,625,091	20,515	34,289,914	118,408	321,944,429
Negeri Sembilan	93	1,457,107	27	132,503	206	721,117	49	1,362,316	0	0	2	5,525	377	3,678,568
Melaka	388	6,363,137	20	176,511	1,115	3,985,659	194	4,331,724	0	0	33	97,156	1,750	14,954,187
Johor Barat/ West Johore	1,573	22,646,002	258	2,422,620	4,726	16,281,070	3,674	39,968,605	3,783	1,510,676	0	0	14,014	82,828,973
Jumlah Kecil	16,633	230,581,579	12,568	83,704,122	231,087	776,032,432	64,772	564,239,992	165,671	54,219,870	24,698	41,321,100	515,429	1,750,099,095
Kelantan	734	11,161,938	506	3,661,922	26,226	56,962,872	491	4,923,539	6,165	1,204,722	14	21,572	34,136	77,936,565
Terengganu	2,286	28,547,127	1,839	14,605,938	125,782	418,726,852	618	7,059,739	9,056	2,442,574	0	0	139,581	471,382,230
Pahang	1,698	15,266,012	998	5,552,036	40,549	122,195,523	1,887	21,236,766	46,043	7,734,407	0	0	91,175	171,984,744
Johor Timur/ East Johore	1,332	11,364,355	1,485	10,176,928	28,776	78,594,337	2,435	20,114,893	23,225	4,341,859	0	0	57,253	124,592,372
Jumlah Kecil	6,050	66,339,432	4,828	33,996,824	221,333	676,479,584	5,431	53,334,937	84,489	15,723,562	14	21,572	322,145	845,895,911
Sarawak	5,010	36,297,450	3,393	18,281,484	93,978	246,543,936	11,054	105,245,134	14,758	1,682,412	0	0	128,193	408,050,416
Sabah	15,355	138,758,210	10,085	48,043,490	122,109	279,856,700	10,290	97,980,060	15,638	2,112,860	788	2,412,180	174,265	569,163,500
W.P Labuan	1,524	8,314,904	1,684	10,129,232	21,297	75,277,041	732	7,952,579	3,704	348,488	0	0	28,941	102,022,244
Jumlah Kecil	21,889	183,370,564	15,162	76,454,206	237,384	601,677,677	22,076	211,177,773	34,100	4,143,760	788	2,412,180	331,399	1,079,236,160
JUMLAH/TOTAL	44,572	480,291,575	32,558	194,155,152	689,804	2,054,189,693	92,279	828,752,702	284,260	74,087,192	25,500	43,754,852	1,168,973	3,675,231,166

NOTA/NOTE:

Gred I - Termasuk Bawal Tambak, Bawal Putih, Bawal Hitam, Bawal Selatan, Senangin/Kuraw/Senohong, Tenggilri, Parang, Kerapu dan Jenahak.
(Grade 1) - Includes Chinese Pomfret, Silver Pomfret, Black Pomfret, Small Pomfret, Threadfin, Spanish Mackerel, Wolf Herring, Grouper and Mangrove Snapper.
Gred II - Termasuk Terubuk, Puput/Bellak 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 III - Lain-Lain Ikan Termasuk Ikan Billis, Sotong, Ketam dan Ubor-ubor.
(Grade 111) - Other Species Including Anchovy, Squids, Crabs and Jellyfish

MALAYSIA
NILAI HARGA RUNCIT PENDARATAN IKAN LAUT, 1997
RETAIL VALUE OF MARINE FISH LANDINGS, 1997

JADUAL (TABLE) 7.2

Negeri/State	Gred I Grade 1		Gred II Grade 11		Gred III Grade 111		Udang Prawn		Ikan Baja Manure Fish		Kerang-Kerangan Shellfish		Jumlah Total	
	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM	Tan M. Tonnes	RM
Perlis	1,454	17,271,159	135	373,358	35,892	153,248,096	3,593	37,829,391	12,800	4,479,913	399	1,111,503	54,273	214,313,420
Kedah	4,426	68,060,032	791	4,650,289	43,748	223,639,776	7,321	117,285,368	28,007	9,767,466	3,570	7,990,445	87,863	431,393,376
Pulau Pinang	1,241	30,374,090	351	1,723,761	18,965	78,059,940	4,403	66,806,136	12,555	5,106,122	17	107,568	37,532	182,177,617
Perak	3,826	62,638,318	8,944	78,412,048	96,435	409,463,010	25,991	267,812,100	65,854	29,716,063	162	235,764	201,212	848,277,303
Selangor	3,632	55,675,647	2,042	16,113,422	30,000	135,660,000	19,547	119,450,486	42,672	14,870,238	20,515	49,138,479	118,408	390,908,272
Negeri Sembilan	93	1,682,682	27	158,705	206	973,544	49	1,542,367	0	0	2	6,628	377	4,363,926
Melaka	388	6,897,225	20	200,724	1,115	4,490,086	194	4,812,702	0	0	33	113,964	1,750	16,514,701
Johor Barat/ West Johor	1,573	26,556,052	258	2,934,234	4,726	21,134,672	3,674	47,280,305	3,783	1,510,676	0	0	14,014	99,415,939
Jumlah Kecil	16,633	269,155,205	12,568	104,566,541	231,087	1,026,669,124	64,772	662,818,855	165,671	65,450,478	24,698	58,704,351	515,429	2,187,364,554
Kelantan	734	12,272,480	506	4,365,262	26,226	71,518,302	491	5,386,088	6,165	1,350,511	14	26,728	34,136	94,919,371
Terengganu	2,286	32,853,717	1,839	18,040,665	125,782	569,941,523	618	8,650,612	9,056	3,410,065	0	0	139,581	632,896,582
Pahang	1,698	20,642,969	998	8,027,786	40,549	184,873,626	1,887	26,865,837	46,043	7,641,228	0	0	91,175	248,051,446
Johor Timur/ East Johor	1,332	14,477,117	1,485	12,944,967	28,776	115,044,324	2,435	25,064,877	23,225	4,341,859	0	0	57,253	171,873,144
Jumlah Kecil	6,050	80,246,283	4,828	43,378,680	221,333	941,377,775	5,431	65,967,414	84,489	16,743,663	14	26,728	322,145	1,147,740,543
Sarawak	5,010	64,934,610	3,393	36,569,754	93,978	421,498,836	11,054	121,682,432	14,758	2,066,120	0	0	128,193	646,751,752
Sabah	15,355	184,053,600	10,085	62,737,630	122,109	402,336,600	10,290	113,278,780	15,638	2,825,940	788	2,895,920	174,265	768,128,470
W.P Labuan	1,524	21,240,403	1,684	25,828,215	21,297	141,199,296	732	14,314,462	3,704	375,897	0	0	28,941	202,958,273
Jumlah Kecil	21,889	270,228,613	15,162	125,135,599	237,384	965,034,732	22,076	249,275,674	34,100	5,267,957	788	2,895,920	331,399	1,617,838,495
JUMLAH/TOTAL	44,572	619,630,101	32,558	273,080,820	689,804	2,933,081,631	92,279	978,061,943	284,260	87,462,098	25,500	61,626,999	1,168,973	4,952,943,592

NOTA/NOTE:

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

SEMANJUNG MALAYSIA / PENINSULAR MALAYSIA
NILAI PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN GRED IKAN, 1997
VALUE OF MARINE FISH LANDINGS BY GEAR GROUP AND GRADE OF FISH, 1997

JADUAL (TABLE) 7.3

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	Rampaiian Miscellaneous	Jumlah Total
			Pukat Jerut Ikan Purse Seine- Fish	Pukat Jerut Bilis Purse Seine- Anchovy				Belat-Belat Stationary	Bubu Portable							
Gred I (Grade I)	Tonnes	13,144	939	6	10	5,331	12	26	665	2,536	11	3	0	0	0	22,683
	N.B.RM	172,055,274	12,291,532	78,540	130,900	69,782,917	157,080	340,341	8,704,866	33,196,301	143,990	39,270	0	0	0	296,921,011
	N.R.RM	202,465,863	14,464,048	92,422	154,037	82,116,974	184,844	400,495	10,243,442	39,063,712	169,440	46,211	0	0	0	349,401,488
Gred II (Grade II)	Tonnes	6,944	368	14	3	8,002	6	3	545	1,500	2	8	1	0	0	17,396
	N.B.RM	46,982,948	2,489,880	94,724	20,298	54,141,352	40,596	20,298	3,687,458	10,148,966	13,532	54,128	6,766	0	0	117,700,946
	N.R.RM	59,055,623	3,129,676	119,064	25,514	68,053,440	51,027	25,514	4,634,982	12,756,831	17,009	68,036	8,505	0	0	147,945,221
Gred III (Grade III)	Tonnes	187,207	143,709	22,210	520	57,717	6,256	218	6,774	23,855	2,147	802	128	0	877	452,420
	N.B.RM	601,035,359	461,383,337	71,306,069	1,669,480	185,302,675	20,085,131	699,897	21,748,191	76,587,406	6,893,027	2,574,852	410,949	0	2,815,643	1,452,512,016
	N.R.RM	814,358,683	625,140,471	96,614,477	2,262,023	251,071,488	27,213,875	948,311	29,467,198	103,770,299	9,339,544	3,488,735	556,806	0	3,814,989	1,968,046,899
Udang (Prawn)	Tonnes	31,144	612	45	9,442	8,765	0	476	3	1	16,469	129	3,076	0	41	70,203
	N.B.RM	273,973,386	5,383,757	395,865	83,061,158	77,105,597	0	4,187,366	26,391	8,797	144,877,591	1,134,811	27,059,534	0	360,676	617,574,929
	N.R.RM	323,309,824	6,353,250	467,151	98,018,603	90,990,579	0	4,941,417	31,143	10,381	170,966,783	1,339,165	31,932,347	0	425,626	728,786,269
Ikan Baja (Manure Fish)	Tonnes	229,530	5,198	13	7,253	3,195	0	3	0	1	2,896	657	1,414	0	0	250,160
	N.B.RM	64,175,390	1,453,334	3,635	2,027,901	893,305	0	839	0	280	809,707	183,694	395,347	0	0	69,943,432
	N.R.RM	75,415,818	1,707,888	4,271	2,363,091	1,049,769	0	986	0	329	951,528	215,868	464,593	0	0	82,194,141
Kerang- Kerangan (Shellfish)	Tonnes	13	0	0	0	0	0	0	0	0	1	0	0	24,698	0	24,712
	N.B.RM	21,749	0	0	0	0	0	0	0	0	1,673	0	0	41,319,250	0	41,342,672
	N.R.RM	30,896	0	0	0	0	0	0	0	0	2,377	0	0	58,697,806	0	58,731,079
JUMLAH TOTAL	Tonnes	467,982	150,826	22,288	17,228	83,010	6,274	726	7,987	27,893	21,526	1,599	4,619	24,698	918	837,574
	N.B.RM	1,158,244,106	483,001,840	71,878,833	86,909,737	387,225,846	20,282,807	5,248,741	34,166,906	119,941,750	152,739,520	3,986,755	27,872,596	41,319,250	3,176,319	2,595,995,006
	N.R.RM	1,474,636,707	650,795,333	97,297,385	102,843,268	493,282,250	27,449,746	6,316,723	44,376,765	155,601,552	181,446,681	5,158,015	32,962,251	58,697,806	4,240,615	3,335,105,097

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

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

NOTA/NOTE:

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

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

Gred 11 - Termasuk Terubuk, Pupuk/Beliak Mata/Tirok, Merah, Kaci, Cemmin/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.

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

MALAYSIA
SIRI TAHUNAN PENDARATAN IKAN LAUT DAN NILAI TAHUN 1993-1997
ANNUAL SERIES OF MARINE FISH LANDINGS AND VALUES, 1993-1997

JADUAL (TABLE) 8.1

NEGERI/STATE	1993		1994		1995		1996		1997	
	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	46,229	98,725,990	36,691	100,676,227	44,468	121,003,635	44,763	117,592,180	54,273	157,140,411
Kedah	72,733	147,442,200	72,633	157,914,439	86,781	180,350,948	76,269	240,641,450	87,863	341,785,473
Pulau Pinang	33,768	111,370,120	40,998	132,105,802	46,177	152,599,130	37,612	154,910,298	37,532	158,833,466
Perak	179,406	420,014,514	196,145	474,403,000	215,537	543,739,309	225,079	843,024,682	201,212	668,933,588
Selangor	89,677	187,182,530	92,873	196,980,803	111,105	251,950,872	110,368	313,374,407	118,408	321,944,429
Negeri Sembilan	613	3,893,850	561	4,840,936	512	3,988,937	385	3,376,660	377	3,678,568
Melaka	1,996	11,568,090	1,677	11,409,862	1,933	12,373,973	1,928	14,878,785	1,750	14,954,187
Johor Barat/West Johore	22,093	78,494,520	18,724	86,193,683	22,305	104,378,013	23,091	110,157,089	14,014	82,828,973
Jumlah Kecil/Sub-Total:	446,515	1,058,691,814	460,302	1,164,524,752	528,818	1,370,384,817	519,495	1,797,955,551	515,429	1,750,099,095
Pantai Timur (East Coast):										
Kelantan	38,262	57,851,770	33,086	59,827,474	25,446	51,131,023	32,729	64,337,510	34,136	77,936,565
Terengganu	113,292	300,566,410	109,509	320,540,997	80,566	233,933,168	92,167	281,965,564	139,581	471,382,230
Pahang	126,667	205,326,206	111,538	196,904,975	126,002	191,478,104	104,859	184,083,672	91,175	171,984,744
Johor Timur/East Johore	66,882	98,835,170	70,644	114,570,301	58,632	100,973,908	58,407	111,789,022	57,253	124,592,372
Jumlah Kecil/Sub-Total:	345,103	662,579,556	324,777	691,843,747	290,646	577,516,203	288,162	642,175,768	322,145	845,895,911
Sarawak	81,924	233,752,660	95,624	276,951,710	99,255	242,772,805	100,744	300,078,640	128,193	408,050,416
Sabah	154,667	374,344,220	160,328	398,959,010	166,462	460,991,640	180,143	503,880,156	174,265	569,163,500
W.P. Labuan	19,141	49,244,850	24,554	52,015,557	23,255	59,240,200	38,145	78,067,262	28,941	102,022,244
Jumlah Kecil/Sub-Total:	255,732	657,341,730	280,506	727,926,277	288,972	763,004,645	319,032	882,026,058	331,399	1,079,236,160
Jumlah Besar/Grand-Total:	1,047,350	2,378,613,100	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

JADUAL (TABLE) 9.1

MALAYSIA
KUANTITI DAN PERATUS PENDARATAN SERTA NILAI IKAN LAUT MENGIKUT NEGERI 1997
QUANTITY AND PERCENTAGE OF LANDINGS AND VALUES OF MARINE FISH BY STATE 1997

Negeri /State	Kuantiti Pendaratan Dalam Tan Metrik Quantity Of Landings (Tonnes)	Peratus Percentage %	Nilai Dalam Ringgit Values In Ringgit	Peratus Percentage %
Pantai Barat (West Coast):				
Perlis	54,273	4.64	157,140,411	4.27
Kedah	87,863	7.52	341,785,473	9.30
Pulau Pinang	37,532	3.21	158,833,466	4.32
Perak	201,212	17.21	668,933,588	18.20
Selangor	118,408	10.13	321,944,429	8.76
Negeri Sembilan	377	0.03	3,678,568	0.10
Melaka	1,750	0.15	14,954,187	0.41
Johor Barat/West Johore	14,014	1.20	82,828,973	2.25
Pantai Timur/East Coast:				
Kelantan	34,136	2.92	77,936,565	2.12
Terengganu	139,581	11.94	471,382,230	12.83
Pahang	91,175	7.80	171,984,744	4.68
Johor Timur/East Johore	57,253	4.90	124,592,372	3.39
Sarawak	128,193	10.97	408,050,416	11.10
Sabah	174,265	14.91	569,163,500	15.49
W.P. Labuan	28,941	2.47	102,022,244	2.78
Jumlah / Total	1,168,973	100	3,675,231,166	100

SEMANAJUNG MALAYSIA/PENINSULAR MALAYSIA
PENGUNAAN PENDARATAN IKAN LAUT, 1997
DISPOSITION OF MARINE FISH LANDINGS, 1997

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	Melaka	Johor Barat <i>West</i>		Kelantan	Terengganu	Pahang	Johor Timur <i>East</i>		
Digunakan secara hidup <i>Disposed alive</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Digunakan secara basah <i>Disposed fresh</i>	53,763	46,989	35,530	111,701	58,082	377	1,469	13,300	321,211	32,934	124,844	82,416	32,859	273,053	594,264
Digunakan untuk dibeku <i>Disposed for freezing</i>	0	0	0	2,933	0	0	0	0	2,933	0	0	0	0	0	2,933
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>	30	16,004	1,147	5,421	6,409	0	74	149	29,234	736	3,218	561	0	4,514	33,748
Rebus <i>Steamed/Boiled</i>	0	0	0	422	0	0	0	0	422	0	0	0	0	0	422
Diragikan <i>Fermented</i>	69	3,169	165	12,572	11,237	0	207	563	27,982	237	625	762	870	2,494	30,476
Lain-Lain <i>Others</i>	3	143	0	480	0	0	0	3	628	229	10,894	1,218	296	12,638	13,266
Digunakan untuk mengubahkan <i>Disposed for reduction</i>	0	21,515	600	49,389	42,652	0	0	0	114,155	0	0	21	23,228	23,249	137,404
Digunakan untuk lain-lain <i>Disposed for others</i>	408	42	90	18,294	28	0	0	0	18,864	0	0	6,196	0	6,196	25,060
Jumlah (Tan Metrik) <i>Total (Tonnes)</i>	54,273	87,863	37,532	201,212	118,408	377	1,750	14,014	515,429	34,136	139,581	91,175	57,253	322,144	837,573

Nota: Na: Tiada maklumat
Not available

SEMANJUNG MALAYSIA/PENINSULAR MALAYSIA
HASIL LAUT YANG DIAWETKAN, 1997
PROCESSED MARINE FISH PRODUCTS, 1997
(Timbangan dalam Tan Metrik/Weight in Tonnes)

JADUAL (TABLE) 10.2

Negeri <i>State</i>	Ikan Masin/ Ikan Kering <i>Salted/Dried Fish</i>	Bilis Kering <i>Dried Anchovies</i>	Udang Kering <i>Dried Prawn</i>	Sotong Kering <i>Dried Cuttle Fish</i>	Ubur- Ubur <i>(Dried Jelly Fish)</i>	Lala Kering <i>Dried Shell-fish</i>	Ikan Salai <i>Smoked Fish</i>	Ikan Baja <i>Manure Fish</i>	Tepung Ikan <i>Fish Meal</i>	Otak Udang <i>Prawn Paste</i>	Belacan <i>Shrimp Paste</i>	Cincajuk <i>Pickled Prawn Fish</i>	Budu <i>Fermented Anchovies</i>	Bebola Ikan <i>Fish Ball Fish</i>	Kek Ikan <i>Fish Cake Fish</i>	Otak- Otak <i>Fish Paste</i>	Surimi <i>Surimi Fish Ball</i>	Keropok <i>Crackers</i>		Satay Ikan <i>Satay Fish</i>	Sotong Beku <i>Frozen Cuttle- Fish</i>	Udang Beku <i>Frozen Prawn</i>	Ikan Rebus <i>Boiled Fish</i>	JUMLAH <i>Total</i>
																		Ikan Fish	Udang/ Sotong <i>Prawn Cuttle-Fish</i>					
Pantai Barat <i>West Coast</i>																								
Perlis	17.65	-	0.04	-	-	-	-	245.00	-	-	3.10	-	-	5.85	-	-	29.85	1.73	-	-	-	-	-	303.22
Kedah	202.32	3,810.58	6.10	-	-	-	-	25.50	5,378.80	15.80	128.33	-	-	546.00	-	-	1,020.00	82.00	11.00	-	-	-	-	11,326.43
Pulau Pinang	308.10	-	125.10	-	13.35	-	-	54.20	150.00	-	52.80	-	-	-	-	-	-	-	-	-	-	-	-	703.55
Perak	1,215.78	438.34	251.07	-	63.75	-	-	10,977.08	12,347.14	-	931.27	-	-	5,797.17	-	-	-	-	-	287.83	1,154.69	605.08	337.67	34,406.87
Selangor	1,331.62	-	37.07	2.65	216.48	186.54	-	17.05	10,662.89	-	3,061.48	-	-	1,002.13	-	-	-	-	-	-	-	-	-	18,517.91
N. Sembilan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Malaka	45.50	-	-	-	-	-	-	-	-	-	37.50	27.00	-	-	-	-	-	-	-	-	-	-	-	110.00
Johor Barat/ <i>West Johor</i>	17.56	1.66	0.10	-	11.28	-	-	-	-	-	144.60	-	-	51.81	5.40	9.40	-	0.00	1.75	-	-	-	-	243.54
Jum. Kecil <i>Sub-Total</i>	3,138.53	4,350.58	419.48	2.65	304.84	186.54	0.00	11,318.83	28,539.83	15.80	4,359.08	27.00	0.00	7,402.98	5.40	9.40	1,049.85	83.73	12.75	287.83	1,154.69	605.08	337.67	63,611.52
Pantai Timur <i>East Coast</i>																								
Kelantan	331.00	46.00	-	-	-	-	-	-	-	-	-	-	71.00	-	-	-	-	149.00	-	-	-	-	-	597.00
Trengganu	815.42	334.20	-	128.80	-	-	2.00	-	-	-	4.00	-	22.50	280.85	31.50	-	-	7,081.05	-	-	-	-	-	8,710.32
Pahang	96.00	104.4	-	-	-	-	-	3,717.83	0.00	-	-	-	-	148.12	140.38	-	171.00	791.90	0.00	-	-	-	-	5,053.24
Johor Timur <i>East Johor</i>	-	-	-	-	-	-	-	-	5,806.95	-	278.35	-	-	-	-	-	-	183.81	8.80	-	-	-	-	6,277.71
Jum. Kecil <i>Sub-Total</i>	1,232.42	380.20	0.00	128.80	0.00	0.00	2.00	3,717.83	5,806.95	0.00	282.35	0.00	93.50	438.97	171.88	0.00	171.00	8,205.56	8.80	0.00	0.00	0.00	0.00	20,638.27
Jumlah Besar <i>Grand-Total</i>	4,370.95	4,730.78	419.48	131.45	304.84	186.54	2.00	15,036.66	34,345.78	15.80	4,641.43	27.00	93.50	7,839.93	177.29	9.40	1,220.85	8,289.29	21.55	287.83	1,154.69	605.08	337.67	84,249.79

Nota :

JADUAL (TABLE) 11.1

MALAYSIA
KILANG-KILANG AIR BATU DAN KEMUDAHAN-KEMUDAHAN PENYEJUKKAN SEHINGGA 31-12-1997
ICE FACTORIES AND REFRIGERATION FACILITIES AS AT 31-12-1997
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

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	3	150	-	7.00	8.30	-	41	585	389
P.Pinang	5	693	-	-	9.00	-	147	1,714	10,921
Perak	10	256	4.95	7.30	-	-	24	279	580
Selangor	5	424	4.00	9.00	6.00 - 9.00	6.00 - 9.00	65	582	477
Melaka	2	60	-	-	12.00	-	45	58	430
Negeri Sembilan	-	-	-	-	-	-	-	-	-
Johor Barat/West Johor	4	250	3.00 - 9.00	10.00	-	-	12	229	486
Johor Timur/East Johor	3	109	3.00 - 3.60	9.60 - 9.90	-	-	17	577	-
Kelantan	8	226	3.00	-	6.00 - 9.00	-	15	294	94
Terengganu	6	456	-	6.00	7.00	10.00	39	682	452
Pahang	7	631	5.00	-	8.00	-	7	594	100
Sarawak	49	507	2.00 - 6.00	9.00	10.00	-	121	1,739	5,445
Sabah	51	581	3.58	4.50	10.00	12.00	118	1,453	2,662
W. P. Labuan/Labuan Fed. Territory	4	204	5.00	5.00	16.00	-	3	148	280
JUMLAH/TOTAL	158	4,617					667	9,069	22,730

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
HASIL PERIKANAN, 1997
FISHERIES REVENUE, 1997
(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
	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>
Perlis	17,493.00	153,200.00	3,300.00	0.00	173,993.00	2,080.00	0.00	0.00	2,080.00	176,073.00
Kedah	45,486.50	284,376.00	8,095.00	265.00	338,222.50	60,853.58	254,350.00	1,028.00	316,231.58	654,454.08
P.Pinang/Penang	25,626.50	38,145.00	8,025.00	9,910.00	81,706.50	6,529.00	154,000.00	209.00	160,738.00	242,444.50
Perak	76,507.00	441,818.00	9,796.00	5,586.00	533,707.00	13,565.00	130,900.00	40,399.60	184,864.60	718,571.60
Selangor	97,089.00	107,272.00	14,159.00	6,065.00	224,585.00	7,079.00	34,900.00	417.60	42,396.60	266,981.60
Negeri Sembilan	686.50	440.00	805.00	155.00	2,086.50	100.00	4,200.00	436.60	4,736.60	6,823.10
Melaka/Malacca	2,003.50	1,672.00	3,063.00	85.00	6,823.50	8,484.00	500.00	378.00	9,362.00	16,185.50
Kelantan	21,183.50	210,570.00	5,385.00	695.00	237,833.50	8,210.00	23,520.00	2,668.20	34,398.20	272,231.70
Terengganu	46,988.50	347,248.00	6,507.00	482.00	401,225.50	16,200.00	28,800.00	21,640.30	66,640.30	467,865.80
Pahang	63,133.50	350,303.00	5,835.00	0.00	419,271.50	16,248.00	31,100.00	4,337.90	51,685.90	470,957.40
Johor/Johore	60,919.00	247,071.00	22,326.00	8,950.00	339,266.00	11,325.00	90,500.00	5,474.66	107,299.66	446,565.66
Jumlah Besar <i>Grand Total</i>	457,116.50	2,182,115.00	87,296.00	32,193.00	2,758,720.50	150,673.58	752,770.00	76,989.86	980,433.44	3,739,153.94

AKUAKULTUR/TERNAKAIR

AQUACULTURE

MALAYSIA
 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, 1997
 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, 1997

JADUAL (TABLE) 13.1

Negeri State	Airtawar/Freshwater														Airpayau/Brackishwater														Jumlah Besar Pentermak Grand Total Culturist		
	Kolam Ponds			Bekas Lombong Ex-Mining Pools			Sangkar Cages			Tangki 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. Pentermak No. Of Culturists	Bil. No.	Luas (Ha) Area (Ha)	Bil. Pentermak No. Of Culturists	Bil. No.	Luas (M2) Area (M2)	Bil. Pentermak No. Of Culturists	Bil. No.	Luas (M2) Area (M2)	Bil. Pentermak No. Of Culturists	Bil. No.	Luas (Ha) Area (Ha)	Bil. Pentermak No. Of Culturists	Bil. No.	Luas (Ha) Area (Ha)	Bil. Pentermak No. Of Culturists	Bil. No.	Luas (M2) Area (M2)	Bil. Pentermak No. Of Culturists	Bil. No.	Luas (M2) Area (M2)	Bil. Pentermak No. Of Culturists	Bil. No.	Luas (M2) Area (M2)	Bil. Pentermak No. Of Culturists				
Perlis	148	28.65	100	0	0.00	0	40	396.00	7	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	117
Kedah	1,432	200.41	594	0	0.00	0	0	0.00	0	24	470.62	8	0	0.00	0	878	656.72	140	2,390	25,382.57	105	1	17.98	1	5	761.07	3	22	1,460.10	2	853
Pulau Pinang	112	13.74	62	0	0.00	0	0	0.00	0	16	240.00	2	0	0.00	0	184	137.32	114	23,936	210,366.00	255	63	768.01	51	3	1,012.00	3	2	153.00	2	489
Perak	2,339	568.90	1,288	197	766.27	139	787	9,445.00	80	48	9,941.70	10	165	35.70	62	755	470.80	119	16,638	154,754.00	223	216	2,890.60	214	2	4,000.00	16	0	0.00	0	2151
Selangor	1,639	402.92	600	108	192.46	52	637	12,223.46	13	90	15,787.34	21	0	0.00	0	714	370.49	132	6,479	111,523.54	31	18	708.07	18	7	1,101.00	6	0	0.00	0	873
Negeri Sembilan	1,664	299.98	1,073	11	17.15	10	672	9,906.95	8	199	11,184.35	35	0	0.00	0	70	52.90	5	0	0.00	0	0	0.00	0	21	3,727.00	21	0	0.00	0	1152
Malaka	523	105.12	327	0	0.00	0	11	180.00	1	33	705.89	16	0	0.00	0	51	32.58	17	152	2,858.67	2	1	4.05	7	29	4,590.90	19	0	0.00	0	389
Johor	1,407	198.74	427	0	0.00	0	156	1,573.47	5	224	4,662.50	64	0	0.00	0	721	632.62	112	5,542	121,573.02	178	3	50.79	2	317	50,035.61	77	7	7,100.00	10	875
Pahang	2,707	2,351.63	1,238	3	64.00	60	2,278	31,432.12	516	77	759.39	36	0	0.00	0	245	442.86	40	15	135.00	3	0	0.00	0	0	0.00	0	0	0.00	0	1893
Terengganu	1,132	97.10	656	0	0.00	0	863	46,257.04	167	147	2,525.62	64	0	0.00	0	189	76.53	47	793	7,770.00	46	0	0.00	0	0	0.00	0	93	19,515.00	28	1008
Kelantan	1,899	196.41	1,009	0	0.00	0	105	2,455.72	22	50	3,063.01	4	599	165.01	599	169	72.07	51	611	21,181.76	110	0	0.00	0	0	0.00	0	29	1,226.69	12	1807
Sarawak	1,332	104.63	934	0	0.00	0	967	26,839.00	468	0	0.00	0	0	0.00	0	215	58.38	90	940	9,108.00	619	0	0.00	0	0	0.00	0	0	0.00	0	2111
Sabah	13,508	1,355.25	5,525	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	1,290	2,871.23	56	903	16,167.36	205	0	0.00	0	87	1,843.26	87	NA	96,624.00	126	5999
Jumlah/Total:	29,843	5,923.48	13,833	317	1,039.88	261	6,516	140,708.76	1,287	908	49,340.42	260	764	200.71	661	5,533	5,910.21	931	58,499	680,869.92	1,779	302	4,439.50	293	471	67,070.84	232	153	126,078.79	180	19,717

MALAYSIA
ANGGARAN JUMLAH PENGELUARAN IKAN TERNAKAN, KERANG, SIPUT SUDU DAN TIRAM
MENGIKUT NEGERI DAN SISTEM TERNAKAN, 1997
ESTIMATED PRODUCTION OF FISH, COCKLES, MUSSELS, OYSTERS AND CEMENT TANKS
BY STATE AND CULTURE SYSTEM, 1997
(KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

JADUAL (TABLE) 14.1

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	43.93	0.00	2.65	0.00	0.00	46.58	102.02	8.57	0.00	0.00	0.00	110.59	157.17
Kedah	303.46	0.00	0.00	0.50	0.00	303.96	1,224.50	56.07	208.80	25.14	5.87	1,520.38	1,824.34
Pulau Pinang	108.01	0.00	0.00	0.57	0.00	108.58	643.05	1,145.67	12,623.63	10.86	3.02	14,426.23	14,534.81
Perak	1,741.59	2,656.32	89.56	319.37	238.11	5,044.95	1,969.26	1,444.66	33,898.24	127.40	0.00	37,439.56	42,484.51
Selangor	3,266.26	162.19	186.61	630.00	0.00	4,245.06	1,060.25	1,121.12	11,589.37	8.92	0.00	13,779.66	18,024.72
Negeri Sembilan	863.01	25.82	200.57	5.12	0.00	1,094.52	141.77	0.00	0.00	37.18	0.00	178.95	1,273.47
Melaka	593.19	0.00	6.13	2.08	0.00	601.40	134.18	14.39	80.00	75.56	0.00	304.13	905.53
Johor	729.28	0.00	2.82	16.94	0.00	749.04	699.80	1,157.21	0.00	1,465.13	3.64	3,325.78	4,074.82
Pahang	9,022.32	6.25	579.55	1.20	0.00	9,609.32	878.88	0.35	0.00	0.00	0.00	879.23	10,488.55
Terengganu	148.11	0.00	808.23	9.81	0.00	966.15	97.20	11.74	0.00	0.00	41.62	150.56	1,116.71
Kelantan	633.50	0.00	7.02	12.83	1,304.79	1,958.14	116.07	51.60	0.00	0.00	0.28	167.95	2,126.09
Sarawak	153.69	0.00	0.00	0.00	0.00	153.69	417.99	108.20	0.00	0.00	0.00	526.19	679.88
Sabah	6,791.00	0.00	0.00	0.00	0.00	6,791.00	2,900.00	500.00	0.00	29.00	73.00	3,502.00	10,293.00
Jumlah/Total	24,397.35	2,850.58	1,883.14	998.42	1,542.90	31,672.39	10,384.97	5,619.58	58,400.04	1,779.19	127.43	76,311.21	107,983.60

JADUAL (TABLE) 14.2

MALAYSIA
 ANGGARAN NILAI BORONG IKAN TERNAKAN, KERANG, SIPUT SUDU DAN TIRAM
 MENGIKUT NEGERI DAN SISTEM TERNAKAN, 1997
 ESTIMATED WHOLESAL VALUE OF FISH, COCKLES, MUSSELS AND OYSTERS
 BY STATE AND CULTURE SYSTEM, 1997
 (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	170.01	0.00	8.30	0.00	0.00	178.31	1,788.45	102.15	0.00	0.00	0.00	1,890.60	2,068.91
Kedah	1,154.72	0.00	0.00	0.00	1.94	1,156.66	27,790.32	950.02	154.51	30.17	58.70	28,983.72	30,140.38
Pulau Pinang	377.31	0.00	0.00	0.00	1.84	379.15	12,257.94	15,883.30	9,215.25	8.15	40.26	37,404.90	37,784.05
Perak	7,622.59	9,605.46	600.45	945.77	1,275.34	20,049.61	34,818.01	21,276.70	23,050.81	127.40	0.00	79,272.92	99,322.53
Selangor	12,760.68	673.78	915.29	0.00	3,046.17	17,395.92	21,781.51	19,237.89	8,576.13	6.69	0.00	49,602.22	66,998.14
Negeri Sembilan	3,318.01	87.39	701.16	0.00	17.65	4,124.21	3,417.43	0.00	0.00	48.33	0.00	3,465.76	7,589.97
Melaka	2,288.07	0.00	23.81	0.00	7.89	2,319.77	3,216.38	163.33	80.00	60.45	0.00	3,520.16	5,839.93
Johor	4,787.00	0.00	12.27	0.00	60.17	4,859.44	15,119.17	16,072.61	0.00	512.80	82.52	31,787.10	36,646.54
Pahang	121,143.64	23.70	3,305.70	0.00	4.12	124,477.16	17,476.31	4.03	0.00	0.00	0.00	17,480.34	141,957.50
Terengganu	796.61	0.00	4,474.45	0.00	41.96	5,313.02	1,725.49	123.97	0.00	0.00	487.79	2,337.25	7,650.27
Kelantan	3,299.44	0.00	68.01	6,615.55	52.54	10,035.54	2,628.76	498.27	0.00	0.00	2.80	3,129.83	13,165.37
Sarawak	869.44	0.00	0.00	0.00	0.00	869.44	10,418.46	973.80	0.00	0.00	0.00	11,392.26	12,261.70
Sabah	48,501.00	0.00	0.00	0.00	0.00	48,501.00	72,500.00	25,000.00	0.00	116.00	1,496.50	99,112.50	147,613.50
Jumlah/Total	207,088.52	10,390.33	10,109.44	7,561.32	4,509.62	239,659.23	224,938.23	100,286.07	41,076.70	909.99	2,168.57	369,379.56	609,038.79

MALAYSIA
 ANGGARAN NILAI RUNCIT IKAN TERNAKAN, KERANG, SIPUT SUDU DAN TIRAM
 MENGIKUT NEGERI DAN SISTEM TERNAKAN, 1997
 ESTIMATED RETAIL VALUE OF FISH, COCKLES, MUSSELS AND OYSTERS
 BY STATE AND CULTURE SYSTEM, 1997
 (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	241.93	0.00	12.08	0.00	0.00	254.01	2,167.56	133.18	0.00	0.00	0.00	2,300.74	2,554.75
Kedah	1,655.38	0.00	0.00	0.00	2.87	1,658.25	31,869.12	1,104.10	208.80	50.28	88.05	33,320.35	34,978.60
Pulau Pinang	456.64	0.00	0.00	0.00	2.27	458.91	13,518.39	17,871.93	12,497.39	12.81	40.26	43,940.78	44,399.69
Perak	10,822.36	14,062.50	827.32	1,368.28	1,795.88	28,876.34	51,700.38	26,163.89	43,389.75	229.32	0.00	121,483.34	150,359.68
Selangor	18,950.09	928.73	1,171.38	0.00	3,926.08	24,976.28	25,998.50	22,161.03	13,791.35	12.67	0.00	61,963.55	86,939.83
Negeri Sembilan	4,941.61	132.86	1,056.07	0.00	28.62	6,159.16	4,115.27	0.00	0.00	55.77	0.00	4,171.04	10,330.20
Melaka	3,096.38	0.00	31.67	0.00	10.87	3,138.92	3,418.26	187.07	96.00	75.56	0.00	3,776.89	6,915.81
Johor	6,167.42	0.00	16.34	0.00	84.42	6,268.18	17,313.51	18,832.53	0.00	1,084.20	98.28	37,328.52	43,596.70
Pahang	126,014.86	35.13	4,167.13	0.00	6.14	130,223.26	20,982.61	5.08	0.00	0.00	0.00	20,987.69	151,210.95
Terengganu	1058.17	0.00	5,971.04	0.00	61.27	7,090.48	2,021.72	159.80	0.00	0.00	569.36	2,750.88	9,841.36
Kelantan	4,419.72	0.00	84.05	8,627.39	71.97	13,203.13	2,892.65	630.37	0.00	0.00	3.36	3,526.38	16,729.51
Sarawak	1374.61	0.00	0.00	0.00	0.00	1,374.61	1,760.95	1,298.40	0.00	0.00	0.00	3,059.35	4,433.96
Sabah	56,086.00	0.00	0.00	0.00	0.00	56,086.00	87,000.00	27,000.00	0.00	130.50	1,533.00	115,663.50	171,749.50
Jumlah/Total	235,285.17	15,159.22	13,337.08	9,995.67	5,990.39	279,767.53	264,758.92	115,547.38	69,983.29	1,651.11	2,332.31	454,273.01	734,040.54

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KOLAM AIRTAWAR, SANGKAR AIRTAWAR,
 BEKAS LOMBONG, TANGKI SIMEN DAN KANDANG MENGIKUT SPESIS IKAN, 1997
 ESTIMATED FISH PRODUCTION FROM FRESHWATER PONDS, FRESHWATER CAGES,
 EX-MINING POOLS, CEMENT TANKS AND PEN CULTURE BY SPECIES, 1997
 (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	1,426.63	176.71	8.10	16.09	459.43	2,086.96
Lee Koh Common Carp	743.04	186.55	0.06	0.00	58.80	988.45
Kap Rumput Grass Carp	568.10	220.77	7.05	0.00	9.68	805.60
Kap Kepala Besar Big Head Carp	91.25	623.48	0.00	0.00	16.77	731.50
Udang Galah Giant Freshwater Prawn	142.90	0.00	0.00	0.00	0.00	142.90
Tilapia Hitam Black Tilapia	4,196.64	124.88	2.51	0.97	8.17	4,333.17
Tilapia Merah Red Tilapia	4,929.06	949.78	1,170.07	891.23	665.37	8,605.51
Jelawat River Carp	326.79	32.75	11.22	0.00	6.05	376.81
Kell Freshwater Catfish	3,884.99	135.87	0.00	86.29	68.78	4,175.93
Ketutu Goby	36.77	0.00	1.85	0.00	0.00	38.62
Belut Eel	6,620.00	0.00	0.00	0.00	0.00	6,620.00
Patin River Catfish	372.17	31.73	314.55	0.84	118.23	837.52
Toman Giant Snakehead	277.78	0.00	2.06	0.00	0.00	279.84
Baung River Catfish	336.13	26.33	325.43	0.00	95.49	783.38
Peibagal Others	445.10	341.73	40.24	3.00	36.13	866.20
Jumlah Total	24,397.35	2,850.58	1,883.14	998.42	1,542.90	31,672.39

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI KOLAM AIRTAWAR, SANGKAR AIRTAWAR,
 BEKAS LOMBONG, TANGKI SIMEN DAN KANDANG MENGIKUT SPESIS IKAN, 1997
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM FRESHWATER PONDS, FRESHWATER CAGES,
 EX-MINING POOLS, CEMENT TANKS AND PEN CULTURE BY SPECIES, 1997
 (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	7,576.73	728.14	33.10	66.28	2,296.45	10,700.70
Lee Koh Common Carp	5,230.50	806.50	0.34	0.00	308.69	6,346.03
Kap Rumpit Grass Carp	2,481.89	953.97	25.59	0.00	45.55	3,507.00
Kap Kepala Besar Big Head Carp	355.35	1,702.44	0.00	0.00	45.78	2,103.57
Udang Galah Giant Freshwater Prawn	2,801.09	0.00	0.00	0.00	0.00	2,801.09
Tilapia Hitam Black Tilapia	28,688.86	411.16	8.17	3.18	25.90	29,137.27
Tilapia Merah Red Tilapia	23,665.66	3,840.76	4,956.51	4,115.80	3,084.46	39,663.19
Jelawat River Carp	2,479.29	238.38	77.88	0.00	45.70	2,841.25
Keli Freshwater Catfish	13,324.25	502.40	0.00	308.72	272.37	14,407.74
Ketutu Goby	1,412.80	0.00	48.30	0.00	0.00	1,461.10
Belut Eel	111,216.00	0.00	0.00	0.00	0.00	111,216.00
Patin River Catfish	1,803.33	138.98	2,156.99	3.46	551.19	4,653.95
Toman Giant Snakehead	1,584.90	0.00	10.30	0.00	0.00	1,595.20
Baung River Catfish	2,933.87	228.28	2,640.26	0.00	799.42	6,601.83
Pelbagai Others	1,534.00	839.32	152.00	12.18	85.81	2,623.31
Jumlah Total	207,088.52	10,390.33	10,109.44	4,509.62	7,561.32	239,659.23

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI KOLAM AIRTAWAR, SANGKAR AIRTAWAR,
 BEKAS LOMBONG DAN TANGKI SIMEN MENGIKUT SPESIS IKAN, 1997
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM FRESHWATER PONDS, FRESHWATER CAGES,
 EX-MINING POOLS AND CEMENT TANKS BY SPECIES, 1997
 (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	8,514.99	1,010.15	46.54	91.26	3,043.66	12,706.60
Lee Koh Common Carp	6,827.61	1,216.95	0.44	0.00	419.72	8,464.72
Kap Rumput Grass Carp	3,597.46	1,346.01	39.52	0.00	63.63	5,046.62
Kap Kepala Besar Big Head Carp	494.38	2,734.04	0.00	0.00	73.62	3,302.04
Udang Galah Giant Freshwater Prawn	3,394.32	0.00	0.00	0.00	0.00	3,394.32
Tilapia Hitam Black Tilapia	32,952.79	615.46	10.82	4.40	39.87	33,623.34
Tilapia Merah Red Tilapia	32,717.00	5,376.42	6,738.62	5,412.20	3,975.15	54,219.39
Jelawat River Carp	3,213.93	333.47	110.11	0.00	61.59	3,719.10
Keli Freshwater Catfish	20,181.57	736.81	0.00	461.88	378.29	21,758.55
Ketutu Goby	1,647.17	0.00	52.82	0.00	0.00	1,699.99
Belut Eel	111,216.00	0.00	0.00	0.00	0.00	111,216.00
Patin River Catfish	2,368.18	205.15	2,484.61	4.85	776.81	5,839.60
Toman Giant Snakehead	2,075.13	0.00	14.42	0.00	0.00	2,089.55
Baung River Catfish	3,936.39	313.33	3,640.30	0.00	1,033.62	8,923.64
Peibagai Others	2,148.25	1,271.43	198.88	15.80	129.71	3,764.07
Jumlah Total	235,285.17	15,159.22	13,337.08	5,990.39	9,995.67	279,767.53

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KOLAM AIRPAYAU, SANGKAR AIRPAYAU,
 TERNAKAN KERANG, TERNAKAN SIPUT SUDU DAN TERNAKAN TIRAM MENGIKUT SPESIES IKAN 1997
 ESTIMATED FISH PRODUCTION FROM BRACKISHWATER PONDS, BRACKISHWATER CAGES,
 COCKLE CULTURE, MUSSEL CULTURE AND OYSTER CULTURE BY SPECIES, 1997
 (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>	699.17	2,786.37	0.00	0.00	0.00	3,485.54
Kerapu <i>Grouper</i>	0.18	798.42	0.00	0.00	0.00	798.60
Jenahak <i>Mangrove Snapper</i>	0.11	1,369.41	0.00	0.00	0.00	1,369.52
Udang Putih <i>Banana Prawn</i>	139.62	0.00	0.00	0.00	0.00	139.62
Udang Harimau <i>Tiger Prawn</i>	9,374.64	0.00	0.00	0.00	0.00	9,374.64
Ketam <i>Mud Crab</i>	30.93	246.54	0.00	0.00	0.00	277.47
Tilapia Merah <i>Red Tilapia</i>	15.89	5.69	0.00	0.00	0.00	21.58
Merah <i>Red Snapper</i>	0.00	22.11	0.00	0.00	0.00	22.11
Kerang Dewasa <i>Cockles</i>	0.00	0.00	58,400.04	0.00	0.00	58,400.04
Siput Sudu <i>Mussels</i>	0.00	0.00	0.00	1,779.19	0.00	1,779.19
Tiram <i>Oysters</i>	0.00	0.00	0.00	0.00	127.43	127.43
Pelbagai <i>Others</i>	124.43	391.04	0.00	0.00	0.00	515.47
Jumlah <i>Total</i>	10,384.97	5,619.58	58,400.04	1,779.19	127.43	76,311.21

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI KOLAM AIRPAYAU, SANGKAR AIRPAYAU,
 TERNAKAN KERANG, TERNAKAN SIPUT SUDU DAN TERNAKAN TIRAM MENGIKUT SPESIES IKAN 1997
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM BRACKISHWATER PONDS, BRACKISHWATER CAGES,
 COCKLE CULTURE, MUSSEL CULTURE AND OYSTER CULTURE BY SPECIES, 1997
 (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	8,986.04	35,639.00	0.00	0.00	0.00	44,625.04
Kerapu Grouper	4.32	28,398.88	0.00	0.00	0.00	28,403.20
Jenahak Mangrove Snapper	1.51	18,257.78	0.00	0.00	0.00	18,259.29
Udang Putih Banana Prawn	3,539.29	0.00	0.00	0.00	0.00	3,539.29
Udang Harimau Tiger Prawn	210,696.61	0.00	0.00	0.00	0.00	210,696.61
Ketam Mud Crab	275.48	2,991.86	0.00	0.00	0.00	3,267.34
Tilapia Merah Red Tilapia	84.09	31.67	0.00	0.00	0.00	115.76
Merah Red Snapper	0.00	273.72	0.00	0.00	0.00	273.72
Kerang Dewasa Cockles	0.00	0.00	41,076.70	0.00	0.00	41,076.70
Siput Sudu Mussels	0.00	0.00	0.00	909.99	0.00	909.99
Tiram Oysters	0.00	0.00	0.00	0.00	2,168.57	2,168.57
Pelbagai Others	1,350.89	14,693.16	0.00	0.00	0.00	16,044.05
Jumlah Total	224,938.23	100,286.07	41,076.70	909.99	2,168.57	369,379.56

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI KOLAM AIRPAYAU, SANGKAR AIRPAYAU,
 TERNAKAN KERANG, TERNAKAN SIPUT SUDU DAN TERNAKAN TIRAM MENGIKUT SPESIES IKAN 1997
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM BRACKISHWATER PONDS, BRACKISHWATER CAGES,
 COCKLE CULTURE, MUSSEL CULTURE AND OYSTER CULTURE BY SPECIES, 1997
 (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 <i>Barramundi</i>	10,965.82	42,564.37	0.00	0.00	0.00	53,530.19
Kerapu <i>Grouper</i>	4.98	31,856.11	0.00	0.00	0.00	31,861.09
Jenahak <i>Mangrove Snapper</i>	1.79	21,749.61	0.00	0.00	0.00	21,751.40
Udang Putih <i>Banana Prawn</i>	4,117.84	0.00	0.00	0.00	0.00	4,117.84
Udang Harimau <i>Tiger Prawn</i>	247,843.17	0.00	0.00	0.00	0.00	247,843.17
Ketam <i>Mud Crab</i>	367.24	3,763.62	0.00	0.00	0.00	4,130.86
Tilapia Merah <i>Red Tilapia</i>	100.51	37.23	0.00	0.00	0.00	137.74
Merah <i>Red Snapper</i>	0.00	342.71	0.00	0.00	0.00	342.71
Kerang Dewasa <i>Cockles</i>	0.00	0.00	69,983.29	0.00	0.00	69,983.29
Siput Sudu <i>Mussels</i>	0.00	0.00	0.00	1,651.11	0.00	1,651.11
Tiram <i>Oysters</i>	0.00	0.00	0.00	0.00	2,332.31	2,332.31
Pelbagai <i>Others</i>	1,357.57	15,233.73	0.00	0.00	0.00	16,591.30
Jumlah <i>Total</i>	264,758.92	115,547.38	69,983.29	1,651.11	2,332.31	454,273.01

JADUAL(TABLE) 15.1

MALAYSIA
BILANGAN DAN LUAS KOLAM AIRTAWAR YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1997
NUMBER AND AREA OF FRESHWATER PONDS IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1997

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	148	28.65	96	1	0	3	100
Kedah	1,432	200.41	569	16	2	7	594
Pulau Pinang	112	13.74	55	2	5	0	62
Perak	2,339	568.90	1,087	158	10	33	1,288
Selangor	1,639	402.92	361	149	20	70	600
Negeri Sembilan	1,664	299.98	865	167	9	32	1,073
Melaka	523	105.12	264	61	1	1	327
Johor	1,407	198.74	263	139	3	22	427
Pahang	2,707	2,351.63	1,093	117	4	24	1,238
Terengganu	1,132	97.10	647	6	0	3	656
Kelantan	1,899	196.41	996	9	0	4	1,009
Sarawak	1,332	104.63	42	86	0	806	934
Sabah	13,509	1,355.25	103	923	2	4497	5,525
Jumlah/Total:	29,843	5,923.48	6,441	1,834	56	5,502	13,833

JADUAL (TABLE) 15.2

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KOLAM AIRTAWAR
 MENGIKUT NEGERI DAN SPESIS IKAN, 1997
 ESTIMATED FISH PRODUCTION FROM FRESHWATER PONDS
 BY STATE AND SPECIES, 1997
 (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 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	0.09	0.80	0.00	0.00	2.47	9.53	6.19	0.97	17.08	0.00	0.00	0.00	0.00	0.00	6.80	43.93
Kedah	36.01	11.32	2.06	0.03	0.35	13.54	50.93	3.10	174.17	0.00	0.00	0.00	0.00	0.00	11.95	303.46
Pulau Pinang	20.04	0.00	0.00	0.00	0.00	0.00	20.90	2.73	64.34	0.00	0.00	0.00	0.00	0.00	0.00	108.01
Perak	173.60	50.10	278.70	50.59	35.33	36.22	391.70	38.09	532.30	0.35	0.00	0.00	0.00	52.90	101.71	1,741.59
Selangor	31.48	11.53	65.92	0.08	0.00	32.64	229.09	52.57	2,320.72	0.22	0.00	110.00	0.00	217.12	194.89	3,266.26
Negeri Sembilan	51.14	9.15	78.27	1.03	16.59	9.56	606.97	24.72	53.36	0.00	0.00	0.00	0.00	0.00	12.22	863.01
Melaka	7.41	0.63	9.75	0.99	9.76	28.60	40.29	8.34	411.15	1.23	0.00	75.04	0.00	0.00	0.00	593.19
Johor	2.05	1.10	2.05	0.87	13.63	5.38	103.26	0.00	264.20	33.52	0.00	26.75	217.78	40.02	18.67	729.28
Pahang	74.90	26.48	73.68	11.30	60.00	15.98	1,969.69	19.21	8.79	0.00	6,620.00	56.92	60.00	8.96	16.41	9,022.32
Terengganu	8.18	4.98	4.34	0.81	4.71	18.07	53.38	6.69	9.24	0.13	0.00	17.17	0.00	17.13	3.28	148.11
Kelantan	96.35	32.31	20.33	2.55	0.00	27.12	249.71	112.40	29.64	1.32	0.00	17.60	0.00	0.00	44.17	633.50
Sarawak	25.38	44.64	0.00	0.00	0.06	0.00	6.95	38.97	0.00	0.00	0.00	37.69	0.00	0.00	0.00	153.69
Sabah	900.00	550.00	33.00	23.00	0.00	4,000.00	1,200.00	19.00	0.00	0.00	0.00	31.00	0.00	0.00	35.00	6,791.00
Jumlah/Total:	1,426.63	743.04	568.10	91.25	142.90	4,196.64	4,929.06	326.79	3,884.99	36.77	6,620.00	372.17	277.78	336.13	445.10	24,397.35

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, 1997
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM FRESHWATER PONDS
 BY STATE AND SPECIES, 1997
 (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	0.27	2.40	0.00	0.00	40.14	29.83	19.37	5.82	50.90	0.00	0.00	0.00	0.00	0.00	21.28	170.01
Kedah	109.47	42.45	6.18	0.09	5.59	44.01	201.68	27.13	682.75	0.00	0.00	0.00	0.00	0.00	35.37	1,154.72
Pulau Pinang	65.53	0.00	0.00	0.00	0.00	0.00	67.93	37.32	206.53	0.00	0.00	0.00	0.00	0.00	0.00	377.31
Perak	715.23	216.93	1,206.77	138.11	704.48	114.82	1,566.80	273.49	1,974.83	13.47	0.00	0.00	0.00	458.64	239.02	7,622.59
Selangor	130.01	46.00	310.48	0.22	0.00	117.50	1,127.12	427.39	7,681.58	9.39	0.00	400.40	0.00	1,869.40	641.19	12,760.68
Negeri Sembilan	176.43	31.11	262.20	2.68	350.05	26.16	2,094.05	138.43	181.42	0.00	0.00	0.00	0.00	0.00	55.48	3,318.01
Melaka	28.16	2.61	33.15	2.28	160.06	100.67	175.26	44.54	1,459.58	34.13	0.00	247.63	0.00	0.00	0.00	2,288.07
Johor	7.22	3.77	7.52	2.61	264.01	17.32	451.25	0.00	903.56	1,318.68	0.00	84.26	1,284.90	367.78	74.12	4,787.00
Pahang	299.60	105.92	294.72	33.90	1,200.00	47.94	6,893.91	153.68	26.37	0.00	111,216.00	398.44	300.00	107.52	65.64	121,143.64
Terengganu	32.31	18.52	16.97	3.09	75.74	75.35	244.48	53.12	39.36	3.60	0.00	94.95	0.00	130.53	8.59	796.61
Kelantan	485.60	182.23	13.90	11.37	0.00	115.26	1,178.63	893.58	117.37	33.53	0.00	84.66	0.00	0.00	183.31	3,299.44
Sarawak	126.90	178.56	0.00	0.00	1.02	0.00	45.18	272.79	0.00	0.00	0.00	244.99	0.00	0.00	0.00	869.44
Sabah	5,400.00	4,400.00	330.00	161.00	0.00	28,000.00	9,600.00	152.00	0.00	0.00	0.00	248.00	0.00	0.00	210.00	48,501.00
Jumlah/Total:	7,576.73	5,230.50	2,481.89	355.35	2,801.09	28,688.86	23,665.66	2,479.29	13,324.25	1,412.80	111,216.00	1,803.33	1,584.90	2,933.87	1,534.00	207,088.52

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, 1997
ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM FRESHWATER PONDS
BY STATE AND SPECIES, 1997
(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 Snake Head	Baung River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.41	3.60	0.00	0.00	49.20	42.89	27.86	7.37	79.59	0.00	0.00	0.00	0.00	0.00	31.01	241.93
Kedah	162.05	65.54	9.43	0.14	6.40	62.01	254.65	37.45	1,015.41	0.00	0.00	0.00	0.00	0.00	42.30	1,655.38
Pulau Pinang	80.56	0.00	0.00	0.00	0.00	0.00	85.90	37.32	252.86	0.00	0.00	0.00	0.00	0.00	0.00	456.64
Perak	984.31	326.65	1,702.83	222.09	916.81	176.75	2,205.27	388.52	2,890.39	17.14	0.00	0.00	0.00	629.51	362.09	10,822.36
Selangor	199.90	77.60	403.43	0.29	0.00	164.83	1,440.98	527.28	12,067.74	11.95	0.00	570.90	0.00	2,499.05	986.14	18,950.09
Negeri Sembilan	276.16	50.78	407.00	4.38	414.75	41.39	3,156.24	218.77	298.82	0.00	0.00	0.00	0.00	0.00	73.32	4,941.61
Melaka	38.16	3.62	43.88	3.07	211.30	124.41	239.76	56.55	2,014.64	45.82	0.00	315.17	0.00	0.00	0.00	3,096.38
Johor	10.02	5.34	10.25	4.64	320.44	23.89	596.84	0.00	1,297.22	1,528.18	0.00	130.54	1,655.13	490.65	94.28	6,167.42
Pahang	449.40	172.12	515.76	56.50	1,380.00	63.92	10,833.30	192.10	43.95	0.00	111,216.00	455.36	420.00	134.40	82.05	126,014.86
Terengganu	42.95	26.15	22.61	4.58	94.34	99.20	313.87	64.89	57.93	4.24	0.00	130.66	0.00	182.78	13.97	1,058.17
Kelantan	642.65	239.09	152.27	14.69	0.00	153.50	1,503.25	1,141.98	163.02	39.84	0.00	116.34	0.00	0.00	253.09	4,419.72
Sarawak	228.42	357.12	0.00	0.00	1.08	0.00	59.08	389.70	0.00	0.00	0.00	339.21	0.00	0.00	0.00	1,374.61
Sabah	5,400.00	5,500.00	330.00	184.00	0.00	32,000.00	12,000.00	152.00	0.00	0.00	0.00	310.00	0.00	0.00	210.00	56,086.00
Jumlah/Total:	8,514.99	6,827.61	3,597.46	494.38	3,394.32	32,952.79	32,717.00	3,213.93	20,181.57	1,647.17	111,216.00	2,368.18	2,075.13	3,936.39	2,148.25	235,285.17

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

MALAYSIA
BILANGAN DAN LUAS BEKAS LOMBONG YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1997
NUMBER AND AREA OF EX-MINING POOLS IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1997

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	197	766.27	40	92	0	7	139
Selangor	106	192.46	33	14	1	4	52
Negeri Sembilan	11	17.15	0	9	0	1	10
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:	317	1,039.88	133	115	1	12	261

MALAYSIA
ANGGARAN PENGELUARAN IKAN DARI BEKAS LOMBONG
MENGIKUT NEGERI DAN SPESIS IKAN, 1997
ESTIMATED FISH PRODUCTION FROM EX-MINING POOLS
BY STATE AND FISH SPECIES, 1997
(KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri <i>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>	Patin <i>River Catfish</i>	Tilapia Hitam <i>Black Tilapia</i>	Tilapia Merah <i>Red Tilapia</i>	Jelawat <i>River Carp</i>	Keli <i>Freshwater Catfish</i>	Baung <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	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	164.54	182.81	208.34	615.39	30.89	89.32	872.56	29.33	131.76	26.33	305.05	2,656.32
Selangor	11.97	3.09	6.99	5.01	0.84	35.56	57.22	3.32	4.01	0.00	34.18	162.19
Negeri Sembilan	0.00	0.00	4.34	1.48	0.00	0.00	20.00	0.00	0.00	0.00	0.00	25.82
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	0.20	0.65	1.10	1.60	0.00	0.00	0.00	0.10	0.10	0.00	2.50	6.25
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	176.71	186.55	220.77	623.48	31.73	124.88	949.78	32.75	135.87	26.33	341.73	2,850.58

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

JADUAL (TABLE)16.3

MALAYSIA
ANGGARAN NILAI BORONG PENGELUARAN DARI IKAN BEKAS LOMBONG
MENGIKUT NEGERI DAN SPESIS IKAN, 1997
ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM EX-MINING POOLS
BY STATE AND FISH SPECIES, 1997
(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 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	677.90	791.57	902.11	1,680.01	228.28	283.14	3,490.24	210.59	488.83	135.92	716.87	9,605.46
Selangor	49.44	12.33	32.92	13.78	0.00	128.02	281.52	26.99	13.27	3.06	112.45	673.78
Negeri Sembilan	0.00	0.00	14.54	3.85	0.00	0.00	69.00	0.00	0.00	0.00	0.00	87.39
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	0.80	2.60	4.40	4.80	0.00	0.00	0.00	0.80	0.30	0.00	10.00	23.70
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:	728.14	806.50	953.97	1,702.44	228.28	411.16	3,840.76	238.38	502.40	138.98	839.32	10,390.33

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

JADUAL (TABLE)16.4

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI BEKAS LOMBONG
 MENGIKUT NEGERI DAN SPESIS IKAN, 1997
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM EX-MINING POOLS
 BY STATE AND FISH SPECIES, 1997
 (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	932.94	1,191.92	1,272.96	2,701.56	313.33	435.88	4,912.51	299.17	715.46	200.79	1,085.98	14,062.50
Selangor	76.01	20.80	42.78	18.19	0.00	179.58	359.91	33.30	20.85	4.36	172.95	928.73
Negeri Sembilan	0.00	0.00	22.57	6.29	0.00	0.00	104.00	0.00	0.00	0.00	0.00	132.86
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	1.20	4.23	7.70	8.00	0.00	0.00	0.00	1.00	0.50	0.00	12.50	35.13
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:	1,010.15	1,216.95	1,346.01	2,734.04	313.33	615.46	5,376.42	333.47	736.81	205.15	1,271.43	15,159.22

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,1997
NUMBER AND AREA OF FRESHWATER CAGES IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1997

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	40	396.00	5	0	0	2	7
Kedah	0	0.00	0	0	0	0	0
Pulau Pinang	0	0.00	0	0	0	0	0
Perak	787	9,445.00	69	1	0	10	80
Selangor	637	12,223.46	8	4	0	1	13
Negeri Sembilan	672	9,906.95	0	5	0	3	8
Melaka	11	180.00	0	1	0	0	1
Johor	156	1,573.47	2	0	0	3	5
Pahang	2,278	31,432.12	408	15	0	93	516
Terengganu	863	46,257.04	163	3	0	1	167
Kelantan	105	2,455.72	22	0	0	0	22
Sarawak	967	26,839.00	0	0	0	468	468
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	6,516	140,708.76	677	29	0	581	1,287

JADUAL (TABLE) 17.2

MALAYSIA
ANGGARAN PENGELUARAN IKAN DARI SANGKAR AIRTAWAR
MENGIKUT NEGERI DAN SPESIS IKAN, 1997
ESTIMATED FISH PRODUCTION FROM FRESHWATER CAGES
BY STATE AND FISH SPECIES, 1997
(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	0.00	0.21	0.00	0.00	0.00	0.00	2.44	2.65
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	0.00	0.00	0.00
Perak	5.90	0.00	1.36	0.00	0.10	0.00	18.26	6.26	3.03	0.00	48.52	6.13	89.56
Selangor	0.00	0.00	0.00	0.00	0.00	0.00	184.44	0.00	2.05	0.00	0.00	0.12	186.61
Negeri Sembilan	0.00	0.00	4.70	0.00	0.00	0.00	187.00	2.80	2.07	0.00	0.00	4.00	200.57
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	2.11	0.00	3.22	0.00	0.00	0.80	6.13
Johor	0.00	0.00	0.00	0.00	0.00	0.00	2.42	0.00	0.20	0.00	0.05	0.15	2.82
Pahang	2.05	0.00	0.90	0.00	0.00	2.00	224.31	1.68	297.65	2.06	24.99	23.91	579.55
Terengganu	0.15	0.00	0.09	0.00	0.00	0.42	548.99	0.43	6.28	0.00	251.87	0.00	808.23
Kelantan	0.00	0.06	0.00	0.00	1.75	0.09	2.33	0.05	0.05	0.00	0.00	2.69	7.02
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	8.10	0.06	7.05	0.00	1.85	2.51	1,170.07	11.22	314.55	2.06	325.43	40.24	1,883.14

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

JADUAL (TABLE) 17.3

MALAYSIA
ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI SANGKAR AIRTAWAR
MENGIKUT NEGERI DAN SPESIS, 1997
ESTIMATED WHOLESALE VALUE FISH PRODUCTION FROM FRESHWATER CAGES
BY STATE AND FISH SPECIES, 1997
(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	0.00	0.66	0.00	0.00	0.00	0.00	7.64	8.30
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	0.00	0.00	0.00
Perak	24.31	0.00	5.89	0.00	3.85	0.00	73.04	44.95	13.33	0.00	420.67	14.41	600.45
Selangor	0.00	0.00	0.00	0.00	0.00	0.00	907.44	0.00	7.46	0.00	0.00	0.39	915.29
Negeri Sembilan	0.00	0.00	15.75	0.00	0.00	0.00	645.15	15.68	6.42	0.00	0.00	18.16	701.16
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	9.18	0.00	10.63	0.00	0.00	4.00	23.81
Johor	0.00	0.00	0.00	0.00	0.00	0.00	10.58	0.00	0.63	0.00	0.46	0.60	12.27
Pahang	8.20	0.00	3.60	0.00	0.00	6.00	785.09	13.44	2,083.55	10.30	299.88	95.64	3,305.70
Terengganu	0.59	0.00	0.35	0.00	0.00	1.75	2,514.37	3.41	34.73	0.00	1,919.25	0.00	4,474.45
Kelantan	0.00	0.34	0.00	0.00	44.45	0.42	11.00	0.40	0.24	0.00	0.00	11.16	68.01
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	33.10	0.34	25.59	0.00	48.30	8.17	4,956.51	77.88	2,156.99	10.30	2,640.26	152.00	10,109.44

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

JADUAL (TABLE) 17.4

MALAYSIA
ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI SANGKAR AIRTAWAR
MENGIKUT NEGERI DAN SPESIS IKAN, 1997
ESTIMATED RETAIL VALUE FISH PRODUCTION FROM FRESHWATER CAGES
BY STATE AND FISH SPECIES, 1997
(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	0.00	0.95	0.00	0.00	0.00	0.00	11.13	12.08
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	0.00	0.00	0.00
Perak	33.45	0.00	8.31	0.00	0.00	0.00	102.80	63.85	19.70	0.00	577.39	21.82	827.32
Selangor	0.00	0.00	0.00	0.00	0.00	0.00	1,160.13	0.00	10.64	0.00	0.00	0.61	1,171.38
Negeri Sembilan	0.00	0.00	24.44	0.00	0.00	0.00	972.40	24.78	10.45	0.00	0.00	24.00	1,056.07
Melaka	0.00	0.00	0.00	0.00	0.00	0.00	12.55	0.00	13.52	0.00	0.00	5.60	31.67
Johor	0.00	0.00	0.00	0.00	0.00	0.00	13.99	0.00	0.98	0.00	0.61	0.76	16.34
Pahang	12.30	0.00	6.30	0.00	0.00	8.00	1,233.71	16.80	2,381.20	14.42	374.85	119.55	4,167.13
Terengganu	0.79	0.00	0.47	0.00	0.00	2.31	3,228.06	4.17	47.79	0.00	2,687.45	0.00	5,971.04
Kelantan	0.00	0.44	0.00	0.00	52.82	0.51	14.03	0.51	0.33	0.00	0.00	15.41	84.05
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	46.54	0.44	39.52	0.00	52.82	10.82	6,738.62	110.11	2,484.61	14.42	3,640.30	198.88	13,337.08

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, 1997
NUMBER AND AREA OF CEMENT TANKS IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1997

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	24	470.62	8	0	0	0	8
Pulau Pinang	16	240.00	2	0	0	0	2
Perak	48	9,941.70	9	1	0	0	10
Selangor	90	15,787.34	15	6	0	0	21
Negeri Sembilan	199	11,184.35	31	1	0	3	35
Melaka	33	705.89	16	0	0	0	16
Johor	224	4,662.50	64	0	0	0	64
Pahang	77	759.39	36	0	0	0	36
Terengganu	147	2,525.62	64	0	0	0	64
Kelantan	50	3,063.01	4	0	0	0	4
Sarawak	0	0.00	0	0	0	0	0
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	908	49,340.42	249	8	0	3	260

MALAYSIA
ANGGARAN PENGELUARAN IKAN DARI TANGKI SIMEN
MENGIKUT NEGERI DAN SPESIES IKAN,1997
ESTIMATED FISH PRODUCTION OF FISH FROM CEMENT TANK
BY STATE AND FISH SPECIES,1997
(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	0.48	0.00	0.00	0.00	0.00	0.02	0.50
Pulau Pinang	0.37	0.20	0.00	0.00	0.00	0.00	0.57
Perak	13.88	289.47	0.00	0.00	16.00	0.02	319.37
Selangor	32.68	596.69	0.13	0.50	0.00	0.00	630.00
Negeri Sembilan	4.58	0.34	0.00	0.00	0.00	0.20	5.12
Melaka	1.44	0.64	0.00	0.00	0.00	0.00	2.08
Johor	12.91	1.62	0.83	0.00	0.00	1.58	16.94
Pahang	0.64	0.09	0.00	0.00	0.09	0.38	1.20
Terengganu	9.24	0.56	0.01	0.00	0.00	0.00	9.81
Kelantan	10.07	1.62	0.00	0.34	0.00	0.80	12.83
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:	86.29	891.23	0.97	0.84	16.09	3.00	998.42

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,1997
ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM CEMENT TANKS
BY STATE AND FISH SPECIES,1997
(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	1.88	0.00	0.00	0.00	0.00	0.06	1.94
Pulau Pinang	1.19	0.65	0.00	0.00	0.00	0.00	1.84
Perak	51.49	1,157.88	0.00	65.92	0.00	0.05	1,275.34
Selangor	108.17	2,935.71	0.47	0.00	1.82	0.00	3,046.17
Negeri Sembilan	15.57	1.17	0.00	0.00	0.00	0.91	17.65
Melaka	5.11	2.78	0.00	0.00	0.00	0.00	7.89
Johor	44.15	7.08	2.67	0.00	0.00	6.27	60.17
Pahang	1.92	0.32	0.00	0.36	0.00	1.52	4.12
Terengganu	39.36	2.56	0.04	0.00	0.00	0.00	41.96
Kelantan	39.88	7.65	0.00	0.00	1.64	3.37	52.54
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:	308.72	4,115.80	3.18	66.28	3.46	12.18	4,509.62

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, 1997
ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM CEMENT TANKS
BY STATE AND FISH SPECIES, 1997
(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	2.80	0.00	0.00	0.00	0.00	0.07	2.87
Pulau Pinang	1.45	0.82	0.00	0.00	0.00	0.00	2.27
Perak	75.37	1,629.72	0.00	90.72	0.00	0.07	1,795.88
Selangor	169.64	3,753.18	0.66	0.00	2.60	0.00	3,926.08
Negeri Sembilan	25.65	1.77	0.00	0.00	0.00	1.20	28.62
Melaka	7.06	3.81	0.00	0.00	0.00	0.00	10.87
Johor	63.39	9.36	3.69	0.00	0.00	7.98	84.42
Pahang	3.20	0.50	0.00	0.54	0.00	1.90	6.14
Terengganu	57.93	3.29	0.05	0.00	0.00	0.00	61.27
Kelantan	55.39	9.75	0.00	0.00	2.25	4.58	71.97
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:	461.88	5,412.20	4.40	91.26	4.85	15.80	5,990.39

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, 1997
NUMBER AND AREA OF PEN CULTURE IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1997

Negeri State	Kandang Ikan Pen culture		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	165	35.70	62	0	0	0	62
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	0	0.00	0	0	0	0	0
Kelantan	599	165.01	599	0	0	0	599
Sarawak	0	0.00	0	0	0	0	0
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	764	200.71	661	0	0	0	661

JADUAL (TABLE) 19.2

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KANDANG AIRTAWAR
 MENGIKUT NEGERI DAN SPESIES IKAN, 1997
 ESTIMATED FISH PRODUCTION FROM FRESHWATER PEN CULTURE
 BY STATE AND FISH SPECIES, 1997
 (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	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	0.00	0.00	0.00
Perak	20.74	17.50	6.43	16.77	0.00	8.17	77.90	3.11	0.00	0.00	42.68	0.00	9.18	35.63	238.11
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	438.69	41.30	3.25	0.00	0.00	0.00	587.47	2.94	68.78	0.00	75.55	0.00	86.31	0.50	1,304.79
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	459.43	58.80	9.68	16.77	0.00	8.17	665.37	6.05	68.78	0.00	118.23	0.00	95.49	36.13	1,542.90

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, 1997
 ESTIMATED WHOLESALE VALUE FISH PRODUCTION FROM FRESHWATER PEN CULTURE
 BY STATE AND FISH SPECIES, 1997
 (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	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	0.00	0.00	0.00
Perak	85.45	75.76	27.84	45.78	0.00	0.00	25.90	311.60	22.33	0.00	187.79	0.00	79.59	83.73	945.77
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	2,211.00	232.93	17.71	0.00	0.00	0.00	0.00	2,772.86	23.37	272.37	363.40	0.00	719.83	2.08	6,615.55
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	2,296.45	308.69	45.55	45.78	0.00	0.00	25.90	3,084.46	45.70	272.37	551.19	0.00	799.42	85.81	7,561.32

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

JADUAL (TABLE) 19.4

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI KANDANG AIRTAWAR
 MENGIKUT NEGERI DAN SPESIS IKAN, 1997
 ESTIMATED RETAIL VALUE FISH PRODUCTION FROM FRESHWATER PEN CULTURE
 BY STATE AND FISH SPECIES, 1997
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumpot 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	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	0.00	0.00	0.00
Perak	117.60	114.10	39.29	73.62	0.00	0.00	39.87	438.58	31.72	0.00	277.42	0.00	109.24	126.84	1,368.28
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	2,926.06	305.62	24.34	0.00	0.00	0.00	0.00	3,536.57	29.87	378.29	499.39	0.00	924.38	2.87	8,627.39
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	3,043.66	419.72	63.63	73.62	0.00	0.00	39.87	3,975.15	61.59	378.29	776.81	0.00	1,033.62	129.71	9,995.67

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, 1997
NUMBER AND AREA OF BRACKISHWATER PONDS IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1997

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	878	656.72	81	25	1	33	140
Pulau Pinang	184	137.32	50	43	0	21	114
Perak	755	470.80	44	38	0	37	119
Selangor	714	370.49	77	31	0	24	132
Negeri Sembilan	70	52.90	1	0	0	4	5
Melaka	51	32.56	11	1	0	5	17
Johor	721	632.62	40	55	0	17	112
Pahang	245	442.86	33	4	0	3	40
Terengganu	189	76.53	44	0	0	3	47
Kelantan	169	72.07	46	3	0	2	51
Sarawak	215	58.38	75	12	0	3	90
Sabah	1,290	2,871.23	56	0	0	0	56
Jumlah/Total:	5,533	5,910.21	561	215	1	154	931

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KOLAM AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIS IKAN, 1997
 ESTIMATED FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS
 BY STATE AND FISH SPECIES, 1997
 (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	0.23	0.00	0.00	2.49	99.10	0.00	0.20	0.00	102.02
Kedah	10.51	0.00	0.00	0.00	1,213.99	0.00	0.00	0.00	1,224.50
Pulau Pinang	119.90	0.00	0.00	0.00	401.60	0.00	0.65	120.90	643.05
Perak	282.10	0.00	0.00	0.00	1,681.74	5.42	0.00	0.00	1,969.26
Selangor	146.94	0.08	0.11	0.00	905.97	7.00	0.05	0.10	1,060.25
Negeri Sembilan	0.87	0.00	0.00	5.00	135.90	0.00	0.00	0.00	141.77
Melaka	2.14	0.00	0.00	0.00	130.43	0.00	1.03	0.58	134.18
Johor	61.68	0.10	0.00	132.07	498.58	5.17	0.00	2.20	699.80
Pahang	9.22	0.00	0.00	0.00	867.75	1.91	0.00	0.00	878.88
Terengganu	13.11	0.00	0.00	0.00	82.36	0.30	1.43	0.00	97.20
Kelantan	8.36	0.00	0.00	0.06	103.79	0.03	3.83	0.00	116.07
Sarawak	44.11	0.00	0.00	0.00	353.43	11.10	8.70	0.65	417.99
Sabah	0.00	0.00	0.00	0.00	2,900.00	0.00	0.00	0.00	2,900.00
Jumlah/Total	699.17	0.18	0.11	139.62	9,374.64	30.93	15.89	124.43	10,384.97

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) 20.3

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI KOLAM AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIES IKAN, 1997
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS
 BY STATE AND FISH SPECIES, 1997
 (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	2.29	0.00	0.00	19.92	1,764.97	0.00	1.27	0.00	1,788.45
Kedah	123.49	0.00	0.00	0.00	27,666.83	0.00	0.00	0.00	27,790.32
Pulau Pinang	1,535.92	0.00	0.00	0.00	9,409.49	0.00	3.18	1,309.35	12,257.94
Perak	3,955.04	0.00	0.00	0.00	30,796.47	66.50	0.00	0.00	34,818.01
Selangor	1,791.20	1.64	1.51	0.00	19,913.22	70.07	0.26	3.61	21,781.51
Negeri Sembilan	8.87	0.00	0.00	153.75	3,254.81	0.00	0.00	0.00	3,417.43
Melaka	24.29	0.00	0.00	0.00	3,182.49	0.00	6.70	2.90	3,216.38
Johor	824.04	2.68	0.00	3,363.82	10,854.09	43.74	0.00	30.80	15,119.17
Pahang	106.03	0.00	0.00	0.00	17,355.00	15.28	0.00	0.00	17,476.31
Terengganu	135.03	0.00	0.00	0.00	1,582.14	2.01	6.31	0.00	1,725.49
Kelantan	82.85	0.00	0.00	1.80	2,521.06	0.18	22.87	0.00	2,628.76
Sarawak	396.99	0.00	0.00	0.00	9,896.04	77.70	43.50	4.23	10,418.46
Sabah	0.00	0.00	0.00	0.00	72,500.00	0.00	0.00	0.00	72,500.00
Jumlah/Total	8,986.04	4.32	1.51	3,539.29	210,696.61	275.48	84.09	1,350.89	224,938.23

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, 1997
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS
 BY STATE AND FISH SPECIES, 1997
 (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	2.80	0.00	0.00	36.73	2,126.69	0.00	1.34	0.00	2,167.56
Kedah	147.56	0.00	0.00	0.00	31,721.56	0.00	0.00	0.00	31,869.12
Pulau Pinang	1,748.14	0.00	0.00	0.00	10,457.66	0.00	3.24	1,309.35	13,518.39
Perak	4,948.03	0.00	0.00	0.00	46,668.29	84.06	0.00	0.00	51,700.38
Selangor	2,164.43	1.93	1.79	0.00	23,736.41	89.81	0.33	3.80	25,998.50
Negeri Sembilan	10.92	0.00	0.00	163.25	3,941.10	0.00	0.00	0.00	4,115.27
Melaka	27.82	0.00	0.00	0.00	3,378.14	0.00	8.24	4.06	3,418.26
Johor	973.31	3.05	0.00	3,915.88	12,329.88	56.56	0.00	34.83	17,313.51
Pahang	133.69	0.00	0.00	0.00	20,826.00	22.92	0.00	0.00	20,982.61
Terengganu	174.63	0.00	0.00	0.00	1,835.80	2.67	8.62	0.00	2,021.72
Kelantan	105.17	0.00	0.00	1.98	2,758.74	0.22	26.54	0.00	2,892.65
Sarawak	529.32	0.00	0.00	0.00	1,062.90	111.00	52.20	5.53	1,760.95
Sabah	0.00	0.00	0.00	0.00	87,000.00	0.00	0.00	0.00	87,000.00
Jumlah/Total	10,965.82	4.98	1.79	4,117.84	247,843.17	367.24	100.51	1,357.57	264,758.92

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,1997
NUMBER AND AREA OF BRACKISHWATER CAGES IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1997

Negeri State	Sangkar Airpayau Brackishwater Cages		Bilangan Penternak No. Of Culturists				
	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	2,390	25,382.57	85	18	0	2	105
Pulau Pinang	23,936	210,366.00	92	154	3	6	255
Perak	16,638	154,754.00	38	181	1	3	223
Selangor	6,479	111,523.54	1	30	0	0	31
Negeri Sembilan	0	0.00	0	0	0	0	0
Melaka	152	2,658.67	0	1	0	1	2
Johor	5,542	121,573.02	79	96	1	2	178
Pahang	15	135.00	3	0	0	0	3
Terengganu	793	7,770.00	46	0	0	0	46
Kelantan	611	21,181.76	110	0	0	0	110
Sarawak	940	9,108.00	618	0	0	1	619
Sabah	903	16,167.36	205	0	0	0	205
Jumlah/Total:	58,499	680,869.92	1,277	482	5	15	1,779

JADUAL (TABLE) 21.2

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI SANGKAR AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIS IKAN, 1997
 ESTIMATED FISH PRODUCTION FROM BRACKISHWATER/MARINE CAGES
 BY STATE AND FISH SPECIES, 1997
 (KUANTITI DALAM TAN METRIK/QUANTITY IN TONNES)

Negeri <i>State</i>	Siakap <i>Barramundi</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>	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	8.57	0.00	0.00	8.57
Kedah	26.13	16.49	4.38	0.00	0.00	0.00	0.00	0.00	9.07	56.07
Pulau Pinang	968.61	51.16	114.75	0.00	0.00	0.00	10.40	0.00	0.75	1,145.67
Perak	610.45	82.02	511.15	22.11	0.00	0.00	218.93	0.00	0.00	1,444.66
Selangor	608.58	159.93	179.27	0.00	0.00	0.00	6.06	0.00	167.28	1,121.12
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	14.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.39
Johor	389.92	88.54	559.86	0.00	0.00	0.00	2.58	2.37	113.94	1,157.21
Pahang	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35
Terengganu	11.46	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.74
Kelantan	48.28	0.00	0.00	0.00	0.00	0.00	0.00	3.32	0.00	51.60
Sarawak	108.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108.20
Sabah	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	500.00
Jumlah/Total	2,786.37	798.42	1,369.41	22.11	0.00	0.00	246.54	5.69	391.04	5,619.58

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

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

JADUAL (TABLE) 21.3

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN IKAN DARI SANGKAR AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIES IKAN, 1997
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM BRACKISWATER/MARINE CAGES
 BY STATE AND FISH SPECIES, 1997
 (NILAI DALAM RM'000/VALUE IN RM'000)

Negeri State	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Merah Red Snapper	Udang Putih Banana Prawn	Udang Harimau Tiger Prawn	Ketam Mud Crab	Tilapia Merah Red Tilapia	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	102.15	0.00	0.00	102.15
Kedah	307.03	524.88	63.69	0.00	0.00	0.00	0.00	0.00	54.42	950.02
Pulau Pinang	12,407.89	1,546.57	1,799.77	0.00	0.00	0.00	120.95	0.00	8.12	15,883.30
Perak	8,558.51	2,678.77	7,079.43	273.72	0.00	0.00	2,686.27	0.00	0.00	21,276.70
Selangor	7,418.59	3,268.97	2,454.21	0.00	0.00	0.00	60.66	0.00	6,035.46	19,237.89
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	163.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	163.33
Johor	5,209.33	2,373.76	6,860.68	0.00	0.00	0.00	21.83	11.85	1,595.16	16,072.61
Pahang	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.03
Terengganu	118.04	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	123.97
Kelantan	478.45	0.00	0.00	0.00	0.00	0.00	0.00	19.82	0.00	498.27
Sarawak	973.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	973.80
Sabah	0.00	18,000.00	0.00	0.00	0.00	0.00	0.00	0.00	7,000.00	25,000.00
Jumlah/Total	35,639.00	28,398.88	18,257.78	273.72	0.00	0.00	2,991.86	31.67	14,693.16	100,286.07

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

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

JADUAL (TABLE) 21.4

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN IKAN DARI SANGKAR AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIS IKAN, 1997
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE CAGES
 BY STATE AND FISH SPECIES, 1997
 (NILAI DALAM RM '000/VALUE IN RM '000)

Negeri State	Siakap <i>Barramundi</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>	Tilapia <i>Merah Red Tilapia</i>	Pelbagai <i>Miscellaneous</i>	Jumlah <i>Total</i>
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	133.18	0.00	0.00	133.18
Kedah	366.87	576.49	95.44	0.00	0.00	0.00	0.00	0.00	65.30	1,104.10
Pulau Pinang	14,122.33	1,641.21	1,971.41	0.00	0.00	0.00	128.86	0.00	8.12	17,871.93
Perak	10,707.29	3,079.85	8,638.44	342.71	0.00	0.00	3,395.60	0.00	0.00	26,163.89
Selangor	8,964.38	3,852.71	2,909.55	0.00	0.00	0.00	77.75	0.00	6,356.64	22,161.03
Negeri Sembilan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melaka	187.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	187.07
Johor	6,152.94	2,698.70	8,134.77	0.00	0.00	0.00	28.23	14.22	1,803.67	18,832.53
Pahang	5.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.08
Terengganu	152.65	7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	159.80
Kelantan	607.36	0.00	0.00	0.00	0.00	0.00	0.00	23.01	0.00	630.37
Sarawak	1,298.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,298.40
Sabah	0.00	20,000.00	0.00	0.00	0.00	0.00	0.00	0.00	7,000.00	27,000.00
Jumlah/Total	42,564.37	31,856.11	21,749.61	342.71	0.00	0.00	3,763.62	37.23	15,233.73	115,547.38

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, 1997
NUMBER AND AREA OF COCKLE CULTURE AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1997

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	1	17.98	1	0	0	0	1
Pulau Pinang	63	768.01	2	27	0	22	51
Perak	216	2,890.60	33	151	0	30	214
Selangor	18	708.07	11	1	0	6	18
Negeri Sembilan	0	0.00	0	0	0	0	0
Melaka	1	4.05	6	1	0	0	7
Johor	3	50.79	1	1	0	0	2
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:	302	4,439.50	54	181	0	58	293

JADUAL (TABLE) 22.2

MALAYSIA
PENGELUARAN KERANG DEWASA MENGIKUT BULAN DAN NEGERI ,1997
PRODUCTION OF COCKLES BY MONTH AND STATE, 1997
(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	45.00	46.80	43.20	45.00	28.80	208.80
Pulau Pinang	1,541.93	1,241.70	732.12	742.05	1,108.79	1,676.55	953.05	844.28	788.17	787.97	1,014.60	1,192.42	12,623.63
Perak	2,807.48	2,099.35	2,870.90	3,001.88	2,939.64	2,700.52	2,755.74	2,884.38	2,888.17	2,717.75	3,004.29	3,228.14	33,898.24
Selangor	516.87	454.55	751.29	712.50	633.05	861.46	921.29	723.88	1,273.41	1,226.04	1,782.64	1,732.39	11,589.37
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	80.00	80.00
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:	4,866.28	3,795.60	4,354.31	4,456.43	4,681.48	5,238.53	4,630.08	4,497.54	4,996.55	4,774.96	5,846.53	6,261.75	58,400.04

JADUAL (TABLE) 22.3

MALAYSIA
PENGELUARAN BENIH KERANG MENGIKUT BULAN DAN NEGERI, 1997
PRODUCTION OF COCKLES SEEDS BY MONTH AND STATE, 1997
(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	45.81	63.84	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.91
Perak	93.60	0.00	244.11	63.96	0.00	165.78	5.88	0.00	0.00	0.00	0.00	0.00	573.33
Selangor	0.00	0.00	686.34	1,556.22	963.69	350.70	1,164.14	0.00	0.00	0.00	0.00	37.02	4,758.11
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:	93.60	0.00	976.26	1,684.02	964.95	516.48	1,170.02	0.00	0.00	0.00	0.00	37.02	5,442.35

MALAYSIA
BILANGAN DAN LUAS KAWASAN TERNAKAN SIPUT SUDU
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1997
NUMBER AND AREA OF MUSSEL CULTURE AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1997

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	3	1,012.00	3	0	0	0	3
Perak	2	4,000.00	16	0	0	0	16
Selangor	7	1,101.00	5	0	0	1	6
Negeri Sembilan	21	3,727.00	16	2	0	3	21
Melaka	29	4,590.90	18	0	0	1	19
Johor	317	50,035.61	53	18	0	6	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	87	1,843.26	87	0	0	0	87
Jumlah/Total:	471	67,070.84	201	20	0	11	232

JADUAL (TABLE) 23.2

MALAYSIA
PENGELUARAN SIPUT SUDU MENGIKUT BULAN DAN NEGERI, 1997
PRODUCTION OF MUSSELS BY MONTH AND STATE, 1997
(KUANTITI DALAM TAN METRIK/VALUE 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	0.37	0.00	1.81	3.36	4.63	2.57	2.08	2.62	2.36	2.41	1.85	1.08	25.14
Pulau Pinang	3.15	3.15	1.60	2.00	0.89	0.07	0.00	0.00	0.00	0.00	0.00	0.00	10.86
Perak	20.55	30.30	13.70	15.70	4.80	17.80	11.30	4.00	6.30	2.75	0.20	0.00	127.40
Selangor	1.62	1.20	1.21	1.17	0.78	0.62	0.41	0.21	0.45	0.18	0.12	0.95	8.92
Negeri Sembilan	6.10	4.73	1.80	0.80	0.00	0.00	0.00	5.60	6.20	5.80	5.80	0.35	37.18
Melaka	23.12	13.42	8.00	2.63	1.20	0.00	0.90	3.00	2.10	3.95	3.00	14.24	75.56
Johor	103.90	52.75	65.54	92.71	132.67	89.51	60.74	68.73	60.74	296.67	319.69	121.48	1,465.13
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	2.42	2.42	2.41	2.42	2.42	2.41	2.42	2.42	2.41	2.42	2.42	2.41	29.00
Jumlah/Total:	161.23	107.97	96.07	120.79	147.39	112.98	77.85	86.58	80.56	314.18	333.08	140.51	1,779.19

JADUAL(TABLE) 24.1

MALAYSIA
BILANGAN DAN LUAS KAWASAN TERNAKAN TIRAM
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1997
NUMBER AND AREA OF OYSTER CULTURE AND NUMBER
OF CULTURISTS BY RACE AND STATE, 1997

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	2	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	7,100.00	10	0	0	0	10
Pahang	0	0.00	0	0	0	0	0
Terengganu	93	19,515.00	27	0	0	1	28
Kelantan	29	1,226.69	12	0	0	0	12
Sarawak	0	0.00	0	0	0	0	0
Sabah	NA	96,624.00	126	0	0	0	126
Jumlah/Total:	153	126,078.79	178	1	0	1	180

JADUAL (TABLE) 24.2

MALAYSIA
PENGELUARAN TIRAM MENGIKUT BULAN DAN NEGERI, 1997
PRODUCTION OF OYSTER BY MONTH AND STATE, 1997
(KUANTITI DALAM TAN METRIK/VALUE 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	0.37	0.37	0.33	0.53	0.60	0.60	0.63	0.57	0.60	0.67	0.60	0.00	5.87
Pulau Pinang	0.08	0.11	0.33	0.29	0.34	0.28	0.29	0.30	0.28	0.28	0.24	0.20	3.02
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	0.14	0.26	0.27	0.42	0.26	0.24	0.34	0.35	0.36	0.36	0.32	0.32	3.64
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	2.10	1.47	3.34	2.68	3.08	3.10	3.58	3.00	3.66	5.41	5.00	5.20	41.62
Kelantan	0.00	0.00	0.00	0.00	0.07	0.00	0.05	0.00	0.00	0.11	0.05	0.00	0.28
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	6.08	6.09	6.08	6.08	6.09	6.08	6.09	6.08	6.08	6.09	6.08	6.08	73.00
Jumlah/Total:	8.77	8.30	10.35	10.00	10.44	10.30	10.98	10.30	10.98	12.92	12.29	11.80	127.43

JADUAL (TABLE) 25.1

MALAYSIA
HARGA BORONG IKAN AIRTAWAR DI PASAR-PASAR UTAMA MENGIKUT
NEGERI DAN SPESIES IKAN, 1997
WHOLESALE PRICES OF FRESHWATER FISH AT MAJOR MARKETS
BY STATE AND FISH SPECIES, 1997
(RM/KG)

Jenis/Negeri Species/State	Lampam Jawa Javanese Carp	Lee Koh Lee Koh	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 Fresh- water Catfish	Ketutu Goby	Belut Eel	Patin River Catfish	Toman Giant Snake- head	Baung River Catfish	Pelbagai Miscell- aneous
Perlis	3.00	3.00	0.00	0.00	16.25	3.13	3.13	6.00	2.98	0.00	0.00	0.00	0.00	0.00	3.13
Kedah	3.04	3.75	3.00	3.00	15.96	3.25	3.96	8.75	3.92	0.00	0.00	3.00	0.00	5.83	2.96
Pulau Pinang	3.27	0.00	0.00	0.00	26.08	0.00	3.25	13.67	3.21	0.00	0.00	0.00	0.00	0.00	4.44
Perak	4.12	4.33	4.33	2.73	19.94	3.17	4.00	7.18	3.71	38.48	0.00	4.40	3.12	8.67	2.35
Selangor	4.13	3.99	4.71	2.75	19.76	3.60	4.92	8.13	3.31	42.68	0.00	3.64	8.00	8.61	3.29
Negeri Sembilan	3.45	3.40	3.35	2.60	21.10	3.05	3.45	5.60	3.40	35.00	0.00	3.10	0.00	0.00	4.54
Melaka	3.80	4.15	3.40	2.30	16.40	3.52	4.35	5.34	3.55	27.75	0.00	3.30	0.00	0.00	5.00
Johor	3.52	3.43	3.67	3.00	19.37	3.22	4.37	6.72	3.42	39.34	0.00	3.15	5.90	9.19	3.97
Pahang	4.00	4.00	4.00	3.00	20.00	3.00	3.50	8.00	3.00	35.00	16.80	7.00	5.00	12.00	4.00
Terengganu	3.95	3.72	3.91	3.17	16.08	4.17	4.58	7.94	4.26	27.64	5.61	5.53	3.49	7.62	2.62
Kelantan	5.04	5.64	5.45	4.46	15.43	4.25	4.72	7.95	3.96	25.40	5.28	4.81	3.94	8.34	4.15
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	8.00	6.00	35.00	0.00	8.00	0.00	6.00	6.00
Harga Bertimbang Weighted price	5.13	6.42	4.35	2.88	19.60	6.72	4.61	7.54	3.45	37.83	16.80	5.56	5.70	8.43	3.03

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, 1997
RETAIL PRICES OF FRESHWATER FISH AT MAJOR MARKETS
BY STATE AND FISH SPECIES, 1997
(RM/KG)

Jenis/Negeri <i>Species/State</i>	Lampam Jawa <i>Javanese Carp</i>	Lee Koh <i>Lee Koh</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	7.60	4.66	0.00	0.00	0.00	0.00	0.00	4.56
Kedah	4.50	5.79	4.58	4.63	18.29	4.58	5.00	12.08	5.83	0.00	0.00	0.00	0.00	8.50	3.54
Pulau Pinang	4.02	0.00	0.00	0.00	30.19	0.00	4.11	13.67	3.93	0.00	0.00	0.00	0.00	0.00	7.48
Perak	5.67	6.52	6.11	4.39	25.95	4.88	5.63	10.20	5.43	48.97	0.00	6.50	4.46	11.90	3.56
Selangor	6.35	6.73	6.12	3.63	25.19	5.05	6.29	10.03	5.20	54.32	0.00	5.19	8.91	11.51	5.06
Negeri Sembilan	5.40	5.55	5.20	4.25	25.00	4.33	5.20	8.85	5.60	50.00	0.00	5.05	0.00	0.00	6.00
Melaka	5.15	5.75	4.50	3.10	21.65	4.35	5.95	6.78	4.90	37.25	0.00	4.20	0.00	0.00	7.00
Johor	4.89	4.85	5.00	5.33	23.51	4.44	5.78	8.35	4.91	45.59	0.00	4.88	7.60	12.26	5.05
Pahang	6.00	6.50	7.00	5.00	23.00	4.00	5.50	10.00	5.00	40.00	16.80	8.00	7.00	15.00	5.00
Terengganu	5.25	5.25	5.21	5.65	20.38	5.49	5.88	9.70	6.27	32.58	7.72	7.61	5.17	10.67	4.26
Kelantan	6.67	7.40	7.49	5.76	18.61	5.66	6.02	10.16	5.50	30.18	7.19	6.61	5.20	10.71	5.73
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	6.00	10.00	10.00	8.00	12.00	8.00	10.00	8.00	8.00	38.00	0.00	10.00	0.00	7.00	6.00
Harga Bertimbang <i>Weighted price</i>	6.08	8.56	6.26	4.51	23.75	7.76	6.30	9.87	5.21	44.02	16.80	6.97	7.47	11.39	4.35

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

JADUAL (TABLE) 26.1

MALAYSIA
HARGA BORONG IKAN AIRPAYAU/MASIN DI PASAR-PASAR UTAMA MENGIKUT
NEGERI DAN SPESIES IKAN, 1997
WHOLESALE PRICES OF BRACKISHWATER/MARINE FISH AT MAJOR MARKETS
BY STATE AND FISH SPECIES, 1997
(RM/KG)

Negeri State	Slakap <i>Barramundi</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>	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	9.96	0.00	0.00	0.00	8.00	11.92	17.81	0.00	0.00	6.33	0.00	0.00
Kedah	11.75	31.83	14.54	0.00	0.00	0.00	22.79	0.74	1.20	0.00	10.00	6.00
Pulau Pinang	12.81	30.23	15.51	0.00	0.00	11.63	23.43	0.73	0.75	4.89	13.33	10.83
Perak	14.02	32.66	13.85	12.38	21.75	12.27	21.88	0.68	1.00	0.00	0.00	0.00
Selangor	12.19	20.44	13.69	11.70	0.00	10.01	21.98	0.74	0.75	5.13	0.00	36.08
Negeri Sembilan	10.20	14.86	12.75	5.30	30.75	5.25	23.95	0.00	1.30	3.50	0.00	0.00
Melaka	11.35	12.00	0.00	0.00	0.00	0.00	24.40	1.00	0.80	6.50	0.00	5.00
Johor	13.36	26.81	12.29	0.00	25.47	8.46	21.77	0.00	0.35	5.00	22.67	14.00
Pahang	11.50	15.00	8.00	8.00	0.00	8.00	20.00	0.60	0.00	9.00	0.00	0.00
Terengganu	10.30	21.18	8.00	0.00	14.20	6.70	19.21	0.00	0.00	4.41	11.72	0.00
Kelantan	9.91	15.06	0.00	0.00	30.00	6.04	24.29	0.00	7.00	5.97	10.00	8.00
Sarawak	9.00	0.00	0.00	7.00	0.00	7.00	28.00	0.00	0.00	5.00	0.00	6.50
Sabah	9.00	45.00	0.00	0.00	0.00	0.00	25.00	0.00	4.00	0.00	20.50	70.00
Harga Bertimbang Weighted Price	12.80	35.57	13.33	12.38	25.35	11.78	22.48	0.70	0.51	5.36	17.02	31.13

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

**HARGA RUNCIT IKAN AIRPAYAU/MASIN DI PASAR-PASAR UTAMA MENGIKUT
NEGERI DAN SPESIES IKAN, 1997**
**RETAIL PRICES OF BRACKISHWATER/MARINE FISH AT MAJOR MARKETS
BY STATE AND FISH SPECIES, 1997**
(RM/KG)

Negeri State	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Merah Red Snapper	Udang Putih Banana Prawn	Ketam Mud Crab	Udang Harimau Tiger Prawn	Kerang Cockles	Siput Sudu Mussels	Tilapia Merah Red Tilapia	Tiram Oyster	Pelbagai Miscellaneous
Perlis	12.17	0.00	0.00	0.00	14.75	15.54	21.46	0.00	0.00	6.69	0.00	0.00
Kedah	14.04	34.96	21.79	0.00	0.00	0.00	26.13	1.00	2.00	0.00	15.00	7.20
Pulau Pinang	14.58	32.08	17.18	0.00	0.00	12.39	26.04	0.99	1.18	4.98	13.33	10.83
Perak	17.54	37.55	16.90	15.50	24.00	15.51	27.75	1.28	1.80	0.00	0.00	0.00
Selangor	14.73	24.09	16.23	13.78	0.00	12.83	26.20	1.19	1.42	6.63	0.00	38.00
Negeri Sembilan	12.55	17.70	15.65	7.50	32.65	7.25	29.00	0.00	1.50	5.00	0.00	0.00
Melaka	13.00	14.00	0.00	0.00	0.00	0.00	25.90	1.20	1.00	8.00	0.00	7.00
Johor	15.78	30.48	14.53	0.00	29.65	10.94	24.73	0.00	0.74	6.00	27.00	15.83
Pahang	14.50	20.00	12.00	0.00	0.00	12.00	24.00	0.80	0.00	14.00	0.00	0.00
Terengganu	13.32	25.18	9.67	12.00	16.00	8.90	22.29	0.00	0.00	6.03	13.68	0.00
Kelantan	12.58	18.33	0.00	0.00	33.00	7.33	26.58	0.00	10.00	6.93	12.00	10.00
Sarawak	12.00	0.00	0.00	0.00	0.00	10.00	30.00	0.00	0.00	6.00	0.00	8.50
Sabah	0.00	50.00	0.00	0.00	0.00	0.00	30.00	0.00	4.50	0.00	21.00	70.00
Harga Bertimbang Weighted Price	15.36	39.90	15.88	15.50	29.49	14.89	26.44	1.20	0.93	6.38	18.30	32.19

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, 1997
PRODUCTION OF ORNAMENTAL FISH BY STATE, 1997
(BILANGAN DALAM EKOR / NUMBER IN PIECES)

JADUAL (TABLE) 27.1

Negeri/Kumpulan State/Group	Cyprinids Barb/Danio	Cyprinids Goldfish/Koi	Anabantids	Poecilids	Characins	Cichlids	Osteoglossids	Catfish	Loach	Aquatic Plants	Lain-Lain 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	924,620	302,784	0.00	2,273,024	117,004	11,604,835	9,132	92,462	22,830	0.00	77,052	15,423,743
Perak	24,062,063	33,110,752	2,451,241	5,425,033	912,090	3,059,300	0.00	0.00	0.00	0.00	0.00	69,020,479
Selangor	5,648,651	10,646,313	0.00	7,822,857	0.00	1,174,432	0.00	2,569,698	0.00	0.00	2,429,168	30,291,119
Negeri Sembilan	28,620	53,860	0.00	20,600	0.00	6,200	0.00	0.00	0.00	0.00	0.00	109,280
Melaka	0.00	0.00	0.00	10,300	0.00	27,450	0.00	0.00	0.00	0.00	18,700	56,450
Johor	29,196,701	36,740,668	6,092,121	63,551,688	22,224,477	18,157,252	0.00	145,258	0.00	15,397,350	2,646,601	194,152,116
Pahang	0.00	0.00	2,300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,300
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	29,100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29,100
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	161	3,800	0.00	4,505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,466
Jumlah/Total	59,860,816	80,858,177	8,545,662	79,137,107	23,253,571	34,029,469	9,132	2,807,418	22,830	15,397,350	5,171,521	309,093,053

JADUAL (TABLE) 27.2

MALAYSIA
PENGELUARAN DAN NILAI IKAN HIASAN MENGIKUT NEGERI, 1997
PRODUCTION AND VALUE OF ORNAMENTAL FISH BY STATE, 1997

Negeri State	Pengeluaran(Ekor) Production(Pieces)	Nilai (RM) Value (RM)
Perlis	0	0.00
Kedah	0	0.00
Pulau Pinang	15,423,743	3,012,527.00
Perak	69,020,479	13,666,540.00
Selangor	30,291,119	5,636,518.00
Negeri Sembilan	109,280	11,598.00
Melaka	56,450	11,176.00
Johor	194,152,116	38,830,423.00
Pahang	2,300	448.00
Terengganu	0	0.00
Kelantan	29,100	5,674.00
Sarawak	0	0.00
Sabah	8,466	46,168.00
Jumlah/Total	309,093,053	61,221,072.00

JADUAL (TABLE) 28.1

MALAYSIA
BILANGAN DAN PENGELUARAN PUSAT PENGELUARAN BENIH IKAN/UDANG SWASTA
MENGIKUT NEGERI, 1997
NUMBER AND PRODUCTION OF PRIVATE FISH/PRAWN FYR HATCHERY CENTRES
BY STATE, 1997

Negeri State	Bilangan Numbers	Pengeluaran (Juta Ekor) Production (Million Pieces)	
		Benih Udang Prawn Fry	Benih ikan Fish Fry
Perlis	1	6.00	0.00
Kedah	17	29.85	9.95
Pulau Pinang	12	8.00	4.00
Perak	30	270.20	6.69
Selangor	18	111.40	75.80
Wilayah Persekutuan Kuala Lumpur	0	0.00	0.00
Negeri Sembilan	5	0.43	3.79
Melaka	12	1.50	24.35
Johor	12	198.60	0.25
Pahang	9	6.00	5.23
Terengganu	5	371.00	0.00
Kelantan	22	1.50	0.68
Sarawak	NA	NA	NA
Sabah	34	272.00	0.00
Jumlah/Total	177	1,276.48	130.74

PERAIRAN UMUM

PUBLIC WATER BODIES

JADUAL (TABLE) 30.1

MALAYSIA
PENDARATAN IKAN AIRTAWAR DARI PERAIRAN UMUM /PERIKANAN DARAT
MENGIKUT BULAN DAN NEGERI, 1997
LANDINGS OF FRESHWATER FISH FROM PUBLIC WATERBODIES /INLAND FISHERIES
BY MONTH AND STATE, 1997
(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	1.39	1.19	0.75	0.78	1.05	1.13	1.06	1.11	1.14	1.20	1.05	1.06	12.91
Kedah	18.70	17.97	19.14	18.04	19.03	17.98	18.15	22.07	18.86	21.07	17.71	14.12	222.84
Pulau Pinang	3.25	4.17	2.99	1.03	0.92	2.77	3.25	1.35	0.80	0.65	1.07	4.10	26.35
Perak	76.40	66.68	64.90	63.79	69.65	66.20	75.53	70.84	80.12	101.76	97.82	100.96	934.65
Selangor	13.99	14.19	18.56	18.01	21.54	20.77	21.24	21.05	33.62	37.27	35.27	29.39	284.90
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	0.99	0.69	0.88	0.55	0.79	0.78	0.89	0.77	0.79	0.79	0.83	0.98	9.73
Johor	27.53	24.00	25.89	25.99	24.94	11.31	19.16	17.21	22.57	15.97	18.80	14.56	247.93
Pahang	23.06	20.52	24.94	21.88	30.09	27.74	17.36	17.68	20.16	28.06	21.61	18.99	272.09
Terengganu	8.30	9.21	7.48	5.93	5.63	6.43	6.74	6.39	9.17	9.76	14.83	21.10	110.97
Kelantan	10.89	11.94	10.43	10.01	9.15	8.27	7.76	9.49	9.72	10.87	13.38	15.18	127.09
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	141.67	141.66	141.67	141.66	141.66	141.67	141.67	141.66	141.67	141.67	141.67	141.67	1,700.00
Jumlah/Total:	326.17	312.22	317.63	307.67	324.45	305.05	312.81	309.62	338.62	369.07	364.04	362.11	3,949.46

JADUAL(TABLE) 31.1

MALAYSIA
PENGELUARAN BENIH IKAN AIRTAWAR DARI PUSAT-PUSAT PEMBAIKBIAK IKAN
KERAJAAN MENGIKUT PUSAT DAN SPESIS, 1997
PRODUCTION OF FRESHWATER FINGERLINGS FROM GOVERNMENT HATCHERIES
BY HATCHERY AND SPECIES, 1997

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.	596,240	80	0	0	280,590	200	0	90,860	0	49,900	1,017,870
PPA Jitra, Kedah.	1,332,619	152,185	0	1,100	740,778	0	0	176	0	0	2,226,858
PLPD Enggor, Perak	183,835	0	106,000	0	8,035	0	0	0	0	66,950	364,820
PPIAT Bt.Berendam, Melaka.	2,600	0	0	0	8,300	0	0	358,100	54,492	87,064	510,556
PPA Ajil, Terengganu.	19,200	1,050	0	0	153,900	0	0	135,500	0	0	309,650
PPA Tapah, Perak.	0	0	0	0	0	0	0	0	0	0	0
Sarawak	6,023,511	2,368,602	0	0	2,491,387	0	2,452,770	9,000	0	5,497,592	18,842,862
Sabah	322,084	1,283,908	0	702,833	1,304,145	0	0	0	0	11,700	3,624,670
Jumlah/Total	8,480,089	3,805,825	106,000	703,933	4,987,135	200	2,452,770	593,636	54,492	5,713,206	26,897,286

JADUAL(TABLE) 31.2

MALAYSIA
PENGELUARAN BENIH-BENIH IKAN/UDANG AIRPAYAU DAN UDANG GALAH DARI PUSAT-PUSAT
KERAJAAN MENGIKUT PUSAT DAN SPESIS, 1997
PRODUCTION OF BRACKISHWATER FISH/PRAWN FINGERLINGS FROM
GOVERNMENT HATCHERIES BY HATCHERY AND SPECIES, 1997

Spesis (Species) Pusat Penetasan (Hatchery)	Udang Galah Giant Fresh water Prawn	Udang Harimau Tiger Prawn	Udang Putih Banana Prawn	Siakap Barramundi	Lain-Lain Others	Jumlah Total
PPUG Kg. Aceh, Perak.	4,420,450	0	0	0	0	4,420,450
PPIUL Tg. Demong, Terengganu.	0	0	0	50,014,048	0	50,014,048
PPPBUK Kg. Pulau Sayak, Kedah.	1,988,000	19,286,000	0	1,097,990	237,580	22,609,570
PPTAP Gelang Patah, Johor.	0	0	0	95,000	5,000	100,000
Sarawak	254,200	1,853,620	0	0	0	2,107,820
Sabah	0	0	0	0	0	0
Jumlah/Total	6,662,650	21,139,620	0	51,207,038	242,580	79,251,888

MALAYSIA

**PEMBAHAGIAN BENIH-BENIH IKAN UNTUK KEGUNAAN PELBAGAI DAN PELEPASAN
KE PERAIRAN UMUM MENGIKUT NEGERI DAN SPESIS IKAN, 1997.
DISTRIBUTION OF FRESHWATER FRY FOR MISCELLANEOUS PURPOSES AND RELEASED
INTO PUBLIC WATERBODIES BY STATE AND SPECIES, 1997**

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	5,500	220	0	220	0	0	5,940	90,200	0	0	0	0	0	90,200	96,140
Kedah	5,045	330	0	660	9,757	176	15,968	363,950	118,360	0	5,500	0	0	487,810	503,778
P.Pinang	0	0	0	0	0	0	0	64,000	0	0	0	0	0	64,000	64,000
Perak	135,340	53,700	50,000	0	4,075	41,800	284,915	425,000	0	0	0	0	1,100	426,100	711,015
Selangor	0	0	0	0	0	30,000	30,000	94,000	0	300,000	0	0	0	394,000	424,000
N.Sembilan	0	0	0	0	7,200	0	7,200	23,500	0	60,000	1,000	0	500	85,000	92,200
Melaka	0	0	0	0	50	0	50	72,700	0	60,000	0	32,080	57,500	222,280	222,330
Johor	5,000	0	0	0	5,000	5,000	15,000	0	0	0	0	0	211,000	211,000	226,000
Pahang	5,500	0	0	0	4,600	2,500	12,600	45,000	0	20,000	0	0	223,000	288,000	300,600
Terengganu	46,965	2,100	242,000	0	781,220	3,946,605	5,018,890	49,500	0	95,000	3,100	0	7,065	154,665	5,173,555
Kelantan	0	0	0	0	0	0	0	172,500	500	150,000	3,000	0	7,100	333,100	333,100
Sarawak	0	0	0	0	0	0	0	2,956,386	377,564	0	0	0	764,040	4,097,990	4,097,990
Sabah	0	0	0	0	0	0	0	16,500	3,150	0	9,000	0	8,100	36,750	36,750
Jumlah/ Total	203,350	56,350	292,000	880	811,902	4,026,081	5,390,563	4,373,236	499,574	685,000	21,600	32,080	1,279,405	6,890,895	12,281,458

MALAYSIA
PEMBAHAGIAN BENIH-BENIH IKAN AIRTAWAR KEPADA PENTERNAK
MENGIKUT NEGERI DAN SPESIS IKAN, 1997.
DISTRIBUTION OF FRESHWATER FISH FRY TO CULTURISTS
BY STATE AND SPECIES, 1997

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 Carp</i>	Kap Rumput <i>Grass Carp</i>	Pelbagai <i>Others</i>	Jumlah <i>Total</i>
Perlis	2,955	0	0	0	0	14,135	0	0	0	17,090
Kedah	248,034	14,520	0	0	0	304,434	0	0	220	567,208
Pulau Pinang	42,550	0	0	0	0	10,920	0	0	0	53,470
Perak	136,340	0	18,000	0	963,200	4,076	50,000	0	77,500	1,249,116
Selangor	77,500	0	0	0	150,000	9,000	2,000	0	2,500	241,000
Negeri Sembilan	20,200	0	0	0	0	35,660	8,200	0	529,000	593,060
Melaka	370	0	0	0	0	6,100	0	0	59,455	65,925
Johor	6,000	0	0	0	0	104,600	29,200	0	61,690	201,490
Pahang	72,250	0	0	137,200	40,000	165,100	32,850	500	51,500	499,400
Terengganu	49,200	1,050	0	0	0	153,900	135,500	0	0	339,650
Kelantan	95,650	3,850	0	0	110,000	87,700	8,520	0	0	305,720
Sarawak	5,917,471	2,335,771	0	0	248,700	2,448,821	65,141	0	7,159,972	18,175,876
Sabah	301,763	213,693	0	0	0	1,637,746	0	0	1,230,501	3,383,703
Jumlah/Total	6,970,283	2,568,884	18,000	137,200	1,511,900	4,982,192	331,411	500	9,172,338	25,692,708

**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 PIAWAIAN 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>Cirrhinia molitorella</i>
		Kap Rumpit	Grass Carp	<i>Ctenopharyngodon idellas</i>
		Temperas	Carp	<i>Cyclochelichthys 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>Thyrnichthys 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>Hysibarbus 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 tambriodes</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>Aplocheilus 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 nieuhofi</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>
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**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./Pentapodus 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>Sphyaena jello/Sphyaena obtusata</i>
		Aruan Tasik	+ Black kingfish	<i>Rachycentron canadum</i>
		Bawal Hitam	0 Black pomfret	<i>Parastromateus niger</i>
		Bawal Putih	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>
	Bilis	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 marine	<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 puteh/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 Puteh 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>Parapeneopsis 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>Glaucanome 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>