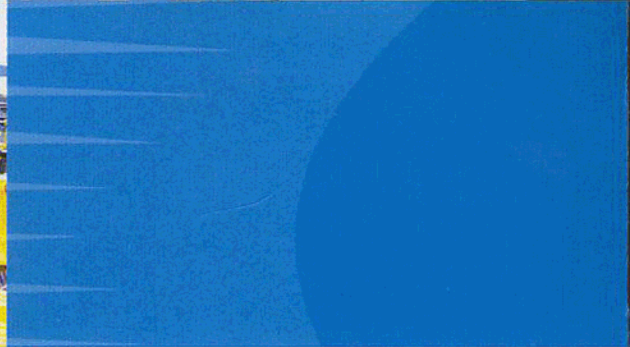




# PERANGKAAN TAHUNAN PERIKANAN

## ANNUAL FISHERIES STATISTICS

**1989  
(Volume 1)**



### JABATAN PERIKANAN MALAYSIA

Cawangan Pengutipan Data, Tingkat 7, Blok 4G2, Wisma Tani,  
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**PERANGKAAAN TAHUNAN PERIKANAN**  
**(ANNUAL FISHERIES STATISTICS)**

**1989**

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**JILID 1**  
**(VOLUME 1)**

# **PENDAHULUAN**

Sepertimana untuk buku Perangkaan 1988, penerbitan tahun ini juga adalah dalam dua jilid. Jilid ini (Jilid 1) menghuraikan semua data perikanan mengenai bot-bot menangkap ikan, perkakas menangkap ikan, usaha menangkap ikan dan data pengeluaran. Jilid kedua yang akan dikeluarkan kelak merangkumi data import/eksport komoditi perikanan. Pengasingan ini tidak boleh dielakan kerana data-data import/eksport belum diperolehi.

Untuk meningkatkan kegunaan buku ini, data Sarawak dan Sabah dikumpul bersama data Semenanjung Malaysia. Keterangan di permulaan buku menjelaskan secara ringkas perkembangan industri perikanan dalam tahun 1989 berbanding dengan tahun lepas. Kami berharap bahawa maklumat-maklumat ini akan berguna kepada semua yang berkenaan.

Sekian, Terima Kaseh.

**Ketua Pengarah Perikanan**

**Jabatan Perikanan Malaysia,**

**Kuala Lumpur.**

# **FOREWORD**

As for the Annual Fisheries Statistics, 1988, this year's publication is also produced in two volumes. This volume (volume 1) presents all fisheries data on fishing boats, fishermen, fishing gears, fishing efforts and production data. The other volume (volume 2) which will be produced later touches on import/export of fishery commodities. This separation was inevitable due to the inavailability of the latter data as yet.

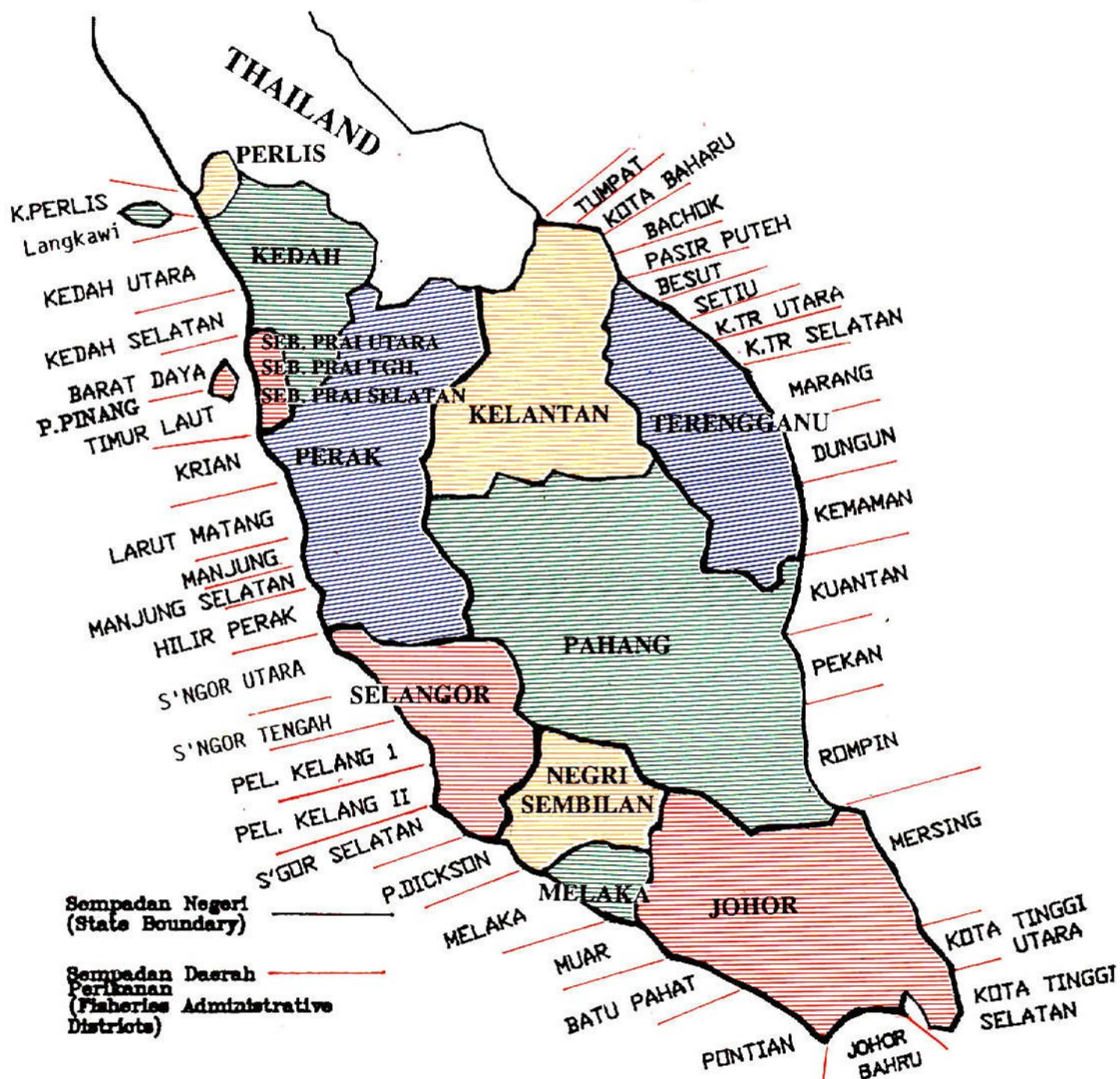
To improve the use of this bulletin, data of Sarawak and Sabah are grouped together with data of Peninsular Malaysia. The write-up presented at the beginning of the bulletin describes briefly the status of the fisheries industry compared with previous year. We hope that these informations could be useful to all concerned.

Thank You

Director-General of Fisheries  
Department of Fisheries Malaysia,  
Kuala Lumpur

# MALAYSIA — DAERAH-DAERAH PERIKANAN ( *Malaysia — Fisheries Districts* )

SEMENANJUNG MALAYSIA  
(*Peninsular Malaysia*)



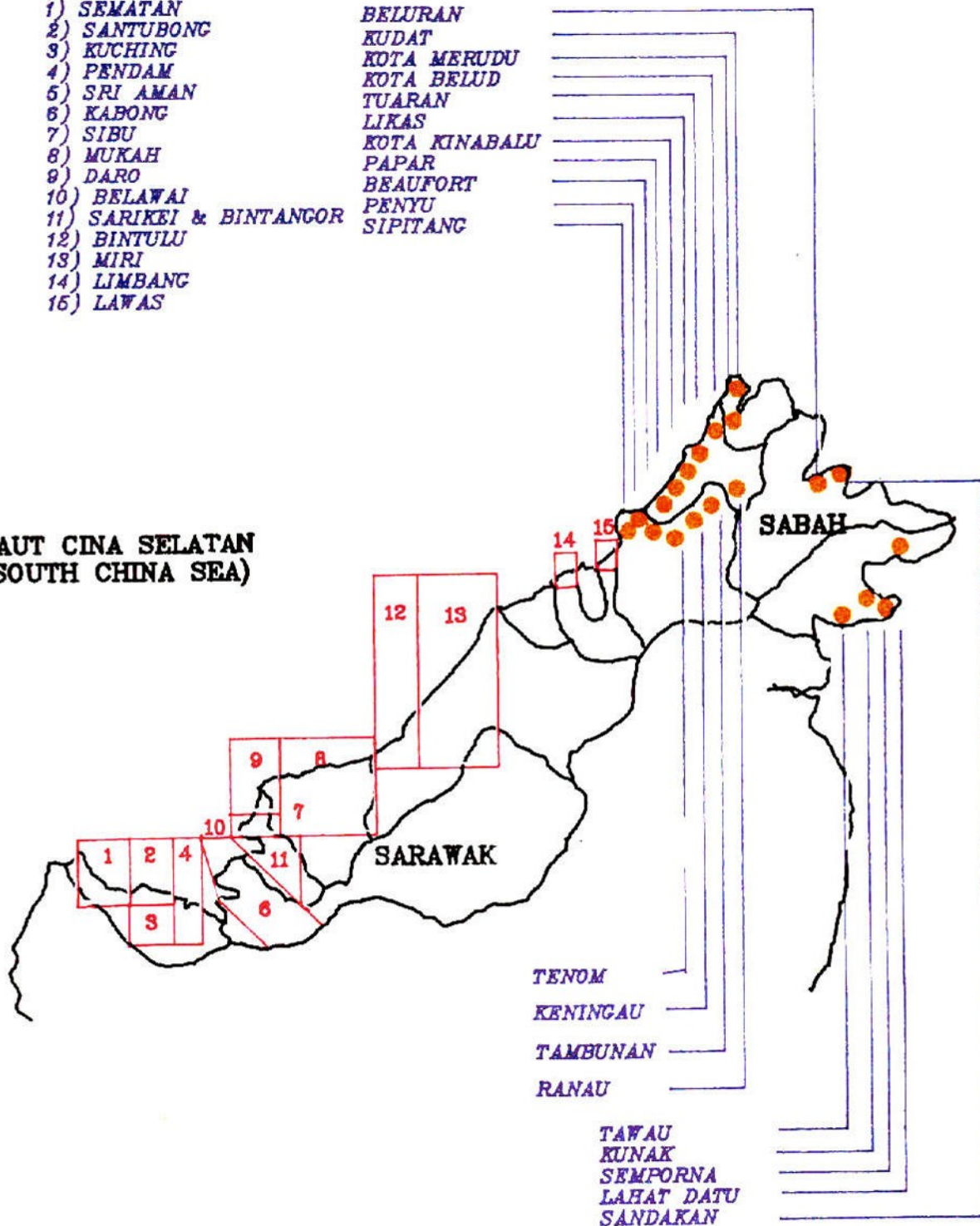
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- 1) SEMATAN
- 2) SANTUBONG
- 3) KUCHING
- 4) PENDAM
- 5) SRI AMAN
- 6) KABONG
- 7) SIBU
- 8) MUKAH
- 9) DARO
- 10) BELAWAI
- 11) SARIKEI & BINTANGOR
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- 13) MIRI
- 14) LIMBANG
- 15) LAWAS

## SABAH

- BELURAN
- KUDAT
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- KOTA BELUD
- TUARAN
- LIKAS
- KOTA KINABALU
- PAPAR
- BEAUFORT
- PENYU
- SIPITANG

LAUT CINA SELATAN  
(SOUTH CHINA SEA)



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# **Kedudukan Sektor Perikanan di Malaysia Dari Tahun 1988 dan 1989**

## **1. MAKLUMAT LATARBELAKANG**

- 1.1 Industri perikanan memainkan peranan yang penting dalam ekonomi negara. Ia menyumbangkan lebih kurang 2% kepada Keluaran Dalam Negeri Kasar (KDNK) sejak 10 tahun yang lalu. Dari segi pemakanan, industri perikanan menyumbang 60% keperluan protin negara. Selain daripada itu, industri ini menyumbangkan peluang pekerjaan secara langsung kira-kira 1.7% daripada keseluruhan tenaga kerja negara. Eksport komoditi perikanan pula menambahkan pertukaran wang asing negara.
- 1.2 Kerajaan sedang mengambil tindakan intensif terhadap pengurusan sumber melalui langkah-langkah seperti Pengawaseliaan (Monitoring), Pengawalan (Control) dan Pengesanan (Surveillance), penubuhan Taman Laut dan Rizab Laut dan pembinaan tukun tiruan.
- 1.3 Sektor perikanan dibahagikan kepada 3 sub-sektor iaitu perikanan pantai, perikanan laut dalam dan ternakair. Perikanan pantai meliputi perairan pantai sehingga 12 batu notika, manakala perikanan laut dalam meliputi perairan yang melebihi 12 batu notika sehingga had luar ZEE. Ternakair melingkungi semua aktiviti-aktiviti ternakan kolam/sangkar, ternakan ikan/udang, pengutipan kerang dari kawasan semulajadi dan kawasan ternakan, penangkapan ikan dan udang diperairan umum dan juga bekas-bekas kolam lombong.
- 1.4 Perikanan laut dalam telah berkembang dengan maju semenjak beberapa tahun ini. Kerajaan telah banyak memberi insentif dan galakan supaya sub-sektor ini boleh menambahkan sumbangannya kepada bekalan ikan. Setakat ini sumbangan dari aspek ini telah bertambah baik. Pengawasan prestasi sektor ini menunjukkan pulangan yang baik. Kerajaan akan terus berusaha untuk mengawasi perikanan laut bagi maksud pengurusan dan perancangan.
- 1.5 Industri ternakair juga menunjukkan perkembangan yang baik terutamanya perkembangan ternakan spesies-spesies airpayau. Kerajaan juga memberi insentif-insentif dan perkhidmatan sokongan melalui aktiviti penyelidikan, pengembangan dan latihan. Sebuah pusat penyelidikan penetasan dan pengeluaran benih udang negara telah ditubuhkan di Pulau Sayak, Kedah dimana temuan-temuan seperti "eye-stalking ablation" untuk ternakan anak udang telah berjaya dilaksanakan.

## 2. GUNATENAGA

- 2.1 Pada keseluruhannya terdapat 93,545 nelayan dan 16,065 penternak dalam tahun 1989, iaitu berjumlah 109,610 berbanding dengan 103,280 dalam tahun 1988 (penambahan 6.1%).
- 2.2 Di Semenanjung Malaysia, bilangan nelayan bertambah sebanyak 4,297 orang ke 62,580 orang (7.4%). Penambahan ini adalah terutamanya untuk pukat hanyut (14.5%), pukat tunda (5.7%), dan pukat jerut ikan (4.4%). Kenaikan bagi pukat hanyut adalah kerana keputusan kerajaan untuk mengeluarkan lesen- lesen kepada pengusaha kecil yang menggunakan bot-bot berjinjir sangkut.
- 2.3 Bilangan nelayan di Sarawak berkurangan sedikit (1.8%) kepada 12,358 orang. Kekurangan ini berlaku terutama digolongkan perkakas tradisional, manakala sebaliknya bilangan bertambah bagi pukat tunda sebanyak 1,429 (43.1%) kerana perkembangan industri laut dalam.
- 2.4 Di Sabah pula terdapat penambahan sebanyak 2.9% kepada sejumlah 18,250 nelayan. Kenaikan ini adalah untuk pukat tunda manakala untuk perkakas lain bilangannya tidak berubah dengan nyata.
- 2.5 Mengikut kaum, nelayan Cina yang merupakan 36% dari jumlah, masih tertumpu di pantai barat Semenanjung Malaysia. Sebaliknya nelayan Melayu pula (57.4%) kekal di pantai timur Semenanjung Malaysia. Nelayan Thai berkelompok di negeri-negeri sempadan iaitu Perlis, Kelantan dan Kedah dan merebak ke negeri Pahang dan Johor Timur akibat perkembangan industri laut dalam di negeri-negeri ini. Diperhatikan juga bahawa bilangan nelayan Thai berkurangan sebanyak 10%. Penglibatan mereka adalah sebagai pekerja mahir di bot-bot laut dalam. Pengurangan mereka menunjukkan bahawa dasar-dasar kerajaan untuk akhirnya mengganti mereka dengan pekerja tempatan secara berperingkat-peringkat sedang dicapai.
- 2.6 Dengan bertambahnya jumlah penternak sebanyak 5,938 (5.7%) kepada 15,673 orang, industri ternakair telah berkembang dengan baik. Bilangan penternak di Semenanjung Malaysia bertambah 7.8% kepada 10,760 orang. Pertambahan yang tertinggi berlaku dinegeri Johor Barat (34.0%), Melaka (30.4%), Kelantan (26.3%) dan Perak (22.6%). Negeri-negeri lain seperti Kedah dan Terengganu berkembang dengan sederhana iaitu masing-masing sebanyak 11.62% dan 5.3%. Sebaliknya bilangan penternak jatuh bagi negeri-negeri Perlis (19.6%), Pulau Pinang (27.7%), Selangor (14.3%), Johor Timur (2.7%), dan Pahang (17.3%). Walau bagaimanapun, pengurangan tenaga kerja di negeri-negeri seperti Pahang dan Johor Timur tidak mempengaruhi pengeluaran kerana terdapat ladang yang beroperasi secara skel dagangan.
- 2.7 Guna tenaga disektor ternakair di Sabah dan Sarawak juga bertambah sebanyak 21.86% dan 11.16% kepada 3,904 untuk Sabah dan 1,009 untuk Sarawak. Seperti tahun-tahun yang lalu industri ternakair di Labuan masih belum mula berkembang.

### 3. BOT-BOT MENANGKAP IKAN

- 3.1 Jumlah bot menangkap ikan yang dilesenkan di Malaysia menurun sejak 1984 dari 41,079 unit kepada 37,802 unit pada 1988, dan akhirnya bertambah sedikit kepada 39,970 unit dalam tahun 1989. Kenaikan dalam tahun 1989 adalah kerana lesen-lesen baru dikeluarkan kepada bot-bot kecil berjinjir sangkut terutama yang mengusahakan pukat tradisional. Kenaikan juga disebabkan bilangan bot-bot laut dalam bertambah akibat perkembangan industri ini.
- 3.2 Jadual 1 menunjukkan bahawa dalam tahun-tahun yang lepas, bilangan bot bermuatan kebawah 70 GRT meleset sehingga tahun 1988 di Semenanjung Malaysia. Sebaliknya bilangan bot-bot bermuatan 70 GRT dan ke atas bertambah dari 84 unit pada 1984 sehingga 411 unit pada tahun 1989. Kejayaan ini disebabkan usaha-usaha yang gigih oleh kerajaan untuk memastikan pertumbuhan yang pesat dalam industri laut dalam serta juga sambutan yang baik oleh pengusaha-pengusaha.

Jadual 1: Arah Aliran Bilangan Bot-bot Menangkap Ikan  
Yang Dilesenkan di Semenanjung Malaysia.

| Tahun | Bawah 70 GRT | 70 GRT dan ke atas | Jumlah |
|-------|--------------|--------------------|--------|
| 1984  | 25,589       | 84                 | 25,673 |
| 1985  | 23,236       | 135                | 23,371 |
| 1986  | 22,321       | 155                | 22,476 |
| 1987  | 21,880       | 258                | 22,138 |
| 1988  | 21,025       | 316                | 21,341 |
| 1989  | 23,048       | 411                | 23,459 |

- 3.3 Di Semenanjung Malaysia terdapat kenaikan dalam bilangan bot berlesen sebanyak 2,178 unit kepada 23,459 unit dalam tahun 1989 (9.9%). Kenaikan ini adalah terutamanya bagi bot-bot berjinjir sangkut yang mengusahakan perkakas tradisional.. Didapati juga bahawa penambahan yang berlaku adalah untuk negeri-negeri pantai barat seperti Kedah, Pulau Pinang, Perak dan Melaka.
- 3.4 Untuk Sarawak, jumlah bot-bot bertambah cuma sebanyak 135 unit kepada 7,165 unit (1.9%). Jumlah bot yang berlesen di Sabah untuk tahun 1989 berkurangan sebanyak 50 unit kepada 9,200 unit (1.0%).

- 3.6 Bilangan bot pukat tunda yang berlesen di Semenanjung Malaysia bertambah sebanyak 194 unit kepada 4,332 unit (2.8%). Penambahan ini adalah terutamanya untuk bot-bot bermuatan 70 GRT dan ke atas iaitu sebanyak 73 unit (44.5%). Sebaliknya bilangan bot pukat tunda ke bawah 15 GRT meleset sebanyak 104 unit. Untuk Sarawak pula, bilangan bot pukat tunda berlesen bertambah sebanyak 283 unit (40%) kepada 1,010 unit. Manakala untuk Sabah bilangan ini menurun sebanyak 10.9% (22 unit) kepada 1,800 unit.
- 3.7 Terdapat sejumlah 821 unit bot pukat jerut ikan berlesen dalam tahun 1989. Didapati bahawa bilangan ini menurun untuk Semenanjung Malaysia, Sabah dan Sarawak. Kekurangan ini adalah 72 unit (80%) kepada 647 unit untuk Semenanjung Malaysia, 1 unit kepada 22 unit untuk Sarawak dan 58 unit kepada 152 unit untuk Sabah. Dalam kes Semenanjung Malaysia kekurangan berlaku apabila beberapa lesen telah dibatalkan oleh kerajaan kerana kegagalan untuk mematuhi peraturan yang ditetapkan.
- 3.8 Bilangan bot berlesen untuk perkakas tradisional berbanding dengan tahun 1988 adalah seperti berikut:-

| Perkakas           | Sem. Malaysia | Sarawak      | Sabah       | Labuan      |
|--------------------|---------------|--------------|-------------|-------------|
| P.Jerut Bilis      | +6(3.6%)      | 0            | 0           | 0           |
| Lain-Lain P. Tarik | +83(8.8%)     | +5(83.3%)    | 0           | 0           |
| P.Hanyut           | +2,176(11.6%) | +383(8.7%)   | +60(2.0%)   | 0           |
| P. Tangguk         | - 28(3.1%)    | - 25(52.1%)  | 0           | 0           |
| Belat - Belat      | - 71(17.5%)   | - 68(58.6%)  | 0           | 0           |
| Bubu               | - 25(3.9%)    | - 23(15.9%)  | 0           | 0           |
| Pancing            | +267(6.4%)    | +4(2.4%)     | +229(12.4%) | 0           |
| P.Bakul            | - 252(17.5%)  | - 297(29.7%) | 0           | 0           |
| P.Surung           | +25(33.6%)    | +24(83.7%)   | 0           | 0           |
| P.Rentang          | - 146(33.6%)  | - 43(41.4%)  | 0           | 0           |
| Memungut Siput     | - 9(4.5%)     | 0            | 0           | 0           |
| Rampaian           | +3(0.2%)      | - 7(35%)     | - 60(4.7%)  | - 35(19.3%) |

- 3.9 Bilangan untuk Semenanjung Malaysia bertambah terutamanya untuk pukat hanyut iaitu sebanyak 2,176 unit kepada 13,147 unit (11.6%). Bilangan bot berlesen yang mengusaha pukat tangguk, bubu, memungut siput dan rampaian tidak berubah begitu banyak hanya menurun masing-masing sebanyak 3.1%, 3.9%, 4.5% dan 0.2% kepada 156, 501, 215 dan 419. Bilangan bot-bot berlesen yang mengusaha perkakas belat dan rentang meleset masing-masing sebanyak 71 unit kepada 46 unit (17.5%) dan 146 unit kepada 87 unit (33.6%). Sebaliknya bilangan bot yang mengusaha perkakas memancing dan pukat surung naik sedikit iaitu masing-masing sebanyak 167 unit kepada 2,194 unit (6.4%) untuk memancing dan 25 unit kepada 41 unit (36.8%).

#### 4. PERKAKAS MENANGKAP IKAN

- 4.1 Untuk setiap bot menangkap ikan yang beroperasi di Malaysia, dua jenis lesen dikeluarkan. Satu adalah untuk bot dan satu lagi untuk perkakas. Walau bagaimanapun, terdapat satu bot dikeluarkan lebih dari 1 lesen terutama untuk bot-bot tradisional supaya mereka boleh mengubah operasi mereka pada musim yang berlainan dan untuk jenis ikan berlainan. Faktor ini menyebabkan bilangan lesen bot yang dikeluarkan tidak bersamaan dengan bilangan lesen perkakas yang dikeluarkan dalam tahun yang sama. Dalam kes Sarawak, ada bot-bot yang berlesen tidak dikeluarkan lesen perkakas kerana peraturan-peraturan pentadbiran dalam pelesenan bot dan perkakas.
- 4.2 Untuk tahun 1989, jumlah lesen perkakas yang dikeluarkan adalah 34,257 unit iaitu mencatat penambahan sebanyak 2,985 unit (9.5%). Penambahan ini adalah 9.9% untuk Semenanjung Malaysia kepada 23,459 unit, 6.8% untuk Sarawak kepada 7,955 unit dan 16.8% untuk Sabah kepada 2,689 unit. Sebaliknya, bilangan ini menurun sebanyak 13.8% untuk Labuan kepada 156 unit.
- 4.3 Di Semenanjung Malaysia, penambahan yang tertinggi dicatat untuk Kedah (43.1%), Perlis (29.1%), Pulau Pinang (15.9%), Perak (16.4%) dan N.Sembilan (26.2%). Negeri-negeri lain seperti Selangor, Kelantan dan Pahang mencatat penambahan yang sederhana iaitu masing-masing 1.1%, 4.9% dan 4.8% masing-masing. Bilangan lesen perkakas menangkap ikan dikeluarkan untuk negeri Johor Barat, Terengganu dan Johor Timur meleset sebanyak 3.2%, 4.0% dan 1.6%.
- 4.4 Mengikut kumpulan perkakas, perubahan yang ternyata adalah untuk pukat tunda (naik 10.5%), pukat hanyut (naik 13.6%), rampaian (naik 13.4%), memungut siput (naik 8.5%), dan pukat tarik (naik 8.2%). Bilangan lesen perkakas yang dikeluarkan untuk belat menurun sebanyak 27.0% dan sebanyak 12.6% untuk pukat tangguk. Bilangan lesen yang dikeluarkan untuk perkakas lain adalah lebih kurang sama dengan pukat jerut ikan menurun sebanyak 1.05% dan yang lain-lain sebanyak 2% hingga 4%.

## 5. USAHA MENANGKAP IKAN

- 5.1 Usaha menangkap ikan adalah berkaitan dengan bilangan trip, bilangan hari dan bilangan kali memukat. Purata bilangan trip tahunan bagi pukat tunda dan pukat jerut ikan di Semenanjung Malaysia adalah masing-masing 206 trip dan 160 trip. Jumlah bilangan trip menangkap ikan di pantai timur Semenanjung Malaysia adalah lebih rendah dari pantai barat Semenanjung Malaysia kerana masalah musim tengkujuh. Bilangan trip menangkap ikan setahun untuk pukat tunda dan pukat jerut ikan di pantai barat adalah 222 trip dan 171 trip berbanding dengan 155 dan 160 trip di pantai timur.
- 5.2 Jumlah bilangan hari menangkap ikan di Semenanjung Malaysia adalah 253 hari untuk pukat tunda dan 212 hari untuk pukat jerut ikan. Purata bilangan hari memukat adalah lebih tinggi di pantai barat berbanding dengan pantai timur juga kerana kerumitan di musim tengkujuh. Hari menunda di pantai barat ialah 267 hari dan di pantai timur 208 hari. Manakala ianya adalah masing-masing 228 hari dan 194 hari untuk pukat jerut ikan.

## 6. PENDARATAN IKAN LAUT

- 6.1 Berbanding dengan pendaratan untuk tahun 1988, pendaratan ikan laut bertambah sebanyak 6.9% kepada 882,492 tan metrik. Pertambahan ini adalah 7.6% untuk Semenanjung Malaysia kepada 746,884 tan metrik. Manakala untuk Sarawak, kenaikan adalah sebanyak 5.9% kepada 84,356 tan metrik. Kenaikan yang ternyata adalah untuk Labuan yang berkembang sebanyak 104.9% kepada 7,252 tan metrik. Walau bagaimanapun, pendaratan di Sabah meleset sebanyak 8.3% kepada 44,000 tan metrik. Jadual 2 menunjukkan pendaratan mengikut kawasan untuk 1988 dan 1989.

Jadual 2: Pendaratan Mengikut Kawasan - 1988 dan 1989

| Kawasan      | 1988    | 1989    | %Perubahan |
|--------------|---------|---------|------------|
| Pen.Malaysia | 694,449 | 746,884 | + 7.75%    |
| Sarawak      | 79,642  | 84,356  | + 5.92%    |
| Sabah        | 48,000  | 44,000  | - 8.33%    |
| Labuan       | 3,540   | 7,252   | +104.86%   |
| Malaysia     | 825,631 | 882,492 | + 6.89%    |

- 6.2 Negeri-negeri yang mencatatkan kenaikan adalah Kelantan (83.2%) kepada 32,982 tan metrik, Pulau Pinang 73.7% kepada 38,624 tan metrik, Johor Timur 13.7% kepada 77,023 tan metrik, Selangor 23.9% kepada 112,646 tan metrik, Perak 10.6% kepada 198,974 tan

metrik, Kedah 3.9% kepada 75,615 tan metrik dan Perlis 3.9% kepada 42,360 tan metrik. Pendaratan di negeri-negeri lain meleset seperti berikut, Negeri Sembilan 28.7% kepada 221 tan metrik, Melaka 19.9 % kepada 1,989 tan metrik, Johor Barat 9.0% kepada 18,905 tan metrik, Terengganu 5.6% kepada 78,815 tan metrik dan Pahang 27.7% kepada 68,730 tan metrik.

- 6.3 Pendaratan pukat tunda bertambah sebanyak 13.4% kepada 503,515 tan metrik, pukat tarik 33.9% kepada 19,160 tan metrik, pukat hanyut 16.4% kepada 75,366 tan metrik, pukat tangguk 107.2% kepada 13,633 tan metrik, bubu 5.1 % kepada 6,750 tan metrik dan rampaian 125.5% kepada 31,799 tan metrik. Komposisi pendaratan pukat tunda, pukat jerut ikan dan perkakas tradisional adalah masing-masing 57.1%, 14.0% dan 28.9%.
- 6.4 Perubahan pendaratan untuk tahun 1989 berbanding dengan tahun 1988 mengikut perkakas untuk Semenanjung Malaysia adalah seperti di Jadual 3. Perubahan-perubahan ini dibanding dengan perubahan-perubahan bilangan unit beroperasi.

Jadual 3: Perubahan Pendaratan dan Perubahan Unit Menangkap Ikan - 1989

| Perkakas           | % Perubahan dalam Unit Menangkap Ikan | % Perubahan dalam Pendaratan | Pendaratan t.m. 1989 |
|--------------------|---------------------------------------|------------------------------|----------------------|
| P.Tunda            | +2.8%                                 | +9.48%                       | 436,287              |
| P.Jerut Ikan       | -80.0%                                | -13.28%                      | 110,612              |
| P.Jerut Bilis      | +6.0%                                 | -13.66%                      | 30,023               |
| Lain-Lain P. Tarik | +8.8%                                 | +33.86%                      | 19,160               |
| P.Hanyut           | +11.6%                                | +10.23%                      | 50,523               |
| P. Tangguk         | -3.1%                                 | +96.66%                      | 11,587               |
| Belat - Belat      | -17.5%                                | -2.01%                       | 891                  |
| Bubu               | -3.9%                                 | +1.98%                       | 6,202                |
| Pancing            | +6.4%                                 | +1.22%                       | 22,145               |
| P.Bakul            | -17.5%                                | -11.43%                      | 32,072               |
| P.Rentang          | -33.6%                                | -6.17%                       | 889                  |
| P.Surung           | +36.8%                                | +0.22%                       | 2,024                |
| Memungut Siput     | -4.5%                                 | -48.38%                      | 782                  |
| Rampaian           | +0.2%                                 | +165.52%                     | 23,687               |
| Keseluruhan        | +9.9%                                 | +7.55%                       | 746,884              |

- 6.5 Pada kebanyakan keadaan, perubahan unit menangkap ikan mempunyai kaitan positif dengan pendaratan, kecuali untuk pukat jerut bilis, pukat tangguk dan bubu. Ini bermakna, pendaratan akan turut bertambah apabila bilangan unit bot beroperasi bertambah. Untuk pukat jerut bilis, pendaratan meleset 13.8% walaupun bilangan bot beroperasi bertambah sebanyak 6.0%. Kejadian ini secukup dengan temuan kajian bahawa sumber bilis kita memang sedang merosot. Pendaratan untuk pukat tangguk meningkat sehingga 96.7% walaupun bilangan unit tidak berubah dengan nyata. Ini kemungkinan kerana kegunaan teknologi yang lebih baik seperti penggunaan lampu untuk mengumpul ikan. Kenaikan pendaratan oleh bubu sebanyak 2.0% berbanding kepada penurunan dalam bilangan unit beroperasi sebanyak 3.9% mungkin mencerminkan bahawa projek-projek pemulihan semula seperti tukun tiruan mula menunjuk kesan. Ini memandangkan bahawa tukun-tukun yang dibina adalah untuk ikan-ikan demersal yang ditangkap oleh bubu.

- 6.6 Pendaratan oleh pukat tunda, pukat tarik, pukat hanyut, pukat surung dan rampaian bertambah apabila bilangan unitnya bertambah. Sebaliknya pendaratan pukat jerut ikan, pukat bakul, pukat rentang dan memungut siput merosot apabila bilangan unit yang beroperasi menurun. Adalah penting untuk memerhati bahawa pendaratan memungut siput meleset sebanyak 48.4% walaupun usaha merosot hanya sebanyak 4.5%. Kemerosotan ini berlaku kerana kemunculan kerang/siput semulajadi berkurangan akibat keadaan cuaca dan biologiikal yang tidak sesuai.
- 6.7 Untuk Sarawak, pendaratan pukat tunda bertambah sebanyak 41.4% berbanding kepada kenaikan 38.9% unit-unit beroperasi. Walau bagaimanapun, pendaratan oleh pukat jerut ikan bertambah sebanyak 20.4% walaupun bilangan unit berlesen menurun sebanyak 4.3%. Untuk perkakas tradisional arah aliran perubahan pendaratan dan bilangan unit berlesen berkait secara positif. Apabila unit berlesen berubah sedikit (naik atau turun), aliran pendaratan berubah bersama(juga naik dan turun). Keadaan ini mencerminkan bahawa sumber di Sarawak masih boleh diterokai kepada paras optima.
- 6.8 Corak ini adalah serupa untuk Sabah dimana walaupun bilangan pukat tunda berlesen menurun sebanyak 10.9%, pendaratan masih bertambah sebanyak 13.7%. Pendaratan pukat jerut ikan juga meningkat walaupun terdapat kemerosotan dalam jumlah unit beroperasi.

## 7. AKUAKULUR

- 7.1 Jumlah pengeluaran dari temakair adalah sebanyak 53,118.92 tan metrik, bertambah sebanyak 13.1% berbanding dengan 1988. Sarawak mencatat pertumbuhan yang terbesar dengan 92.4% kepada 212.28 tan metrik diikuti dengan Sabah yang bertambah sebanyak 48.3% kepada 140.48 t.m. Industri ini di Semenanjung Malaysia menikmati pertambahan sebanyak 9.2% kepada 52,766 t.m.
- 7.2 Prestasi baik yang dicapai adalah kerana lebih banyak tanah diguna untuk akuakultur iaitu dari cuma 4,397.56 ha kepada 5,483.37 ha. Perkembangan yang ternyata adalah untuk Sarawak iaitu sebanyak 30.7% kepada 192.37 ha. Kawasan akuakultur di Semenanjung Malaysia bertambah sebanyak 27.5% kepada 3,986.03 ha. Di Sabah, luas tanah yang terlibat dalam industri ini adalah sejumlah 1,304.97 ha iaitu meningkat 16.0%. Jadual 4 menunjukkan perubahan dalam tahun 1989 berbanding dengan tahun 1988.

Jadual 4: Bilangan Penternak, Luas Kawasan dan Pengeluaran - 1988 dan 1989 - Malaysia

| Kawasan       | 1988               |                      |                   | 1989               |                      |                   |
|---------------|--------------------|----------------------|-------------------|--------------------|----------------------|-------------------|
|               | Bilangan Penternak | * Luas Kawasan (h.a) | Pengeluaran (t.m) | Bilangan Penternak | * Luas Kawasan (h.a) | Pengeluaran (t.m) |
| Pen. Malaysia | 12,901             | 3,125.00             | 42,397.60         | 15,397             | 3,986.03             | 46,306.64         |
| Sarawak       | 947                | 47.14                | 110.32            | 1,186              | 192.37               | 212.28            |
| Sabah         | 7,804              | 1,125.37             | 4,450.00          | 8,878              | 1,304.97             | 6,600.00          |
| Malaysia      | 21,652             | 4,297.51             | 46,957.92         | 25,461             | 5,483.37             | 53,118.92         |

Luas Kawasan Tidak Termasuk Sangkar

- 7.3 Nilai pengeluaran akuakultur bertambah sebanyak 32.6% kepada \$118 juta. Kenaikan ini kerana pengeluaran yang lebih serta pengeluaran spesis-spesis yang bernilai seperti udang harimau . Peningkatan dari segi pengeluaran dan nilai menunjukkan bahawa industri ini telah berkembang bukan sahaja secara fizikal tetapi juga dari aspek teknologi dan pengurusan. Jadual 5 menunjukkan perubahan dalam nilai berbanding dengan 1988.

Jadual 5: Nilai Pengeluaran Akuakultur -  
1988 dan 1989 (M\$'000) - Malaysia

| Kawasan       | 1988(\$'000) | 1989(\$'000) |
|---------------|--------------|--------------|
| Pen. Malaysia | \$58,078.92  | \$ 77,959.49 |
| Sarawak       | \$ 547.99    | \$ 1,700.46  |
| Sabah         | \$31,000.00  | \$ 38,547.00 |
| Malaysia      | \$89,626.91  | \$118,206.95 |

- 7.4 Industri akuakultur di Malaysia boleh dibahagikan kepada ternakan air tawar atau ternakan air payau. Ternakan- ternakan ini pula dibahagikan kepada berbagai sistem seperti kolam, kolam bekas lombong dan sangkar. Ternakan air payau juga termasuk ternakan kerang dan kupang.
- 7.5 Ternakan air tawar dalam kolam dan bekas lombong bertambah sebanyak 15.0% kepada 23,645 unit dimana bilangan penternak bertambah sebanyak 11.7% kepada 14,207 orang. Bersamaan ini, pengeluarannya juga bertambah 3.5% kepada 8,051 t.m, manakala nilai pengeluaran mencatat kenaikan sebanyak 18.7% kepada \$45 juta. Kenaikan nilai pengeluaran disebabkan kenaikan harga ikan seperti lampan jawa (\$0.58/kg), kap biasa (\$0.39/kg), kap rumput (\$1.43/kg) dan kap kepala besar (\$1.99/kg).
- 7.6 Bilangan sangkar airtawar bertambah sebanyak 32 unit kepda 948 unit dan bilangan penternak pula bertambah 2.7% kepada 495. Walau bagaimanapun, pengeluaran berlipat ganda kepada 141.32 t.m. menghasilkan nilai pengeluaran empat kali ganda sebanyak \$682,840. Kejayaan ternakan sangkar disebabkan teknologi, pengurusan dan pemasaran yang lebih baik.

- 7.7 Ternakan ikan/udang air payau turut bertambah baik. Bilangan kolam bertambah 63.8% kepada 1,816 unit melibatkan kawasan tanah seluas 1,396.77 ha. Pengeluaran meningkat 44.0% kepada 2,134.39 ha bernilai \$35,271,150. Pengeluaran utama ialah udang harimau iaitu 1,961 t.m. diikuti dengan udang putih sebanyak 105.38 t.m.
- 7.8 Bilangan sangkar air payau bertambah 38.0% kepada 22,865 unit mengeluarkan 1,895.08 t.m. ikan (28.9%) bernilai \$18,319,060. Prestasi ini dicapai oleh penternak dengan pengurusn yang lebih baik.
- 7.9 Ternakan kerang juga menunjuk prestasi yang baik, bertambah sebanyak 12.8% dalam pengeluaran kepada 39,346.12 t.m. bernilai \$18,180,900. Begitu juga ternakan kupang yang mencatat kenaikan sebanyak 13.4% dalam pengeluaran iaitu berjumlah 1,550.76 t.m. bernilai \$718,820. Jadual 6 menunjukkan pengeluaran berbagai sistem ternakan dalam tahun 1988 dan 1989.

Jadual 6: Pengeluaran dan Nilai Pelbagai Sistem Ternakan, 1988 - 1989

| Sistem            | 1988              |               | 1989              |               |
|-------------------|-------------------|---------------|-------------------|---------------|
|                   | Pengeluaran(t.m.) | Nilai(\$'000) | Pengeluaran(t.m.) | Nilai(\$'000) |
| Kolam Air Tawar   | 7,777.28          | \$37,948.05   | 8,051.25          | \$ 45,034.18  |
| Sangkar Air Tawar | 52.48             | \$ 171.44     | 141.32            | \$ 682.84     |
| Kolam Air Payau   | 1,313.90          | \$23,624.11   | 2,134.39          | \$ 35,271.15  |
| Sangkar Air Payau | 1,579.28          | \$15,876.93   | 1,895.08          | \$ 18,319.06  |
| Kerang            | 34,867.00         | \$11,535.09   | 39,346.12         | \$ 18,180.90  |
| Kupang            | 1,367.98          | \$ 471.29     | 1,550.76          | \$ 718.82     |
| Jumlah            | 46,957.92         | \$89,626.90   | 53,118.92         | \$118,206.95  |

## **8.. IKAN HIASAN**

- 8.1 Dengan iklim yang baik, Malaysia didapati sesuai untuk menternak ikan-ikan hiasan tropikal. Industri ini sebenarnya sudah wujud agak lama dan memandangkan ianya telah berkembang kepada satu tahap yang baik, Jabatan telah mula mengawasi aktibitinya. Data pengeluaran ikan hiasan mula di pungut dalam tahun 1989.**
- 8.2 Industri ini telah mengeluarkan lebih dari 70 juta ekor ikan hiasan bernilai lebih daripada \$16 juta pada 1989. Negeri-negeri yang pesat dalam industri ini adalah Perak (54.4%) diikuti dengan Johor (42.9%). Negeri-negeri lain ialah termasuk Selangor (2.3%) dan P.Pinang (0.4%). Setakat ini industri ini tidak berkembang di tempat-tempat yang lain.**

# THE STATUS OF FISHERIES SECTOR IN MALAYSIA 1989

## 1. BACKGROUND INFORMATION

- 1.1 The fishing industry plays important roles in the economy of the nation. It contributes to the gross Domestic Product, averaging 2% over the last ten years. It is also the main source of protein, contributing about 60% of the total protein intake. The industry provides employment to some 1.7% of the total nation's manpower. Exports of fishery commodities also provide foreign exchange to the nation.
- 1.2 The government is undertaking intensive resource management and conservation measures through Monitoring, Control and Surveillance, the setting up of Marine Park and Marine Reserve and construction of artificial reefs.
- 1.3 The fisheries sector is divided into 3 sub-sectors, namely in-shore fishery, deep sea fishery and aquaculture. The in-shore fishery covers coastal waters up to 12 nautical miles, while deep sea fishery covers waters beyond 12 nautical miles to the outer limit of EEZ. Aquaculture covers all activities of pond/cage culture, fish/prawn culture, collection of cockles from natural or artificial beds, fishing of fish and prawns in public water bodies and ex- mining ponds.
- 1.4 Deep sea fishing has developed very well over the last two years. The government has given incentives and encouragement for the sub-sector to increase its contribution to the supply of fish. The contribution of the sub-sector has increased reasonably. Monitoring of the performance generally indicates good returns to the operation. The government will continue to monitor the deep sea fishing for management and planning purposes.
- 1.5 Aquaculture has also shown tremendous progress, especially the development of brackishwater culture. The government has also provided fiscal incentives and support services. The latter is achieved through research, extension and training. The government has set up the National Prawn Fry Production and Research Centre in Pulau Sayak, Kedah; it has succeeded in eye-stalking ablation for breeding of prawn fry.

## 2. EMPLOYMENT

- 2.1 There were a total of 93,545 fishermen and 16,065 aquaculturists in 1989, giving a total of 109,610 as against 103,280 persons in 1988 (increment of 6.1%).
- 2.2 In Peninsular Malaysia, the number of fishermen increased by 4,297 to 62,580 persons, (7.4%). The increased were mainly gill netters (14.5%), trawlers (5.7%), and purse seiners (4.4%). The increase for the gill netters was largely due to the decision of the government to issue licences to small out-board operated boats.

- 2.3 The number of fishermen in Sarawak showed a slight decrease of 1.8% to 12,358 persons. The reduction occurred mostly in the traditional gear group, whereas for the trawlers there was an increase of 1,429 fishermen (43.1%) mainly due to the growth in the deep sea industry.
- 2.4 There was 2.9% increase in the number of fishermen in Sabah, to 18,250 persons. The increase was for the trawlers, whereas the number remained the same for traditional gears.
- 2.5 According to ethnicity, the Chinese fishermen who formed some 36% of the total, were mostly found in the west coast of Peninsular Malaysia, and the Malays (57.4%) in the east coast of Peninsular Malaysia. The Thai fishermen, on the other hand, worked initially in the border states of Perlis, Kelantan and Kedah; they eventually spread to Pahang and East Johore due to the expansion of the deep sea industry in these states. It was also noted that the number of Thai fishermen decreased by 10.0%. The involvement of Thai fishermen were mainly as skilled workers operating on deep sea boats. The reduction indicated that the government's policy of gradually phasing them out has met with some success.
- 2.6 The total number of aquaculturists increased by 5,938 (5.7%) to 15,673 persons, indicating a healthy growth in the industry. The number of aquaculturist in Peninsular Malaysia increased 7.8% to 10,760 persons. The highest growth was recorded for West Johore (34.0%), Melaka (30.4%), Kelantan (26.3%) and Perak (22.6%). Other states like Kedah and Terengganu improved moderately by 11.62%, and 5.3% respectively. On the other hand, the number of aquaculturist dropped for the states of Perlis (19.6%), Penang (27.7%), Selangor (14.3%), East Johore (2.7%) and Pahang (17.3%). However the reduction in manpower in some states like Pahang and East Johore does not affect the production because some of the farms were operated on a large scale basis.
- 2.7 The aquaculture manpower also increased in Sabah and Sarawak, that was, by 21.86% and 11.16% to 3,904 and 1,009 respectively. As in the past, aquaculture in Labuan was still insignificant.

### 3. FISHING BOATS

- 3.1 The total number of fishing boats licensed in Malaysia dropped steadily since 1984 from 41,079 to 37,802 units in 1988, and increased slightly to 39,970 in 1989. As can be seen, the increase this year was due to two reasons. Firstly, new licences were issued to small mechanised fishing units operating traditional gears mostly gill/drift nets. Secondly, the number of deep sea fishing units has increased.
- 3.2 Table 1 shows that over the years the number of boats of less than 70 GRT was decreasing up to 1988. The number of deep sea fishing boats (70 GRT) climbed steeply from 84 units in 1984 to 411 units in 1989. The achievement in the latter was due to the serious efforts made by the government to ensure greater growth in deep sea fishing and good response shown by the entrepreneurs.

Table 1: Trend of Number of Fishing Boats  
Licenced in Peninsular Malaysia

| Year | below 70 GRT | 70 GRT and above | Total  |
|------|--------------|------------------|--------|
| 1984 | 25,589       | 84               | 25,673 |
| 1985 | 23,236       | 135              | 23,371 |
| 1986 | 22,321       | 155              | 22,476 |
| 1987 | 21,880       | 258              | 22,138 |
| 1988 | 21,025       | 316              | 21,341 |
| 1989 | 23,048       | 411              | 23,459 |

- 3.3 Comparing the number of boats licensed in 1989 and 1988, there was an increase of 2,178 units to 23,459 unit for Peninsular Malaysia (9.9%). The increase was mainly for outboard-powered boats operating traditional gears. The increase was mainly in the west coast states such as Kedah, Penang, Perak and Melaka.
- 3.4 For Sarawak, the total number of boats increased by only 135 units to 7,165 units (1.9%). The total number of boats licensed in Sabah for 1989 decreased by 50 units to 9,200 units (1.0%).
- 3.5 The number of boats licenced in Peninsular Malaysia for trawlers increased marginally in 1989 by 2.8% or 194 units to 4,332 units. The increase was mainly for boats of higher tonnage particularly for 70 GRT and above, that is by 44.5% (73 units). On the other hand, trawlers below 15GRT showed a decrease by 104 units. The number of trawlers licenced in Sarawak increased by nearly 40% (283 units) to 1,010 units and decreased by 10.9% (22 units) to 1,800 units in Sabah.
- 3.6 There were 821 units of purse seiners licensed in 1989, with a reduction of 72 units (80%) to 647 for Peninsular Malaysia, 1 unit to 22 units for Sarawak and 58 units to 152 units for Sabah. In the case of Peninsular Malaysia, some of the licences were revoked by the government for failing to comply with the regulations stipulated.

3.7 The number of boats licensed for traditional gears as compared to 1988 changed as follows:

| Gears                | Pen. Malaysia | Sarawak      | Sabah       | Labuan      |
|----------------------|---------------|--------------|-------------|-------------|
| Ach.P.Seine          | +6(3.6%)      | 0            | 0           | 0           |
| Other Seine          | +83(8.8%)     | +5(83.3%)    | 0           | 0           |
| Gill/Drift Net       | +2,176(11.6%) | +383(8.7%)   | +60(2.0%)   | 0           |
| Lift Net             | - 28(3.1%)    | - 25(52.1%)  | 0           | 0           |
| Stationery Traps     | - 71(17.5%)   | - 68(58.6%)  | 0           | 0           |
| Portable Traps       | - 25(3.9%)    | - 23(15.9%)  | 0           | 0           |
| Hooks & Lines        | +267(6.4%)    | +4(2.4%)     | +229(12.4%) | 0           |
| Bag Nets             | - 252(17.5%)  | - 297(29.7%) | 0           | 0           |
| Scoop Nets           | +25(33.6%)    | +24(83.7%)   | 0           | 0           |
| Barrier Nets         | - 146(33.6%)  | - 43(41.4%)  | 0           | 0           |
| Shellfish Collection | - 9(4.5%)     | 0            | 0           | 0           |
| Miscellaneous        | +3(0.2%)      | - 7(35%)     | - 60(4.7%)  | - 35(19.3%) |

3.8 The numbers for Peninsular Malaysia increased mainly for gill/drift nets that is by 2,176 units to 13,147 units (11.6%). The number of boats operating lift nets, portable traps, shell fish collection, and miscellaneous gears stabilised, dropped by 3.1%, 3.9%, 4.5% and 0.2% to 156, 501, 215 and 419 respectively for Peninsular Malaysia. There was a significant dropped in the number of boats operating stationary traps and barrier nets i.e by 71 units (17.5%) and 146 units (336%) to 46 units and 87 units respectively. However the number of boats operating hook and lines and scoop nets increased slightly by 267 units (6.4%) and 25 units (36.8%) to 2194 units and 41 units respectively.

#### **4. FISHING GEARS**

- 4.1 For each fishing boat operating in Malaysia, two licences were issued, one for the boat and the other for the gear. Normally, each boat will be issued with one boat licence and one gear licence. However, at times one boat will be issued two gear licences especially for traditional boats to enable them to diversify their fishing at different seasons and for different species. This explained why the number of boats licences issued never tallied with the number of gear licences issued in the same year. In the case of Sarawak, some gears are not licensed due to administrative arrangement regarding the authorities licensing the fishing boat and gear.
- 4.2 For 1989, the total number of gear licences issued was 34,257, recording an increase of 2,985 units (9.5%). The increment was 9.9% for Peninsular Malaysia to 23,459 units, 6.8 % for Sarawak to 7,955 units and 16.8 % for Sabah to 2,687 units. On the other hand, the number dropped by 13.8% for Labuan to 156 units.
- 4.3 In Peninsular Malaysia, the highest increase recorded was for Kedah (43.1%), Perlis (29.1%), Penang (15.9%), Perak (16.4%) and Negeri Sembilan (26.2%). The other states like Selangor, Kelantan and Pahang recorded a marginal increase of only 1.1%, 4.9% and 4.8% respectively. The number of gear licences issued for the states of West Johore, Terengganu and East Johore dipped by 3.2%, 4.0% and 1.6% respectively.
- 4.4 By gear type, the most significant changes were for trawlers (up 10.5%), gill/drift nets (up 13.6%), miscellaneous gears (up 13.4%) , shellfish (up 8.5%) and other Seine Nets (up 8.2%). The number of gear licences issued for stationary traps decreased by 27.0% and for lift nets by 12.6%. The number of licenses issued for the other gears remained almost the same with purse seine decreasing by only 1.05% and the rest by 2 to 4 %.

#### **5. FISHING EFFORTS**

Fishing efforts relate to the number of trips, number of days and number of hauls. The annual average fishing trips for trawlers and fish purse seiners in Peninsular Malaysia was 206 trips and 160 trips respectively. The total number of fishing trips in the east coast Peninsular Malaysia was lower than those in the west coast mainly because of the monsoon. The number of fishing trips per year for trawlers and fish purse seiners in the west coast were 222 trips and 171 trips as compared to 155 and 160 trips in the east coast respectively.

- 5.2 The total number of fishing days in Peninsular Malaysia were 253 days for trawlers and 212 days for fish purse seiners. The average fishing days were higher in the west coast as compared to the east coast which is also due to the monsoon period. Trawling in the west coast was 267 days and in the east coast 208 days, while purse seining was 228 days and 194 respectively.

## 6. LANDINGS OF MARINE FISH

- 6.1 Comparing the landings for 1988 and 1989, the total marine capture fisheries landings increased to 882,492 m.t by 6.9%. The increase was 7.6% for Peninsular Malaysia to 746,884 m.t. whereas for Sarawak, the increase was 5.9% to 84,356 m.t. The most significant increase was for Labuan which registered a growth of 104.9% increasing to 7,252 m.t. However the catches in Sabah dipped a little by 8.3% reducing by 4,000 metric tonnes to 44,000 m.t. Table 2 showed the landings according to regions for 1988 and 1989.

Table 2: Landings by Area - 1988 and 1989

| Area         | 1988    | 1989    | %Change  |
|--------------|---------|---------|----------|
| Pen.Malaysia | 694,449 | 746,884 | + 7.75%  |
| Sarawak      | 79,642  | 84,356  | + 5.92%  |
| Sabah        | 48,000  | 44,000  | - 8.33%  |
| Labuan       | 3,540   | 7,252   | +104.86% |
| Malaysia     | 825,631 | 882,492 | + 6.89%  |

- 6.2 The states which showed the increase in their catches were Kelantan by (83.2%), to 32,982 m.t., Penang by 73.7% to 38,624 m.t., East Johore by 13.7% to 77,023 m.t., Selangor by 23.9% to 112,646 m.t., Perak by 10.5 % to 198,974 m.t., Kedah by 3.9% to 75,615 m.t. and Perlis by 4.0% to 42,360 m.t. The states of Negeri Sembilan, Melaka, West Johore, Terengganu and Pahang registered a decline in catches by 28.7% to 221 m.t., 19.9 % to 1,989 m.t., 9.0% to 18,905 m.t., 5.6% to 78,815 m.t. and 27.7% to 68,730 m.t. respectively.
- 6.3 Trawl Catches increased 13.4% to 503,515 m.t., seine nets other than purse seine and anchory seine increased 33.9% to 19,160 m.t., gill/drift nets 16.4% to 75,366 m.t., lift nets 107.2% to 13,633 m.t., portable traps 5.06% to 6,750 m.t and miscellaneous gears 125.5% to 31,799 m.t. The catch compositions of the trawlers, fish purse seine nets and traditional gears were 57.1%, 14.0% and 28.9% respectively.
- 6.4 The changes in catches for 1989 as compared to 1988 by gear types for Peninsular Malaysia were shown in Table 3. These changes were compared against changes in the number of fishing units operating the respective gears.

Table 3: Changes in Catches and Fishing Units - 1989

| Gears            | % Change in Fishing Units | % Change in Catches | Catch m.t. 1989 |
|------------------|---------------------------|---------------------|-----------------|
| Trawlers         | +2.8%                     | +9.48%              | 436,287         |
| Fish P.Seine     | -80.0%                    | -13.28%             | 110,612         |
| Ach.P.Seine      | +6.0%                     | -13.66%             | 30,023          |
| Other Seine      | +8.8%                     | +33.86%             | 19,160          |
| Gill/Drift Net   | +11.6%                    | +10.23%             | 50,523          |
| Lift Net         | -3.1%                     | +96.66%             | 11,587          |
| Stationery Traps | -17.5%                    | -2.01%              | 891             |
| Portable Traps   | -3.9%                     | +1.98%              | 6,202           |
| Hooks & Lines    | +6.4%                     | +1.22%              | 22,145          |
| Bag Nets         | -17.5%                    | -11.43%             | 32,072          |
| Barrier Nets     | -33.6%                    | -6.17%              | 889             |
| Push Nets        | +36.8%                    | +0.22%              | 2,024           |
| Shellfish        | -4.5%                     | -48.38%             | 782             |
| Miscellaneous    | +0.2%                     | +165.52%            | 23,687          |
| Overall          | +9.9%                     | +7.55%              | 746,884         |

- 6.5 As can be seen from the table, the changed in fishing units correlated positively with the changed in catches for most gears except for anchovy purse seines, lift nets and portable traps. For anchovy purse seines, the catches decreased 13.8% even though the number of boats operating the gear increased 6.0%. The trend is in line with the findings that the anchovy resources have been overexploited to some extent. As for lift nets, the catches (even though not significant) shot up by 96.7% although the number of fishing units remained more or less the same. This could probably be due to better technology such as using spotlights to aggregate the fishes. The better performance of portable traps by 2.0% against a reduction of the fishing units by 3.9% could indicate that rehabilitation projects undertaken, like the development of artificial reefs, was beginning to see results. This is in view that the reefs created were mostly for demersal coral fishes which formed the main catches of portable traps.
- 6.6 Catches of trawlers, other seine nets, gill/drift nets, hook & lines, push nets and miscellenous, increased as compared against the increase of the respective fishing units. On the other hand the catches of fish purse-seines, bag-nets, barrier nets and shellfish collection decreased corresponding with the reduction of the respective fishing units. It is important to note that shellfish collection reduced by as much as 48.4% even though the efforts went down by only 4.5%. This drop was unfortunately due to poor occurence of natural spatfalls as the result of unfavorable climatic and biological conditions.

- 6.7 As for Sarawak, the trawl landings increased by 41.4% against an increase of 38.9% in the fishing units. However landings by purse seiners enjoyed an increase of 20.4% against a reduction of only 4.3% in fishing units. For the traditional gears, the trend of landings and number of fishing units correlated positively. As the number of fishing efforts stabilised, the catches adjusted accordingly. This could indicate that the resources in Sarawak was yet to be exploited to the maximum.
- 6.8 The same goes for Sabah where even though the number of trawlers reduced by 10.9%, the landings still increased by 13.7%. The landings by purse seiners also increased inspite the significant reduction in the fishing units.

## 7. AQUACULTURE

- 7.1 The total production from aquaculture was 53,118.92 m.t., an increase of 13.1% over 1988. Sarawak registered the most growth in production by 92.4% to 212.28 m.t, followed by Sabah with a growth of 48.3% to 140.48 m.t. The industry in Peninsular Malaysia enjoyed an increase of 9.2%, in production to 52,766.16 m.t.
- 7.2 The improvement was brought about mainly due to more land being utilised for aquaculture, from 4,397.56 ha to 5,483.37 ha. The expansion in land area was highest in Sarawak, that is by 30.7% to 192.37 ha. The aquaculture land area in Peninsular Malaysia grew by 27.5% to 3,986.03 ha. In Sabah the total land used for aquaculture was 1,304.97 ha., increased by 16.0%. Table 4 shows the changes in number of culturists, area, and production in 1989 as compared to 1988.

Table 4 : Number of Culturist, Land Area and Production - 1988 and 1989 - Malaysia

| Area         | 1988                |                  |                      | 1989                |                  |                      |
|--------------|---------------------|------------------|----------------------|---------------------|------------------|----------------------|
|              | Number<br>Culturist | * Area<br>(ha..) | Production<br>(m.t.) | Number<br>Culturist | * Area<br>(ha..) | Production<br>(m.t.) |
| Pen.Malaysia | 12,901              | 3,125.00         | 42,397.60            | 15,397              | 3,986.03         | 46,306.64            |
| Sarawak      | 947                 | 47.14            | 110.32               | 1,186               | 192.37           | 212.28               |
| Sabah        | 7,804               | 1,125.37         | 4,450.00             | 8,878               | 1,304.97         | 6,600.00             |
| Malaysia     | 21,652              | 4,397.56         | 46,957.92            | 25,461              | 5,483.37         | 53,118.92            |

\* Area does not include cages.

- 7.3 The value of aquaculture production increased 32.6% to \$118 million. The increase was due to increased production and more high-valued species being produced, like marine prawns. The improvement in volume and price suggests that the industry had grown not only physically but also from the aspects of technology and management. Table 5 shows the changes in value of aquaculture production in 1989 as compared to 1988.

Table 5: Production value of Aquaculture-  
1988 and 1989 (M\$'000)-Malaysia

| Area          | 1988(\$'000) | 1989(\$'000) |
|---------------|--------------|--------------|
| Pen. Malaysia | \$58,078.92  | \$ 77,959.49 |
| Sarawak       | \$ 547.99    | \$ 1,700.46  |
| Sabah         | \$31,000.00  | \$ 38,547.00 |
| Malaysia      | \$89,626.91  | \$118,206.95 |

- 7.4 The aquaculture industry in Malaysia can be divided into Freshwater or Brackish water culture. These cultures can be further divided into various systems like ponds, ex-mining ponds and cages. Brackish water culture also includes cockle and mussel cultures.
- 7.5 Freshwater culture in ponds and ex-mining ponds increased 15.0 % to 23,645 units in terms of numbers, and 11.7% to 14,207 persons in terms of culturists. Likewise, the production increased 3.5% to 8,051.25 m.t., and the value increased 18.7% to \$45 million. The increase in value was made possible with the increase in the prices of some fishes like Javanese Carp (\$0.58/kg), Common Carp (\$0.39/kg), grass carp (\$1.43/kg), and big head carp (\$1.99/kg).
- 7.6 The number of fresh water cages increased by 32 units to 948 units and the number of culturists increased 2.7% to 495. However, the production doubled to 141.32 metric tonnes enjoying a four fold increase in value at \$682,840. The success of the cage culture could be contributed to the technological improvement, better management and marketing.
- 7.7 The fish/prawn brackish water pond culture did equally well, registering an encouraging growth. The number of ponds increased 63.8% to 1,816 units on a total area of 1,396.77 ha. The production went up 44.0% to 2,134.39 m.t. at a value of \$35,271,150. The main production was tiger prawn at 1,961.78 m.t., and banana prawn at 105.38 m.t.
- 7.8 The number of brackishwater cages increased 38.0% to 22,865 units, producing 1,895.08 m.t. of fish (an increase of 28.9%). The value was \$ 18,319,060. The better production could be contributed by the culturists practising better management.
- 7.9 The cockle culture also improved with a growth of 12.8% in production at 39,346.12 m.t., valued at \$18,180,900. Similarly the mussel culture also recorded an increase of 13.4% in production, at 1,550.76 m.t, valued at \$718,820.

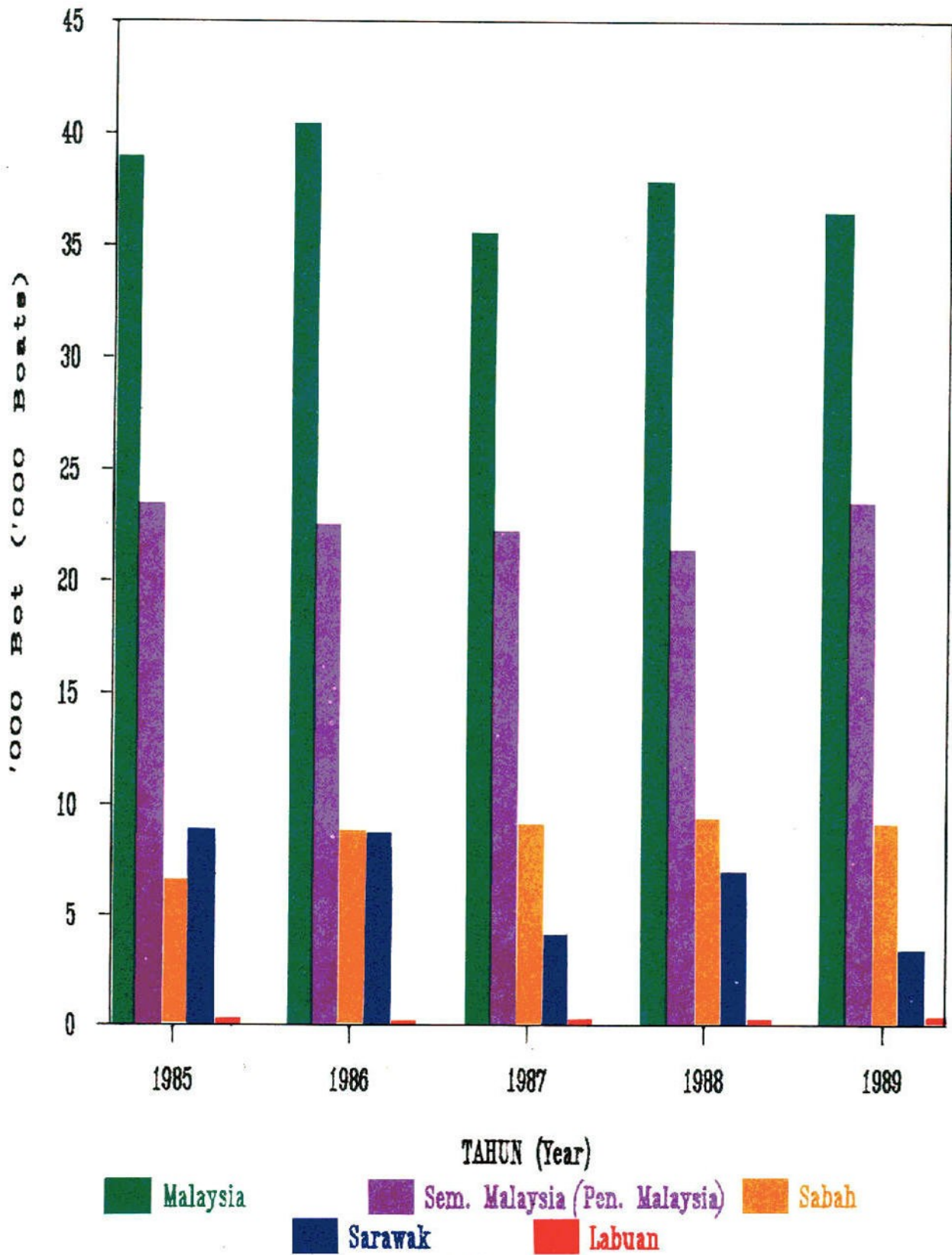
Table 6: Productions and value of Various Culture Systems, 1988 - 1989

| Systems             | 1988       |               | 1989       |               |
|---------------------|------------|---------------|------------|---------------|
|                     | Prod(m.t.) | Value(\$'000) | Prod(m.t.) | Value(\$'000) |
| Freshwater Pond     | 7,777.28   | \$37,948.05   | 8,051.25   | \$ 45,034.18  |
| Freshwater Cages    | 52.48      | \$ 171.44     | 141.32     | \$ 682.84     |
| Brackishwater Pond  | 1,313.90   | \$23,624.11   | 2,134.39   | \$ 35,271.15  |
| Brackishwater Cages | 1,579.28   | \$15,876.93   | 1,895.08   | \$ 18,319.06  |
| Cockle              | 34,867.00  | \$11,535.09   | 39,346.12  | \$ 18,180.90  |
| Mussel              | 1,367.98   | \$ 471.29     | 1,550.76   | \$ 718.82     |
| Total               | 46,957.92  | \$89,626.90   | 53,118.92  | \$118,206.95  |

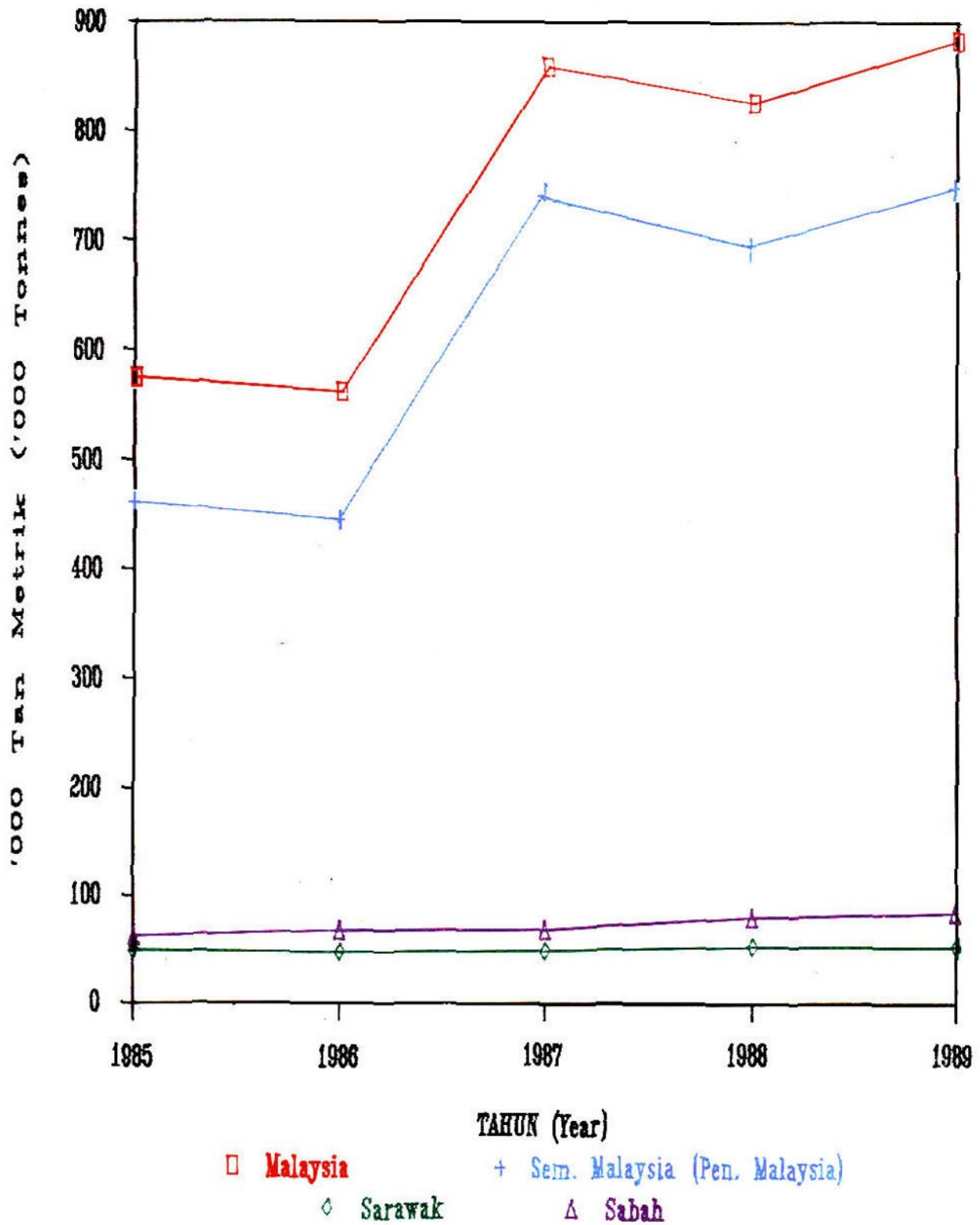
## 8. ORNAMENTAL FISH

- 8.1 With suitable climatic conditions, Malaysia is a suitable place for tropical ornamental fish culture. This industry was in fact quite establish however due to it's recent favourable expansion, their production was monitored in early 1989.
- 8.2 On the whole the industry produced more than 70 million ornamental fishes valued at more than \$16 million in 1989. States which were actively involved were Perak (54.4%) followed by Johore (42.9%). Other states included Selangor (2.3%) and Penang (0.4%). Productions in the rest of the states were still insignificant.

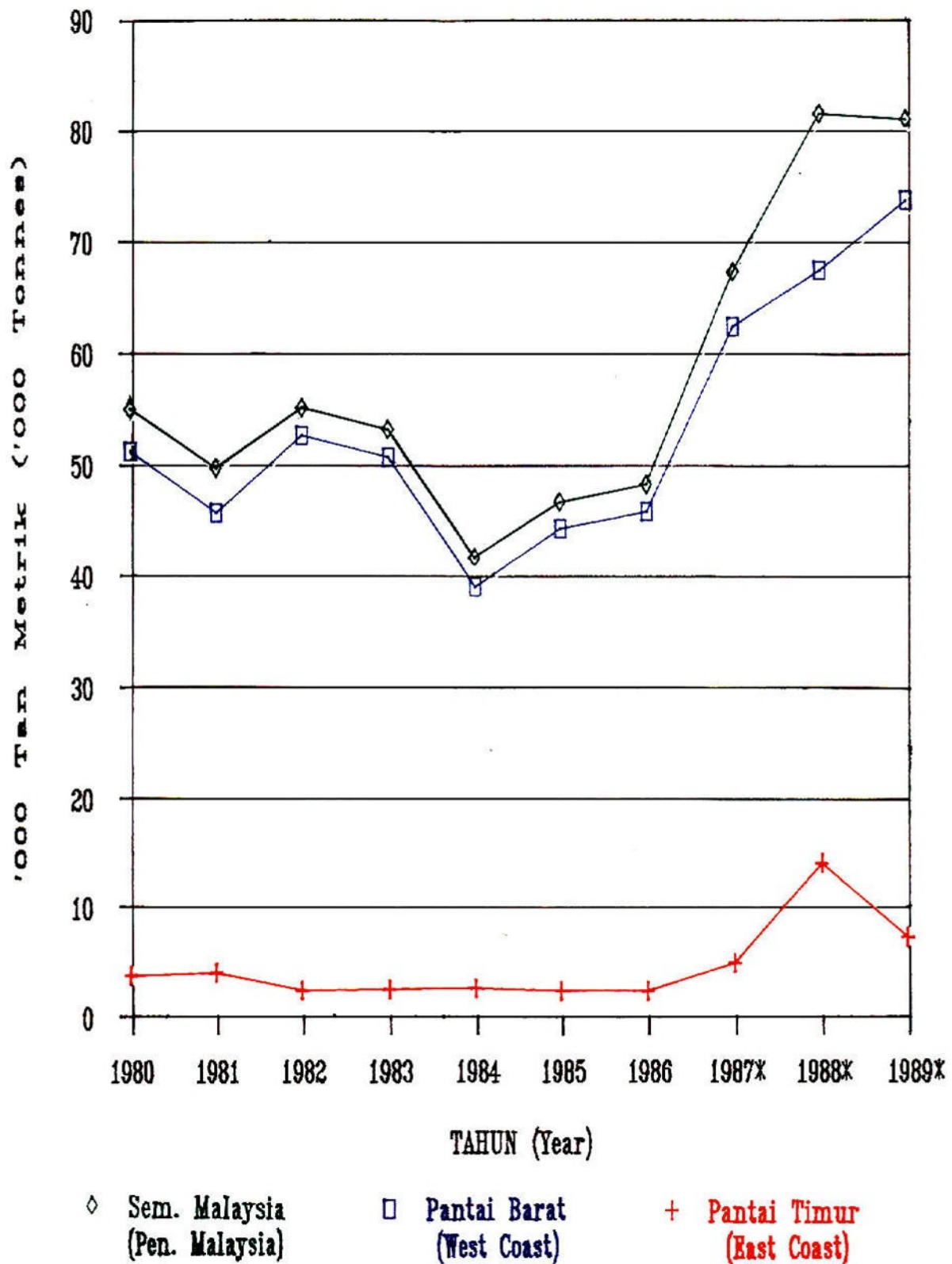
MALAYSIA  
**BIL. BOT MENANGKAP IKAN YANG DILESENKAN**  
 (Number Of Fishing Boats Licensed)



MALAYSIA  
ARAH ALIRAN PENDARATAN IKAN LAUT  
(1985 - 1989)  
(Trend Of Marine Fish Landings)



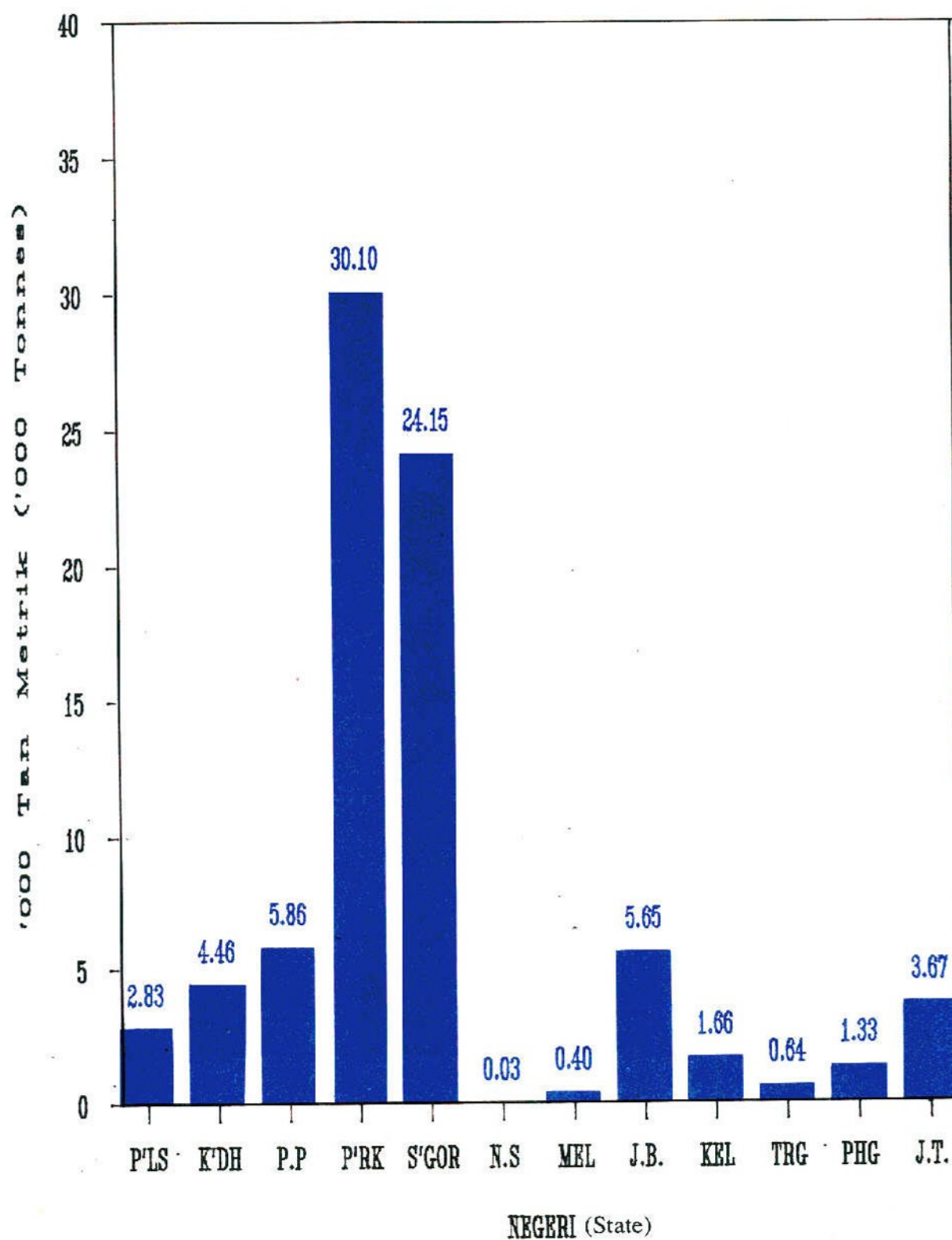
SEMENANJUNG MALAYSIA  
 (Peninsular Malaysia)  
**ARAH ALIRAN PENDARATAN UDANG, 1980 - 1989**  
 (Trend Of Prawn Landings, 1980 - 1989)



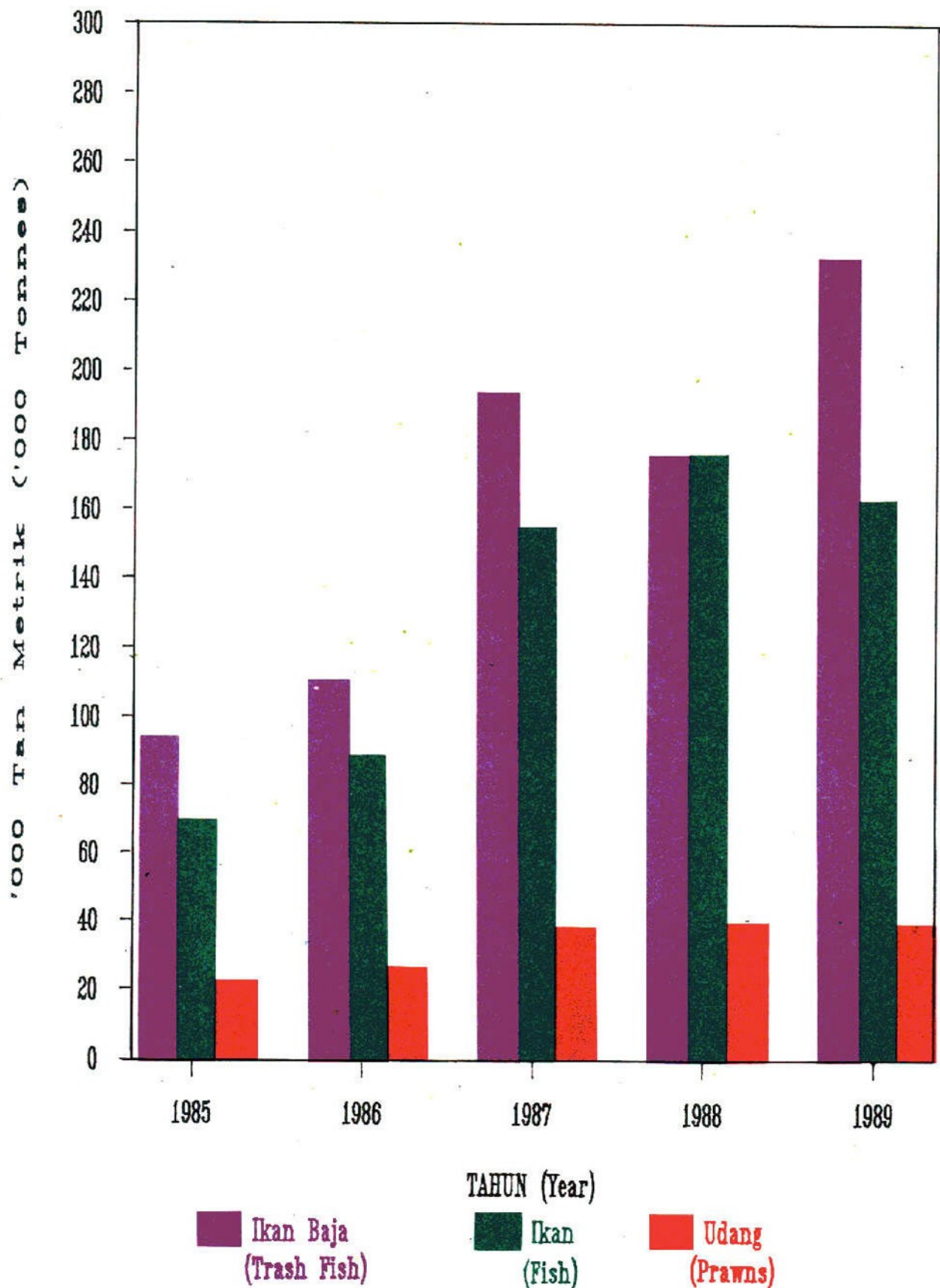
\* Nilai Untuk 1987, 1988 dan 1989 Termasuk Udang Baring  
 (Values for 1987, 1988 and 1989 include shrimps)

CARTA (CHART) D

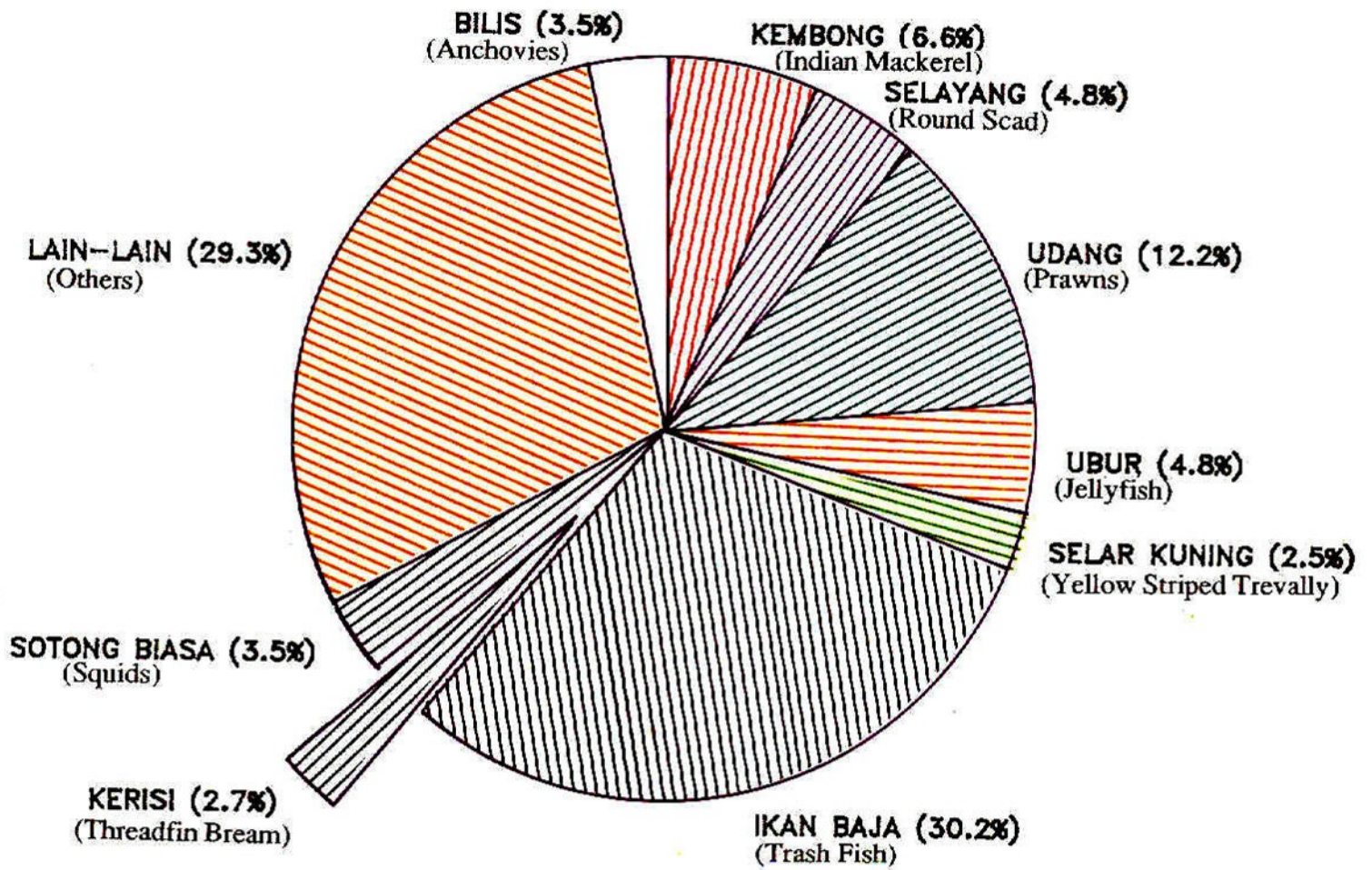
SEMENANJUNG MALAYSIA  
(Peninsular Malaysia)  
PENDARATAN UDANG, 1989  
(Prawn Landings, 1989)



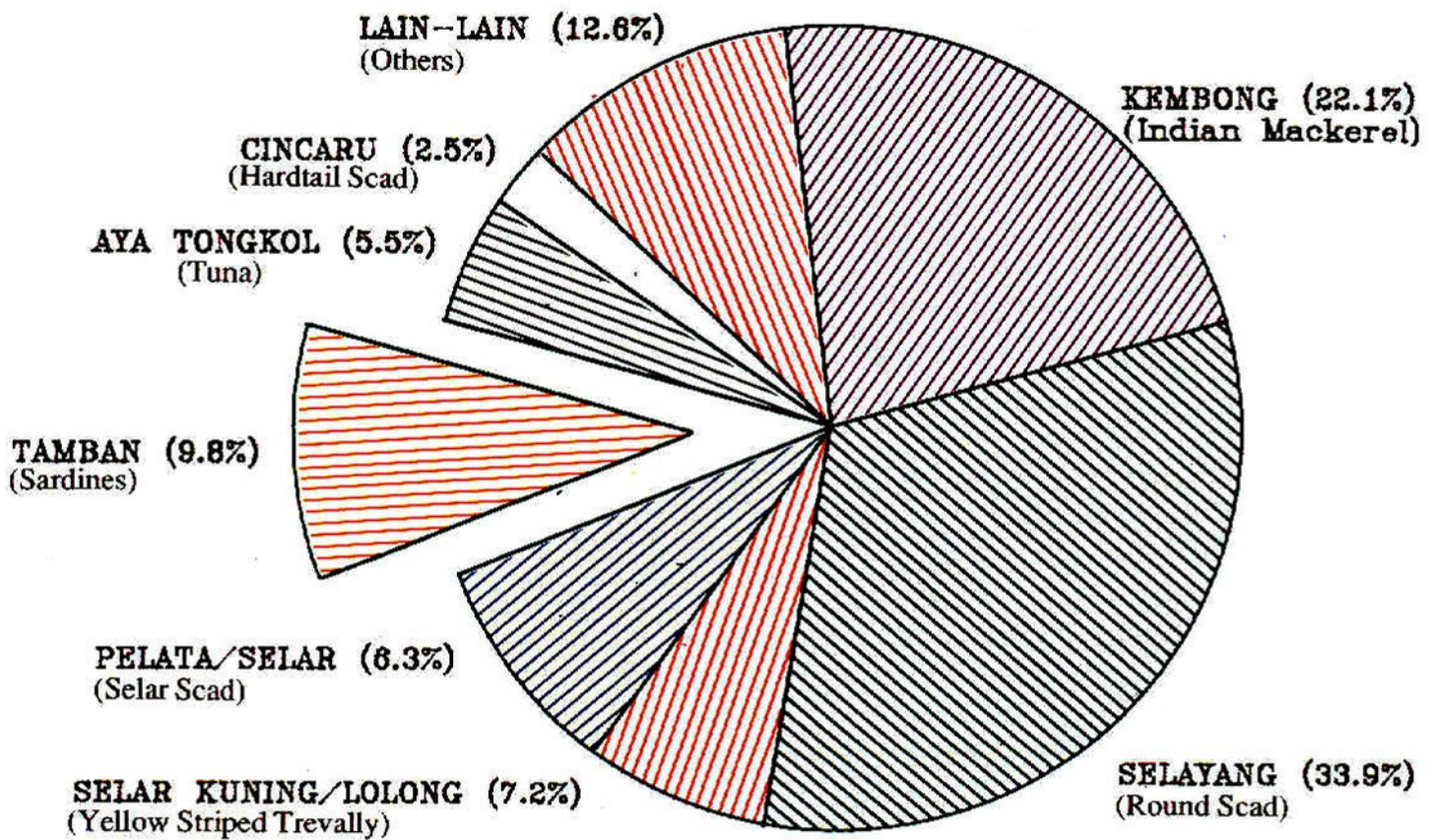
SEMENANJUNG MALAYSIA  
(Peninsular Malaysia)  
**PENDARATAN PUKAT TUNDA, 1985 - 1989**  
(Trawl Landings, 1985 - 1989)



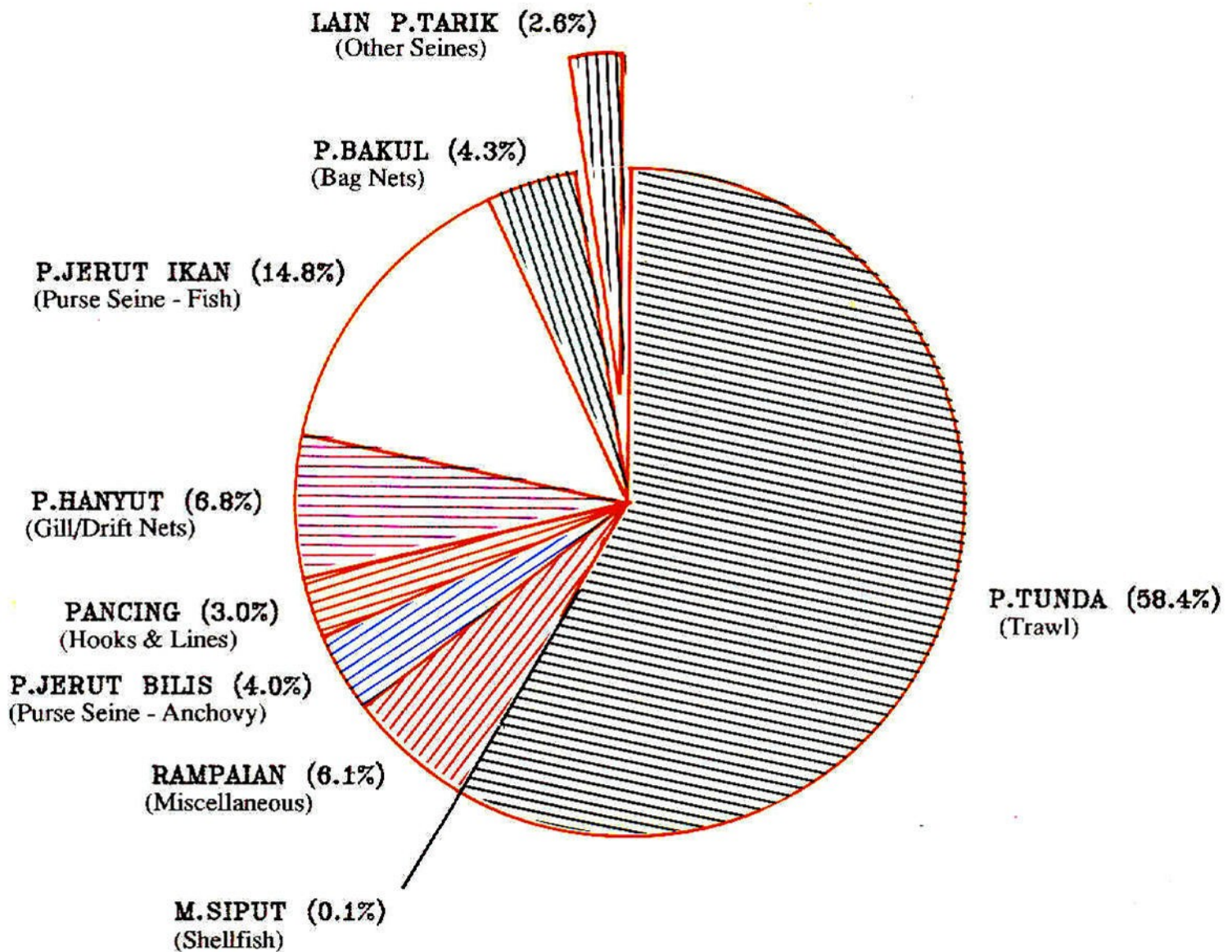
MALAYSIA  
**PENDARATAN MENGIKUT SPESIES UTAMA, 1989**  
 (Landings Of Fish By Main Species, 1989)



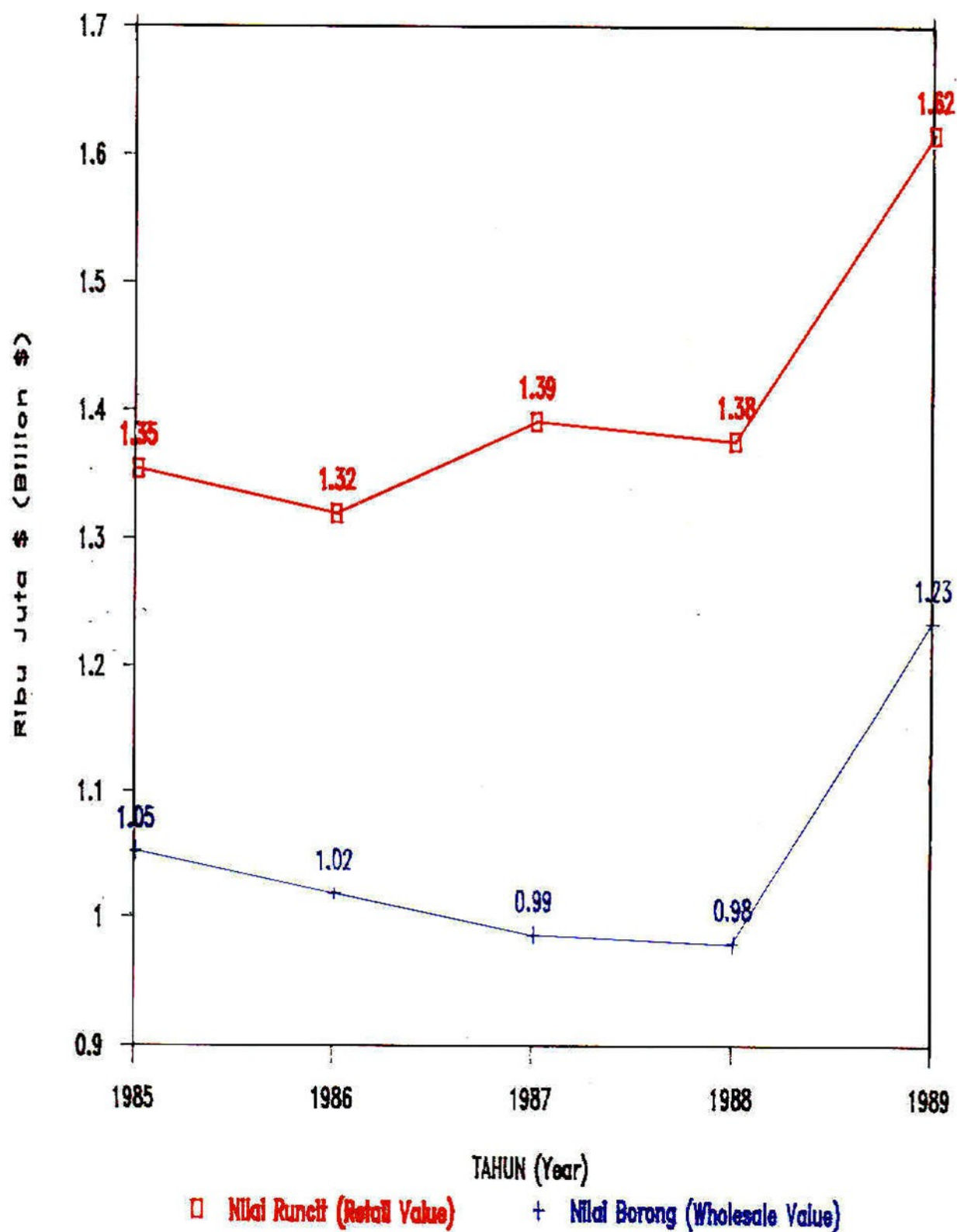
SEMENANJUNG MALAYSIA  
(Peninsular Malaysia)  
**PENDARATAN PUKAT JERUT, 1989**  
(MENGIKUT SPESIES UTAMA)  
(Purse Seine Landings, 1989)  
(By Main Species)



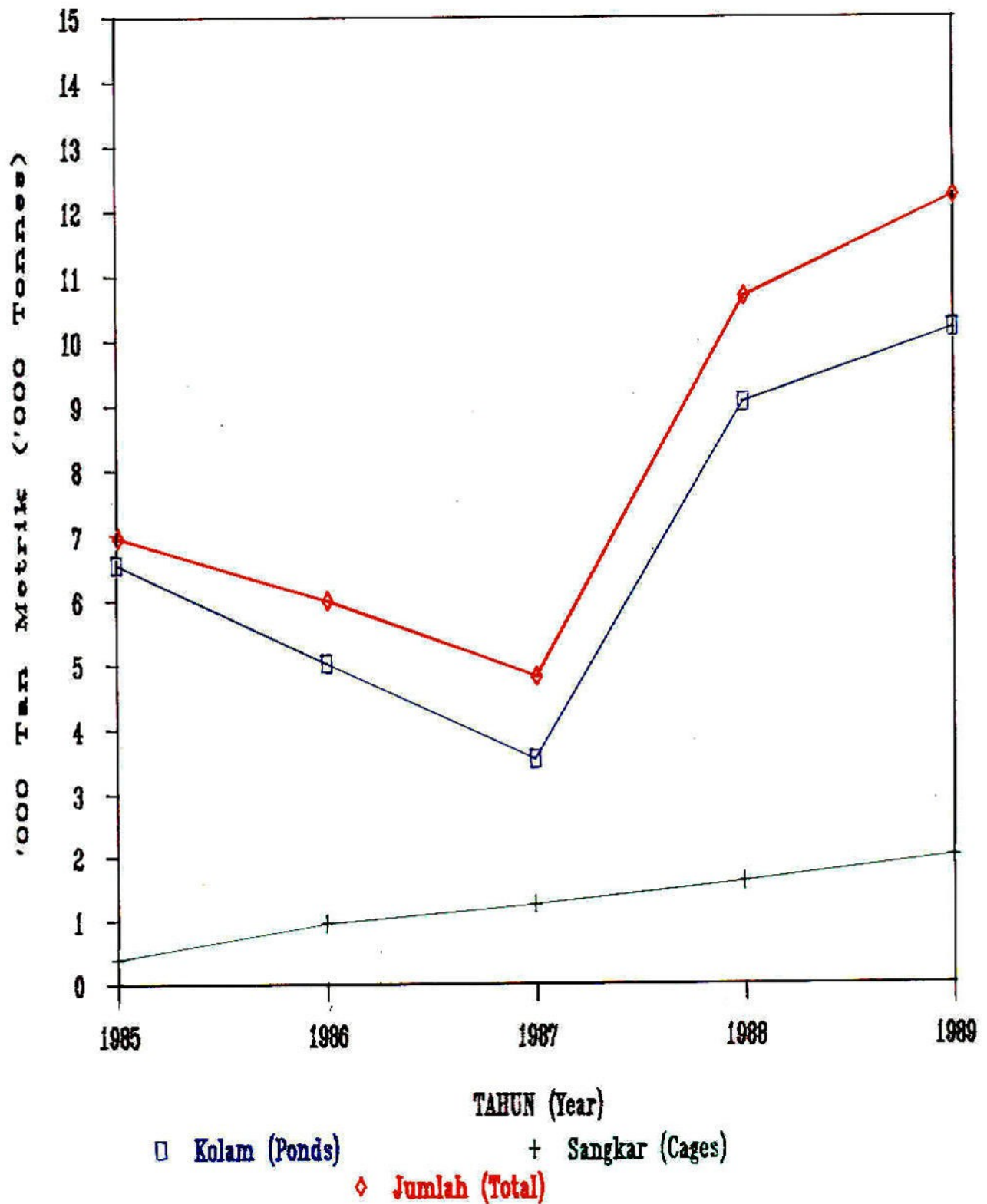
SEMENANJUNG MALAYSIA  
(Peninsular Malaysia)  
**PENDARATAN IKAN LAUT, 1989**  
**MENGIKUT KUMPULAN PERKAKAS**  
(Landings of Marine Fish by Gear Group, 1989)



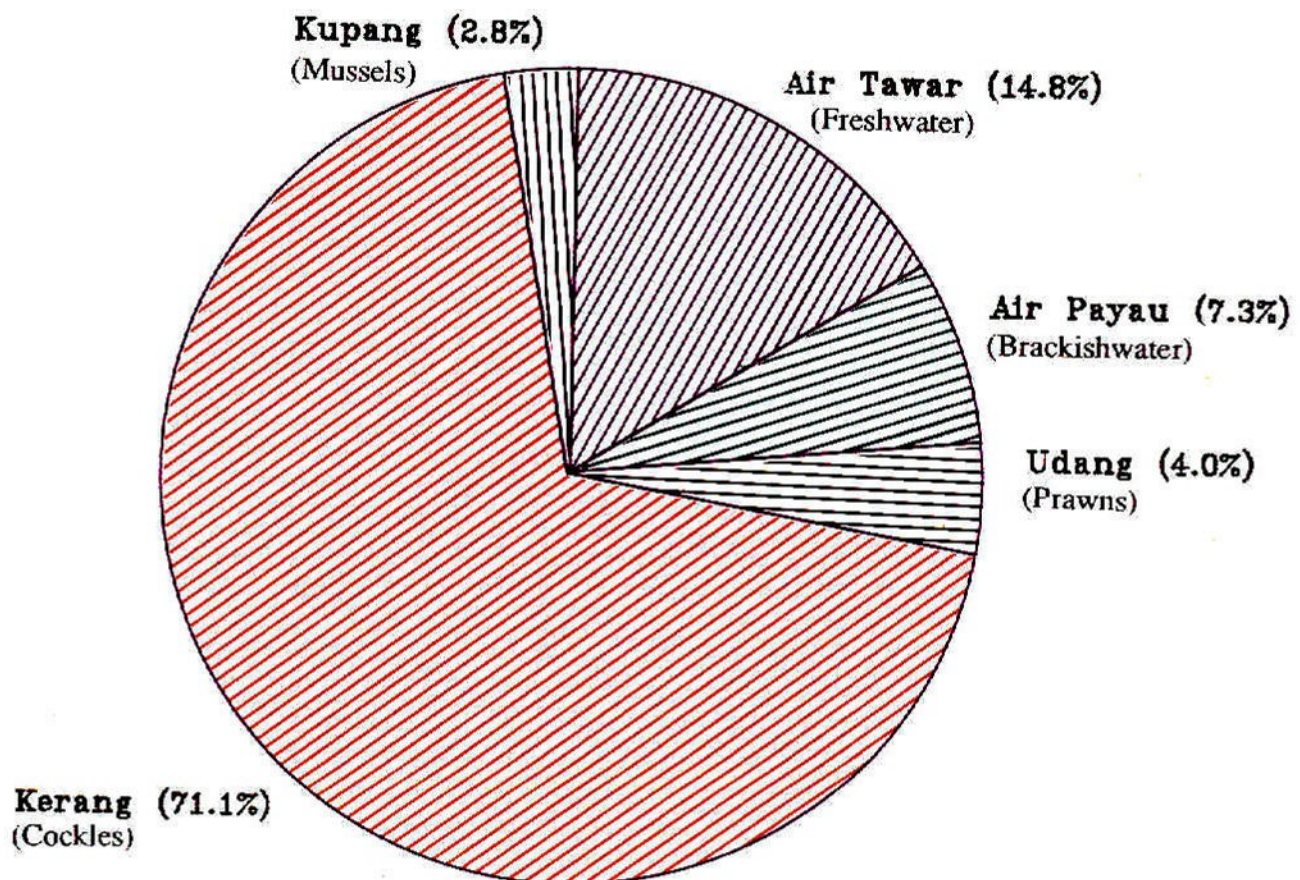
SEMENANJUNG MALAYSIA  
(Peninsular Malaysia)  
ARAH ALIRAN NILAI PASARAN IKAN LAUT  
(1985 - 1989)  
(Market Values Of Marine Fish)  
(1985 - 1989)



MALAYSIA  
ARAH ALIRAN PENGELUARAN IKAN TERNAKAIR  
(1985 - 1989)  
(Trend Of Aquaculture Production)



MALAYSIA  
PENDARATAN SEKTOR AKUAKULTUR, 1989  
MENGIKUT JENIS TERNAKAN  
(Production of Aquaculture by Type)



MALAYSIA  
BILANGAN NELAYAN YANG BEKERJA DI ATAS BOT-BOT BERLESEN 1989  
NUMBER OF FISHERMEN WORKING IN LICENSED BOATS, 1989

JADUAL (TABLE) 1.1

| Negeri/State<br><br>Keturunan/<br>Ethnic Group | Pantai Barat/West Coast |       |                           |        |                     |                    |                   |                                  |                              | Pantai Timur/East Coast |            |                           |                                  |                              | Sarawak | Sabah  | W.P.<br>Labuan,<br>Federal<br>Territory | Jumlah<br>Kecil<br>Sub-Total | Jumlah<br>Besar<br>Grand Total |
|------------------------------------------------|-------------------------|-------|---------------------------|--------|---------------------|--------------------|-------------------|----------------------------------|------------------------------|-------------------------|------------|---------------------------|----------------------------------|------------------------------|---------|--------|-----------------------------------------|------------------------------|--------------------------------|
|                                                | Perlis                  | Kedah | Pulau<br>Pinang<br>Penang | Perak  | Selangor<br>D.Ehsan | Negeri<br>Sembilan | Melaka<br>Malacca | Johor<br>Barat<br>West<br>Johore | Jumlah<br>Kecil<br>Sub-Total | Kelantan                | Terengganu | Pahang<br>Darul<br>Makmur | Johor<br>Timur<br>East<br>Johore | Jumlah<br>Kecil<br>Sub-Total |         |        |                                         |                              |                                |
| Bumiputera<br>Bumiputras                       | 2,161                   | 6,711 | 2,262                     | 2,097  | 938                 | 167                | 1,296             | 2,412                            | 18,044                       | 3,529                   | 7,995      | 3,833                     | 2,506                            | 17,863                       | 10,492  | 10,680 | 310                                     | 21,482                       | 57,389                         |
| Cina<br>Chinese                                | 260                     | 792   | 2,800                     | 8,787  | 4,914               | 266                | 412               | 2,195                            | 20,426                       | 8                       | 27         | 497                       | 1,485                            | 2,017                        | 1,815   | 1,910  | 9                                       | 3,734                        | 28,177                         |
| India<br>Indians                               | 0                       | 0     | 57                        | 271    | 77                  | 40                 | 1                 | 6                                | 452                          | 0                       | 0          | 0                         | 2                                | 2                            | 0       | 0      | 0                                       | 0                            | 454                            |
| Portugis<br>Portuguese                         | 0                       | 0     | 0                         | 0      | 0                   | 2                  | 96                | 0                                | 98                           | 0                       | 0          | 0                         | 0                                | 0                            | 0       | 0      | 0                                       | 0                            | 98                             |
| Thai<br>Thais                                  | 1,723                   | 747   | 0                         | 0      | 0                   | 0                  | 1                 | 6                                | 2,477                        | 0                       | 0          | 888                       | 0                                | 888                          | 0       | 0      | 0                                       | 0                            | 3,365                          |
| Indonesia<br>Indonesians                       | 0                       | 0     | 0                         | 0      | 0                   | 13                 | 82                | 0                                | 95                           | 0                       | 0          | 0                         | 0                                | 0                            | 0       | 1,680  | 0                                       | 1,680                        | 1,775                          |
| Lain-lain<br>Others                            | 2                       | 0     | 0                         | 0      | 18                  | 0                  | 0                 | 170                              | 190                          | 0                       | 0          | 26                        | 2                                | 28                           | 51      | 3,980  | 38                                      | 4,069                        | 4,287                          |
| Jumlah Besar<br>Grand Total                    | 4,148                   | 8,250 | 5,119                     | 11,155 | 5,947               | 488                | 1,888             | 4,789                            | 41,782                       | 3,537                   | 8,022      | 5,244                     | 3,995                            | 20,798                       | 12,358  | 18,250 | 357                                     | 30,985                       | 93,545                         |

MALAYSIA  
BILANGAN NELAYAN BEKERJA DI ATAS BOT-BOT BERLESEN MENGIKUT KUMPULAN PERKAKAS DAN NEGERI, 1989  
NUMBER OF FISHERMEN WORKING IN LICENSED BOATS BY GEAR GROUP AND STATE, 1989

JADUAL (TABLE) 1.2

| Negeri/State<br>Kumpulan Perkakas/<br>Gear Group | Perlis | Kedah | P.Pinang<br>Penang | Perak  | Selangor<br>Darul<br>Ehsan | Negeri<br>Sembilan | Melaka<br>Malacca | Johor Barat<br>West Johore | Kelantan | Terengganu | Pahang<br>Darul<br>Makmur | Johor Timur<br>East Johore | Jumlah<br>Kecil<br>Sub-<br>Total | Sarawak | Sabah  | W.P.<br>Labuan | Jumlah<br>Kecil<br>Sub-<br>Total | Jumlah<br>Besar<br>Grand<br>Total |
|--------------------------------------------------|--------|-------|--------------------|--------|----------------------------|--------------------|-------------------|----------------------------|----------|------------|---------------------------|----------------------------|----------------------------------|---------|--------|----------------|----------------------------------|-----------------------------------|
| Pukat Tunda/Trawl Nets                           | 849    | 2,010 | 424                | 3,799  | 1,331                      | 0                  | 0                 | 817                        | 424      | 972        | 1,372                     | 1,225                      | 13,223                           | 4,745   | 6,000  | 12             | 10,757                           | 23,960                            |
| Pukat Tarik/Seine Nets:                          |        |       |                    |        |                            |                    |                   |                            |          |            |                           |                            |                                  |         |        |                |                                  |                                   |
| Pukat Jerut Ikan                                 |        |       |                    |        |                            |                    |                   |                            |          |            |                           |                            |                                  |         |        |                |                                  |                                   |
| Purse Seine-Fish                                 | 2,360  | 286   | 485                | 863    | 298                        | 0                  | 0                 | 0                          | 896      | 2,530      | 1,784                     | 713                        | 10,215                           | 282     | 2,460  | 40             | 2,782                            | 12,997                            |
| Pukat Jerut Bilis                                | 0      | 2,217 | 0                  | 218    | 0                          | 0                  | 0                 | 0                          | 35       | 418        | 268                       | 0                          | 3,156                            | 0       | 0      | 0              | 0                                | 3,156                             |
| Purse Seine-Anchovy                              |        |       |                    |        |                            |                    |                   |                            |          |            |                           |                            |                                  |         |        |                |                                  |                                   |
| Lain-Lain/Other Seines                           | 6      | 135   | 583                | 1,487  | 23                         | 9                  | 21                | 31                         | 95       | 57         | 9                         | 4                          | 2,460                            | 11      | 0      | 0              | 11                               | 2,471                             |
| Pukat Hanyut                                     | 892    | 3,377 | 3,283              | 3,650  | 3,441                      | 416                | 1,660             | 3,255                      | 1,385    | 1,134      | 588                       | 1,586                      | 24,667                           | 5,032   | 4,755  | 146            | 9,933                            | 34,600                            |
| Gill/Drift Nets                                  |        |       |                    |        |                            |                    |                   |                            |          |            |                           |                            |                                  |         |        |                |                                  |                                   |
| Pukat Tangguk/Lift Nets                          | 9      | 83    | 0                  | 0      | 3                          | 0                  | 0                 | 2                          | 123      | 167        | 166                       | 11                         | 564                              | 44      | 1,110  | 0              | 1,154                            | 1,718                             |
| Perangkap/Traps:                                 |        |       |                    |        |                            |                    |                   |                            |          |            |                           |                            |                                  |         |        |                |                                  |                                   |
| Belat-Belat (Stationary)                         | 0      | 1     | 1                  | 0      | 2                          | 0                  | 5                 | 49                         | 0        | 0          | 0                         | 21                         | 79                               | 129     | 255    | 27             | 411                              | 490                               |
| Bubu (Portable)                                  | 0      | 4     | 73                 | 154    | 0                          | 30                 | 0                 | 216                        | 51       | 462        | 420                       | 54                         | 1,464                            | 134     | 260    | 9              | 403                              | 1,867                             |
| Pancing/Hooks & Lines                            | 30     | 52    | 136                | 389    | 169                        | 23                 | 187               | 131                        | 528      | 2,184      | 595                       | 289                        | 4,713                            | 269     | 2,110  | 103            | 2,482                            | 7,195                             |
| Pukat Bakul/Bag Nets                             | 0      | 39    | 116                | 180    | 412                        | 0                  | 0                 | 111                        | 0        | 0          | 0                         | 16                         | 874                              | 1,096   | 0      | 0              | 1,096                            | 1,970                             |
| Pukat Surung                                     | 0      | 0     | 6                  | 10     | 0                          | 0                  | 0                 | 28                         | 0        | 0          | 0                         | 0                          | 44                               | 243     | 0      | 20             | 263                              | 307                               |
| Push/Scoop Nets                                  |        |       |                    |        |                            |                    |                   |                            |          |            |                           |                            |                                  |         |        |                |                                  |                                   |
| Pukat Rentang                                    | 0      | 39    | 0                  | 0      | 43                         | 0                  | 12                | 54                         | 0        | 0          | 0                         | 10                         | 158                              | 360     | 0      | 0              | 360                              | 518                               |
| Barrier Nets                                     |        |       |                    |        |                            |                    |                   |                            |          |            |                           |                            |                                  |         |        |                |                                  |                                   |
| Memungut Siput                                   | 0      | 0     | 0                  | 202    | 4                          | 5                  | 0                 | 93                         | 0        | 0          | 0                         | 0                          | 304                              | 0       | 0      | 0              | 0                                | 304                               |
| Shellfish Collection                             |        |       |                    |        |                            |                    |                   |                            |          |            |                           |                            |                                  |         |        |                |                                  |                                   |
| Pembawa Ikan                                     | 0      | 0     | 4                  | 2      | 201                        | 0                  | 0                 | 0                          | 0        | 98         | 38                        | 6                          | 349                              | 0       | 0      | 0              | 0                                | 349                               |
| Fish Carriers                                    |        |       |                    |        |                            |                    |                   |                            |          |            |                           |                            |                                  |         |        |                |                                  |                                   |
| Rampaian/Miscellaneous                           | 0      | 7     | 8                  | 201    | 20                         | 5                  | 3                 | 2                          | 0        | 0          | 4                         | 60                         | 310                              | 13      | 1,300  | 0              | 1,313                            | 1,623                             |
| Jumlah/Total                                     | 4,146  | 8,250 | 5,119              | 11,155 | 5,947                      | 488                | 1,888             | 4,789                      | 3,537    | 8,022      | 5,244                     | 3,995                      | 62,580                           | 12,358  | 18,250 | 357            | 30,965                           | 93,545                            |

JADUAL (TABLE) 1.3

**MALAYSIA**  
**BILANGAN NELAYAN YANG BEKERJA DIATAS BOT YANG DILESENKAN MENGIKUT**  
**DAERAH-DAERAH PERIKANAN, 1989**  
**NUMBER OF FISHERMEN WORKING IN LICENSED FISHING BOATS BY FISHERIES DISTRICTS**

| Daerah-Daerah Perikanan<br>(Fisheries Districts) | Nelayan-Nelayan/Fishermen |                 |                  |                     |                 |
|--------------------------------------------------|---------------------------|-----------------|------------------|---------------------|-----------------|
|                                                  | Bumiputera<br>Bumiputeras | Cina<br>Chinese | India<br>Indians | Lain-Lain<br>Others | Jumlah<br>Total |
| <b>SEM. MALAYSIA/PEN. MALAYSIA</b>               |                           |                 |                  |                     |                 |
| 1) Kuala Perlis                                  | 2,161                     | 260             | 0                | 1,725               | 4,146           |
| 2) Langkawi                                      | 1,751                     | 16              | 0                | 726                 | 2,493           |
| 3) Kedah Utara                                   | 2,388                     | 622             | 0                | 14                  | 3,024           |
| 4) Kedah Selatan                                 | 2,572                     | 154             | 0                | 7                   | 2,733           |
| 5) Timur Laut/P.Pinang                           | 362                       | 533             | 21               | 0                   | 916             |
| 6) Barat Daya/P.Pinang                           | 593                       | 998             | 5                | 0                   | 1,596           |
| 7) Seberang Prai Utara                           | 730                       | 231             | 6                | 0                   | 967             |
| 8) Seberang Prai Tengah                          | 232                       | 95              | 0                | 0                   | 327             |
| 9) Seberang Prai Selatan                         | 345                       | 943             | 25               | 0                   | 1,313           |
| 10) Krian                                        | 483                       | 2,159           | 6                | 0                   | 2,648           |
| 11) Larut & Matang                               | 350                       | 2,410           | 5                | 0                   | 2,765           |
| 12) Manjong                                      | 978                       | 2,345           | 259              | 0                   | 3,582           |
| 13) Hilir Perak                                  | 286                       | 1,873           | 1                | 0                   | 2,160           |
| 14) Selangor Utara                               | 225                       | 1,797           | 5                | 0                   | 2,027           |
| 15) Selangor Tengah                              | 230                       | 962             | 13               | 0                   | 1,205           |
| 16) Pelabuhan Klang I                            | 0                         | 1,070           | 0                | 0                   | 1,070           |
| 17) Pelabuhan Klang II                           | 214                       | 616             | 8                | 0                   | 838             |
| 18) Selangor Selatan                             | 269                       | 469             | 51               | 18                  | 807             |
| 19) Port Dickson                                 | 167                       | 266             | 40               | 15                  | 488             |
| 20) Melaka                                       | 1,296                     | 412             | 1                | 179                 | 1,888           |
| 21) Muar                                         | 508                       | 425             | 2                | 0                   | 935             |
| 22) Batu Pahat                                   | 205                       | 534             | 0                | 75                  | 814             |
| 23) Pontian                                      | 491                       | 927             | 0                | 13                  | 1,431           |
| 24) Johor Bahru                                  | 1,208                     | 309             | 4                | 88                  | 1,609           |
| 25) Pengerang (Kota Tinggi)                      | 464                       | 430             | 1                | 2                   | 897             |
| 26) Sedeli                                       | 687                       | 342             | 1                | 0                   | 1,030           |
| 27) Mersing                                      | 1,355                     | 713             | 0                | 0                   | 2,068           |
| 28) Kuantan                                      | 2,113                     | 207             | 0                | 914                 | 3,234           |
| 29) Pekan                                        | 1,167                     | 63              | 0                | 0                   | 1,230           |
| 30) Kuala Rompin                                 | 553                       | 227             | 0                | 0                   | 780             |
| 31) Kemaman                                      | 1,520                     | 1               | 0                | 0                   | 1,521           |
| 32) Dungun                                       | 1,067                     | 4               | 0                | 0                   | 1,071           |
| 33) Marang                                       | 853                       | 0               | 0                | 0                   | 853             |
| 34) Kuala Terengganu Utara                       | 967                       | 0               | 0                | 0                   | 967             |
| 35) Kuala Terengganu Selatan                     | 1,507                     | 9               | 0                | 0                   | 1,516           |
| 36) Besut                                        | 1,631                     | 0               | 0                | 0                   | 1,631           |
| 37) Setiu                                        | 450                       | 13              | 0                | 0                   | 463             |
| 38) Kota Bharu                                   | 1,400                     | 1               | 0                | 0                   | 1,401           |
| 39) Bachok & Pasir Putih                         | 1,161                     | 1               | 0                | 0                   | 1,162           |
| 40) Tumpat                                       | 968                       | 6               | 0                | 0                   | 974             |
| Jumlah Kecil/Sub-Total                           | 35,907                    | 22,443          | 454              | 3,776               | 62,580          |

Samb. (Cont'd) Jadual (Table) 1.3

| Daerah-Daerah Perikanan<br>(Fisheries Districts) | Nelayan-Nelayan/Fishermen |                 |                  |                     | Jumlah<br>Total |
|--------------------------------------------------|---------------------------|-----------------|------------------|---------------------|-----------------|
|                                                  | Bumiputera<br>Bumiputeras | Cina<br>Chinese | India<br>Indians | Lain-Lain<br>Others |                 |
| <b>SARAWAK</b>                                   |                           |                 |                  |                     |                 |
| 1) B. Kuching                                    | 1,180                     | 699             | 0                | 0                   | 1,879           |
| 2) Santubong                                     | 617                       | 43              | 0                | 0                   | 660             |
| 3) Pendam (Sadong Jaya)                          | 734                       | 17              | 0                | 0                   | 751             |
| 4) Sematan                                       | 250                       | 27              | 0                | 0                   | 277             |
| 5) Batang Lupar                                  | 1,125                     | 24              | 0                | 0                   | 1,149           |
| 6) Saribas/Kalaka                                | 859                       | 30              | 0                | 0                   | 889             |
| 7) Sibulgan                                      | 598                       | 498             | 0                | 0                   | 1,096           |
| 8) Sarikei/Bitangor                              | 364                       | 117             | 0                | 0                   | 481             |
| 9) Mukah/Oya                                     | 1,176                     | 21              | 0                | 0                   | 1,197           |
| 10) Belawai                                      | 668                       | 14              | 0                | 0                   | 682             |
| 11) Matu Daro                                    | 783                       | 40              | 0                | 0                   | 823             |
| 12) Bintulu                                      | 633                       | 64              | 0                | 23                  | 720             |
| 13) Miri                                         | 912                       | 221             | 0                | 28                  | 1,161           |
| 14) Limbang                                      | 46                        | 0               | 0                | 0                   | 46              |
| 15) Lawas                                        | 547                       | 0               | 0                | 0                   | 547             |
| Jumlah Kecil/Sub-Total                           | 10,492                    | 1,815           | 0                | 51                  | 12,358          |
| <b>SABAH</b>                                     |                           |                 |                  |                     |                 |
| 1) Tawau                                         | 540                       | 150             | 0                | 210                 | 900             |
| 2) Sempoma                                       | 3,500                     | 40              | 0                | 2,660               | 6,200           |
| 3) Kunak                                         | 135                       | 15              | 0                | 50                  | 200             |
| 4) Lahad Datu                                    | 270                       | 10              | 0                | 220                 | 500             |
| 5) Sandakan                                      | 800                       | 1,000           | 0                | 900                 | 2,700           |
| 6) Baluran                                       | 700                       | 100             | 0                | 200                 | 1,000           |
| 7) Kudat                                         | 1,600                     | 200             | 0                | 800                 | 2,600           |
| 8) Kota Marudu                                   | 85                        | 15              | 0                | 150                 | 250             |
| 9) Kota Belut                                    | 600                       | 0               | 0                | 0                   | 600             |
| 10) Tuaran                                       | 750                       | 50              | 0                | 0                   | 800             |
| 11) Kota Kinabalu                                | 400                       | 150             | 0                | 350                 | 900             |
| 12) Papar                                        | 450                       | 30              | 0                | 70                  | 550             |
| 13) Beaufort                                     | 450                       | 100             | 0                | 50                  | 600             |
| 14) Kuala Penyu                                  | 200                       | 50              | 0                | 0                   | 250             |
| 15) Sipitang                                     | 200                       | 0               | 0                | 0                   | 200             |
| Jumlah Kecil/Sub-Total                           | 10,680                    | 1,910           | 0                | 5,660               | 18,250          |
| <b>WIL. PER. LABUAN/LABUAN F.T.</b>              |                           |                 |                  |                     |                 |
| 1) Kg. Bebuloh                                   | 65                        | 5               | 0                | 0                   | 70              |
| 2) Kg. Ranca-Ranca                               | 30                        | 1               | 0                | 2                   | 33              |
| 3) Kg. Lubok Temiang                             | 26                        | 0               | 0                | 0                   | 26              |
| 4) Kg. Batu Manikar                              | 10                        | 0               | 0                | 0                   | 10              |
| 5) Kg. Tg. Aru                                   | 8                         | 0               | 0                | 0                   | 8               |
| 6) Kg. Miri/Lada/Pagar                           | 13                        | 0               | 0                | 0                   | 13              |
| 7) Kg. Patau-Patau                               | 41                        | 0               | 0                | 8                   | 49              |
| 8) Lain-Lain Kampong                             | 117                       | 3               | 0                | 28                  | 148             |
| Jumlah Kecil/Sub-Total                           | 310                       | 9               | 0                | 38                  | 357             |
| <b>Jumlah Besar/Grand Total</b>                  | <b>57,389</b>             | <b>26,177</b>   | <b>454</b>       | <b>9,525</b>        | <b>93,545</b>   |

JADUAL (TABLE) 2.1

MALAYSIA  
 BILANGAN BOT MENANGKAP IKAN YANG DILESENKAN MENGIKUT NEGERI DAN KELAS MUATAN, 1989  
 NUMBER OF LICENSED FISHING BOATS BY STATE AND TONNAGE CLASS, 1989

| Jenis/Type<br>Negeri/State                    | Jumlah<br>Total | Bot Tiada<br>Berjentera<br>Non-Powered | Bot Berjentera<br>Sangkut<br>Outboard-Powered | BOT BERJENTERA DALAM/INBOARD-POWERED |              |              |                |                |                |                |                |                                  |
|-----------------------------------------------|-----------------|----------------------------------------|-----------------------------------------------|--------------------------------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------------------------|
|                                               |                 |                                        |                                               | Jumlah Kecil<br>Sub-Total            | 0-4.9<br>GRT | 5-9.9<br>GRT | 10-14.9<br>GRT | 15-19.9<br>GRT | 20-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& Ke atas<br>(& Above) |
| Pantai Barat/West Coast:                      |                 |                                        |                                               |                                      |              |              |                |                |                |                |                |                                  |
| Perlis                                        | 788             | 1                                      | 194                                           | 593                                  | 169          | 62           | 61             | 79             | 41             | 100            | 50             | 31                               |
| Kedah                                         | 2,499           | 15                                     | 1,133                                         | 1,351                                | 526          | 211          | 53             | 62             | 72             | 205            | 141            | 81                               |
| Pulau Pinang/Penang                           | 2,311           | 68                                     | 1,368                                         | 875                                  | 275          | 420          | 6              | 7              | 6              | 115            | 36             | 10                               |
| Perak                                         | 5,183           | 179                                    | 1,049                                         | 3,955                                | 973          | 1,216        | 638            | 480            | 155            | 142            | 288            | 63                               |
| Selangor                                      | 2,801           | 114                                    | 462                                           | 2,225                                | 94           | 1,434        | 234            | 128            | 35             | 188            | 106            | 6                                |
| Negeri Sembilan                               | 231             | 19                                     | 158                                           | 54                                   | 7            | 44           | 3              | 0              | 0              | 0              | 0              | 0                                |
| Melaka/Malacca                                | 938             | 76                                     | 609                                           | 253                                  | 17           | 236          | 0              | 0              | 0              | 0              | 0              | 0                                |
| Johor Barat/West Johore                       | 2,586           | 192                                    | 1,308                                         | 1,086                                | 199          | 604          | 70             | 160            | 40             | 11             | 0              | 2                                |
| Jumlah/Total                                  | 17,337          | 664                                    | 6,281                                         | 10,392                               | 2,260        | 4,227        | 1,065          | 916            | 349            | 761            | 621            | 193                              |
| Pantai Timur/East Coast:                      |                 |                                        |                                               |                                      |              |              |                |                |                |                |                |                                  |
| Kelantan                                      | 1,251           | 15                                     | 253                                           | 983                                  | 420          | 143          | 188            | 116            | 22             | 45             | 19             | 30                               |
| Terengganu                                    | 2,260           | 34                                     | 14                                            | 2,212                                | 353          | 720          | 525            | 360            | 85             | 84             | 52             | 33                               |
| Pahang                                        | 1,078           | 32                                     | 64                                            | 982                                  | 103          | 400          | 183            | 42             | 9              | 69             | 65             | 111                              |
| Johor Timur/East Johore                       | 1,533           | 61                                     | 534                                           | 938                                  | 129          | 298          | 129            | 30             | 23             | 110            | 175            | 44                               |
| Jumlah/Total                                  | 6,122           | 142                                    | 865                                           | 5,115                                | 1,005        | 1,561        | 1,025          | 548            | 139            | 308            | 311            | 218                              |
| Malaysia:                                     |                 |                                        |                                               |                                      |              |              |                |                |                |                |                |                                  |
| Semenanjung Malaysia/<br>Peninsular Malaysia  | 23,459          | 806                                    | 7,146                                         | 15,507                               | 3,265        | 5,788        | 2,090          | 1,464          | 488            | 1,069          | 932            | 411                              |
| Sarawak                                       | 7,165           | 52                                     | 1,782                                         | 5,331                                | 2,442        | 1,301        | 702            | 267            | 208            | 136            | 167            | 108                              |
| Sabah                                         | 9,200           | 800                                    | 5,000                                         | 3,400                                | 422          | 930          | 1,000          | 445            | 300            | 170            | 90             | 43                               |
| W. Persekutuan Labuan/<br>Labuan, F.Territory | 146             | 0                                      | 135                                           | 11                                   | 0            | 0            | 0              | 3              | 0              | 3              | 2              | 3                                |
| Jumlah/Total                                  | 39,970          | 1,658                                  | 14,063                                        | 24,249                               | 6,129        | 8,019        | 3,792          | 2,179          | 996            | 1,378          | 1,191          | 565                              |

JADUAL (TABLE) 2.2

MALAYSIA  
BILANGAN BOT MENANGKAP IKAN YANG DILESENKAN MENGIKUT NEGERI DAN KUASA KUDA, 1989  
NUMBER OF LICENSED FISHING BOATS BY STATE AND HORSEPOWER, 1989

| Negeri/State<br>Kuasa Kuda/Horsepower Of Engine | Perlis | Kedah | P.Pinang<br>Penang | Perak | Selangor<br>D.E. | Negeri<br>Sembilan | Melaka<br>Malacca | Johor<br>Barat<br>W.Johore | Jumlah<br>Kecil<br>Sub-Total | Kelantan | Terengganu | Pahang | Johor<br>Timur<br>E.Johore | Jumlah<br>Kecil<br>Sub-Total | Sarawak | Sabah | W.P.<br>Labuan | Jumlah<br>Kecil<br>Sub-Total | Jumlah<br>Besar<br>Grand-Total |
|-------------------------------------------------|--------|-------|--------------------|-------|------------------|--------------------|-------------------|----------------------------|------------------------------|----------|------------|--------|----------------------------|------------------------------|---------|-------|----------------|------------------------------|--------------------------------|
| Enjin Dalam/Inboard-Powered                     |        |       |                    |       |                  |                    |                   |                            |                              |          |            |        |                            |                              |         |       |                |                              |                                |
| Kurang dari 5 k.k. (under 5 h.p.)               | 1      | 50    | 5                  | 37    | 3                | 0                  | 2                 | 24                         | 122                          | 71       | 74         | 7      | 3                          | 155                          | 1,379   | 200   | 0              | 1,579                        | 1,856                          |
| 5 - 9 k.k. (h.p.)                               | 47     | 194   | 25                 | 126   | 9                | 0                  | 31                | 71                         | 503                          | 315      | 204        | 23     | 22                         | 564                          | 1,520   | 530   | 0              | 2,050                        | 3,117                          |
| 10 - 19 "                                       | 119    | 306   | 136                | 320   | 311              | 17                 | 147               | 247                        | 1,603                        | 113      | 467        | 177    | 209                        | 966                          | 731     | 330   | 3              | 1,064                        | 3,633                          |
| 20 - 39 "                                       | 81     | 181   | 198                | 657   | 1,092            | 32                 | 73                | 338                        | 2,652                        | 328      | 1,091      | 496    | 293                        | 2,208                        | 850     | 630   | 3              | 1,483                        | 6,343                          |
| 40 - 59 "                                       | 73     | 51    | 203                | 1,837 | 23               | 1                  | 0                 | 56                         | 2,244                        | 27       | 149        | 11     | 14                         | 201                          | 286     | 615   | 2              | 903                          | 3,348                          |
| 60 - 99 "                                       | 21     | 28    | 135                | 275   | 45               | 4                  | 0                 | 94                         | 602                          | 19       | 96         | 11     | 29                         | 155                          | 246     | 310   | 3              | 559                          | 1,316                          |
| 100 - 149 "                                     | 42     | 69    | 16                 | 101   | 313              | 0                  | 0                 | 109                        | 650                          | 38       | 31         | 28     | 37                         | 134                          | 104     | 285   | 0              | 389                          | 1,173                          |
| 150 - 249 "                                     | 155    | 290   | 131                | 352   | 185              | 0                  | 0                 | 114                        | 1,227                        | 35       | 48         | 82     | 186                        | 351                          | 128     | 380   | 0              | 508                          | 2,086                          |
| 250 k.k. ke atas (250 h.p. & above)             | 54     | 182   | 26                 | 250   | 244              | 0                  | 0                 | 33                         | 789                          | 37       | 52         | 147    | 145                        | 381                          | 87      | 120   | 0              | 207                          | 1,377                          |
| Jumlah Kecil (Sub-Total)                        | 593    | 1,351 | 875                | 3,955 | 2,225            | 54                 | 253               | 1,086                      | 10,392                       | 983      | 2,212      | 982    | 938                        | 5,115                        | 5,331   | 3,400 | 11             | 8,742                        | 24,249                         |
| Enjin Sangkut/Outboard-Powered                  |        |       |                    |       |                  |                    |                   |                            |                              |          |            |        |                            |                              |         |       |                |                              |                                |
| Kurang dari 5 k.k. (under 5 h.p.)               | 25     | 212   | 494                | 554   | 113              | 46                 | 131               | 462                        | 2,037                        | 181      | 3          | 12     | 147                        | 343                          | 377     | 230   | 0              | 607                          | 2,987                          |
| 5 - 9 k.k. (h.p.)                               | 167    | 856   | 422                | 310   | 264              | 80                 | 353               | 593                        | 3,045                        | 68       | 10         | 51     | 252                        | 381                          | 350     | 1,530 | 28             | 1,908                        | 5,334                          |
| 10 - 19 "                                       | 1      | 57    | 257                | 111   | 53               | 21                 | 102               | 127                        | 729                          | 2        | 0          | 1      | 61                         | 64                           | 97      | 1,600 | 11             | 1,708                        | 2,501                          |
| 20 - 39 "                                       | 1      | 8     | 188                | 73    | 32               | 11                 | 22                | 103                        | 438                          | 2        | 0          | 0      | 63                         | 65                           | 443     | 1,390 | 60             | 1,893                        | 2,396                          |
| 40 - 59 "                                       | 0      | 0     | 7                  | 1     | 0                | 0                  | 1                 | 23                         | 32                           | 0        | 1          | 0      | 11                         | 12                           | 511     | 235   | 36             | 782                          | 826                            |
| 60 - 99 "                                       | 0      | 0     | 0                  | 0     | 0                | 0                  | 0                 | 0                          | 0                            | 0        | 0          | 0      | 0                          | 0                            | 4       | 15    | 0              | 19                           | 19                             |
| 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)                        | 194    | 1,133 | 1,368              | 1,049 | 462              | 158                | 609               | 1,308                      | 6,281                        | 253      | 14         | 64     | 534                        | 865                          | 1,782   | 5,000 | 135            | 6,917                        | 14,063                         |
| Jumlah Besar (Grand Total)                      | 787    | 2,484 | 2,243              | 5,004 | 2,687            | 212                | 862               | 2,394                      | 16,673                       | 1,236    | 2,226      | 1,046  | 1,472                      | 5,980                        | 7,113   | 8,400 | 146            | 15,659                       | 38,312                         |

MALAYSIA  
BILANGAN BOT IKAN YANG BERLESEN MENGIKUT KUMPULAN PERKAKAS, JENIS DAN KELAS MUATAN, 1989  
NUMBER OF LICENSED FISHING BOATS BY GEAR GROUP, TYPE AND TONNAGE CLASS, 1989

JADUAL (TABLE) 2.3

| Jenis Dan Kelas Muatan/<br>Type And Tonnage Class | Jumlah<br>Besar<br>Grand<br>Total | Tiada<br>Berjentera<br>Non-Powered | Berjentera<br>Sangkut<br>Out-Board<br>Powered | BOT BERJENTERA DALAM/INBOARD POWERED BOAT (SEM. MALAYSIA/PEN. MALAYSIA) |                 |                 |                   |                   |                   |                   |                   |                                  |         | BILANGAN BOT/NO. OF BOATS |                |  |
|---------------------------------------------------|-----------------------------------|------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------------------|---------|---------------------------|----------------|--|
|                                                   |                                   |                                    |                                               | Jumlah Kecil<br>Sub-Total                                               | 0 - 4.99<br>GRT | 5 - 9.99<br>GRT | 10 - 14.99<br>GRT | 15 - 19.99<br>GRT | 20 - 24.99<br>GRT | 25 - 39.99<br>GRT | 40 - 69.99<br>GRT | 70 GRT<br>& ke atas<br>(& Above) | SARAWAK | SABAH                     | W.P.<br>LABUAN |  |
| Pukat Tunda/Trawl Nets                            | 7,142                             | 0                                  | 0                                             | 4,332                                                                   | 41              | 310             | 904               | 980               | 363               | 876               | 621               | 237                              | 1,010   | 1,800                     | 0              |  |
| Pukat Tarik/Seine Nets:                           |                                   |                                    |                                               |                                                                         |                 |                 |                   |                   |                   |                   |                   |                                  |         |                           |                |  |
| Pukat Jerut Ikan                                  | 821                               | 0                                  | 0                                             | 647                                                                     | 0               | 8               | 28                | 51                | 39                | 146               | 273               | 102                              | 22      | 152                       | 0              |  |
| Purse Seine-Fish                                  |                                   |                                    |                                               |                                                                         |                 |                 |                   |                   |                   |                   |                   |                                  |         |                           |                |  |
| Pukat Jerut Bilis                                 | 174                               | 0                                  | 0                                             | 174                                                                     | 0               | 12              | 36                | 23                | 7                 | 8                 | 27                | 61                               | 0       | 0                         | 0              |  |
| Purse Seine-Anchovy                               |                                   |                                    |                                               |                                                                         |                 |                 |                   |                   |                   |                   |                   |                                  |         |                           |                |  |
| Lain-Lain/Other Seines                            | 1,025                             | 34                                 | 247                                           | 733                                                                     | 203             | 502             | 7                 | 4                 | 3                 | 1                 | 8                 | 7                                | 11      | 0                         | 0              |  |
| Pukat Hanyut                                      | 20,981                            | 448                                | 5,927                                         | 6,772                                                                   | 2,231           | 3,766           | 579               | 153               | 25                | 14                | 1                 | 3                                | 4,792   | 3,042                     | 0              |  |
| Gill/Drift Nets                                   |                                   |                                    |                                               |                                                                         |                 |                 |                   |                   |                   |                   |                   |                                  |         |                           |                |  |
| Pukat Tangguk/Lift Nets                           | 861                               | 1                                  | 31                                            | 124                                                                     | 25              | 53              | 38                | 7                 | 0                 | 1                 | 0                 | 0                                | 23      | 682                       | 0              |  |
| Perangkap/Traps:                                  |                                   |                                    |                                               |                                                                         |                 |                 |                   |                   |                   |                   |                   |                                  |         |                           |                |  |
| Belat-Belat (Stationary)                          | 334                               | 5                                  | 32                                            | 9                                                                       | 2               | 6               | 1                 | 0                 | 0                 | 0                 | 0                 | 0                                | 48      | 240                       | 0              |  |
| Bubu (Portable)                                   | 623                               | 14                                 | 102                                           | 385                                                                     | 24              | 158             | 121               | 47                | 25                | 9                 | 1                 | 0                                | 122     | 0                         | 0              |  |
| Pancing/Hooks & Lines                             | 4,435                             | 60                                 | 409                                           | 1,705                                                                   | 393             | 726             | 355               | 199               | 22                | 8                 | 1                 | 1                                | 168     | 2,073                     | 0              |  |
| Pukat Bakul/Bag Nets                              | 1,187                             | 7                                  | 95                                            | 383                                                                     | 204             | 178             | 0                 | 0                 | 1                 | 0                 | 0                 | 0                                | 702     | 0                         | 0              |  |
| Pukat Surung                                      | 93                                | 5                                  | 32                                            | 4                                                                       | 4               | 0               | 0                 | 0                 | 0                 | 0                 | 0                 | 0                                | 52      | 0                         | 0              |  |
| Push/Scoop Nets                                   |                                   |                                    |                                               |                                                                         |                 |                 |                   |                   |                   |                   |                   |                                  |         |                           | 0              |  |
| Pukat Rentang                                     | 289                               | 12                                 | 59                                            | 16                                                                      | 0               | 14              | 2                 | 0                 | 0                 | 0                 | 0                 | 0                                | 202     | 0                         | 0              |  |
| Barrier Nets                                      |                                   |                                    |                                               |                                                                         |                 |                 |                   |                   |                   |                   |                   |                                  |         |                           |                |  |
| Memungut Siput                                    | 215                               | 34                                 | 45                                            | 136                                                                     | 119             | 17              | 0                 | 0                 | 0                 | 0                 | 0                 | 0                                | 0       | 0                         | 0              |  |
| Shellfish Collection                              |                                   |                                    |                                               |                                                                         |                 |                 |                   |                   |                   |                   |                   |                                  |         |                           |                |  |
| Pembawa Ikan                                      | 210                               | 109                                | 24                                            | 77                                                                      | 14              | 36              | 19                | 0                 | 3                 | 5                 | 0                 | 0                                | 0       | 0                         | 0              |  |
| Fish Carriers                                     |                                   |                                    |                                               |                                                                         |                 |                 |                   |                   |                   |                   |                   |                                  |         |                           |                |  |
| Rampaian/Miscellaneous                            | 1,580                             | 57                                 | 143                                           | 10                                                                      | 5               | 2               | 0                 | 0                 | 0                 | 1                 | 2                 | 0                                | 13      | 1,211                     | 146            |  |
| Jumlah/Total                                      | 39,970                            | 806                                | 7,146                                         | 15,507                                                                  | 3,265           | 5,788           | 2,090             | 1,464             | 488               | 1,069             | 932               | 411                              | 7,165   | 9,200                     | 146            |  |

\* Data pecahan tidak diperolehi  
Breakdown figures not available

+ GRT - Gross Relative Tonnage

JADUAL (TABLE) 2.4

MALAYSIA  
 BILANGAN BOT MENANGKAP IKAN YANG DILESENKAN MENGIKUT  
 DAERAH-DAERAH PERIKANAN, 1989  
 NUMBER OF LICENSED FISHING BOATS BY FISHERIES DISTRICTS, 1989

| Daerah-Daerah Perikanan<br>(Fisheries Districts) | Bot-Bot (Fishing Boats)        |                                   |                                    | Jumlah<br>Total |
|--------------------------------------------------|--------------------------------|-----------------------------------|------------------------------------|-----------------|
|                                                  | Berjentera<br>Dalam<br>Inboard | Berjentera<br>Sangkut<br>Outboard | Tidak<br>Berjentera<br>Non-Powered |                 |
| SEM. MALAYSIA/PEN. MALAYSIA                      |                                |                                   |                                    |                 |
| 1) Kuala Perlis                                  | 593                            | 194                               | 1                                  | 788             |
| 2) Langkawi                                      | 275                            | 412                               | 2                                  | 689             |
| 3) Kedah Utara                                   | 801                            | 222                               | 6                                  | 1,029           |
| 4) Kedah Selatan                                 | 275                            | 499                               | 7                                  | 781             |
| 5) Timur Laut/P.Pinang                           | 107                            | 287                               | 11                                 | 405             |
| 6) Barat Daya/P.Pinang                           | 239                            | 550                               | 13                                 | 802             |
| 7) Seberang Prai Utara                           | 245                            | 152                               | 23                                 | 420             |
| 8) Seberang Prai Tengah                          | 25                             | 175                               | 14                                 | 214             |
| 9) Seberang Prai Selatan                         | 259                            | 204                               | 7                                  | 470             |
| 10) Krian                                        | 1,067                          | 258                               | 43                                 | 1,368           |
| 11) Larut & Matang                               | 1,228                          | 203                               | 45                                 | 1,476           |
| 12) Manjong                                      | 936                            | 414                               | 61                                 | 1,411           |
| 13) Hilir Perak                                  | 724                            | 174                               | 30                                 | 928             |
| 14) Selangor Utara                               | 662                            | 146                               | 2                                  | 810             |
| 15) Selangor Tengah                              | 541                            | 30                                | 17                                 | 588             |
| 16) Pelabuhan Klang I                            | 522                            | 3                                 | 2                                  | 527             |
| 17) Pelabuhan Klang II                           | 242                            | 126                               | 77                                 | 445             |
| 18) Selangor Selatan                             | 258                            | 157                               | 16                                 | 431             |
| 19) Port Dickson                                 | 54                             | 158                               | 19                                 | 231             |
| 20) Melaka                                       | 253                            | 609                               | 76                                 | 938             |
| 21) Muar                                         | 249                            | 251                               | 61                                 | 561             |
| 22) Batu Pahat                                   | 309                            | 97                                | 13                                 | 419             |
| 23) Pontian                                      | 509                            | 271                               | 34                                 | 814             |
| 24) Johor Bahru                                  | 19                             | 689                               | 84                                 | 792             |
| 25) Pengerang (Kota Tinggi)                      | 152                            | 491                               | 57                                 | 700             |
| 26) Sedeli                                       | 265                            | 37                                | 2                                  | 304             |
| 27) Mersing                                      | 521                            | 6                                 | 2                                  | 529             |
| 28) Kuantan                                      | 430                            | 8                                 | 19                                 | 457             |
| 29) Pekan                                        | 366                            | 52                                | 13                                 | 431             |
| 30) Kuala Rompin                                 | 186                            | 4                                 | 0                                  | 190             |
| 31) Kemaman                                      | 461                            | 0                                 | 11                                 | 472             |
| 32) Dungun                                       | 355                            | 1                                 | 4                                  | 360             |
| 33) Marang                                       | 243                            | 6                                 | 8                                  | 257             |
| 34) Kuala Terengganu Utara                       | 309                            | 1                                 | 7                                  | 317             |
| 35) Kuala Terengganu Selatan                     | 378                            | 4                                 | 2                                  | 384             |
| 36) Besut                                        | 323                            | 1                                 | 1                                  | 325             |
| 37) Setiu                                        | 143                            | 1                                 | 1                                  | 145             |
| 38) Kota Bharu                                   | 219                            | 152                               | 7                                  | 378             |
| 39) Bachok & Pasir Putih                         | 327                            | 32                                | 7                                  | 366             |
| 40) Tumpat                                       | 437                            | 69                                | 1                                  | 507             |
| Jumlah Kecil/Sub-Total                           | 15,507                         | 7,146                             | 806                                | 23,459          |

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

| Daerah-Daerah Perikanan<br>(Fisheries Districts) | Bot-Bot (Fishing Boats)        |                                   |                                    | Jumlah<br>Total |
|--------------------------------------------------|--------------------------------|-----------------------------------|------------------------------------|-----------------|
|                                                  | Berjentera<br>Dalam<br>Inboard | Berjentera<br>Sangkut<br>Outboard | Tidak<br>Berjentera<br>Non-Powered |                 |
| <b>SARAWAK</b>                                   |                                |                                   |                                    |                 |
| 1) B. Kuching                                    | 365                            | 29                                | 9                                  | 403             |
| 2) Santubong                                     | 471                            | 156                               | 7                                  | 634             |
| 3) Pendam (Sadong Jaya)                          | 566                            | 147                               | 5                                  | 718             |
| 4) Sematan                                       | 124                            | 46                                | 0                                  | 170             |
| 5) Batang Lupar                                  | 825                            | 111                               | 2                                  | 938             |
| 6) Saribas/Kalaka                                | 842                            | 101                               | 5                                  | 948             |
| 7) Sibulgan                                      | 283                            | 21                                | 3                                  | 307             |
| 8) Sarikei/Bitangor                              | 206                            | 38                                | 1                                  | 245             |
| 9) Mukah/Oya                                     | 293                            | 161                               | 4                                  | 458             |
| 10) Belawai                                      | 378                            | 24                                | 1                                  | 403             |
| 11) Matu Daro                                    | 597                            | 101                               | 5                                  | 703             |
| 12) Bintulu                                      | 160                            | 97                                | 0                                  | 257             |
| 13) Miri                                         | 221                            | 167                               | 10                                 | 398             |
| 14) Limbang                                      | 0                              | 57                                | 0                                  | 57              |
| 15) Lawas                                        | 0                              | 526                               | 0                                  | 526             |
| <b>Jumlah Kecil/Sub-Total</b>                    | <b>5,331</b>                   | <b>1,782</b>                      | <b>52</b>                          | <b>7,165</b>    |
| <b>SABAH</b>                                     |                                |                                   |                                    |                 |
| 1) Tawau                                         | 150                            | 431                               | 0                                  | 581             |
| 2) Sempoma                                       | 1,150                          | 889                               | 335                                | 2,374           |
| 3) Kunak                                         | 20                             | 160                               | 30                                 | 210             |
| 4) Lahad Datu                                    | 56                             | 350                               | 35                                 | 441             |
| 5) Sandakan                                      | 1,000                          | 300                               | 100                                | 1,400           |
| 6) Baluran                                       | 200                            | 70                                | 30                                 | 300             |
| 7) Kudat                                         | 450                            | 750                               | 100                                | 1,300           |
| 8) Kota Marudu                                   | 65                             | 55                                | 10                                 | 130             |
| 9) Kota Belut                                    | 20                             | 442                               | 30                                 | 492             |
| 10) Tuaran                                       | 10                             | 260                               | 50                                 | 320             |
| 11) Kota Kinabalu                                | 200                            | 415                               | 10                                 | 625             |
| 12) Papar                                        | 7                              | 410                               | 20                                 | 437             |
| 13) Beaufort                                     | 34                             | 268                               | 0                                  | 302             |
| 14) Kuala Penyu                                  | 30                             | 100                               | 10                                 | 140             |
| 15) Sipitang                                     | 8                              | 100                               | 40                                 | 148             |
| <b>Jumlah Kecil/Sub-Total</b>                    | <b>3,400</b>                   | <b>5,000</b>                      | <b>800</b>                         | <b>9,200</b>    |
| <b>WIL. PER. LABUAN/LABUAN F.T.</b>              |                                |                                   |                                    |                 |
| 1) Kg. Bebuloh                                   | 0                              | 35                                | 0                                  | 35              |
| 2) Kg. Ranca-Ranca                               | 1                              | 5                                 | 0                                  | 6               |
| 3) Kg. Lubok Temiang                             | 0                              | 9                                 | 0                                  | 9               |
| 4) Kg. Batu Manikar                              | 0                              | 4                                 | 0                                  | 4               |
| 5) Kg. Tg. Aru                                   | 0                              | 4                                 | 0                                  | 4               |
| 6) Kg. Miri/Lada/Pagar                           | 0                              | 7                                 | 0                                  | 7               |
| 7) Kg. Patau-Patau                               | 0                              | 20                                | 0                                  | 20              |
| 8) Lain-Lain Kampong                             | 10                             | 51                                | 0                                  | 61              |
| <b>Jumlah Kecil/Sub-Total</b>                    | <b>11</b>                      | <b>135</b>                        | <b>0</b>                           | <b>146</b>      |
| <b>Jumlah Besar/Grand Total</b>                  | <b>24,249</b>                  | <b>14,063</b>                     | <b>1,658</b>                       | <b>39,970</b>   |

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA  
BILANGAN BOT YANG DILESENKAN DAN BILANGAN NELAYAN  
YANG BEKERJA DIBOT-BOT BERLESEN, 1969 - 1989  
NUMBER OF FISHING BOATS LICENSED AND NUMBER OF FISHERMEN  
OPERATING LICENSED BOATS, 1969 - 1989

JADUAL (TABLE) 2.5

| Tahun<br>Year | Bilangan Bot-Bot Yang Dilesenkan<br>Number Of Fishing Boats Licensed |                                   |                                    |                 | Bilangan Nelayan-Nelayan<br>Number of Fishermen |                 |                  |                     |                 |
|---------------|----------------------------------------------------------------------|-----------------------------------|------------------------------------|-----------------|-------------------------------------------------|-----------------|------------------|---------------------|-----------------|
|               | Berjentera<br>Dalam<br>Inboard                                       | Berjentera<br>Sangkut<br>Outboard | Tidak<br>Berjentera<br>Non-Powered | Jumlah<br>Total | Melayu<br>Malays                                | Cina<br>Chinese | India<br>Indians | Lain-Lain<br>Others | Jumlah<br>Total |
| 1969          | 11,399                                                               | 2,177                             | 5,608                              | 19,184          | 34,845                                          | 28,258          | 160              | 351                 | 63,614          |
| 1970          | 12,865                                                               | 2,164                             | 5,277                              | 20,306          | 36,472                                          | 31,078          | 253              | 351                 | 68,154          |
| 1971          | 14,284                                                               | 2,036                             | 4,821                              | 21,141          | 36,295                                          | 31,096          | 256              | 314                 | 67,961          |
| 1972          | 14,945                                                               | 2,009                             | 4,665                              | 21,619          | 38,589                                          | 29,892          | 310              | 461                 | 69,252          |
| 1973          | 15,596                                                               | 2,004                             | 4,567                              | 22,167          | 38,048                                          | 29,192          | 342              | 726                 | 68,308          |
| 1974          | 16,205                                                               | 2,100                             | 4,072                              | 22,377          | 38,973                                          | 30,619          | 424              | 789                 | 70,805          |
| 1975          | 16,081                                                               | 2,138                             | 3,928                              | 22,147          | 40,335                                          | 31,992          | 452              | 525                 | 73,304          |
| 1976          | 16,142                                                               | 2,342                             | 4,151                              | 22,635          | 41,997                                          | 30,479          | 450              | 610                 | 73,536          |
| 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          |

MALAYSIA  
BILANGAN PERKAKAS YANG DILESENKAN MENGIKUT NEGERI, 1989  
NUMBER OF LICENSED FISHING GEARS BY STATE, 1989

JADUAL (TABLE) 3.1

| Kumpulan Perkakas<br>Gear Group | Pukat<br>Tunda<br>Trawl<br>Nets | Pukat-Pukat Tarik<br>Seine Nets             |                                                 |                              | Pukat<br>Hanyut<br>Drift/Gill<br>Nets | Pukat<br>Tangguk<br>Lift<br>Nets | Perangkap-Perangkap<br>Traps |                  | Pancing<br>Hooks &<br>Lines | Pukat Bakul<br>Bag Nets | Pukat<br>Rentang<br>Barrier<br>Nets | Pukat<br>Surung<br>Push/Scoop<br>Nets | Memungut<br>Sliput<br>Shellfish<br>Collection | Rampaihan<br>Miscellaneous | Jumlah<br>Total |
|---------------------------------|---------------------------------|---------------------------------------------|-------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|------------------------------|------------------|-----------------------------|-------------------------|-------------------------------------|---------------------------------------|-----------------------------------------------|----------------------------|-----------------|
|                                 |                                 | Pukat Jerut<br>Ikan<br>Purse Seine-<br>Fish | Pukat Jerut<br>Bilis<br>Purse Seine-<br>Anchovy | Lain-Lain<br>Other<br>Seines |                                       |                                  | Belat-Belat<br>Stationary    | Bubu<br>Portable |                             |                         |                                     |                                       |                                               |                            |                 |
| <b>Pantai Barat/West Coast:</b> |                                 |                                             |                                                 |                              |                                       |                                  |                              |                  |                             |                         |                                     |                                       |                                               |                            |                 |
| Perlis                          | 238                             | 107                                         | 0                                               | 2                            | 427                                   | 4                                | 0                            | 0                | 10                          | 0                       | 0                                   | 0                                     | 0                                             | 0                          | 788             |
| Kedah                           | 546                             | 18                                          | 76                                              | 41                           | 1,690                                 | 34                               | 1                            | 1                | 31                          | 36                      | 20                                  | 0                                     | 0                                             | 5                          | 2,499           |
| Pulau Pinang/Penang             | 121                             | 44                                          | 0                                               | 141                          | 1,813                                 | 0                                | 1                            | 24               | 86                          | 65                      | 0                                   | 6                                     | 0                                             | 10                         | 2,311           |
| Perak                           | 1,628                           | 88                                          | 15                                              | 706                          | 2,007                                 | 0                                | 0                            | 59               | 215                         | 120                     | 0                                   | 7                                     | 162                                           | 176                        | 5,183           |
| Selangor                        | 493                             | 30                                          | 0                                               | 9                            | 1,854                                 | 1                                | 1                            | 0                | 98                          | 188                     | 14                                  | 0                                     | 4                                             | 109                        | 2,801           |
| Negeri Sembilan                 | 0                               | 0                                           | 0                                               | 4                            | 206                                   | 0                                | 0                            | 7                | 10                          | 0                       | 0                                   | 0                                     | 2                                             | 2                          | 231             |
| Melaka/Malacca                  | 0                               | 0                                           | 0                                               | 11                           | 834                                   | 0                                | 2                            | 0                | 85                          | 0                       | 4                                   | 0                                     | 0                                             | 2                          | 938             |
| Johor Barat/West Johore         | 305                             | 0                                           | 0                                               | 16                           | 1,882                                 | 1                                | 31                           | 104              | 71                          | 60                      | 39                                  | 28                                    | 47                                            | 2                          | 2,586           |
| <b>Jumlah Kecil/Sub-Total</b>   | <b>3,331</b>                    | <b>287</b>                                  | <b>91</b>                                       | <b>930</b>                   | <b>10,713</b>                         | <b>40</b>                        | <b>36</b>                    | <b>195</b>       | <b>606</b>                  | <b>469</b>              | <b>77</b>                           | <b>41</b>                             | <b>215</b>                                    | <b>306</b>                 | <b>17,337</b>   |
| <b>Pantai Timur/East Coast:</b> |                                 |                                             |                                                 |                              |                                       |                                  |                              |                  |                             |                         |                                     |                                       |                                               |                            |                 |
| Kelantan                        | 103                             | 51                                          | 9                                               | 65                           | 724                                   | 36                               | 0                            | 9                | 254                         | 0                       | 0                                   | 0                                     | 0                                             | 0                          | 1,251           |
| Terengganu                      | 282                             | 188                                         | 56                                              | 15                           | 477                                   | 44                               | 0                            | 142              | 985                         | 0                       | 0                                   | 0                                     | 0                                             | 71                         | 2,260           |
| Pahang                          | 310                             | 63                                          | 18                                              | 3                            | 265                                   | 32                               | 0                            | 131              | 218                         | 0                       | 0                                   | 0                                     | 0                                             | 38                         | 1,078           |
| Johor Timur/East Johore         | 307                             | 58                                          | 0                                               | 1                            | 968                                   | 4                                | 10                           | 24               | 131                         | 16                      | 10                                  | 0                                     | 0                                             | 4                          | 1,533           |
| <b>Jumlah Kecil/Sub-Total</b>   | <b>1,002</b>                    | <b>360</b>                                  | <b>83</b>                                       | <b>84</b>                    | <b>2,434</b>                          | <b>116</b>                       | <b>10</b>                    | <b>306</b>       | <b>1,588</b>                | <b>16</b>               | <b>10</b>                           | <b>0</b>                              | <b>0</b>                                      | <b>113</b>                 | <b>6,122</b>    |
| <b>Sarawak</b>                  | <b>1,010</b>                    | <b>23</b>                                   | <b>0</b>                                        | <b>11</b>                    | <b>5,032</b>                          | <b>0</b>                         | <b>86</b>                    | <b>134</b>       | <b>269</b>                  | <b>913</b>              | <b>360</b>                          | <b>104</b>                            | <b>0</b>                                      | <b>13</b>                  | <b>7,955</b>    |
| <b>Sabah</b>                    | <b>1,040</b>                    | <b>80</b>                                   | <b>0</b>                                        | <b>0</b>                     | <b>627</b>                            | <b>211</b>                       | <b>91</b>                    | <b>60</b>        | <b>409</b>                  | <b>0</b>                | <b>0</b>                            | <b>0</b>                              | <b>0</b>                                      | <b>169</b>                 | <b>2,687</b>    |
| <b>W.P. Labuan</b>              | <b>1</b>                        | <b>2</b>                                    | <b>0</b>                                        | <b>0</b>                     | <b>77</b>                             | <b>0</b>                         | <b>12</b>                    | <b>17</b>        | <b>40</b>                   | <b>0</b>                | <b>0</b>                            | <b>7</b>                              | <b>0</b>                                      | <b>0</b>                   | <b>156</b>      |
| <b>Jumlah Kecil/Sub-Total</b>   | <b>2,051</b>                    | <b>105</b>                                  | <b>0</b>                                        | <b>11</b>                    | <b>5,736</b>                          | <b>211</b>                       | <b>189</b>                   | <b>211</b>       | <b>718</b>                  | <b>913</b>              | <b>360</b>                          | <b>111</b>                            | <b>0</b>                                      | <b>182</b>                 | <b>10,798</b>   |
| <b>Jumlah Besar/Grand Total</b> | <b>6,384</b>                    | <b>752</b>                                  | <b>174</b>                                      | <b>1,025</b>                 | <b>18,883</b>                         | <b>367</b>                       | <b>235</b>                   | <b>712</b>       | <b>2,912</b>                | <b>1,398</b>            | <b>447</b>                          | <b>152</b>                            | <b>215</b>                                    | <b>601</b>                 | <b>34,257</b>   |

SEMENANJUNG MALAYSIA/ PENINSULAR MALAYSIA  
 ANGGARAN PERKAKAS-PERKAKAS MENANGKAP IKAN YANG DIUSAHAKAN MENGIKUT NEGERI, 1989  
 ESTIMATED NUMBER OF FISHING GEARS IN OPERATION BY STATE, 1989

JADUAL (TABLE) 3.2

| Kumpulan Perkakas<br>Gear Group | Pukat<br>Tunda<br>Trawl<br>Nets | Pukat-Pukat Tarik<br>Seine Nets             |                                                 |                              | Pukat<br>Hanyut<br>Drift/Gill<br>Nets | Pukat<br>Tungguk<br>Lift<br>Nets | Perangkap-Perangkap<br>Traps |                  | Pancing<br>Hooks &<br>Lines | Pukat<br>Bakul<br>Bag Nets | Pukat<br>Rentang<br>Barrier<br>Nets | Pukat<br>Surung<br>Push/Scoop<br>Nets | Memungut<br>Siput<br>Shellfish<br>Collection | Miscellaneous | Total  |
|---------------------------------|---------------------------------|---------------------------------------------|-------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|------------------------------|------------------|-----------------------------|----------------------------|-------------------------------------|---------------------------------------|----------------------------------------------|---------------|--------|
|                                 |                                 | Pukat Jerut<br>Ikan<br>Purse Seine-<br>Fish | Pukat Jerut<br>Bilis<br>Purse Seine-<br>Anchovy | Lain-Lain<br>Other<br>Seines |                                       |                                  | Belat-Belat<br>Stationary    | Bubu<br>Portable |                             |                            |                                     |                                       |                                              |               |        |
| Negeri<br>State                 |                                 |                                             |                                                 |                              |                                       |                                  |                              |                  |                             |                            |                                     |                                       |                                              |               |        |
| Pantai Barat/West Coast:        |                                 |                                             |                                                 |                              |                                       |                                  |                              |                  |                             |                            |                                     |                                       |                                              |               |        |
| Perlis                          | 402                             | 108                                         | 0                                               | 10                           | 436                                   | 0                                | 4                            | 0                | 10                          | 0                          | 16                                  | 5                                     | 0                                            | 5             | 996    |
| Kedah                           | 615                             | 11                                          | 73                                              | 55                           | 1,305                                 | 23                               | 0                            | 0                | 92                          | 90                         | 40                                  | 0                                     | 1                                            | 77            | 2,382  |
| Pulau Pinang/Penang             | 92                              | 30                                          | 0                                               | 133                          | 1,610                                 | 0                                | 0                            | 15               | 51                          | 113                        | 0                                   | 34                                    | 10                                           | 17            | 2,105  |
| Perak                           | 1,869                           | 56                                          | 13                                              | 478                          | 1,719                                 | 0                                | 0                            | 55               | 231                         | 119                        | 74                                  | 129                                   | 34                                           | 150           | 4,927  |
| Selangor Darul Ehsan            | 1,123                           | 12                                          | 0                                               | 14                           | 1,262                                 | 0                                | 8                            | 20               | 90                          | 178                        | 25                                  | 39                                    | 4                                            | 82            | 2,857  |
| Negeri Sembilan                 | 0                               | 0                                           | 0                                               | 5                            | 153                                   | 0                                | 0                            | 8                | 7                           | 0                          | 0                                   | 0                                     | 0                                            | 4             | 177    |
| Melaka/Malacca                  | 0                               | 0                                           | 0                                               | 7                            | 665                                   | 0                                | 2                            | 0                | 106                         | 0                          | 1                                   | 206                                   | 0                                            | 0             | 987    |
| Johor Barat/West Johore         | 367                             | 0                                           | 0                                               | 8                            | 1,238                                 | 0                                | 15                           | 16               | 12                          | 37                         | 1                                   | 122                                   | 0                                            | 11            | 1,827  |
| Jumlah Kecil/Sub-Total          | 4,468                           | 217                                         | 86                                              | 710                          | 8,388                                 | 23                               | 29                           | 114              | 599                         | 537                        | 157                                 | 535                                   | 49                                           | 346           | 16,258 |
| Pantai Timur/East Coast:        |                                 |                                             |                                                 |                              |                                       |                                  |                              |                  |                             |                            |                                     |                                       |                                              |               |        |
| Kelantan                        | 227                             | 221                                         | 0                                               | 0                            | 281                                   | 18                               | 0                            | 14               | 215                         | 0                          | 2                                   | 0                                     | 0                                            | 0             | 978    |
| Terengganu                      | 302                             | 146                                         | 32                                              | 0                            | 233                                   | 37                               | 0                            | 175              | 891                         | 0                          | 0                                   | 0                                     | 0                                            | 0             | 1,816  |
| Pahang Darul Makmur             | 432                             | 24                                          | 4                                               | 0                            | 125                                   | 13                               | 0                            | 53               | 115                         | 0                          | 0                                   | 0                                     | 0                                            | 0             | 766    |
| Johor Timur/East Johore         | 441                             | 40                                          | 0                                               | 2                            | 337                                   | 2                                | 24                           | 9                | 115                         | 101                        | 0                                   | 0                                     | 0                                            | 2             | 1,073  |
| Jumlah Kecil/Sub-Total          | 1,402                           | 431                                         | 36                                              | 2                            | 976                                   | 70                               | 24                           | 251              | 1,336                       | 101                        | 2                                   | 0                                     | 0                                            | 2             | 4,633  |
| Jumlah Besar/Grand-Total        | 5,870                           | 648                                         | 122                                             | 712                          | 9,364                                 | 93                               | 53                           | 365              | 1,935                       | 638                        | 159                                 | 535                                   | 49                                           | 348           | 20,891 |

MALAYSIA  
PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN KUMPULAN PERKAKAS, 1989  
LANDINGS OF MARINE FISH BY STATE AND GEAR GROUP 1989

JADUAL (TABLE) 4.1

| Kumpulan Perkakas<br>Gear Group                    | Pukat<br>Tunda<br>Trawi<br>Nets | Pukat-Pukat Tarik<br>Seine Nets             |                                                 |                              | Pukat<br>Hanyut<br>Drift/Gill<br>Nets | Pukat<br>Tangguk<br>Lift<br>Nets | Perangkap-Perangkap<br>Traps |                  | Pancing<br>Hooks &<br>Lines | Pukat Bakul<br>Bag Nets | Pukat<br>Rentang<br>Barrier<br>Nets | Pukat<br>Surung<br>Push/Scoop<br>Nets | Memungut<br>Sliput<br>Shellfish<br>Collection | Rampalan<br>Miscellaneous | Jumlah<br>Total |
|----------------------------------------------------|---------------------------------|---------------------------------------------|-------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|------------------------------|------------------|-----------------------------|-------------------------|-------------------------------------|---------------------------------------|-----------------------------------------------|---------------------------|-----------------|
|                                                    |                                 | Pukat Jerut<br>Ikan<br>Purse Seine<br>-Fish | Pukat Jerut<br>Bilis<br>Purse Seine<br>-Anchovy | Lain-Lain<br>Other<br>Seines |                                       |                                  | Belat-Belat<br>Stationary    | Bubu<br>Portable |                             |                         |                                     |                                       |                                               |                           |                 |
| <b>Pantai Barat (West Coast):</b>                  |                                 |                                             |                                                 |                              |                                       |                                  |                              |                  |                             |                         |                                     |                                       |                                               |                           |                 |
| Perlis                                             | 12,319                          | 23,416                                      | 0                                               | 53                           | 6,311                                 | 0                                | 137                          | 0                | 31                          | 0                       | 84                                  | 6                                     | 0                                             | 3                         | 42,360          |
| Kedah                                              | 50,616                          | 2,608                                       | 14,079                                          | 280                          | 6,747                                 | 53                               | 0                            | 0                | 133                         | 538                     | 213                                 | 0                                     | 320                                           | 28                        | 75,615          |
| Pulau Pinang/Penang                                | 14,685                          | 9,901                                       | 0                                               | 2,595                        | 7,540                                 | 0                                | 0                            | 86               | 108                         | 3,551                   | 0                                   | 96                                    | 43                                            | 19                        | 38,624          |
| Perak                                              | 146,344                         | 8,638                                       | 11,611                                          | 15,424                       | 10,605                                | 0                                | 0                            | 896              | 1,295                       | 2,268                   | 199                                 | 1,334                                 | 190                                           | 170                       | 198,974         |
| Selangor Darul Ehsan                               | 62,206                          | 866                                         | 0                                               | 77                           | 3,584                                 | 0                                | 386                          | 40               | 830                         | 20,389                  | 378                                 | 265                                   | 229                                           | 23,396                    | 112,646         |
| Negeri Sembilan                                    | 0                               | 0                                           | 0                                               | 7                            | 176                                   | 0                                | 0                            | 23               | 13                          | 0                       | 0                                   | 0                                     | 0                                             | 2                         | 221             |
| Malaka/Malacca                                     | 0                               | 0                                           | 0                                               | 10                           | 1,184                                 | 0                                | 6                            | 0                | 497                         | 0                       | 3                                   | 289                                   | 0                                             | 0                         | 1,989           |
| Johor Barat/West Johore                            | 12,682                          | 0                                           | 0                                               | 33                           | 3,770                                 | 0                                | 114                          | 69               | 90                          | 2,109                   | 3                                   | 34                                    | 0                                             | 1                         | 18,905          |
| <b>Jumlah / Total:</b>                             | <b>298,852</b>                  | <b>45,429</b>                               | <b>25,690</b>                                   | <b>18,479</b>                | <b>39,917</b>                         | <b>53</b>                        | <b>643</b>                   | <b>1,114</b>     | <b>2,997</b>                | <b>28,855</b>           | <b>880</b>                          | <b>2,024</b>                          | <b>782</b>                                    | <b>23,619</b>             | <b>489,334</b>  |
| <b>Pantai Timur/East Coast:</b>                    |                                 |                                             |                                                 |                              |                                       |                                  |                              |                  |                             |                         |                                     |                                       |                                               |                           |                 |
| Kelantan                                           | 8,351                           | 8,311                                       | 0                                               | 0                            | 5,777                                 | 3,170                            | 0                            | 428              | 6,940                       | 0                       | 5                                   | 0                                     | 0                                             | 0                         | 32,982          |
| Terengganu                                         | 22,942                          | 35,199                                      | 2,928                                           | 0                            | 2,479                                 | 4,130                            | 0                            | 3,649            | 7,488                       | 0                       | 0                                   | 0                                     | 0                                             | 0                         | 78,815          |
| Pahang Darul Makmur                                | 47,886                          | 10,924                                      | 1,405                                           | 0                            | 497                                   | 4,141                            | 0                            | 926              | 2,952                       | 0                       | 0                                   | 0                                     | 0                                             | 0                         | 68,730          |
| Johor Timur/East Johore                            | 58,257                          | 10,749                                      | 0                                               | 681                          | 1,853                                 | 93                               | 248                          | 85               | 1,768                       | 3,217                   | 4                                   | 0                                     | 0                                             | 68                        | 77,023          |
| <b>Jumlah / Total:</b>                             | <b>137,435</b>                  | <b>65,183</b>                               | <b>4,333</b>                                    | <b>681</b>                   | <b>10,606</b>                         | <b>11,534</b>                    | <b>248</b>                   | <b>5,088</b>     | <b>19,148</b>               | <b>3,217</b>            | <b>9</b>                            | <b>0</b>                              | <b>0</b>                                      | <b>68</b>                 | <b>257,550</b>  |
| <b>Malaysia:</b>                                   |                                 |                                             |                                                 |                              |                                       |                                  |                              |                  |                             |                         |                                     |                                       |                                               |                           |                 |
| Semenanjung Malaysia/<br>Peninsular Malaysia       | 436,287                         | 110,612                                     | 30,023                                          | 19,160                       | 50,523                                | 11,587                           | 891                          | 6,202            | 22,145                      | 32,072                  | 889                                 | 2,024                                 | 782                                           | 23,687                    | 746,884         |
| Sarawak                                            | 51,918                          | 3,367                                       | 0                                               | 0                            | 15,601                                | 0                                | 1,381                        | 39               | 1,286                       | 4,300                   | 2,165                               | 4,285                                 | 2                                             | 12                        | 84,356          |
| Sabah                                              | 13,291                          | 8,894                                       | 0                                               | 0                            | 6,324                                 | 2,046                            | 1,402                        | 476              | 3,476                       | 0                       | 0                                   | 0                                     | 0                                             | 8,091                     | 44,000          |
| W.Persekutuan Labuan/<br>Labuan, Federal Territory | 2,019                           | 552                                         | 0                                               | 0                            | 2,918                                 | 0                                | 40                           | 33               | 1,681                       | 0                       | 0                                   | 0                                     | 0                                             | 9                         | 7,252           |
| <b>Jumlah / Total:</b>                             | <b>503,515</b>                  | <b>123,425</b>                              | <b>30,023</b>                                   | <b>19,160</b>                | <b>75,366</b>                         | <b>13,633</b>                    | <b>3,714</b>                 | <b>6,750</b>     | <b>28,588</b>               | <b>36,372</b>           | <b>3,054</b>                        | <b>6,309</b>                          | <b>784</b>                                    | <b>31,799</b>             | <b>882,492</b>  |

MALAYSIA  
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN NEGERI, 1989  
LANDINGS OF MARINE FISH BY MONTH AND STATE, 1989

JADUAL (TABLE) 4.2

| Bulan/Month                                       | Januari | Februari | Mac    | April  | Mei    | Jun    | Julai  | Ogos   | September | Oktober | November | Disember | Jumlah Tan M. |
|---------------------------------------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------------|
| Negeri/State                                      | January | February | March  | April  | May    | June   | July   | August | September | October | November | December | Total Tonnes  |
| Pantai Barat/West Coast:                          |         |          |        |        |        |        |        |        |           |         |          |          |               |
| Perlis                                            | 3,574   | 3,797    | 3,744  | 4,278  | 4,006  | 3,896  | 2,983  | 2,691  | 3,053     | 3,962   | 3,656    | 2,720    | 42,360        |
| Kedah                                             | 6,393   | 8,390    | 6,852  | 6,115  | 5,331  | 5,521  | 5,147  | 5,945  | 7,626     | 5,560   | 6,553    | 6,182    | 75,615        |
| Pulau Pinang/Penang                               | 2,202   | 3,436    | 3,613  | 2,818  | 2,897  | 3,661  | 4,282  | 3,455  | 3,352     | 3,057   | 2,948    | 2,903    | 38,624        |
| Perak                                             | 13,611  | 10,906   | 19,028 | 13,101 | 16,516 | 22,226 | 17,924 | 17,757 | 17,771    | 17,519  | 17,432   | 15,183   | 198,974       |
| Selangor Darul Ehsan                              | 8,440   | 7,929    | 6,796  | 6,353  | 7,018  | 6,315  | 5,661  | 12,538 | 19,928    | 16,618  | 8,034    | 7,016    | 112,646       |
| Negeri Sembilan                                   | 19      | 16       | 19     | 17     | 18     | 19     | 18     | 18     | 19        | 18      | 18       | 22       | 221           |
| Melaka                                            | 140     | 175      | 115    | 131    | 162    | 197    | 188    | 189    | 162       | 193     | 182      | 155      | 1,989         |
| Johor Barat/West Johore                           | 1,509   | 1,653    | 1,902  | 1,441  | 1,375  | 1,806  | 1,492  | 1,191  | 1,331     | 1,554   | 1,875    | 1,776    | 18,905        |
| Jumlah Kecil/Sub Total                            | 35,888  | 36,302   | 42,069 | 34,254 | 37,323 | 43,641 | 37,695 | 43,784 | 53,242    | 48,481  | 40,698   | 35,957   | 489,334       |
| Pantai Timur/East Coast:                          |         |          |        |        |        |        |        |        |           |         |          |          |               |
| Kelantan                                          | 1,836   | 2,216    | 2,739  | 3,733  | 2,975  | 2,943  | 3,013  | 3,080  | 3,203     | 3,719   | 1,736    | 1,789    | 32,982        |
| Terengganu                                        | 4,995   | 6,027    | 6,947  | 6,940  | 4,972  | 8,473  | 8,004  | 7,457  | 8,014     | 7,383   | 5,972    | 3,631    | 78,815        |
| Pahang Darul Makmur                               | 2,245   | 2,336    | 4,969  | 6,934  | 6,666  | 5,831  | 7,840  | 7,436  | 5,925     | 7,473   | 6,211    | 4,864    | 68,730        |
| Johor Timur/East Johore                           | 3,817   | 2,945    | 6,159  | 6,840  | 6,668  | 8,187  | 7,349  | 7,861  | 9,774     | 8,002   | 5,966    | 3,455    | 77,023        |
| Jumlah Kecil/Sub Total                            | 12,893  | 13,524   | 20,814 | 24,447 | 21,281 | 25,434 | 26,206 | 25,834 | 26,916    | 26,577  | 19,885   | 13,739   | 257,550       |
| Malaysia:                                         |         |          |        |        |        |        |        |        |           |         |          |          |               |
| Semenanjung Malaysia/<br>Peninsular Malaysia      | 48,781  | 49,826   | 62,883 | 58,701 | 58,604 | 69,075 | 63,901 | 69,618 | 80,158    | 75,058  | 60,583   | 49,696   | 746,884       |
| Sarawak                                           | 7,904   | 9,525    | 9,654  | 6,898  | 6,435  | 12,293 | 5,832  | 7,235  | 5,587     | 5,305   | 4,629    | 3,059    | 84,356        |
| Sabah                                             | 3,516   | 3,335    | 3,595  | 3,788  | 3,568  | 3,894  | 3,850  | 3,678  | 3,709     | 3,714   | 3,692    | 3,661    | 44,000        |
| W.Persekutuan Labuan/<br>Labuan Federal Territory | 1,046   | 610      | 630    | 611    | 443    | 676    | 862    | 733    | 425       | 216     | 433      | 567      | 7,252         |
| Jumlah Besar/Grand Total<br>Tan M/Tonnes          | 61,247  | 63,296   | 76,762 | 69,998 | 69,050 | 85,938 | 74,445 | 81,264 | 89,879    | 84,293  | 69,337   | 56,983   | 882,492       |

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA  
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN KUMPULAN PERKAKAS, 1989  
LANDINGS OF MARINE FISH BY MONTH AND GEAR GROUP, 1989  
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.3

15

| Bulan/Month                                                | Januari<br>January | Februari<br>February | Mac<br>March | April<br>April | Mei<br>May | Jun<br>June | Julai<br>July | Ogos<br>August | September<br>September | Oktober<br>October | November<br>November | Disember<br>December | Jumlah Tan M.<br>Total Tonnes |
|------------------------------------------------------------|--------------------|----------------------|--------------|----------------|------------|-------------|---------------|----------------|------------------------|--------------------|----------------------|----------------------|-------------------------------|
| Kumpulan Perkakas<br>Gear Group                            |                    |                      |              |                |            |             |               |                |                        |                    |                      |                      |                               |
| Pukat-Pukat Tunda<br>Trawl Nets                            | 32,113             | 28,258               | 36,862       | 33,268         | 34,820     | 43,793      | 37,365        | 39,366         | 42,715                 | 38,195             | 37,957               | 31,575               | 436,287                       |
| P.P. Tarik/Seine Nets:<br>Pukat Jerut Ikan<br>P.Seine-Fish | 6,014              | 7,525                | 11,036       | 11,589         | 10,274     | 10,960      | 10,684        | 9,612          | 9,647                  | 10,355             | 7,831                | 5,085                | 110,612                       |
| Pukat Jerut Bilis<br>P.Seine-Anchovy                       | 1,620              | 3,089                | 2,698        | 2,293          | 2,247      | 2,156       | 3,770         | 2,770          | 3,616                  | 2,487              | 1,848                | 1,429                | 30,023                        |
| Lain-Lain/Other Seines                                     | 1,415              | 1,137                | 1,665        | 1,348          | 1,378      | 1,686       | 1,760         | 1,733          | 1,664                  | 1,996              | 1,602                | 1,776                | 19,160                        |
| Pukat-Pukat Hanyut<br>Drift/Gill Nets                      | 3,273              | 3,941                | 3,686        | 3,931          | 3,456      | 3,926       | 4,901         | 4,812          | 5,015                  | 4,787              | 4,424                | 4,371                | 50,523                        |
| Pukat-Pukat Tangguk<br>Lift Nets                           | 127                | 464                  | 1,775        | 1,625          | 1,759      | 1,190       | 1,101         | 1,354          | 995                    | 1,024              | 132                  | 41                   | 11,587                        |
| Perangkap-Perangkap/Traps:<br>Belat-Belat (Stationary)     | 55                 | 63                   | 60           | 81             | 49         | 74          | 68            | 63             | 76                     | 164                | 107                  | 31                   | 891                           |
| Bubu (Portable)                                            | 373                | 469                  | 473          | 545            | 362        | 428         | 517           | 682            | 904                    | 701                | 445                  | 303                  | 6,202                         |
| Pancing/Hooks & Lines                                      | 1,418              | 1,542                | 1,715        | 2,105          | 2,222      | 2,162       | 2,132         | 2,100          | 2,237                  | 1,934              | 1,226                | 1,352                | 22,145                        |
| Pukat-Pukat Bakul<br>Bag Nets                              | 2,056              | 3,094                | 2,641        | 1,623          | 1,837      | 2,403       | 1,323         | 2,056          | 3,082                  | 4,875              | 3,867                | 3,215                | 32,072                        |
| Pukat-Pukat Rentang<br>Barrier Nets                        | 74                 | 52                   | 80           | 97             | 64         | 62          | 69            | 87             | 92                     | 86                 | 53                   | 73                   | 889                           |
| Pukat-Pukat Surung<br>Push/Scoop Nets                      | 158                | 119                  | 148          | 152            | 109        | 159         | 171           | 182            | 225                    | 231                | 152                  | 218                  | 2,024                         |
| Memungut Siput<br>Shellfish Collection                     | 62                 | 57                   | 28           | 19             | 12         | 28          | 26            | 24             | 25                     | 140                | 159                  | 202                  | 782                           |
| Rampaian/Miscellaneous                                     | 23                 | 16                   | 16           | 25             | 15         | 48          | 14            | 4,777          | 9,865                  | 8,083              | 780                  | 25                   | 23,687                        |
| Jumlah/Total                                               | 48,781             | 49,826               | 62,883       | 58,701         | 58,604     | 69,075      | 63,901        | 69,618         | 80,158                 | 75,058             | 60,583               | 49,696               | 746,884                       |

MALAYSIA  
PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN SPESIES IKAN, 1989  
LANDINGS OF MARINE FISH BY STATE AND SPECIES, 1989  
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.4

| ISSCAAP<br>GROUP<br>NO. | Spesies<br>Species          | Pantai Barat<br>West Coast |       |                    |       |          |                    |                   |                     | Jumlah | Pantai Timur<br>East Coast |          |            |        | Jumlah | Sarawak | Sabah | W. P.<br>Labuan | Jumlah | Jumlah<br>Besar<br>Grand-<br>Total |
|-------------------------|-----------------------------|----------------------------|-------|--------------------|-------|----------|--------------------|-------------------|---------------------|--------|----------------------------|----------|------------|--------|--------|---------|-------|-----------------|--------|------------------------------------|
|                         | Nama Tempatan<br>Local Name | Perlis                     | Kedah | P.Pinang<br>Penang | Perak | Selangor | Negeri<br>Sembilan | Melaka<br>Malacca | J.Barat<br>W.Johore |        | Total                      | Kelantan | Terengganu | Pahang |        |         |       |                 |        |                                    |
| 24                      | Kebasi/Selangat             | 636                        | 567   | 219                | 653   | 19       | 1                  | 33                | 236                 | 2,364  | 0                          | 0        | 41         | 433    | 474    | 149     | 0     | 0               | 149    | 2,987                              |
|                         | Puput/B. Mata/Tirok         | 0                          | 164   | 105                | 1,850 | 1,868    | 1                  | 38                | 406                 | 4,432  | 0                          | 0        | 50         | 9      | 59     | 1,532   | 0     | 31              | 1,563  | 6,054                              |
|                         | Terubok                     | 0                          | 0     | 0                  | 49    | 0        | 0                  | 0                 | 0                   | 49     | 0                          | 0        | 0          | 0      | 0      | 765     | 0     | 0               | 765    | 814                                |
| 25                      | Slakap                      | 0                          | 0     | 2                  | 27    | 3        | 2                  | 0                 | 0                   | 34     | 0                          | 0        | 8          | 0      | 8      | 85      | 334   | 6               | 425    | 467                                |
| 31                      | Udah                        | 330                        | 349   | 105                | 181   | 160      | 0                  | 0                 | 56                  | 1,181  | 20                         | 70       | 34         | 41     | 165    | 41      | 0     | 7               | 48     | 1,394                              |
|                         | Sebelah                     | 0                          | 21    | 0                  | 181   | 74       | 0                  | 0                 | 2                   | 278    | 114                        | 106      | 92         | 187    | 499    | 13      | 158   | 30              | 201    | 978                                |
| 33                      | Bayan                       | 0                          | 0     | 0                  | 0     | 0        | 0                  | 0                 | 0                   | 0      | 0                          | 20       | 17         | 5      | 42     | 0       | 827   | 0               | 827    | 869                                |
|                         | Blji Nangka                 | 0                          | 1     | 44                 | 2,421 | 14       | 0                  | 0                 | 90                  | 2,570  | 546                        | 870      | 177        | 105    | 1,698  | 27      | 0     | 322             | 349    | 4,617                              |
|                         | Daun Baharu                 | 0                          | 0     | 0                  | 59    | 26       | 2                  | 2                 | 5                   | 94     | 15                         | 14       | 11         | 48     | 88     | 24      | 0     | 21              | 45     | 227                                |
|                         | Delah/Pinang-Pinang         | 0                          | 0     | 0                  | 8     | 3        | 0                  | 0                 | 0                   | 11     | 0                          | 81       | 24         | 79     | 184    | 0       | 629   | 109             | 738    | 933                                |
|                         | Duri/Pulutan/Utik           | 76                         | 618   | 464                | 1,599 | 573      | 6                  | 96                | 317                 | 3,749  | 369                        | 851      | 427        | 790    | 2,437  | 2,298   | 810   | 88              | 3,196  | 9,382                              |
|                         | Dengkil/Debam               | 0                          | 0     | 0                  | 105   | 2        | 0                  | 0                 | 0                   | 107    | 129                        | 224      | 84         | 78     | 515    | 0       | 717   | 152             | 869    | 1,491                              |
|                         | Gelama/Tengkerong/Selampai  | 682                        | 766   | 897                | 2,246 | 1,861    | 3                  | 31                | 598                 | 7,084  | 1,318                      | 684      | 141        | 761    | 2,904  | 3,786   | 884   | 114             | 4,784  | 14,772                             |
|                         | Gerut-Gerut                 | 60                         | 80    | 23                 | 472   | 77       | 1                  | 6                 | 15                  | 734    | 170                        | 62       | 5          | 2      | 239    | 60      | 0     | 35              | 95     | 1,068                              |
|                         | Jenahak                     | 12                         | 53    | 20                 | 278   | 78       | 22                 | 92                | 88                  | 643    | 0                          | 0        | 1          | 3      | 4      | 43      | 0     | 1               | 44     | 691                                |
|                         | Kaci                        | 0                          | 0     | 2                  | 47    | 7        | 0                  | 3                 | 1                   | 60     | 0                          | 87       | 87         | 112    | 286    | 14      | 625   | 19              | 658    | 1,004                              |
|                         | Kerapu                      | 58                         | 252   | 90                 | 1,345 | 51       | 4                  | 12                | 17                  | 1,829  | 179                        | 631      | 184        | 312    | 1,306  | 104     | 752   | 385             | 1,241  | 4,376                              |
|                         | Kerisi                      | 238                        | 1,807 | 122                | 6,126 | 234      | 0                  | 0                 | 0                   | 8,527  | 2,137                      | 5,678    | 3,509      | 2,499  | 13,823 | 127     | 1,580 | 154             | 1,861  | 24,211                             |
|                         | Kerisi Ball                 | 0                          | 0     | 8                  | 640   | 8        | 0                  | 0                 | 0                   | 656    | 0                          | 187      | 312        | 62     | 561    | 6       | 0     | 0               | 6      | 1,223                              |
|                         | Kikek                       | 98                         | 0     | 0                  | 248   | 1        | 0                  | 0                 | 0                   | 347    | 508                        | 66       | 86         | 68     | 728    | 49      | 757   | 80              | 886    | 1,961                              |
|                         | Maiong                      | 71                         | 250   | 51                 | 247   | 468      | 0                  | 16                | 509                 | 1,612  | 0                          | 40       | 51         | 15     | 106    | 1,157   | 0     | 0               | 1,157  | 2,875                              |
|                         | Merah                       | 0                          | 39    | 28                 | 1,287 | 60       | 1                  | 11                | 11                  | 1,437  | 683                        | 1,373    | 215        | 396    | 2,667  | 480     | 1,025 | 396             | 1,901  | 6,005                              |
|                         | Mengkerong/Conor/Ubi-Ubi    | 0                          | 14    | 208                | 2,225 | 228      | 0                  | 0                 | 174                 | 2,849  | 0                          | 103      | 153        | 371    | 627    | 0       | 0     | 0               | 0      | 3,476                              |
|                         | Remong/Kunyit-Kunyit/Tanda  | 0                          | 23    | 0                  | 209   | 14       | 0                  | 2                 | 0                   | 248    | 376                        | 517      | 393        | 283    | 1,569  | 0       | 0     | 14              | 14     | 1,831                              |
|                         | Semilang                    | 13                         | 115   | 20                 | 404   | 261      | 2                  | 2                 | 9                   | 826    | 0                          | 0        | 1          | 3      | 4      | 63      | 22    | 0               | 85     | 915                                |
|                         | Shrumbu/Lemah               | 0                          | 0     | 0                  | 0     | 0        | 0                  | 0                 | 0                   | 0      | 0                          | 0        | 0          | 0      | 0      | 495     | 97    | 6               | 598    | 598                                |
|                         | Puntong Damar/Bulus         | 56                         | 10    | 1                  | 151   | 126      | 1                  | 4                 | 0                   | 349    | 220                        | 146      | 303        | 220    | 889    | 0       | 0     | 0               | 0      | 1,238                              |
|                         | Pasir-Pasir/Timun-Timun     | 0                          | 0     | 0                  | 6     | 13       | 0                  | 0                 | 0                   | 19     | 0                          | 217      | 345        | 74     | 636    | 0       | 0     | 54              | 54     | 709                                |
| 34                      | Alu-Alu/Kacang-Kacang       | 95                         | 197   | 28                 | 931   | 89       | 0                  | 13                | 109                 | 1,460  | 263                        | 151      | 157        | 157    | 728    | 19      | 453   | 57              | 529    | 2,717                              |
|                         | Aruan Tasik                 | 0                          | 29    | 0                  | 68    | 5        | 0                  | 4                 | 6                   | 112    | 11                         | 214      | 44         | 28     | 297    | 0       | 0     | 7               | 7      | 416                                |
|                         | Bawal                       | 167                        | 473   | 305                | 1,067 | 1,568    | 7                  | 12                | 269                 | 3,868  | 299                        | 304      | 68         | 218    | 889    | 2,332   | 497   | 151             | 2,980  | 7,737                              |
|                         | Belanak/Kedera              | 286                        | 97    | 300                | 912   | 61       | 0                  | 5                 | 14                  | 1,675  | 0                          | 4        | 0          | 4      | 8      | 77      | 554   | 2               | 633    | 2,316                              |
|                         | Cermin/Sagal/Cupak          | 0                          | 0     | 1                  | 429   | 13       | 2                  | 9                 | 66                  | 520    | 342                        | 640      | 230        | 399    | 1,611  | 17      | 1,218 | 111             | 1,346  | 3,477                              |

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

|                              |        |        |        |         |         |     |       |        |         |        |        |        |        |         |        |        |       |         |         |
|------------------------------|--------|--------|--------|---------|---------|-----|-------|--------|---------|--------|--------|--------|--------|---------|--------|--------|-------|---------|---------|
| Cincaru                      | 689    | 208    | 178    | 1,138   | 1,102   | 0   | 35    | 491    | 3,841   | 775    | 913    | 181    | 1,111  | 2,980   | 1,083  | 986    | 143   | 2,212   | 9,033   |
| Demudok/Rambai               | 2      | 68     | 0      | 1,361   | 360     | 0   | 0     | 0      | 1,791   | 697    | 245    | 95     | 201    | 1,238   | 93     | 0      | 39    | 132     | 3,161   |
| Kurau/Senangin/Senohong      | 40     | 135    | 35     | 282     | 243     | 2   | 42    | 25     | 804     | 0      | 16     | 1      | 13     | 30      | 557    | 1,166  | 0     | 1,723   | 2,557   |
| Pelata/Selar                 | 1,514  | 220    | 576    | 1,765   | 459     | 0   | 0     | 81     | 4,615   | 2,127  | 4,758  | 902    | 1,696  | 9,483   | 577    | 1,025  | 33    | 1,635   | 15,733  |
| Selar Kuning/Lolong          | 1,029  | 346    | 1      | 1,483   | 105     | 0   | 0     | 2      | 2,966   | 2,048  | 5,363  | 7,754  | 3,385  | 18,550  | 229    | 0      | 361   | 590     | 22,106  |
| Selayang/Curut               | 7,496  | 132    | 4,178  | 1,753   | 50      | 0   | 0     | 0      | 13,609  | 1,602  | 18,595 | 2,824  | 3,933  | 26,954  | 0      | 1,501  | 565   | 2,066   | 42,629  |
| Pisang-Pisang                | 116    | 0      | 9      | 9       | 49      | 0   | 0     | 0      | 183     | 0      | 33     | 50     | 0      | 83      | 0      | 0      | 0     | 0       | 266     |
| Talang                       | 36     | 204    | 0      | 211     | 45      | 2   | 10    | 38     | 546     | 65     | 13     | 8      | 57     | 143     | 377    | 273    | 98    | 748     | 1,437   |
| 35 Bilis/Bunga Air           | 0      | 14,079 | 0      | 12,101  | 4       | 0   | 0     | 39     | 26,223  | 10     | 2,109  | 957    | 104    | 3,180   | 628    | 524    | 4     | 1,156   | 30,559  |
| Parang-Parang                | 407    | 139    | 58     | 731     | 657     | 26  | 276   | 508    | 2,802   | 617    | 259    | 231    | 241    | 1,348   | 440    | 57     | 17    | 514     | 4,664   |
| Tamban                       | 1,322  | 965    | 582    | 675     | 299     | 0   | 6     | 171    | 4,020   | 356    | 3,266  | 4,243  | 2,178  | 10,043  | 1,791  | 1,078  | 548   | 3,417   | 17,480  |
| Bulan-Bulan                  | 0      | 0      | 0      | 2       | 2       | 0   | 0     | 0      | 4       | 1      | 1      | 7      | 0      | 9       | 0      | 128    | 5     | 133     | 146     |
| 36 Aya/Kayu/Tongkol          | 1,189  | 173    | 411    | 1,831   | 62      | 0   | 0     | 0      | 3,666   | 1,419  | 5,131  | 2,271  | 1,138  | 9,959   | 1,512  | 1,716  | 270   | 3,498   | 17,123  |
| Layaran/Mersuji              | 0      | 0      | 0      | 0       | 0       | 0   | 0     | 0      | 0       | 12     | 102    | 19     | 0      | 133     | 0      | 0      | 0     | 0       | 133     |
| 37 Kembong/Temenong/Pelaling | 13,275 | 13,485 | 6,028  | 8,272   | 1,918   | 0   | 1     | 7      | 42,986  | 886    | 5,554  | 2,269  | 2,168  | 10,877  | 1,381  | 1,993  | 874   | 4,248   | 58,111  |
| Tenggiri                     | 320    | 558    | 83     | 1,265   | 850     | 26  | 278   | 433    | 3,813   | 1,128  | 960    | 995    | 535    | 3,618   | 2,511  | 1,149  | 706   | 4,366   | 11,797  |
| Timah/Layor/Selayor          | 20     | 84     | 33     | 1,476   | 360     | 0   | 2     | 112    | 2,087   | 159    | 274    | 51     | 106    | 590     | 306    | 79     | 3     | 388     | 3,065   |
| 38 Pari                      | 276    | 535    | 113    | 1,787   | 925     | 9   | 289   | 457    | 4,391   | 324    | 313    | 485    | 1,146  | 2,268   | 2,062  | 629    | 64    | 2,755   | 9,414   |
| Yu                           | 15     | 200    | 19     | 546     | 193     | 0   | 25    | 17     | 1,015   | 8      | 217    | 223    | 498    | 946     | 1,406  | 841    | 56    | 2,303   | 4,264   |
| 39 Ikan Baja                 | 4,996  | 26,975 | 15,706 | 88,564  | 37,633  | 0   | 0     | 5,491  | 179,365 | 1,550  | 8,033  | 28,931 | 39,560 | 78,074  | 8,877  | 0      | 1     | 8,878   | 266,317 |
| Ikan Campur                  | 387    | 1,269  | 112    | 6,188   | 1,276   | 61  | 233   | 1,102  | 10,628  | 6,739  | 2,625  | 2,492  | 2,207  | 14,063  | 14,577 | 6,499  | 375   | 21,451  | 46,142  |
| Jebong                       | 0      | 0      | 6      | 724     | 60      | 0   | 0     | 3      | 793     | 26     | 143    | 123    | 174    | 466     | 0      | 0      | 15    | 15      | 1,274   |
| 42 Ketam                     | 442    | 697    | 488    | 969     | 912     | 9   | 1     | 134    | 3,652   | 26     | 143    | 520    | 514    | 1,203   | 261    | 2,271  | 26    | 2,558   | 7,413   |
| 45 Udang Karang/Lobok        | 0      | 0      | 1      | 9       | 21      | 0   | 0     | 0      | 31      | 0      | 104    | 63     | 210    | 377     | 9      | 62     | 5     | 76      | 484     |
| Udang Putih                  | 104    | 548    | 616    | 1,380   | 468     | 20  | 84    | 302    | 3,522   | 268    | 11     | 0      | 175    | 454     | 3,002  | 2,527  | 14    | 5,543   | 9,519   |
| Udang Minyak                 | 80     | 0      | 1,378  | 12,166  | 3,507   | 0   | 0     | 1,356  | 18,487  | 0      | 31     | 42     | 713    | 786     | 868    | 0      | 0     | 868     | 20,141  |
| Udang Merah Ros              | 0      | 0      | 0      | 0       | 299     | 0   | 0     | 2      | 301     | 0      | 6      | 45     | 0      | 51      | 3      | 0      | 0     | 3       | 355     |
| Udang Kulit Keras            | 0      | 0      | 339    | 616     | 1,084   | 0   | 1     | 447    | 2,487   | 618    | 1      | 768    | 123    | 1,510   | 1,849  | 1,476  | 228   | 3,553   | 7,550   |
| Udang Harimau                | 13     | 86     | 10     | 117     | 18      | 0   | 0     | 0      | 244     | 22     | 17     | 98     | 114    | 251     | 15     | 185    | 43    | 243     | 798     |
| Lain-Lain Jenis Udang        | 2,630  | 3,828  | 3,520  | 15,816  | 18,756  | 11  | 315   | 3,543  | 48,419  | 754    | 467    | 318    | 2,332  | 3,871   | 12,726 | 3,313  | 210   | 16,249  | 68,539  |
| Udang Baring                 | 0      | 0      | 0      | 0       | 0       | 0   | 0     | 0      | 0       | 0      | 0      | 0      | 0      | 0       | 677    | 31     | 0     | 708     | 708     |
| 56 Siput/Kepah/Kupang/Tiram  | 0      | 320    | 43     | 190     | 229     | 0   | 0     | 0      | 782     | 0      | 0      | 0      | 0      | 0       | 2      | 1,439  | 0     | 1,441   | 2,223   |
| 57 Sotong Kereta             | 139    | 224    | 16     | 7       | 0       | 0   | 0     | 0      | 386     | 14     | 0      | 10     | 0      | 24      | 1,362  | 0      | 0     | 1,362   | 1,772   |
| Sotong Katak                 | 491    | 452    | 90     | 2,101   | 973     | 0   | 0     | 62     | 4,169   | 146    | 832    | 1,944  | 1,655  | 4,577   | 219    | 0      | 77    | 296     | 9,042   |
| Sotong Biasa                 | 2,454  | 3,760  | 714    | 6,968   | 1,925   | 0   | 0     | 317    | 16,138  | 2,886  | 4,940  | 2,560  | 2,974  | 13,360  | 1      | 1,113  | 120   | 1,234   | 30,732  |
| 76 Ubur-Ubur                 | 0      | 0      | 240    | 0       | 29,837  | 0   | 0     | 767    | 30,844  | 0      | 0      | 0      | 0      | 0       | 11,192 | 0      | 0     | 11,192  | 42,036  |
| Trepang                      | 0      | 0      | 0      | 0       | 0       | 0   | 0     | 0      | 0       | 0      | 0      | 0      | 0      | 0       | 0      | 0      | 0     | 0       | 0       |
| Jumlah Tan M/Total Tonnes    | 42,360 | 75,615 | 38,624 | 198,974 | 112,646 | 221 | 1,989 | 18,905 | 489,334 | 32,982 | 78,815 | 68,730 | 77,023 | 257,550 | 84,356 | 44,000 | 7,252 | 135,608 | 882,492 |

Nota: Lain-Lain Spesies bagi Sarawak telah dimasukkan ke dalam Ikan Campur  
 Note: Ikan Campur includes other species of fish for Sarawak.

SEMENANJUNG MALAYSIA/ PENINSULAR MALAYSIA  
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN JENIS IKAN, 1989  
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1989

JADUAL (TABLE) 4.5

| ISSCAA<br>GROUP<br>NO. | Jenis Ikan<br>Species       | Januari | Februari | Mac   | April | Mei   | Jun   | Julai | Ogos   | Septembe | Oktober | November | Disember | Jumlah<br>(Tan)<br>Total<br>(Tonnes) |
|------------------------|-----------------------------|---------|----------|-------|-------|-------|-------|-------|--------|----------|---------|----------|----------|--------------------------------------|
|                        | Nama Tempatan<br>Local Name | January | February | March | April | May   | June  | July  | August | Septembe | October | November | December |                                      |
|                        | Species                     |         |          |       |       |       |       |       |        |          |         |          |          |                                      |
| 24                     | Kebasi/Selangat             | 195     | 188      | 247   | 598   | 191   | 142   | 219   | 145    | 159      | 288     | 233      | 233      | 2,838                                |
|                        | Puput/B. Mata/Tirok         | 546     | 379      | 378   | 308   | 276   | 509   | 287   | 484    | 397      | 262     | 337      | 328      | 4,491                                |
|                        | Terubok                     | 0       | 0        | 0     | 0     | 0     | 0     | 0     | 0      | 9        | 17      | 10       | 13       | 49                                   |
| 25                     | Siakap                      | 3       | 2        | 4     | 4     | 4     | 3     | 3     | 4      | 3        | 5       | 3        | 4        | 42                                   |
| 31                     | Lidah                       | 101     | 115      | 144   | 132   | 108   | 100   | 98    | 92     | 121      | 95      | 126      | 114      | 1,346                                |
|                        | Sebelah                     | 75      | 62       | 85    | 61    | 57    | 61    | 64    | 60     | 89       | 69      | 54       | 40       | 777                                  |
| 33                     | Bayan                       | 0       | 1        | 7     | 4     | 2     | 3     | 4     | 3      | 10       | 4       | 2        | 2        | 42                                   |
|                        | Biji Nangka                 | 228     | 263      | 292   | 293   | 417   | 501   | 533   | 257    | 307      | 368     | 498      | 311      | 4,268                                |
|                        | Daun Baharu                 | 27      | 16       | 13    | 12    | 12    | 22    | 11    | 12     | 23       | 18      | 11       | 5        | 182                                  |
|                        | Delah/Pinang-Pinang         | 2       | 2        | 42    | 16    | 14    | 34    | 14    | 33     | 22       | 10      | 3        | 3        | 195                                  |
|                        | Duri/Pulutan/Utik           | 411     | 448      | 531   | 655   | 508   | 494   | 525   | 473    | 560      | 713     | 474      | 394      | 6,186                                |
|                        | Dengkis/Debam               | 56      | 30       | 58    | 48    | 29    | 34    | 90    | 33     | 75       | 60      | 54       | 55       | 622                                  |
|                        | Gelama/Tengkerong/Selampa   | 1,025   | 762      | 949   | 957   | 877   | 833   | 766   | 811    | 891      | 836     | 658      | 623      | 9,988                                |
|                        | Gerut-Gerut                 | 127     | 110      | 130   | 79    | 75    | 97    | 72    | 50     | 85       | 59      | 61       | 28       | 973                                  |
|                        | Jenahak                     | 45      | 48       | 63    | 54    | 42    | 114   | 59    | 65     | 49       | 35      | 42       | 31       | 647                                  |
|                        | Kaci                        | 23      | 18       | 30    | 40    | 23    | 30    | 35    | 29     | 40       | 40      | 23       | 15       | 346                                  |
|                        | Kerapu                      | 219     | 176      | 313   | 333   | 277   | 322   | 331   | 255    | 244      | 243     | 243      | 179      | 3,135                                |
|                        | Kerisi                      | 1,340   | 1,121    | 1,833 | 1,908 | 1,591 | 2,132 | 1,963 | 1,654  | 2,661    | 2,523   | 2,150    | 1,474    | 22,350                               |
|                        | Kerisi Bali                 | 74      | 43       | 81    | 103   | 95    | 101   | 145   | 140    | 140      | 114     | 124      | 57       | 1,217                                |
|                        | Kikek                       | 168     | 53       | 91    | 128   | 55    | 100   | 121   | 136    | 59       | 69      | 68       | 27       | 1,075                                |
|                        | Malong                      | 164     | 122      | 182   | 199   | 131   | 132   | 124   | 123    | 132      | 125     | 135      | 149      | 1,718                                |
|                        | Merah                       | 299     | 291      | 471   | 491   | 324   | 304   | 345   | 320    | 423      | 357     | 288      | 191      | 4,104                                |
|                        | Mengkerong/Conor/Ubi-Ubi    | 215     | 244      | 438   | 370   | 199   | 428   | 257   | 280    | 244      | 263     | 247      | 291      | 3,476                                |
|                        | Remong/Kunyit-Kunyit/Tanda  | 134     | 111      | 132   | 224   | 179   | 189   | 163   | 172    | 150      | 171     | 130      | 62       | 1,817                                |
|                        | Semilang                    | 33      | 41       | 29    | 62    | 222   | 39    | 46    | 44     | 105      | 50      | 73       | 86       | 830                                  |
|                        | Shrumbu/Lemah               | 0       | 0        | 0     | 0     | 0     | 0     | 0     | 0      | 0        | 0       | 0        | 0        | 0                                    |
|                        | Puntong Damar/Bulus         | 118     | 98       | 101   | 90    | 257   | 56    | 81    | 84     | 99       | 115     | 72       | 67       | 1,238                                |
|                        | Pasir-Pasir/Timun           | 40      | 47       | 61    | 81    | 50    | 77    | 51    | 26     | 61       | 89      | 42       | 30       | 655                                  |
| 34                     | Alu-Alu/Kacang-Kacang       | 187     | 127      | 185   | 221   | 189   | 253   | 197   | 170    | 164      | 189     | 198      | 108      | 2,188                                |
|                        | Aruan Tasik                 | 25      | 20       | 34    | 146   | 12    | 16    | 28    | 31     | 35       | 30      | 19       | 13       | 409                                  |
|                        | Bawal                       | 480     | 438      | 434   | 446   | 511   | 497   | 387   | 267    | 313      | 318     | 378      | 288      | 4,757                                |
|                        | Belanak/Kedera              | 174     | 101      | 130   | 91    | 73    | 107   | 67    | 170    | 220      | 256     | 140      | 154      | 1,683                                |
|                        | Cermin/Sagai/Cupak          | 210     | 173      | 216   | 244   | 151   | 150   | 193   | 193    | 192      | 223     | 131      | 55       | 2,131                                |

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

|                           |                           |        |          |          |        |        |        |        |        |        |        |        |        |         |
|---------------------------|---------------------------|--------|----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|                           | Cincaru                   | 616    | 475      | 489      | 641    | 331    | 974    | 899    | 493    | 567    | 471    | 453    | 412    | 6,821   |
|                           | Demudok/Rambai            | 184    | 170      | 298      | 289    | 245    | 360    | 348    | 285    | 322    | 260    | 178    | 90     | 3,029   |
|                           | Kurau/Senangin/Senohong   | 70     | 60       | 64       | 77     | 64     | 70     | 68     | 80     | 71     | 83     | 61     | 66     | 834     |
|                           | Pelata/Selar              | 970    | 719      | 1,269    | 1,315  | 1,437  | 1,668  | 1,340  | 1,186  | 1,101  | 1,160  | 975    | 958    | 14,098  |
|                           | Selar Kuning/Lolong       | 739    | 1,131    | 2,134    | 2,535  | 2,073  | 2,619  | 2,085  | 2,156  | 1,638  | 2,173  | 1,229  | 1,004  | 21,516  |
|                           | Selayang/Curut            | 2,256  | 2,501    | 3,885    | 3,651  | 2,845  | 3,791  | 3,935  | 4,037  | 4,623  | 3,981  | 3,356  | 1,701  | 40,562  |
|                           | Pisang-Pisang             | 3      | 9        | 1        | 27     | 31     | 52     | 24     | 30     | 21     | 58     | 9      | 1      | 266     |
|                           | Talang                    | 57     | 45       | 64       | 58     | 65     | 90     | 59     | 47     | 43     | 62     | 47     | 52     | 689     |
| 35                        | Bilis/Bunga Air           | 1,628  | 3,049    | 2,619    | 2,267  | 2,188  | 1,984  | 3,757  | 2,664  | 3,546  | 2,242  | 1,934  | 1,525  | 29,403  |
|                           | Parang-Parang             | 388    | 322      | 368      | 343    | 325    | 431    | 361    | 439    | 354    | 325    | 266    | 228    | 4,150   |
|                           | Tamban                    | 317    | 1,001    | 1,721    | 1,663  | 2,237  | 1,244  | 1,535  | 1,052  | 1,051  | 1,224  | 575    | 443    | 14,063  |
|                           | Bulan-Bulan               | 1      | 1        | 4        | 1      | 0      | 0      | 0      | 2      | 2      | 2      | 0      | 0      | 13      |
| 36                        | Aya/Kayu/Tongkol          | 482    | 1,037    | 880      | 1,302  | 1,219  | 1,244  | 1,462  | 1,826  | 1,641  | 1,246  | 855    | 431    | 13,625  |
|                           | Layaran/Marsuji           | 3      | 25       | 6        | 27     | 11     | 2      | 33     | 11     | 5      | 4      | 5      | 1      | 133     |
| 37                        | Kembong/Temenong/Pelaling | 3,585  | 4,598    | 5,186    | 4,413  | 3,956  | 4,545  | 4,823  | 4,746  | 4,252  | 4,735  | 5,261  | 3,763  | 53,863  |
|                           | Tenggiri                  | 880    | 626      | 481      | 676    | 615    | 511    | 561    | 860    | 609    | 619    | 356    | 637    | 7,431   |
|                           | Timah/Layor/Selayor       | 403    | 161      | 295      | 283    | 244    | 332    | 149    | 149    | 134    | 209    | 172    | 146    | 2,677   |
| 38                        | Pari                      | 556    | 445      | 622      | 633    | 612    | 653    | 512    | 502    | 531    | 529    | 558    | 506    | 6,659   |
|                           | Yu                        | 213    | 172      | 194      | 235    | 147    | 158    | 139    | 157    | 155    | 149    | 130    | 112    | 1,961   |
| 39                        | Ikan Baja                 | 18,511 | 15,256   | 21,506   | 18,736 | 20,821 | 25,935 | 22,223 | 25,203 | 24,840 | 23,284 | 21,931 | 19,193 | 257,439 |
|                           | Ikan Campur               | 1,417  | 1,341    | 1,700    | 1,791  | 1,949  | 2,688  | 2,401  | 2,119  | 2,495  | 2,971  | 2,018  | 1,801  | 24,691  |
|                           | Jebong                    | 58     | 46       | 121      | 119    | 107    | 115    | 83     | 72     | 99     | 115    | 153    | 171    | 1,259   |
| 42                        | Ketam                     | 352    | 259      | 381      | 411    | 392    | 370    | 465    | 462    | 666    | 473    | 328    | 296    | 4,855   |
| 45                        | Udang Karang/Lobok        | 40     | 29       | 24       | 37     | 32     | 31     | 38     | 27     | 35     | 49     | 36     | 30     | 408     |
|                           | Udang Putih               | 385    | 367      | 288      | 283    | 290    | 281    | 310    | 340    | 422    | 332    | 359    | 319    | 3,976   |
|                           | Udang Minyak              | 1,423  | 1,837    | 1,680    | 1,170  | 1,032  | 1,359  | 1,451  | 1,377  | 1,647  | 2,208  | 2,263  | 1,826  | 19,273  |
|                           | Udang Merah Ros           | 74     | 17       | 1        | 0      | 18     | 50     | 29     | 31     | 43     | 18     | 51     | 20     | 352     |
|                           | Udang Kulit Keras         | 338    | 343      | 573      | 349    | 309    | 320    | 225    | 175    | 264    | 302    | 264    | 535    | 3,997   |
|                           | Udang Harimau             | 67     | 54       | 39       | 30     | 22     | 33     | 24     | 41     | 48     | 41     | 45     | 51     | 495     |
|                           | Lain-Lain Jenis Udang     | 3,893  | 4,806    | 4,536    | 3,175  | 4,149  | 4,663  | 3,346  | 3,180  | 3,699  | 4,766  | 6,231  | 5,847  | 52,291  |
|                           | Udang Baring              | 0      | 0        | 0        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       |
| 56                        | Siput/Kepah/Kupang/Tiram  | 62     | 57       | 28       | 19     | 12     | 28     | 26     | 24     | 25     | 140    | 159    | 202    | 782     |
| 57                        | Sotong Kereta             | 21     | 28       | 48       | 29     | 58     | 39     | 31     | 38     | 40     | 24     | 19     | 35     | 410     |
|                           | Sotong Katak              | 442    | 471      | 609      | 645    | 655    | 763    | 1,263  | 1,153  | 870    | 760    | 656    | 459    | 8,746   |
|                           | Sotong Biasa              | 1,603  | 2,580    | 2,529    | 3,043  | 3,162  | 3,662  | 2,510  | 2,850  | 2,435  | 2,309  | 1,462  | 1,353  | 29,498  |
| 76                        | Ubur-Ubur                 | 0      | 138      | 536      | 30     | 0      | 130    | 107    | 5,188  | 13,782 | 9,720  | 1,161  | 52     | 30,844  |
| Jumlah Tan M/Total Tonnes |                           | 48,781 | 49,826 € | 62,883 € | 58,701 | 58,604 | 69,075 | 63,901 | 69,618 | 80,158 | 75,058 | 60,583 | 49,696 | 746,884 |

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST OF PENINSULAR MALAYSIA  
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN JENIS IKAN, 1989  
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1989

JADUAL (TABLE) 4.5.1

| ISSCAAP<br>GROUP<br>NO. | Jenis Ikan<br>Species       | Januari | Februari | Mac   | April | Mei | Jun  | Julai | Ogos   | September | Oktober | November | Disember | Jumlah<br>(Tan)<br>Total<br>(Tonnes) |
|-------------------------|-----------------------------|---------|----------|-------|-------|-----|------|-------|--------|-----------|---------|----------|----------|--------------------------------------|
|                         | Nama Tempatan<br>Local Name | January | February | March | April | May | June | July  | August | September | October | November | December |                                      |
|                         | Species                     |         |          |       |       |     |      |       |        |           |         |          |          |                                      |
| 24                      | Kebasi/Selangat             | 182     | 179      | 234   | 206   | 185 | 142  | 213   | 145    | 158       | 266     | 231      | 223      | 2,364                                |
|                         | Puput/B. Mata/Tirok         | 543     | 379      | 375   | 308   | 276 | 509  | 287   | 483    | 397       | 262     | 307      | 306      | 4,432                                |
|                         | Terubok                     | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 9         | 17      | 10       | 13       | 49                                   |
| 25                      | Siakap                      | 2       | 2        | 4     | 4     | 4   | 2    | 2     | 3      | 3         | 4       | 1        | 3        | 34                                   |
| 31                      | Lidah                       | 85      | 100      | 127   | 114   | 98  | 87   | 88    | 81     | 105       | 79      | 114      | 103      | 1,181                                |
|                         | Sebelah                     | 35      | 14       | 26    | 16    | 18  | 21   | 18    | 29     | 33        | 24      | 21       | 23       | 278                                  |
| 33                      | Bayan                       | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Biji Nangka                 | 153     | 176      | 145   | 135   | 297 | 259  | 372   | 109    | 111       | 231     | 360      | 222      | 2,570                                |
|                         | Daun Baharu                 | 15      | 13       | 5     | 9     | 2   | 14   | 6     | 5      | 17        | 3       | 3        | 2        | 94                                   |
|                         | Delah/Pinang-Pinang         | 1       | 0        | 2     | 1     | 4   | 0    | 1     | 0      | 0         | 1       | 0        | 1        | 11                                   |
|                         | Duri/Pulutan/Utik           | 262     | 278      | 319   | 325   | 328 | 288  | 318   | 304    | 314       | 443     | 280      | 290      | 3,749                                |
|                         | Dengkis/Debam               | 37      | 8        | 11    | 8     | 3   | 3    | 5     | 4      | 5         | 4       | 3        | 16       | 107                                  |
|                         | Gelama/Tengkerong/Selampai  | 779     | 530      | 651   | 703   | 699 | 557  | 600   | 551    | 529       | 538     | 458      | 489      | 7,084                                |
|                         | Gerut-Gerut                 | 105     | 87       | 109   | 57    | 52  | 74   | 58    | 37     | 43        | 34      | 54       | 24       | 734                                  |
|                         | Jenahak                     | 45      | 47       | 62    | 54    | 42  | 114  | 58    | 64     | 49        | 35      | 42       | 31       | 643                                  |
|                         | Kaci                        | 7       | 5        | 12    | 5     | 4   | 6    | 5     | 2      | 6         | 2       | 2        | 4        | 60                                   |
|                         | Kerapu                      | 174     | 123      | 196   | 184   | 171 | 200  | 157   | 122    | 116       | 143     | 129      | 114      | 1,829                                |
|                         | Kerisi                      | 487     | 373      | 837   | 540   | 672 | 804  | 738   | 537    | 652       | 791     | 1,148    | 948      | 8,527                                |
|                         | Kerisi Bali                 | 61      | 21       | 27    | 35    | 69  | 46   | 94    | 78     | 79        | 47      | 68       | 31       | 656                                  |
|                         | Kikek                       | 89      | 10       | 18    | 33    | 8   | 38   | 70    | 32     | 1         | 5       | 35       | 8        | 347                                  |
|                         | Malong                      | 156     | 118      | 177   | 192   | 125 | 118  | 114   | 108    | 120       | 116     | 125      | 143      | 1,612                                |
|                         | Merah                       | 135     | 81       | 147   | 102   | 143 | 134  | 121   | 129    | 151       | 120     | 97       | 77       | 1,437                                |
|                         | Mengkerong/Conor/Ubi-Ubi    | 170     | 199      | 345   | 290   | 161 | 365  | 217   | 219    | 182       | 210     | 222      | 269      | 2,849                                |
|                         | Remong/Kunyit-Kunyit/Tanda  | 33      | 24       | 35    | 24    | 18  | 33   | 13    | 15     | 17        | 16      | 8        | 12       | 248                                  |
|                         | Semilang                    | 33      | 41       | 29    | 62    | 222 | 39   | 45    | 44     | 104       | 50      | 71       | 86       | 826                                  |
|                         | Shrumbu/Lemah               | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Puntong Damar/Bulus         | 15      | 16       | 24    | 14    | 106 | 17   | 24    | 22     | 36        | 16      | 28       | 31       | 349                                  |
|                         | Pasir-Pasir/Timun           | 1       | 0        | 1     | 1     | 8   | 1    | 2     | 1      | 2         | 0       | 1        | 1        | 19                                   |
| 34                      | Alu-Alu/Kacang-Kacang       | 151     | 82       | 117   | 129   | 132 | 214  | 123   | 76     | 95        | 105     | 153      | 83       | 1,460                                |
|                         | Aruan Tasik                 | 11      | 11       | 17    | 12    | 6   | 9    | 10    | 11     | 6         | 7       | 4        | 8        | 112                                  |
|                         | Bawal                       | 403     | 320      | 305   | 313   | 399 | 421  | 290   | 200    | 276       | 295     | 369      | 277      | 3,868                                |
|                         | Belanak/Kedera              | 173     | 100      | 130   | 91    | 73  | 106  | 63    | 170    | 220       | 256     | 140      | 153      | 1,675                                |
|                         | Cermin/Sagai/Cupak          | 130     | 74       | 88    | 41    | 40  | 23   | 22    | 23     | 17        | 30      | 21       | 11       | 520                                  |

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

|    |                           |        |          |          |        |        |        |        |        |        |        |        |        |         |
|----|---------------------------|--------|----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|    | Cincaru                   | 455    | 159      | 242      | 206    | 145    | 647    | 539    | 307    | 308    | 308    | 269    | 256    | 3,841   |
|    | Demudok/Rambai            | 133    | 92       | 173      | 190    | 144    | 209    | 215    | 159    | 138    | 131    | 128    | 79     | 1,791   |
|    | Kurau/Senangin/Senohong   | 68     | 59       | 62       | 76     | 63     | 67     | 66     | 63     | 71     | 82     | 61     | 66     | 804     |
|    | Pelata/Selar              | 387    | 273      | 369      | 520    | 663    | 744    | 454    | 304    | 224    | 241    | 254    | 182    | 4,615   |
|    | Selar Kuning/Lolong       | 181    | 163      | 185      | 200    | 297    | 419    | 217    | 187    | 182    | 252    | 421    | 262    | 2,966   |
|    | Selayang/Curut            | 1,095  | 1,486    | 1,662    | 1,596  | 1,289  | 1,438  | 1,002  | 779    | 902    | 756    | 906    | 698    | 13,609  |
|    | Pisang-Pisang             | 0      | 8        | 0        | 0      | 30     | 42     | 10     | 29     | 14     | 44     | 6      | 0      | 183     |
|    | Talang                    | 53     | 38       | 58       | 40     | 53     | 43     | 46     | 38     | 34     | 47     | 45     | 51     | 546     |
| 35 | Bilis/Bunga Air           | 1,628  | 2,832    | 2,492    | 1,942  | 1,909  | 1,598  | 3,274  | 2,206  | 3,228  | 1,688  | 1,904  | 1,524  | 28,223  |
|    | Parang-Parang             | 298    | 209      | 240      | 208    | 219    | 266    | 229    | 284    | 232    | 207    | 211    | 199    | 2,802   |
|    | Tamban                    | 275    | 259      | 316      | 169    | 214    | 294    | 380    | 461    | 489    | 307    | 466    | 390    | 4,020   |
|    | Bulan-Bulan               | 1      | 1        | 2        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4       |
| 36 | Aya/Kayu/Tongkol          | 158    | 258      | 258      | 218    | 488    | 308    | 355    | 342    | 740    | 217    | 247    | 77     | 3,666   |
|    | Layaran/Marsuji           | 0      | 0        | 0        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       |
| 37 | Kembong/Temenong/Pelaling | 3,014  | 3,709    | 3,833    | 3,251  | 2,724  | 3,569  | 3,733  | 3,782  | 3,591  | 3,840  | 4,698  | 3,242  | 42,986  |
|    | Tenggiri                  | 462    | 268      | 269      | 276    | 291    | 304    | 298    | 323    | 302    | 290    | 259    | 471    | 3,813   |
|    | Timah/Layor/Selayor       | 349    | 131      | 230      | 230    | 202    | 266    | 104    | 118    | 97     | 150    | 104    | 106    | 2,087   |
| 38 | Pari                      | 389    | 304      | 426      | 421    | 431    | 442    | 339    | 325    | 350    | 318    | 302    | 344    | 4,391   |
|    | Yu                        | 148    | 122      | 99       | 108    | 63     | 80     | 56     | 62     | 65     | 69     | 67     | 76     | 1,015   |
| 39 | Ikan Baja                 | 14,585 | 12,628   | 16,582   | 13,317 | 15,315 | 18,233 | 14,248 | 17,038 | 15,681 | 15,392 | 13,288 | 13,058 | 179,365 |
|    | Ikan Campur               | 649    | 594      | 848      | 800    | 794    | 1,178  | 1,127  | 804    | 900    | 995    | 929    | 1,010  | 10,628  |
|    | Jebong                    | 33     | 32       | 96       | 77     | 77     | 77     | 56     | 44     | 53     | 53     | 67     | 128    | 793     |
| 42 | Ketam                     | 244    | 212      | 324      | 361    | 355    | 305    | 221    | 296    | 426    | 393    | 265    | 250    | 3,652   |
| 45 | Udang Karang/Lobok        | 3      | 2        | 1        | 4      | 6      | 2      | 3      | 0      | 1      | 6      | 2      | 1      | 31      |
|    | Udang Putih               | 266    | 262      | 254      | 272    | 273    | 269    | 296    | 320    | 411    | 315    | 305    | 279    | 3,522   |
|    | Udang Minyak              | 1,284  | 1,679    | 1,486    | 1,159  | 1,026  | 1,356  | 1,446  | 1,361  | 1,618  | 2,144  | 2,159  | 1,769  | 18,487  |
|    | Udang Merah Ros           | 62     | 2        | 0        | 0      | 18     | 50     | 29     | 31     | 43     | 16     | 30     | 20     | 301     |
|    | Udang Kulit Keras         | 135    | 144      | 337      | 186    | 280    | 283    | 154    | 108    | 233    | 203    | 195    | 229    | 2,487   |
|    | Udang Harimau             | 29     | 25       | 22       | 16     | 13     | 20     | 14     | 24     | 21     | 24     | 21     | 15     | 244     |
|    | Lain-Lain Jenis Udang     | 3,511  | 4,504    | 4,277    | 2,995  | 4,047  | 4,515  | 2,873  | 2,677  | 3,239  | 4,449  | 5,834  | 5,498  | 48,419  |
|    | Udang Baring              | 0      | 0        | 0        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       |
| 56 | Siput/Kepah/Kupang/Tiram  | 62     | 57       | 28       | 19     | 12     | 28     | 26     | 24     | 25     | 140    | 159    | 202    | 782     |
| 57 | Sotong Kereta             | 20     | 27       | 48       | 29     | 44     | 38     | 29     | 38     | 39     | 22     | 18     | 34     | 386     |
|    | Sotong Katak              | 214    | 223      | 308      | 309    | 362    | 419    | 378    | 578    | 411    | 341    | 319    | 307    | 4,169   |
|    | Sotong Biasa              | 1,226  | 1,991    | 1,431    | 1,021  | 1,111  | 1,358  | 1,237  | 1,880  | 1,539  | 1,171  | 1,093  | 1,080  | 16,138  |
| 76 | Ubur-Ubur                 | 0      | 138      | 536      | 30     | 0      | 130    | 107    | 5,188  | 13,782 | 9,720  | 1,161  | 52     | 30,844  |
|    | Jumlah Tan M/Total Tonnes | 35,888 | 36,302 € | 42,069 € | 34,254 | 37,323 | 43,641 | 37,695 | 43,784 | 53,242 | 48,481 | 40,698 | 35,957 | 489,334 |

PANTAI TIMUR SEMENANJUNG MALAYSIA/ EAST COAST OF PENINSULAR MALAYSIA  
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN JENIS IKAN, 1989  
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1989

JADUAL (TABLE) 4.5.2

| ISSCAAP<br>GROUP<br>NO. | Jenis Ikan<br>Species       | Januari | Februari | Mac   | April | Mei | Jun   | Julai | Ogos   | September | Oktober | November | Disember | Jumlah<br>(Tan)<br>Total<br>(Tonnes) |
|-------------------------|-----------------------------|---------|----------|-------|-------|-----|-------|-------|--------|-----------|---------|----------|----------|--------------------------------------|
|                         | Nama Tempatan<br>Local Name | January | February | March | April | May | June  | July  | August | September | October | November | December |                                      |
|                         | Species                     |         |          |       |       |     |       |       |        |           |         |          |          |                                      |
| 24                      | Kebasi/Selangat             | 13      | 9        | 13    | 392   | 6   | 0     | 6     | 0      | 1         | 22      | 2        | 10       | 474                                  |
|                         | Puput/B. Mata/Tirok         | 3       | 0        | 3     | 0     | 0   | 0     | 0     | 1      | 0         | 0       | 30       | 22       | 59                                   |
|                         | Terubok                     | 0       | 0        | 0     | 0     | 0   | 0     | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
| 25                      | Siakap                      | 1       | 0        | 0     | 0     | 0   | 1     | 1     | 1      | 0         | 1       | 2        | 1        | 8                                    |
| 31                      | Lidah                       | 16      | 15       | 17    | 18    | 10  | 13    | 10    | 11     | 16        | 16      | 12       | 11       | 165                                  |
|                         | Sebelah                     | 40      | 48       | 59    | 45    | 39  | 40    | 46    | 31     | 56        | 45      | 33       | 17       | 499                                  |
| 33                      | Bayan                       | 0       | 1        | 7     | 4     | 2   | 3     | 4     | 3      | 10        | 4       | 2        | 2        | 42                                   |
|                         | Biji Nangka                 | 75      | 87       | 147   | 158   | 120 | 242   | 161   | 148    | 196       | 137     | 138      | 89       | 1,698                                |
|                         | Daun Baharu                 | 12      | 3        | 8     | 3     | 10  | 8     | 5     | 7      | 6         | 15      | 8        | 3        | 88                                   |
|                         | Delah/Pinang-Pinang         | 1       | 2        | 40    | 15    | 10  | 34    | 13    | 33     | 22        | 9       | 3        | 2        | 184                                  |
|                         | Duri/Pulutan/Utik           | 149     | 170      | 212   | 330   | 180 | 206   | 207   | 169    | 246       | 270     | 194      | 104      | 2,437                                |
|                         | Dengkis/Debam               | 19      | 22       | 47    | 40    | 26  | 31    | 85    | 29     | 70        | 56      | 51       | 39       | 515                                  |
|                         | Gelama/Tengkerong/Selampai  | 246     | 232      | 298   | 254   | 178 | 276   | 166   | 260    | 362       | 298     | 200      | 134      | 2,904                                |
|                         | Gerut-Gerut                 | 22      | 23       | 21    | 22    | 23  | 23    | 14    | 13     | 42        | 25      | 7        | 4        | 239                                  |
|                         | Jenahak                     | 0       | 1        | 1     | 0     | 0   | 0     | 1     | 1      | 0         | 0       | 0        | 0        | 4                                    |
|                         | Kaci                        | 16      | 13       | 18    | 35    | 19  | 24    | 30    | 27     | 34        | 38      | 21       | 11       | 286                                  |
|                         | Kerapu                      | 45      | 53       | 117   | 149   | 106 | 122   | 174   | 133    | 128       | 100     | 114      | 65       | 1,306                                |
|                         | Kerisi                      | 853     | 748      | 996   | 1,368 | 919 | 1,328 | 1,225 | 1,117  | 2,009     | 1,732   | 1,002    | 526      | 13,823                               |
|                         | Kerisi Bali                 | 13      | 22       | 54    | 68    | 26  | 55    | 51    | 62     | 61        | 67      | 56       | 26       | 561                                  |
|                         | Kikek                       | 79      | 43       | 73    | 95    | 47  | 62    | 51    | 104    | 58        | 64      | 33       | 19       | 728                                  |
|                         | Malong                      | 8       | 4        | 5     | 7     | 6   | 14    | 10    | 15     | 12        | 9       | 10       | 6        | 106                                  |
|                         | Merah                       | 164     | 210      | 324   | 389   | 181 | 170   | 224   | 191    | 272       | 237     | 191      | 114      | 2,667                                |
|                         | Mengkerong/Conor/Ubi-Ubi    | 45      | 45       | 93    | 80    | 38  | 63    | 40    | 61     | 62        | 53      | 25       | 22       | 627                                  |
|                         | Remong/Kunyit-Kunyit/Tanda  | 101     | 87       | 97    | 200   | 161 | 156   | 150   | 157    | 133       | 155     | 122      | 50       | 1,569                                |
|                         | Semilang                    | 0       | 0        | 0     | 0     | 0   | 0     | 1     | 0      | 1         | 0       | 2        | 0        | 4                                    |
|                         | Shrumbu/Lemah               | 0       | 0        | 0     | 0     | 0   | 0     | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Puntong Damar/Bulus         | 103     | 82       | 77    | 76    | 151 | 39    | 57    | 62     | 63        | 99      | 44       | 36       | 889                                  |
|                         | Pasir-Pasir/Timun           | 39      | 47       | 60    | 80    | 42  | 76    | 49    | 25     | 59        | 89      | 41       | 29       | 636                                  |
| 34                      | Alu-Alu/Kacang-Kacang       | 36      | 45       | 68    | 92    | 57  | 39    | 74    | 94     | 69        | 84      | 45       | 25       | 728                                  |
|                         | Aruan Tasik                 | 14      | 9        | 17    | 134   | 6   | 7     | 18    | 20     | 29        | 23      | 15       | 5        | 297                                  |
|                         | Bawal                       | 77      | 118      | 129   | 133   | 112 | 76    | 97    | 67     | 37        | 23      | 9        | 11       | 889                                  |
|                         | Belanak/Kedera              | 1       | 1        | 0     | 0     | 0   | 1     | 4     | 0      | 0         | 0       | 0        | 1        | 8                                    |
|                         | Cermin/Sagai/Cupak          | 80      | 99       | 128   | 203   | 111 | 127   | 171   | 170    | 175       | 193     | 110      | 44       | 1,611                                |

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

|                           |                           |        |        |        |        |        |        |        |        |        |        |        |        |         |
|---------------------------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|                           | Cincaru                   | 161    | 316    | 247    | 435    | 186    | 327    | 360    | 186    | 259    | 163    | 184    | 156    | 2,980   |
|                           | Demudok/Rambai            | 51     | 78     | 125    | 99     | 101    | 151    | 133    | 126    | 184    | 129    | 50     | 11     | 1,238   |
|                           | Kurau/Senangin/Senohong   | 2      | 1      | 2      | 1      | 1      | 3      | 2      | 17     | 0      | 1      | 0      | 0      | 30      |
|                           | Pelata/Selar              | 583    | 446    | 900    | 795    | 774    | 924    | 886    | 882    | 877    | 919    | 721    | 776    | 9,483   |
|                           | Selar Kuning/Lolong       | 558    | 968    | 1,949  | 2,335  | 1,776  | 2,200  | 1,868  | 1,969  | 1,456  | 1,921  | 808    | 742    | 18,550  |
|                           | Selayang/Curut            | 1,161  | 1,015  | 2,223  | 2,055  | 1,556  | 2,353  | 2,933  | 3,258  | 3,721  | 3,225  | 2,450  | 1,003  | 26,953  |
|                           | Pisang-Pisang             | 3      | 1      | 1      | 27     | 1      | 10     | 14     | 1      | 7      | 14     | 3      | 1      | 83      |
|                           | Talang                    | 4      | 7      | 6      | 18     | 12     | 47     | 13     | 9      | 9      | 15     | 2      | 1      | 143     |
| 35                        | Bitis/Bunga Air           | 2      | 217    | 127    | 325    | 279    | 386    | 483    | 458    | 318    | 554    | 30     | 1      | 3,180   |
|                           | Parang-Parang             | 90     | 113    | 128    | 135    | 106    | 165    | 132    | 155    | 122    | 118    | 55     | 29     | 1,348   |
|                           | Tamban                    | 42     | 742    | 1,405  | 1,494  | 2,023  | 950    | 1,155  | 591    | 562    | 917    | 109    | 53     | 10,043  |
|                           | Bulan-Bulan               | 0      | 0      | 2      | 1      | 0      | 0      | 0      | 2      | 2      | 2      | 0      | 0      | 9       |
| 36                        | Aya/Kayu/Tongkol          | 324    | 779    | 622    | 1,084  | 731    | 936    | 1,107  | 1,484  | 901    | 1,029  | 608    | 354    | 9,959   |
|                           | Layaran/Marsuji           | 3      | 25     | 6      | 27     | 11     | 2      | 33     | 11     | 5      | 4      | 5      | 1      | 133     |
| 37                        | Kembong/Temenong/Pelaling | 571    | 889    | 1,353  | 1,162  | 1,232  | 976    | 1,090  | 964    | 661    | 895    | 563    | 521    | 10,877  |
|                           | Tenggiri                  | 418    | 358    | 212    | 400    | 324    | 207    | 263    | 537    | 307    | 329    | 97     | 166    | 3,618   |
|                           | Timah/Layor/Selayor       | 54     | 30     | 65     | 53     | 42     | 66     | 45     | 31     | 37     | 59     | 68     | 40     | 590     |
| 38                        | Pari                      | 167    | 141    | 196    | 212    | 181    | 211    | 173    | 177    | 181    | 211    | 256    | 162    | 2,268   |
|                           | Yu                        | 65     | 50     | 95     | 127    | 84     | 78     | 83     | 95     | 90     | 80     | 63     | 36     | 946     |
| 39                        | Ikan Baja                 | 3,926  | 2,628  | 4,924  | 5,419  | 5,506  | 7,702  | 7,975  | 8,165  | 9,159  | 7,892  | 8,643  | 6,135  | 78,074  |
|                           | Ikan Campur               | 768    | 747    | 852    | 991    | 1,155  | 1,510  | 1,274  | 1,315  | 1,595  | 1,976  | 1,089  | 791    | 14,063  |
|                           | Jebong                    | 25     | 14     | 25     | 42     | 30     | 38     | 27     | 28     | 46     | 62     | 86     | 43     | 466     |
| 42                        | Ketam                     | 108    | 47     | 57     | 50     | 37     | 65     | 244    | 166    | 240    | 80     | 63     | 46     | 1,203   |
| 45                        | Udang Karang/Lobok        | 37     | 27     | 23     | 33     | 26     | 29     | 35     | 27     | 34     | 43     | 34     | 29     | 377     |
|                           | Udang Putih               | 119    | 105    | 34     | 11     | 17     | 12     | 14     | 20     | 11     | 17     | 54     | 40     | 454     |
|                           | Udang Minyak              | 139    | 158    | 194    | 11     | 6      | 3      | 5      | 16     | 29     | 64     | 104    | 57     | 786     |
|                           | Udang Merah Ros           | 12     | 15     | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 2      | 21     | 0      | 51      |
|                           | Udang Kulit Keras         | 203    | 199    | 236    | 163    | 29     | 37     | 71     | 67     | 31     | 99     | 69     | 306    | 1,510   |
|                           | Udang Harimau             | 38     | 29     | 17     | 14     | 9      | 13     | 10     | 17     | 27     | 17     | 24     | 36     | 251     |
|                           | Lain-Lain Jenis Udang     | 382    | 302    | 259    | 180    | 102    | 148    | 473    | 503    | 460    | 317    | 397    | 349    | 3,872   |
|                           | Udang Bering              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       |
| 56                        | Siput/Kepah/Kupang/Tiram  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       |
| 57                        | Sotong Kereta             | 1      | 1      | 0      | 0      | 14     | 1      | 2      | 0      | 1      | 2      | 1      | 1      | 24      |
|                           | Sotong Katak              | 228    | 248    | 301    | 336    | 293    | 344    | 885    | 575    | 459    | 419    | 337    | 152    | 4,577   |
|                           | Sotong Biasa              | 377    | 589    | 1,098  | 2,022  | 2,051  | 2,304  | 1,273  | 970    | 896    | 1,138  | 369    | 273    | 13,360  |
| 76                        | Ubur-Ubur                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       |
| Jumlah Tan M/Total Tonnes |                           | 12,893 | 13,524 | 20,814 | 24,447 | 21,281 | 25,434 | 26,206 | 25,834 | 26,916 | 26,577 | 19,885 | 13,739 | 257,550 |

SARAWAK  
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1989  
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1989  
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5.3

| ISSCAAP<br>GROUP<br>NO. | Jenis Ikan<br>Species       | JANUARI | FEBRUARI | MAC   | APRIL | MEI | JUN  | JULAI | OGOS   | SEPTEMBER | OKTOBER | NOVEMBER | DISEMBER | Jumlah<br>(Tan M)<br><br>Total |
|-------------------------|-----------------------------|---------|----------|-------|-------|-----|------|-------|--------|-----------|---------|----------|----------|--------------------------------|
|                         | Nama Tempatan<br>Local Name | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY  | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER |                                |
| 24                      | Kebasi/Selangat             | 18      | 25       | 21    | 17    | 15  | 12   | 6     | 5      | 10        | 1       | 11       | 8        | 149                            |
|                         | Puput/B. Mata/Tirok         | 25      | 24       | 124   | 121   | 192 | 276  | 182   | 172    | 220       | 87      | 67       | 42       | 1,532                          |
|                         | Terubok                     | 14      | 10       | 101   | 94    | 82  | 138  | 164   | 92     | 39        | 18      | 10       | 3        | 765                            |
| 25                      | Siakap                      | 4       | 41       | 3     | 7     | 6   | 4    | 4     | 9      | 5         | 1       | 1        | 0        | 85                             |
| 31                      | Lidah                       | 5       | 4        | 3     | 1     | 2   | 3    | 11    | 2      | 2         | 4       | 3        | 1        | 41                             |
|                         | Sebelah                     | 1       | 0        | 0     | 0     | 0   | 5    | 4     | 2      | 0         | 1       | 0        | 0        | 13                             |
| 33                      | Bayan                       | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                              |
|                         | Biji Nangka                 | 5       | 3        | 6     | 1     | 3   | 2    | 2     | 3      | 2         | 0       | 0        | 0        | 27                             |
|                         | Daun Baharu                 | 0       | 2        | 0     | 1     | 1   | 2    | 4     | 12     | 2         | 0       | 0        | 0        | 24                             |
|                         | Delah/Pinang-Pinang         | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 1         | 0       | 0        | 0        | 1                              |
|                         | Duri/Pulutan/Utik           | 163     | 165      | 163   | 246   | 217 | 297  | 278   | 278    | 195       | 148     | 68       | 80       | 2,298                          |
|                         | Dengkis                     | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                              |
|                         | Gelama/Tengkerong/Selampai  | 201     | 155      | 312   | 427   | 332 | 431  | 429   | 449    | 444       | 299     | 162      | 145      | 3,786                          |
|                         | Gerut-Gerut                 | 4       | 1        | 3     | 8     | 7   | 5    | 1     | 17     | 6         | 5       | 1        | 2        | 60                             |
|                         | Jenahak                     | 0       | 5        | 1     | 5     | 1   | 6    | 8     | 11     | 3         | 2       | 1        | 0        | 43                             |
|                         | Kaci                        | 0       | 1        | 2     | 3     | 2   | 2    | 2     | 1      | 0         | 1       | 0        | 0        | 14                             |
|                         | Kerapu                      | 9       | 19       | 3     | 5     | 4   | 21   | 16    | 3      | 4         | 12      | 4        | 4        | 104                            |
|                         | Kerisi                      | 29      | 1        | 17    | 9     | 14  | 12   | 12    | 2      | 3         | 25      | 1        | 2        | 127                            |
|                         | Kerisi Bali                 | 0       | 0        | 0     | 0     | 0   | 6    | 0     | 0      | 0         | 0       | 0        | 0        | 6                              |
|                         | Kikek                       | 1       | 1        | 4     | 3     | 6   | 13   | 13    | 6      | 2         | 0       | 0        | 0        | 49                             |
|                         | Lumi-Lumi                   | 99      | 164      | 330   | 86    | 259 | 182  | 165   | 96     | 36        | 40      | 27       | 33       | 1,517                          |
|                         | Malong                      | 88      | 111      | 148   | 119   | 82  | 74   | 116   | 112    | 64        | 80      | 68       | 95       | 1,157                          |
|                         | Merah                       | 29      | 15       | 18    | 50    | 13  | 58   | 62    | 59     | 47        | 72      | 30       | 27       | 480                            |
|                         | Pelanduk                    | 0       | 1        | 3     | 8     | 5   | 4    | 6     | 6      | 2         | 1       | 6        | 2        | 44                             |
|                         | Semilang                    | 5       | 5        | 3     | 7     | 5   | 8    | 4     | 3      | 3         | 11      | 6        | 3        | 63                             |
|                         | Shrumbu/Lemah               | 1       | 3        | 4     | 357   | 13  | 45   | 41    | 17     | 6         | 1       | 4        | 3        | 495                            |
|                         | Kapas                       | 0       | 0        | 30    | 20    | 45  | 42   | 33    | 12     | 9         | 23      | 9        | 1        | 224                            |
| 34                      | Alu-Alu/Kacang-Kacang       | 1       | 1        | 1     | 1     | 2   | 1    | 2     | 1      | 1         | 2       | 3        | 3        | 19                             |
|                         | Bawal                       | 56      | 68       | 224   | 332   | 306 | 337  | 294   | 272    | 103       | 166     | 123      | 51       | 2,332                          |
|                         | Belanak/Kedera              | 8       | 9        | 7     | 7     | 6   | 1    | 6     | 13     | 6         | 4       | 5        | 5        | 77                             |
|                         | Cemini/Sagai/Cupak          | 0       | 0        | 0     | 0     | 0   | 3    | 3     | 2      | 2         | 1       | 4        | 2        | 17                             |
|                         | Gerongga                    | 0       | 6        | 38    | 86    | 21  | 22   | 43    | 21     | 21        | 5       | 8        | 2        | 273                            |
|                         | Cincaru                     | 44      | 79       | 63    | 81    | 105 | 78   | 97    | 99     | 91        | 145     | 89       | 112      | 1,083                          |
|                         | Demudok/Rambai              | 5       | 5        | 11    | 8     | 12  | 13   | 9     | 7      | 13        | 7       | 2        | 1        | 93                             |
|                         | Kurau/Senangin/Senohong     | 25      | 13       | 56    | 75    | 52  | 70   | 66    | 61     | 58        | 49      | 20       | 12       | 557                            |
|                         | Pelata/Selar                | 12      | 12       | 32    | 31    | 42  | 279  | 34    | 34     | 59        | 24      | 14       | 4        | 577                            |
|                         |                             |         |          |       |       |     |      |       |        |           |         |          |          |                                |

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

|                           |                           |       |       |       |       |       |        |       |       |       |       |       |       |        |
|---------------------------|---------------------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|--------|
| 35                        | Selar Kuning/Lolong       | 0     | 1     | 1     | 1     | 2     | 3      | 8     | 11    | 10    | 104   | 82    | 6     | 229    |
|                           | Selayang/Curut            | 0     | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0      |
|                           | Talang                    | 13    | 28    | 23    | 72    | 41    | 30     | 59    | 40    | 26    | 17    | 14    | 13    | 376    |
|                           | Todak/Benang              | 0     | 1     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 1      |
|                           | Tamban                    | 16    | 46    | 62    | 165   | 216   | 577    | 119   | 313   | 131   | 25    | 69    | 52    | 1,791  |
|                           | Bila/Bunga Air            | 7     | 31    | 53    | 54    | 85    | 101    | 17    | 44    | 93    | 57    | 47    | 39    | 628    |
|                           | Parang-Parang             | 15    | 9     | 52    | 58    | 33    | 60     | 89    | 33    | 27    | 30    | 31    | 3     | 440    |
|                           | Bulan                     | 0     | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0      |
|                           | Aya/Kayu/Tongkol          | 88    | 88    | 67    | 46    | 71    | 95     | 97    | 135   | 96    | 363   | 261   | 105   | 1,512  |
|                           | Tenggiri                  | 35    | 42    | 200   | 301   | 202   | 393    | 512   | 416   | 155   | 135   | 98    | 32    | 2,511  |
|                           | Kambong/Temenong/Pelaling | 87    | 156   | 116   | 120   | 87    | 236    | 76    | 124   | 42    | 127   | 135   | 75    | 1,381  |
|                           | Timah/Layor/Selayor       | 6     | 4     | 8     | 6     | 34    | 10     | 61    | 51    | 22    | 51    | 46    | 7     | 306    |
|                           | Yu                        | 53    | 71    | 177   | 132   | 150   | 155    | 241   | 162   | 99    | 61    | 63    | 42    | 1,406  |
|                           | Parl                      | 159   | 68    | 158   | 230   | 171   | 245    | 188   | 231   | 162   | 189   | 137   | 124   | 2,062  |
| 39                        | Ikan Baja                 | 35    | 350   | 362   | 295   | 1,254 | 3,227  | 131   | 485   | 844   | 913   | 798   | 183   | 8,877  |
| 42                        | Ikan Campur               | 338   | 224   | 551   | 768   | 770   | 1,701  | 792   | 635   | 869   | 678   | 572   | 210   | 8,108  |
| 45                        | Ketam                     | 23    | 17    | 18    | 24    | 32    | 40     | 17    | 17    | 16    | 34    | 12    | 11    | 261    |
| 56                        | Udang Karang/Lobok        | 3     | 0     | 0     | 0     | 0     | 1      | 3     | 0     | 0     | 1     | 0     | 1     | 9      |
|                           | Udang Harimau             | 8     | 0     | 0     | 0     | 0     | 0      | 3     | 0     | 0     | 4     | 0     | 0     | 15     |
|                           | Udang Putih               | 304   | 273   | 265   | 392   | 182   | 519    | 129   | 195   | 169   | 180   | 161   | 233   | 3,002  |
|                           | Udang Sua Lor             | 134   | 53    | 90    | 25    | 5     | 35     | 5     | 13    | 21    | 26    | 49    | 84    | 540    |
|                           | Udang Merah Ros           | 0     | 3     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 3      |
|                           | Udang Kulit Keras         | 152   | 145   | 161   | 125   | 86    | 398    | 73    | 208   | 112   | 118   | 81    | 190   | 1,849  |
|                           | Udang Kuning              | 0     | 6     | 4     | 5     | 4     | 33     | 3     | 8     | 13    | 16    | 9     | 22    | 123    |
|                           | Udang Cendana/Rotan       | 0     | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0      |
|                           | Udang Merah/Payak         | 1,255 | 3,044 | 2,465 | 906   | 465   | 1,093  | 506   | 639   | 560   | 368   | 339   | 397   | 12,037 |
|                           | Udang Pasir               | 0     | 0     | 0     | 0     | 26    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 26     |
|                           | Udang Minyak              | 106   | 55    | 271   | 49    | 42    | 78     | 45    | 66    | 72    | 18    | 22    | 44    | 868    |
|                           | Udang Baring              | 1     | 556   | 17    | 11    | 13    | 4      | 14    | 9     | 19    | 29    | 4     | 0     | 677    |
|                           | Udang Galah               | 0     | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0      |
|                           | Siput/Kepah/Kupang/Tiram  | 0     | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 1     | 1     | 2      |
| 57                        | Sotong Biasa              | 31    | 23    | 275   | 299   | 218   | 101    | 83    | 56    | 104   | 105   | 33    | 34    | 1,362  |
| 76                        | Sotong Katak              | 3     | 3     | 15    | 12    | 23    | 103    | 15    | 16    | 8     | 6     | 11    | 4     | 219    |
|                           | Sotong Kereta             | 0     | 0     | 0     | 0     | 0     | 0      | 0     | 1     | 0     | 0     | 0     | 0     | 1      |
|                           | Ubur-Ubur                 | 4,102 | 3,177 | 2,137 | 126   | 10    | 8      | 82    | 187   | 211   | 102   | 628   | 422   | 11,192 |
|                           | Jamah                     | 18    | 24    | 83    | 46    | 71    | 301    | 43    | 147   | 37    | 139   | 71    | 33    | 1,013  |
|                           | Perencong                 | 7     | 2     | 11    | 24    | 14    | 16     | 27    | 17    | 4     | 17    | 2     | 6     | 147    |
|                           | Panjang                   | 8     | 0     | 11    | 10    | 7     | 20     | 6     | 885   | 9     | 17    | 25    | 7     | 1,005  |
|                           | Pelayak                   | 2     | 20    | 19    | 44    | 16    | 9      | 11    | 27    | 37    | 16    | 18    | 1     | 220    |
|                           | Impirang                  | 10    | 11    | 50    | 119   | 103   | 65     | 98    | 76    | 66    | 37    | 22    | 12    | 669    |
|                           | Bulu Ayam                 | 3     | 21    | 71    | 30    | 41    | 22     | 65    | 51    | 46    | 40    | 22    | 9     | 421    |
|                           | Kilat                     | 16    | 15    | 76    | 87    | 84    | 131    | 58    | 31    | 33    | 30    | 19    | 10    | 590    |
|                           | Bulu                      | 13    | 5     | 11    | 10    | 6     | 9      | 7     | 11    | 5     | 12    | 7     | 3     | 99     |
|                           | Empirit                   | 1     | 4     | 43    | 90    | 19    | 22     | 32    | 16    | 10    | 5     | 3     | 1     | 246    |
| Jumlah Tan M/Total Tonnes |                           | 7,904 | 9,525 | 9,654 | 6,898 | 6,435 | 12,293 | 5,832 | 7,235 | 5,587 | 5,305 | 4,629 | 3,059 | 84,356 |

WILAYAH PERSEKUTUAN LABUAN/LABUAN FEDERAL TERRITORY  
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN JENIS IKAN, 1989  
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1989  
(Kuantiti Dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5.4...

| ISSCAAP<br>GROUP<br>NO. | Jenis Ikan<br>Species       | Januari | Februari | Mac   | April | Mei | Jun  | Julai | Ogos   | September | Oktober | November | Disember | Jumlah<br>(Tan)<br>Total<br>(Tonnes) |
|-------------------------|-----------------------------|---------|----------|-------|-------|-----|------|-------|--------|-----------|---------|----------|----------|--------------------------------------|
|                         | Nama Tempatan<br>Local Name | January | February | March | April | May | June | July  | August | September | October | November | December |                                      |
|                         | Species                     |         |          |       |       |     |      |       |        |           |         |          |          |                                      |
| 24                      | Kebasi/Selangat             | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Puput/B. Mata/Tirok         | 21      | 1        | 1     | 0     | 3   | 5    | 0     | 0      | 0         | 0       | 0        | 0        | 31                                   |
|                         | Terubok                     | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
| 25                      | Siakap                      | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 4      | 2         | 0       | 0        | 0        | 6                                    |
| 31                      | Lidah                       | 1       | 0        | 0     | 0     | 0   | 1    | 0     | 2      | 0         | 1       | 1        | 1        | 7                                    |
|                         | Sebelah                     | 3       | 1        | 4     | 2     | 0   | 2    | 5     | 5      | 2         | 2       | 2        | 1        | 29                                   |
| 33                      | Bayan                       | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Biji Nangka                 | 15      | 17       | 42    | 25    | 7   | 21   | 21    | 26     | 33        | 33      | 43       | 39       | 322                                  |
|                         | Daun Baharu                 | 0       | 4        | 5     | 0     | 2   | 4    | 1     | 0      | 0         | 0       | 3        | 3        | 22                                   |
|                         | Delah/Pinang-Pinang         | 22      | 1        | 0     | 12    | 19  | 8    | 19    | 13     | 10        | 0       | 3        | 2        | 109                                  |
|                         | Duri/Pulutan/Utik           | 13      | 2        | 7     | 0     | 2   | 7    | 11    | 7      | 9         | 9       | 8        | 12       | 87                                   |
|                         | Dengkia/Debam               | 8       | 24       | 10    | 5     | 4   | 11   | 17    | 28     | 16        | 10      | 11       | 8        | 152                                  |
|                         | Gelama/Tengkerong/Selampai  | 14      | 9        | 10    | 4     | 2   | 7    | 12    | 11     | 9         | 6       | 11       | 19       | 114                                  |
|                         | Gerut-Gerut                 | 11      | 4        | 3     | 0     | 2   | 0    | 0     | 0      | 0         | 4       | 9        | 2        | 35                                   |
|                         | Jenahak                     | 0       | 0        | 0     | 1     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 1                                    |
|                         | Kaci                        | 2       | 0        | 1     | 2     | 2   | 1    | 0     | 2      | 7         | 0       | 0        | 2        | 19                                   |
|                         | Kerapu                      | 38      | 11       | 13    | 24    | 6   | 81   | 91    | 36     | 39        | 20      | 10       | 16       | 385                                  |
|                         | Kerisi                      | 9       | 6        | 9     | 7     | 1   | 38   | 15    | 30     | 8         | 11      | 11       | 10       | 155                                  |
|                         | Kerisi Bali                 | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Kikek                       | 9       | 4        | 2     | 5     | 6   | 8    | 3     | 7      | 9         | 4       | 8        | 15       | 80                                   |
|                         | Malong                      | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Merah                       | 29      | 5        | 9     | 33    | 33  | 84   | 14    | 126    | 17        | 16      | 13       | 17       | 396                                  |
|                         | Mengkerong/Conor/Ubi-Ubi    | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Remong/Kunyit-Kunyit/Tanda  | 1       | 0        | 5     | 4     | 2   | 0    | 1     | 0      | 0         | 1       | 0        | 0        | 14                                   |
|                         | Semilang                    | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Shrumbu/Lemah               | 1       | 1        | 1     | 0     | 2   | 0    | 0     | 0      | 0         | 0       | 0        | 1        | 6                                    |
|                         | Puntong Damar/Bulus         | 0       | 0        | 0     | 0     | 0   | 0    | 0     | 0      | 0         | 0       | 0        | 0        | 0                                    |
|                         | Pasir-Pasir/Timun           | 7       | 2        | 4     | 20    | 2   | 12   | 0     | 3      | 0         | 1       | 0        | 3        | 54                                   |
| 34                      | Alu-Alu/Kacang-Kacang       | 1       | 5        | 6     | 15    | 9   | 2    | 4     | 1      | 0         | 1       | 0        | 13       | 57                                   |
|                         | Aruan Tasik                 | 4       | 0        | 0     | 0     | 0   | 0    | 2     | 1      | 0         | 0       | 0        | 0        | 7                                    |
|                         | Bawal                       | 34      | 0        | 0     | 1     | 0   | 9    | 6     | 16     | 0         | 1       | 0        | 84       | 151                                  |
|                         | Belahak/Kedera              | 0       | 0        | 0     | 1     | 0   | 0    | 0     | 0      | 1         | 0       | 0        | 0        | 2                                    |
|                         | Cermin/Sagai/Cupak          | 8       | 14       | 8     | 19    | 10  | 14   | 6     | 8      | 4         | 5       | 3        | 12       | 111                                  |

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

|    |                           |       |     |     |     |     |     |     |     |     |     |     |     |       |
|----|---------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
|    | Cincaru                   | 28    | 6   | 3   | 1   | 9   | 19  | 26  | 9   | 9   | 2   | 13  | 18  | 143   |
|    | Demudok/Rambai            | 10    | 1   | 2   | 3   | 0   | 2   | 2   | 5   | 2   | 4   | 7   | 1   | 39    |
|    | Kurau/Senangin/Senohong   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
|    | Pelata/Selar              | 0     | 0   | 0   | 0   | 0   | 0   | 7   | 1   | 0   | 0   | 15  | 10  | 33    |
|    | Selar Kuning/Lolong       | 6     | 62  | 26  | 51  | 52  | 34  | 27  | 52  | 8   | 3   | 19  | 21  | 361   |
|    | Selayang/Curut            | 86    | 57  | 102 | 48  | 25  | 40  | 78  | 0   | 46  | 0   | 31  | 52  | 565   |
|    | Pisang-Pisang             | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
|    | Talang                    | 8     | 1   | 18  | 2   | 6   | 31  | 8   | 7   | 7   | 3   | 3   | 4   | 98    |
| 35 | Blis/Bunga Air            | 0     | 4   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 4     |
|    | Parang-Parang             | 6     | 1   | 6   | 0   | 0   | 1   | 1   | 0   | 0   | 1   | 0   | 1   | 17    |
|    | Tamban                    | 40    | 18  | 24  | 54  | 9   | 62  | 136 | 54  | 68  | 0   | 56  | 27  | 548   |
|    | Bulan-Bulan               | 2     | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 5     |
| 36 | Aya/Kayu/Tongkol          | 103   | 14  | 85  | 27  | 9   | 7   | 8   | 0   | 3   | 2   | 8   | 4   | 270   |
|    | Layaran/Marsuji           | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
| 37 | Kembong/Temenong/Pelaling | 141   | 127 | 93  | 116 | 74  | 25  | 30  | 150 | 39  | 10  | 42  | 27  | 874   |
|    | Tenggiri                  | 153   | 35  | 27  | 25  | 55  | 65  | 214 | 13  | 25  | 15  | 44  | 34  | 705   |
|    | Timah/Layor/Selayor       | 0     | 1   | 1   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 3     |
| 38 | Pari                      | 8     | 7   | 4   | 4   | 1   | 4   | 2   | 1   | 5   | 5   | 14  | 9   | 64    |
|    | Yu                        | 6     | 8   | 2   | 0   | 0   | 2   | 1   | 7   | 3   | 9   | 8   | 11  | 57    |
| 39 | Ikan Baja                 | 0     | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1     |
|    | Ikan Campur               | 54    | 28  | 18  | 26  | 36  | 38  | 42  | 76  | 15  | 13  | 8   | 21  | 375   |
|    | Jebong                    | 1     | 0   | 1   | 0   | 1   | 1   | 1   | 2   | 3   | 1   | 1   | 2   | 14    |
| 42 | Ketam                     | 3     | 1   | 2   | 3   | 3   | 3   | 2   | 2   | 1   | 1   | 3   | 2   | 26    |
| 45 | Udang Karang/Lobok        | 0     | 0   | 0   | 4   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 5     |
|    | Udang Putih               | 8     | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 5   | 14    |
|    | 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         | 19    | 26  | 24  | 31  | 20  | 12  | 30  | 11  | 14  | 11  | 4   | 25  | 227   |
|    | Udang Harimau             | 6     | 1   | 7   | 11  | 3   | 4   | 2   | 0   | 0   | 2   | 1   | 6   | 43    |
|    | Lain-Lain Jenis Udang     | 66    | 50  | 14  | 14  | 12  | 6   | 11  | 8   | 0   | 3   | 9   | 17  | 210   |
|    | Udang Baring              | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
| 56 | Siput/Kepah/Kupang/Tiram  | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
| 57 | Sotong Kereta             | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
|    | Sotong Katak              | 14    | 9   | 4   | 6   | 9   | 0   | 5   | 6   | 8   | 5   | 7   | 6   | 79    |
|    | Sotong Biasa              | 26    | 42  | 24  | 5   | 4   | 5   | 1   | 3   | 3   | 1   | 3   | 3   | 120   |
| 76 | Ubur-Ubur                 | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
|    | Jumlah Tan M/Total Tonnes | 1,045 | 610 | 630 | 611 | 443 | 676 | 863 | 733 | 425 | 216 | 433 | 567 | 7,252 |

SEMANANJUNG MALAYSIA/PENINSULAR MALAYSIA  
 PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1989  
 LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1989  
 (Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6

| ISSCAAP<br>GROUP<br>NO. | Jenis Ikan<br>Species       | Pukat<br>Tunda        | Pukat-Pukat Tarik/Seine Nets |                          |                     | Pukat<br>Hanyut | Pukat<br>Tangguk | Perangkap-perangkap<br>Traps |       | Pancing | Pukat<br>Bakul | Pukat<br>Rentang | Pukat<br>Surung | Memungut<br>Siput | Rampalan | Jumlah<br>(Tan M) |              |
|-------------------------|-----------------------------|-----------------------|------------------------------|--------------------------|---------------------|-----------------|------------------|------------------------------|-------|---------|----------------|------------------|-----------------|-------------------|----------|-------------------|--------------|
|                         | Nama Tempatan<br>Local Name |                       | Pukat<br>Jerut<br>Ikan       | Pukat<br>Jerut<br>Billis | Lain Pukat<br>Tarik |                 |                  | Belat-<br>Belat              | Bubu  |         |                |                  |                 |                   |          |                   |              |
|                         |                             |                       |                              |                          |                     |                 |                  |                              |       |         |                |                  |                 |                   |          |                   | Trawl<br>Net |
| 24                      | Kebasi/Selangat             | 786                   | 374                          | 0                        | 7                   | 1,668           | 0                | 2                            | 0     | 0       | 2              | 0                | 0               | 0                 | 0        | 2,838             |              |
|                         | Puput/B. Mata/Tirok         | 3,634                 | 32                           | 0                        | 0                   | 824             | 0                | 0                            | 0     | 0       | 1              | 0                | 0               | 0                 | 0        | 4,491             |              |
|                         | Terubok                     | 0                     | 0                            | 0                        | 0                   | 49              | 0                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 49                |              |
| 25                      | Slakap                      | 11                    | 0                            | 0                        | 0                   | 4               | 0                | 0                            | 1     | 5       | 0              | 21               | 0               | 0                 | 0        | 42                |              |
| 31                      | Lidah                       | 1,223                 | 0                            | 0                        | 1                   | 110             | 0                | 0                            | 0     | 0       | 12             | 0                | 0               | 0                 | 0        | 1,346             |              |
| 33                      | Sebelah                     | 731                   | 0                            | 0                        | 0                   | 44              | 0                | 0                            | 2     | 0       | 0              | 0                | 0               | 0                 | 0        | 777               |              |
|                         | Bayan                       | 7                     | 0                            | 0                        | 0                   | 0               | 0                | 0                            | 34    | 1       | 0              | 0                | 0               | 0                 | 0        | 42                |              |
|                         | Blj Nangka                  | 4,046                 | 0                            | 0                        | 0                   | 135             | 0                | 0                            | 66    | 21      | 0              | 0                | 0               | 0                 | 0        | 4,268             |              |
|                         | Daun Baharu                 | 167                   | 0                            | 0                        | 0                   | 11              | 0                | 0                            | 3     | 1       | 0              | 0                | 0               | 0                 | 0        | 182               |              |
|                         | Delah/Pinang-Pinang         | 28                    | 2                            | 0                        | 0                   | 0               | 0                | 9                            | 97    | 3       | 0              | 0                | 0               | 0                 | 56       | 195               |              |
|                         | Duri/Pulutan/Utik           | 3,875                 | 51                           | 7                        | 69                  | 1,138           | 0                | 3                            | 18    | 910     | 33             | 82               | 0               | 0                 | 0        | 6,186             |              |
|                         | Dengkil/Debam               | 323                   | 0                            | 0                        | 0                   | 61              | 7                | 4                            | 218   | 9       | 0              | 0                | 0               | 0                 | 0        | 622               |              |
|                         | Gelama/Tengkerong/Selampai  | 7,313                 | 8                            | 47                       | 149                 | 1,927           | 5                | 1                            | 75    | 380     | 38             | 45               | 0               | 0                 | 0        | 9,988             |              |
|                         | Gerut-Gerut                 | 634                   | 0                            | 0                        | 0                   | 76              | 0                | 0                            | 56    | 207     | 0              | 0                | 0               | 0                 | 0        | 973               |              |
|                         | Jenahak                     | 310                   | 0                            | 0                        | 0                   | 15              | 0                | 0                            | 117   | 205     | 0              | 0                | 0               | 0                 | 0        | 647               |              |
|                         | Kad                         | 242                   | 0                            | 0                        | 0                   | 0               | 0                | 0                            | 83    | 21      | 0              | 0                | 0               | 0                 | 0        | 346               |              |
|                         | Kerapu                      | 1,728                 | 0                            | 0                        | 0                   | 59              | 0                | 1                            | 616   | 731     | 0              | 0                | 0               | 0                 | 0        | 3,135             |              |
|                         | Kerisi                      | 17,929                | 0                            | 0                        | 0                   | 804             | 24               | 0                            | 1,299 | 2,294   | 0              | 0                | 0               | 0                 | 0        | 22,350            |              |
|                         | Kerisi Ball                 | 856                   | 0                            | 0                        | 0                   | 1               | 0                | 0                            | 102   | 258     | 0              | 0                | 0               | 0                 | 0        | 1,217             |              |
|                         | Kikek                       | 877                   | 7                            | 1                        | 0                   | 175             | 3                | 0                            | 3     | 9       | 0              | 0                | 0               | 0                 | 0        | 1,075             |              |
|                         | Malong                      | 1,230                 | 0                            | 0                        | 2                   | 165             | 0                | 0                            | 6     | 315     | 0              | 0                | 0               | 0                 | 0        | 1,718             |              |
|                         | Merah                       | 1,741                 | 0                            | 0                        | 0                   | 23              | 0                | 1                            | 1,319 | 1,020   | 0              | 0                | 0               | 0                 | 0        | 4,104             |              |
|                         | Mengkerong/Conor/Ubl-Ubl    | 3,440                 | 0                            | 0                        | 0                   | 36              | 0                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 3,476             |              |
|                         | Remong/Kunyit-Kunyit/Tanda  | 1,344                 | 9                            | 0                        | 0                   | 173             | 1                | 1                            | 198   | 91      | 0              | 0                | 0               | 0                 | 0        | 1,817             |              |
|                         | Semilang                    | 484                   | 0                            | 0                        | 14                  | 52              | 0                | 1                            | 46    | 31      | 0              | 202              | 0               | 0                 | 0        | 830               |              |
|                         | Shrumbu/Lemah               | 0                     | 0                            | 0                        | 0                   | 0               | 0                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 0                 |              |
|                         | Puntong Damar/Bulus         | 944                   | 98                           | 0                        | 1                   | 174             | 0                | 0                            | 0     | 21      | 0              | 0                | 0               | 0                 | 0        | 1,238             |              |
|                         | Pasir-Pasir/Timun-Timun     | 503                   | 0                            | 0                        | 0                   | 2               | 0                | 0                            | 0     | 148     | 2              | 0                | 0               | 0                 | 0        | 655               |              |
|                         | 34                          | Alu-Alu/Kacang-Kacang | 1,691                        | 69                       | 0                   | 1               | 315              | 0                            | 5     | 5       | 102            | 0                | 0               | 0                 | 0        | 0                 | 2,188        |
|                         |                             | Aruan Tasik           | 144                          | 122                      | 0                   | 0               | 28               | 0                            | 0     | 14      | 101            | 0                | 0               | 0                 | 0        | 0                 | 409          |
| Bawal                   |                             | 2,725                 | 471                          | 0                        | 9                   | 1,367           | 129              | 14                           | 0     | 29      | 13             | 0                | 0               | 0                 | 0        | 4,757             |              |
| Belanak/Kedera          |                             | 407                   | 352                          | 0                        | 19                  | 856             | 0                | 3                            | 0     | 0       | 3              | 43               | 0               | 0                 | 0        | 1,683             |              |
| Cemrin/Sagai/Cupak      |                             | 1,575                 | 97                           | 0                        | 0                   | 238             | 2                | 1                            | 87    | 131     | 0              | 0                | 0               | 0                 | 0        | 2,131             |              |

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

|                           |                              |         |         |        |        |        |        |     |       |        |        |     |       |     |        |         |
|---------------------------|------------------------------|---------|---------|--------|--------|--------|--------|-----|-------|--------|--------|-----|-------|-----|--------|---------|
| 29                        | Cincaru                      | 2,243   | 2,729   | 0      | 0      | 744    | 17     | 0   | 0     | 1,080  | 3      | 1   | 0     | 0   | 4      | 6,821   |
|                           | Demudok/Rambai               | 1,775   | 320     | 0      | 0      | 396    | 2      | 0   | 123   | 406    | 0      | 0   | 0     | 0   | 7      | 3,029   |
|                           | Kurau/Senangin/Senohong      | 167     | 0       | 16     | 6      | 613    | 0      | 0   | 1     | 31     | 0      | 0   | 0     | 0   | 0      | 834     |
|                           | Peiata/Selar                 | 3,287   | 6,957   | 33     | 1      | 1,007  | 236    | 8   | 10    | 2,544  | 15     | 0   | 0     | 0   | 0      | 14,098  |
|                           | Selar Kuning/Lolong          | 7,053   | 8,018   | 0      | 0      | 142    | 6,215  | 58  | 2     | 28     | 0      | 0   | 0     | 0   | 0      | 21,516  |
|                           | Selayang/Curut               | 1,043   | 37,511  | 0      | 0      | 1      | 1,802  | 0   | 0     | 206    | 0      | 0   | 0     | 0   | 0      | 40,563  |
|                           | Pisang-Pisang                | 69      | 150     | 0      | 0      | 0      | 0      | 0   | 12    | 35     | 0      | 0   | 0     | 0   | 0      | 266     |
|                           | Talang                       | 232     | 37      | 0      | 0      | 297    | 0      | 1   | 0     | 122    | 0      | 0   | 0     | 0   | 0      | 689     |
|                           | 35 Blls/Bunga Air            | 506     | 97      | 28,702 | 0      | 0      | 10     | 88  | 0     | 0      | 0      | 0   | 0     | 0   | 0      | 29,403  |
|                           | Parang-Parang                | 1,883   | 3       | 0      | 1      | 2,153  | 1      | 4   | 0     | 105    | 0      | 0   | 0     | 0   | 0      | 4,150   |
|                           | Tamban                       | 1,109   | 10,846  | 1,108  | 73     | 437    | 402    | 52  | 0     | 36     | 0      | 0   | 0     | 0   | 0      | 14,063  |
|                           | Bulan-Bulan                  | 7       | 0       | 0      | 0      | 3      | 0      | 0   | 2     | 1      | 0      | 0   | 0     | 0   | 0      | 13      |
|                           | 36 Aya/Kayu/Tongkol          | 10      | 6,121   | 0      | 0      | 2,129  | 13     | 0   | 0     | 5,352  | 0      | 0   | 0     | 0   | 0      | 13,625  |
|                           | Layaran/Mersuaji             | 13      | 0       | 0      | 0      | 2      | 0      | 0   | 0     | 118    | 0      | 0   | 0     | 0   | 0      | 133     |
|                           | 37 Kembong/Temenong/Pelaling | 16,448  | 24,446  | 90     | 35     | 12,481 | 136    | 59  | 0     | 168    | 0      | 0   | 0     | 0   | 0      | 53,863  |
|                           | Tenggiri                     | 1,690   | 421     | 0      | 0      | 3,104  | 3      | 0   | 9     | 2,204  | 0      | 0   | 0     | 0   | 0      | 7,431   |
|                           | Timah/Layar/Selayor          | 2,400   | 11      | 0      | 0      | 241    | 8      | 4   | 0     | 5      | 4      | 4   | 0     | 0   | 0      | 2,677   |
|                           | 38 Pari                      | 5,312   | 0       | 0      | 13     | 284    | 0      | 1   | 44    | 886    | 119    | 0   | 0     | 0   | 0      | 6,659   |
|                           | Yu                           | 1,470   | 2       | 0      | 0      | 312    | 0      | 0   | 4     | 172    | 1      | 0   | 0     | 0   | 0      | 1,961   |
|                           | 39 Ikan Baja                 | 232,798 | 5,565   | 0      | 7,755  | 4,506  | 0      | 48  | 2     | 0      | 6,054  | 225 | 486   | 0   | 0      | 257,439 |
|                           | Ikan Campur                  | 14,537  | 5,380   | 19     | 32     | 3,346  | 101    | 50  | 482   | 618    | 89     | 37  | 0     | 0   | 0      | 24,691  |
|                           | Jebong                       | 1,012   | 0       | 0      | 2      | 1      | 0      | 0   | 243   | 1      | 0      | 0   | 0     | 0   | 0      | 1,259   |
|                           | 42 Ketam                     | 3,331   | 0       | 0      | 23     | 1,060  | 0      | 2   | 106   | 0      | 10     | 81  | 21    | 0   | 221    | 4,856   |
|                           | 45 Udang Karang/Lobok        | 399     | 0       | 0      | 0      | 6      | 0      | 0   | 3     | 0      | 0      | 0   | 0     | 0   | 0      | 408     |
|                           | Udang Putih                  | 1,371   | 0       | 0      | 41     | 2,521  | 0      | 1   | 0     | 0      | 30     | 5   | 7     | 0   | 0      | 3,976   |
|                           | Udang Minyak                 | 12,686  | 0       | 0      | 5,646  | 321    | 0      | 0   | 0     | 0      | 595    | 5   | 20    | 0   | 0      | 19,273  |
|                           | Udang Merah Ros              | 344     | 0       | 0      | 0      | 1      | 0      | 0   | 0     | 0      | 7      | 0   | 0     | 0   | 0      | 352     |
|                           | Udang Kulit Keras            | 3,238   | 0       | 0      | 270    | 144    | 0      | 4   | 0     | 0      | 307    | 0   | 34    | 0   | 0      | 3,997   |
|                           | Udang Harimau                | 420     | 0       | 0      | 12     | 43     | 0      | 0   | 0     | 0      | 7      | 0   | 13    | 0   | 0      | 495     |
|                           | Lain-Lain Jenis Udang        | 21,456  | 0       | 0      | 4,968  | 3,560  | 0      | 425 | 0     | 0      | 20,305 | 132 | 1,443 | 0   | 1      | 52,290  |
|                           | Udang Baring                 | 0       | 0       | 0      | 0      | 0      | 0      | 0   | 0     | 0      | 0      | 0   | 0     | 0   | 0      | 0       |
|                           | 56 Siput/Kepah/Kupang/Tiram  | 0       | 0       | 0      | 0      | 0      | 0      | 0   | 0     | 0      | 0      | 0   | 0     | 782 | 0      | 782     |
|                           | 57 Sotong Kereta             | 377     | 0       | 0      | 0      | 16     | 10     | 0   | 0     | 0      | 7      | 0   | 0     | 0   | 0      | 410     |
|                           | Sotong Katak                 | 8,283   | 0       | 0      | 10     | 2      | 58     | 2   | 370   | 5      | 15     | 1   | 0     | 0   | 0      | 8,746   |
|                           | Sotong Biasa                 | 25,392  | 306     | 0      | 0      | 0      | 2,402  | 38  | 176   | 1,124  | 55     | 5   | 0     | 0   | 0      | 29,498  |
|                           | 76 Ubur-Ubur                 | 2,979   | 0       | 0      | 0      | 120    | 0      | 0   | 0     | 0      | 4,347  | 0   | 0     | 0   | 23,398 | 30,844  |
| Jumlah Tan M/Total Tonnes |                              | 436,287 | 110,612 | 30,023 | 19,160 | 50,523 | 11,587 | 891 | 6,202 | 22,145 | 32,072 | 889 | 2,024 | 782 | 23,687 | 746,884 |

**JADUAL (TABLE) 4.6.1**

| ISSCAAP<br>GROUP<br>NO. | Species                     | Pukat<br>Tunda | Pukat-Pukat Tarik/Seine Nets                  |                                                    |                                        | Pukat<br>Hanyut | Pukat<br>Tangguk | Perangkap-perangkap<br>Traps  |                  | Pancing | Pukat<br>Bakul | Pukat<br>Rentang | Pukat<br>Surung | Memungut<br>Siput | Rampaian | Jumlah                |             |                 |                   |                         |                    |                    |              |       |
|-------------------------|-----------------------------|----------------|-----------------------------------------------|----------------------------------------------------|----------------------------------------|-----------------|------------------|-------------------------------|------------------|---------|----------------|------------------|-----------------|-------------------|----------|-----------------------|-------------|-----------------|-------------------|-------------------------|--------------------|--------------------|--------------|-------|
|                         | Species                     |                | Pukat<br>Jerut<br>Ikan<br>Purse<br>Seine Fish | Pukat<br>Jerut<br>Billis<br>Purse Seine<br>Anchovy | Lain Pukat<br>Tarik<br>Other<br>Seines |                 |                  | Belat-<br>Belat<br>Stationary | Bubu<br>Portable |         |                |                  |                 |                   |          | Hooks<br>and<br>Lines | Bag<br>Nets | Barrier<br>Nets | Push/Scor<br>Nets | Shellfish<br>Collection | Miscel-<br>laneous | Total              |              |       |
|                         | Nama Tempatan<br>Local Name |                |                                               |                                                    |                                        |                 |                  |                               |                  |         |                |                  |                 |                   |          |                       |             |                 |                   |                         |                    | Drift/Gill<br>Nets | Lift<br>Nets | Total |
|                         |                             |                |                                               |                                                    |                                        |                 |                  |                               |                  |         |                |                  |                 |                   |          |                       |             |                 |                   |                         |                    |                    |              |       |
| 24                      | Kebasi/Selangat             | 711            | 374                                           | 0                                                  | 0                                      | 1,277           | 0                | 2                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 2,364                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Puput/B. Mata/Tirok         | 3,577          | 32                                            | 0                                                  | 0                                      | 822             | 0                | 0                             | 0                | 0       | 1              | 0                | 0               | 0                 | 0        | 4,432                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Terubok                     | 0              | 0                                             | 0                                                  | 0                                      | 49              | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 49                    |             |                 |                   |                         |                    |                    |              |       |
| 25                      | Slakap                      | 4              | 0                                             | 0                                                  | 0                                      | 4               | 0                | 0                             | 0                | 5       | 0              | 21               | 0               | 0                 | 0        | 34                    |             |                 |                   |                         |                    |                    |              |       |
| 31                      | Lidah                       | 1,060          | 0                                             | 0                                                  | 1                                      | 108             | 0                | 0                             | 0                | 0       | 12             | 0                | 0               | 0                 | 0        | 1,181                 |             |                 |                   |                         |                    |                    |              |       |
| 33                      | Sebelah                     | 267            | 0                                             | 0                                                  | 0                                      | 11              | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 278                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Bayan                       | 0              | 0                                             | 0                                                  | 0                                      | 0               | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 0                     |             |                 |                   |                         |                    |                    |              |       |
|                         | Biji Nangka                 | 2,570          | 0                                             | 0                                                  | 0                                      | 0               | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 2,570                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Daun Baharu                 | 90             | 0                                             | 0                                                  | 0                                      | 4               | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 94                    |             |                 |                   |                         |                    |                    |              |       |
|                         | Delah/Pinang-Pinang         | 8              | 0                                             | 0                                                  | 0                                      | 0               | 0                | 0                             | 0                | 3       | 0              | 0                | 0               | 0                 | 0        | 11                    |             |                 |                   |                         |                    |                    |              |       |
|                         | Duri/Pulutan/Utik           | 2,200          | 0                                             | 0                                                  | 69                                     | 955             | 0                | 2                             | 0                | 409     | 32             | 82               | 0               | 0                 | 0        | 3,749                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Dengkia/Debam               | 71             | 0                                             | 0                                                  | 0                                      | 2               | 0                | 0                             | 33               | 1       | 0              | 0                | 0               | 0                 | 0        | 107                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Gelama/Tengkerong/Selampai  | 5,534          | 0                                             | 0                                                  | 116                                    | 1,329           | 0                | 1                             | 0                | 25      | 34             | 45               | 0               | 0                 | 0        | 7,084                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Gerut-Gerut                 | 527            | 0                                             | 0                                                  | 0                                      | 23              | 0                | 0                             | 15               | 169     | 0              | 0                | 0               | 0                 | 0        | 734                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Jenahak                     | 308            | 0                                             | 0                                                  | 0                                      | 15              | 0                | 0                             | 116              | 204     | 0              | 0                | 0               | 0                 | 0        | 643                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Kaci                        | 47             | 0                                             | 0                                                  | 0                                      | 0               | 0                | 0                             | 9                | 4       | 0              | 0                | 0               | 0                 | 0        | 60                    |             |                 |                   |                         |                    |                    |              |       |
|                         | Kerapu                      | 1,203          | 0                                             | 0                                                  | 0                                      | 44              | 0                | 0                             | 334              | 248     | 0              | 0                | 0               | 0                 | 0        | 1,829                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Kerisi                      | 8,264          | 0                                             | 0                                                  | 0                                      | 259             | 0                | 0                             | 1                | 3       | 0              | 0                | 0               | 0                 | 0        | 8,527                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Kerisi Bali                 | 447            | 0                                             | 0                                                  | 0                                      | 1               | 0                | 0                             | 52               | 157     | 0              | 0                | 0               | 0                 | 0        | 657                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Kikak                       | 344            | 2                                             | 0                                                  | 0                                      | 0               | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 346                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Malong                      | 1,131          | 0                                             | 0                                                  | 2                                      | 165             | 0                | 0                             | 0                | 314     | 0              | 0                | 0               | 0                 | 0        | 1,612                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Merah                       | 977            | 0                                             | 0                                                  | 0                                      | 5               | 0                | 0                             | 292              | 163     | 0              | 0                | 0               | 0                 | 0        | 1,437                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Mengkerong/Conor/Ubl-Ubl    | 2,812          | 0                                             | 0                                                  | 0                                      | 36              | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 2,848                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Remong/Kunyit-Kunyit/Tanda  | 210            | 0                                             | 0                                                  | 0                                      | 0               | 0                | 0                             | 0                | 38      | 0              | 0                | 0               | 0                 | 0        | 248                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Semilang                    | 481            | 0                                             | 0                                                  | 14                                     | 52              | 0                | 0                             | 46               | 31      | 0              | 202              | 0               | 0                 | 0        | 826                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Shrumbu/Lemah               | 0              | 0                                             | 0                                                  | 0                                      | 0               | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 0                     |             |                 |                   |                         |                    |                    |              |       |
|                         | Puntong Damar/Bulus         | 277            | 0                                             | 0                                                  | 1                                      | 50              | 0                | 0                             | 0                | 21      | 0              | 0                | 0               | 0                 | 0        | 349                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Pasir-Pasir/Timun-Timun     | 19             | 0                                             | 0                                                  | 0                                      | 0               | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 19                    |             |                 |                   |                         |                    |                    |              |       |
| 34                      | Alu-Alu/Kacang-Kacang       | 1,173          | 48                                            | 0                                                  | 1                                      | 164             | 0                | 1                             | 0                | 73      | 0              | 0                | 0               | 0                 | 0        | 1,460                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Aruan Tasik                 | 91             | 0                                             | 0                                                  | 0                                      | 4               | 0                | 0                             | 1                | 16      | 0              | 0                | 0               | 0                 | 0        | 112                   |             |                 |                   |                         |                    |                    |              |       |
|                         | Bawal                       | 2,579          | 163                                           | 0                                                  | 6                                      | 1,046           | 51               | 14                            | 0                | 0       | 9              | 0                | 0               | 0                 | 0        | 3,868                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Belanak/Kedera              | 406            | 349                                           | 0                                                  | 20                                     | 853             | 0                | 1                             | 0                | 0       | 3              | 43               | 0               | 0                 | 0        | 1,675                 |             |                 |                   |                         |                    |                    |              |       |
|                         | Cermin/Sagai/Cupak          | 459            | 0                                             | 0                                                  | 0                                      | 61              | 0                | 0                             | 0                | 0       | 0              | 0                | 0               | 0                 | 0        | 520                   |             |                 |                   |                         |                    |                    |              |       |

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

|                           |                              |         |        |        |        |        |    |     |       |       |        |     |       |     |        |         |
|---------------------------|------------------------------|---------|--------|--------|--------|--------|----|-----|-------|-------|--------|-----|-------|-----|--------|---------|
| 31                        | Cincaru                      | 1,481   | 1,867  | 0      | 0      | 491    | 0  | 0   | 0     | 2     | 0      | 0   | 0     | 0   | 0      | 3,841   |
|                           | Demudok/Rambai               | 1,667   | 8      | 0      | 0      | 65     | 0  | 0   | 9     | 42    | 0      | 0   | 0     | 0   | 0      | 1,791   |
|                           | Kurau/Senangin/Senohong      | 166     | 0      | 0      | 2      | 604    | 0  | 0   | 1     | 31    | 0      | 0   | 0     | 0   | 0      | 804     |
|                           | Pelata/Selar                 | 2,288   | 2,175  | 0      | 0      | 149    | 0  | 0   | 0     | 3     | 0      | 0   | 0     | 0   | 0      | 4,615   |
|                           | Selar Kuning/Lolong          | 1,931   | 1,035  | 0      | 0      | 0      | 0  | 0   | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 2,966   |
|                           | Selayang/Curut               | 712     | 12,899 | 0      | 0      | 0      | 0  | 0   | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 13,611  |
|                           | Pisang-Pisang                | 57      | 125    | 0      | 0      | 0      | 0  | 0   | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 182     |
|                           | Talang                       | 217     | 15     | 0      | 0      | 268    | 0  | 0   | 0     | 46    | 0      | 0   | 0     | 0   | 0      | 546     |
|                           | 35 Bilis/Bunga Air           | 437     | 97     | 25,690 | 0      | 0      | 0  | 0   | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 26,224  |
|                           | Parang-Parang                | 1,617   | 3      | 0      | 0      | 1,177  | 0  | 4   | 0     | 1     | 0      | 0   | 0     | 0   | 0      | 2,802   |
|                           | Tamban                       | 1,081   | 2,416  | 0      | 73     | 433    | 0  | 17  | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 4,020   |
|                           | Bulan-Bulan                  | 4       | 0      | 0      | 0      | 0      | 0  | 0   | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 4       |
|                           | 36 Aya/Kayu/Tongkol          | 0       | 3,384  | 0      | 0      | 281    | 0  | 0   | 0     | 1     | 0      | 0   | 0     | 0   | 0      | 3,666   |
|                           | Layaran/Mersuji              | 0       | 0      | 0      | 0      | 0      | 0  | 0   | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 0       |
|                           | 37 Kembong/Temenong/Pelaling | 15,879  | 14,775 | 0      | 28     | 12,248 | 0  | 56  | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 42,986  |
|                           | Tenggiri                     | 1,358   | 87     | 0      | 0      | 2,321  | 1  | 0   | 0     | 46    | 0      | 0   | 0     | 0   | 0      | 3,813   |
|                           | Timah/Layor/Selayor          | 2,003   | 1      | 0      | 0      | 78     | 0  | 4   | 0     | 1     | 0      | 0   | 0     | 0   | 0      | 2,087   |
|                           | 38 Pari                      | 3,135   | 0      | 0      | 9      | 238    | 0  | 0   | 36    | 857   | 116    | 0   | 0     | 0   | 0      | 4,391   |
|                           | Yu                           | 796     | 0      | 0      | 0      | 146    | 0  | 0   | 0     | 73    | 0      | 0   | 0     | 0   | 0      | 1,015   |
|                           | 39 Ikan Baja                 | 157,371 | 5,358  | 0      | 7,132  | 4,507  | 0  | 48  | 1     | 0     | 4,237  | 225 | 486   | 0   | 0      | 179,365 |
|                           | Ikan Campur                  | 8,001   | 134    | 0      | 32     | 2,319  | 1  | 42  | 2     | 8     | 51     | 38  | 0     | 0   | 0      | 10,628  |
|                           | Jebong                       | 689     | 0      | 0      | 2      | 1      | 0  | 0   | 101   | 0     | 0      | 0   | 0     | 0   | 0      | 793     |
|                           | 42 Ketam                     | 2,248   | 0      | 0      | 23     | 1,022  | 0  | 0   | 27    | 0     | 10     | 81  | 21    | 0   | 220    | 3,652   |
|                           | 45 Udang Karang/Lobok        | 30      | 0      | 0      | 0      | 1      | 0  | 0   | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 31      |
|                           | Udang Putih                  | 1,124   | 0      | 0      | 41     | 2,324  | 0  | 1   | 0     | 0     | 20     | 5   | 7     | 0   | 0      | 3,522   |
|                           | Udang Minyak                 | 11,983  | 0      | 0      | 5,646  | 321    | 0  | 0   | 0     | 0     | 512    | 5   | 20    | 0   | 0      | 18,487  |
|                           | Udang Merah Ros              | 292     | 0      | 0      | 0      | 1      | 0  | 0   | 0     | 0     | 7      | 0   | 0     | 0   | 0      | 300     |
|                           | Udang Kulit Keras            | 1,808   | 0      | 0      | 271    | 66     | 0  | 4   | 0     | 0     | 304    | 0   | 34    | 0   | 0      | 2,487   |
|                           | Udang Harimau                | 205     | 0      | 0      | 12     | 10     | 0  | 0   | 0     | 0     | 4      | 0   | 13    | 0   | 0      | 244     |
|                           | Lain-Lain Jenis Udang        | 18,999  | 0      | 0      | 4,968  | 3,369  | 0  | 425 | 0     | 0     | 19,082 | 132 | 1,443 | 0   | 1      | 48,419  |
|                           | Udang Baring                 | 0       | 0      | 0      | 0      | 0      | 0  | 0   | 0     | 0     | 0      | 0   | 0     | 0   | 0      | 0       |
|                           | 56 Siput/Kepah/Kupang/Tiram  | 0       | 0      | 0      | 0      | 0      | 0  | 0   | 0     | 0     | 0      | 0   | 0     | 782 | 0      | 782     |
|                           | 57 Sotong Kereta             | 363     | 0      | 0      | 0      | 16     | 0  | 0   | 0     | 0     | 7      | 0   | 0     | 0   | 0      | 386     |
|                           | Sotong Katak                 | 4,102   | 0      | 0      | 10     | 2      | 0  | 1   | 38    | 2     | 13     | 1   | 0     | 0   | 0      | 4,169   |
|                           | Sotong Biasa                 | 15,982  | 82     | 0      | 0      | 0      | 0  | 20  | 0     | 0     | 54     | 0   | 0     | 0   | 0      | 16,138  |
|                           | 76 Ubur-Ubur                 | 2,979   | 0      | 0      | 0      | 120    | 0  | 0   | 0     | 0     | 4,347  | 0   | 0     | 0   | 23,398 | 30,844  |
| Jumlah Tan M/Total Tonnes |                              | 298,852 | 45,429 | 25,690 | 18,479 | 39,917 | 53 | 643 | 1,114 | 2,997 | 28,855 | 880 | 2,024 | 782 | 23,619 | 489,334 |

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA  
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1989  
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1989  
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.2

| ISSCAAP<br>GROUP<br>NO. | Jenis Ikan<br>Species       | Pukat<br>Tunda | Pukat-Pukat Tarik/Selne Nets |                        |                          |                     | Pukat<br>Hanyut | Pukat<br>Tangguk | Perangkap-perangkap<br>Traps |       | Pancing | Pukat<br>Bakul | Pukat<br>Rentang | Pukat<br>Surung | Memungut<br>Siput | Rampalan | Jumlah<br>(Tan M) |              |                     |                        |
|-------------------------|-----------------------------|----------------|------------------------------|------------------------|--------------------------|---------------------|-----------------|------------------|------------------------------|-------|---------|----------------|------------------|-----------------|-------------------|----------|-------------------|--------------|---------------------|------------------------|
|                         |                             |                |                              | Pukat<br>Jerut<br>Ikan | Pukat<br>Jerut<br>Billis | Lain Pukat<br>Tarik |                 |                  | Belat-<br>Belat              | Bubu  |         |                |                  |                 |                   |          |                   |              |                     |                        |
|                         | Nama Tempatan<br>Local Name |                |                              |                        |                          |                     |                 |                  |                              |       |         |                |                  |                 |                   |          |                   | Trawl<br>Net | Purse<br>Seine Fish | Purse Seine<br>Anchovy |
|                         |                             |                |                              |                        |                          |                     |                 |                  |                              |       |         |                |                  |                 |                   |          |                   |              |                     |                        |
| 24                      | Kebasi/Selangat             | 74             | 0                            | 0                      | 7                        | 391                 | 0               | 0                | 0                            | 0     | 2       | 0              | 0                | 0               | 0                 | 0        | 474               |              |                     |                        |
|                         | Puput/B. Mata/Tirok         | 57             | 0                            | 0                      | 0                        | 2                   | 0               | 0                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 59                |              |                     |                        |
|                         | Terubok                     | 0              | 0                            | 0                      | 0                        | 0                   | 0               | 0                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 0                 |              |                     |                        |
| 25                      | Slakap                      | 7              | 0                            | 0                      | 0                        | 0                   | 0               | 0                | 1                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 8                 |              |                     |                        |
| 31                      | Udah                        | 163            | 0                            | 0                      | 0                        | 2                   | 0               | 0                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 165               |              |                     |                        |
| 33                      | Sebelah                     | 464            | 0                            | 0                      | 0                        | 33                  | 0               | 0                | 2                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 499               |              |                     |                        |
|                         | Bayan                       | 7              | 0                            | 0                      | 0                        | 0                   | 0               | 0                | 34                           | 1     | 0       | 0              | 0                | 0               | 0                 | 0        | 42                |              |                     |                        |
|                         | Bill Nangka                 | 1,476          | 0                            | 0                      | 0                        | 135                 | 0               | 0                | 66                           | 21    | 0       | 0              | 0                | 0               | 0                 | 0        | 1,698             |              |                     |                        |
|                         | Daun Baharu                 | 77             | 0                            | 0                      | 0                        | 7                   | 0               | 0                | 3                            | 1     | 0       | 0              | 0                | 0               | 0                 | 0        | 88                |              |                     |                        |
|                         | Delah/Pinang-Pinang         | 20             | 2                            | 0                      | 0                        | 0                   | 0               | 9                | 97                           | 0     | 0       | 0              | 0                | 0               | 0                 | 56       | 184               |              |                     |                        |
|                         | Duri/Pulutan/Utik           | 1,675          | 51                           | 7                      | 0                        | 183                 | 0               | 1                | 18                           | 501   | 1       | 0              | 0                | 0               | 0                 | 0        | 2,437             |              |                     |                        |
|                         | Dengkla/Debam               | 252            | 0                            | 0                      | 0                        | 59                  | 7               | 4                | 185                          | 8     | 0       | 0              | 0                | 0               | 0                 | 0        | 515               |              |                     |                        |
|                         | Gelama/Tengkerong/Selampai  | 1,779          | 8                            | 47                     | 33                       | 598                 | 5               | 0                | 75                           | 355   | 4       | 0              | 0                | 0               | 0                 | 0        | 2,904             |              |                     |                        |
|                         | Gerut-Gerut                 | 107            | 0                            | 0                      | 0                        | 53                  | 0               | 0                | 41                           | 38    | 0       | 0              | 0                | 0               | 0                 | 0        | 239               |              |                     |                        |
|                         | Jenahak                     | 2              | 0                            | 0                      | 0                        | 0                   | 0               | 0                | 1                            | 1     | 0       | 0              | 0                | 0               | 0                 | 0        | 4                 |              |                     |                        |
|                         | Kaci                        | 195            | 0                            | 0                      | 0                        | 0                   | 0               | 0                | 74                           | 17    | 0       | 0              | 0                | 0               | 0                 | 0        | 286               |              |                     |                        |
|                         | Kerapu                      | 525            | 0                            | 0                      | 0                        | 15                  | 0               | 1                | 282                          | 483   | 0       | 0              | 0                | 0               | 0                 | 0        | 1,306             |              |                     |                        |
|                         | Kerisi                      | 9,865          | 0                            | 0                      | 0                        | 545                 | 24              | 0                | 1,298                        | 2,291 | 0       | 0              | 0                | 0               | 0                 | 0        | 13,823            |              |                     |                        |
|                         | Kerisi Bai                  | 409            | 0                            | 0                      | 0                        | 0                   | 0               | 0                | 50                           | 101   | 0       | 0              | 0                | 0               | 0                 | 0        | 560               |              |                     |                        |
|                         | Kikek                       | 533            | 5                            | 1                      | 0                        | 175                 | 3               | 0                | 3                            | 9     | 0       | 0              | 0                | 0               | 0                 | 0        | 729               |              |                     |                        |
|                         | Malong                      | 99             | 0                            | 0                      | 0                        | 0                   | 0               | 0                | 6                            | 1     | 0       | 0              | 0                | 0               | 0                 | 0        | 106               |              |                     |                        |
|                         | Merah                       | 764            | 0                            | 0                      | 0                        | 18                  | 0               | 1                | 1,027                        | 857   | 0       | 0              | 0                | 0               | 0                 | 0        | 2,667             |              |                     |                        |
|                         | Mengkerong/Conor/Ubi-Ubi    | 628            | 0                            | 0                      | 0                        | 0                   | 0               | 0                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 628               |              |                     |                        |
|                         | Remong/Kunyit-Kunyit/Tanda  | 1,134          | 9                            | 0                      | 0                        | 173                 | 1               | 1                | 198                          | 53    | 0       | 0              | 0                | 0               | 0                 | 0        | 1,569             |              |                     |                        |
|                         | Semilang                    | 3              | 0                            | 0                      | 0                        | 0                   | 0               | 1                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 4                 |              |                     |                        |
|                         | Shrumbu/Lemah               | 0              | 0                            | 0                      | 0                        | 0                   | 0               | 0                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 0                 |              |                     |                        |
|                         | Puntong Damar/Bulus         | 867            | 98                           | 0                      | 0                        | 124                 | 0               | 0                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 889               |              |                     |                        |
|                         | Pasir-Pasir/Timun-Timun     | 484            | 0                            | 0                      | 0                        | 2                   | 0               | 0                | 148                          | 2     | 0       | 0              | 0                | 0               | 0                 | 0        | 636               |              |                     |                        |
|                         | Alu-Alu/Kacang-Kacang       | 518            | 21                           | 0                      | 0                        | 151                 | 0               | 4                | 5                            | 29    | 0       | 0              | 0                | 0               | 0                 | 0        | 728               |              |                     |                        |
| 34                      | Aruan Task                  | 53             | 122                          | 0                      | 0                        | 24                  | 0               | 0                | 13                           | 85    | 0       | 0              | 0                | 0               | 0                 | 0        | 297               |              |                     |                        |
|                         | Bawal                       | 146            | 308                          | 0                      | 3                        | 321                 | 78              | 0                | 0                            | 29    | 4       | 0              | 0                | 0               | 0                 | 0        | 889               |              |                     |                        |
|                         | Belanak/Kedera              | 1              | 3                            | 0                      | 0                        | 3                   | 0               | 2                | 0                            | 0     | 0       | 0              | 0                | 0               | 0                 | 0        | 9                 |              |                     |                        |
|                         | Cermin/Sagal/Cupak          | 1,116          | 97                           | 0                      | 0                        | 177                 | 2               | 1                | 87                           | 131   | 0       | 0              | 0                | 0               | 0                 | 0        | 1,611             |              |                     |                        |

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

|    |                           |         |        |       |     |        |        |     |       |        |       |   |   |   |    |         |
|----|---------------------------|---------|--------|-------|-----|--------|--------|-----|-------|--------|-------|---|---|---|----|---------|
|    | Cincaru                   | 762     | 862    | 0     | 0   | 253    | 17     | 0   | 0     | 1,078  | 3     | 1 | 0 | 0 | 4  | 2,980   |
|    | Demudok/Rambai            | 108     | 312    | 0     | 0   | 331    | 2      | 0   | 114   | 364    | 0     | 0 | 0 | 0 | 7  | 1,238   |
|    | Kurau/Senangin/Senohong   | 1       | 0      | 16    | 4   | 9      | 0      | 0   | 0     | 0      | 0     | 0 | 0 | 0 | 0  | 30      |
|    | Pelata/Selar              | 999     | 4,782  | 33    | 1   | 858    | 236    | 8   | 10    | 2,541  | 15    | 0 | 0 | 0 | 0  | 9,483   |
|    | Selar Kuning/Lolong       | 5,122   | 6,983  | 0     | 0   | 142    | 6,215  | 58  | 2     | 28     | 0     | 0 | 0 | 0 | 0  | 18,550  |
|    | Selayang/Curut            | 331     | 24,612 | 0     | 0   | 1      | 1,802  | 0   | 0     | 206    | 0     | 0 | 0 | 0 | 0  | 26,952  |
|    | Pisang-Pisang             | 12      | 25     | 0     | 0   | 0      | 0      | 0   | 12    | 35     | 0     | 0 | 0 | 0 | 0  | 84      |
|    | Talang                    | 15      | 22     | 0     | 0   | 29     | 0      | 1   | 0     | 76     | 0     | 0 | 0 | 0 | 0  | 143     |
| 35 | Bilis/Bunga Air           | 69      | 0      | 3,012 | 0   | 0      | 10     | 88  | 0     | 0      | 0     | 0 | 0 | 0 | 0  | 3,179   |
|    | Parang-Parang             | 266     | 0      | 0     | 1   | 976    | 1      | 0   | 0     | 104    | 0     | 0 | 0 | 0 | 0  | 1,348   |
|    | Tamban                    | 28      | 8,430  | 1,108 | 0   | 4      | 402    | 35  | 0     | 36     | 0     | 0 | 0 | 0 | 0  | 10,043  |
|    | Bulan-Bulan               | 3       | 0      | 0     | 0   | 3      | 0      | 0   | 2     | 1      | 0     | 0 | 0 | 0 | 0  | 9       |
| 36 | Aya/Kayu/Tongkol          | 10      | 2,737  | 0     | 0   | 1,848  | 13     | 0   | 0     | 5,351  | 0     | 0 | 0 | 0 | 0  | 9,959   |
|    | Layaran/Mersulj           | 13      | 0      | 0     | 0   | 2      | 0      | 0   | 0     | 118    | 0     | 0 | 0 | 0 | 0  | 133     |
| 37 | Kembong/Temenong/Pelaling | 569     | 9,671  | 90    | 7   | 233    | 136    | 3   | 0     | 168    | 0     | 0 | 0 | 0 | 0  | 10,877  |
|    | Tenggit                   | 332     | 334    | 0     | 0   | 783    | 2      | 0   | 9     | 2,158  | 0     | 0 | 0 | 0 | 0  | 3,618   |
|    | Timah/Layor/Selayor       | 397     | 10     | 0     | 0   | 163    | 8      | 0   | 0     | 4      | 4     | 3 | 0 | 0 | 0  | 589     |
| 38 | Parl                      | 2,177   | 0      | 0     | 4   | 46     | 0      | 1   | 8     | 29     | 3     | 0 | 0 | 0 | 0  | 2,268   |
|    | Yu                        | 674     | 2      | 0     | 0   | 166    | 0      | 0   | 4     | 99     | 1     | 0 | 0 | 0 | 0  | 946     |
| 39 | Ikan Baja                 | 75,427  | 207    | 0     | 621 | 0      | 0      | 0   | 1     | 0      | 1,817 | 0 | 0 | 0 | 0  | 78,073  |
|    | Ikan Campur               | 6,536   | 5,248  | 19    | 0   | 1,026  | 100    | 8   | 480   | 610    | 38    | 0 | 0 | 0 | 0  | 14,083  |
|    | Jebong                    | 323     | 0      | 0     | 0   | 0      | 0      | 0   | 142   | 1      | 0     | 0 | 0 | 0 | 0  | 466     |
| 42 | Ketam                     | 1,083   | 0      | 0     | 0   | 38     | 0      | 2   | 79    | 0      | 0     | 0 | 0 | 0 | 1  | 1,203   |
| 45 | Udang Karang/Lobok        | 369     | 0      | 0     | 0   | 5      | 0      | 0   | 3     | 0      | 0     | 0 | 0 | 0 | 0  | 377     |
|    | Udang Putih               | 247     | 0      | 0     | 0   | 197    | 0      | 0   | 0     | 0      | 10    | 0 | 0 | 0 | 0  | 454     |
|    | Udang Minyak              | 703     | 0      | 0     | 0   | 0      | 0      | 0   | 0     | 0      | 83    | 0 | 0 | 0 | 0  | 786     |
|    | Udang Merah Ros           | 52      | 0      | 0     | 0   | 0      | 0      | 0   | 0     | 0      | 0     | 0 | 0 | 0 | 0  | 52      |
|    | Udang Kulit Keras         | 1,430   | 0      | 0     | 0   | 78     | 0      | 0   | 0     | 0      | 3     | 0 | 0 | 0 | 0  | 1,511   |
|    | Udang Harimau             | 215     | 0      | 0     | 0   | 33     | 0      | 0   | 0     | 0      | 3     | 0 | 0 | 0 | 0  | 251     |
|    | Lain-Lain Jenis Udang     | 2,457   | 0      | 0     | 0   | 191    | 0      | 0   | 0     | 0      | 1,223 | 0 | 0 | 0 | 0  | 3,871   |
|    | Udang Baring              | 0       | 0      | 0     | 0   | 0      | 0      | 0   | 0     | 0      | 0     | 0 | 0 | 0 | 0  | 0       |
| 56 | Stiput/Kepah/Kupang/Tiram | 0       | 0      | 0     | 0   | 0      | 0      | 0   | 0     | 0      | 0     | 0 | 0 | 0 | 0  | 0       |
| 57 | Sotong Kereta             | 14      | 0      | 0     | 0   | 0      | 10     | 0   | 0     | 0      | 0     | 0 | 0 | 0 | 0  | 24      |
|    | Sotong Katak              | 4,181   | 0      | 0     | 0   | 0      | 58     | 1   | 332   | 3      | 2     | 0 | 0 | 0 | 0  | 4,577   |
|    | Sotong Biasa              | 9,410   | 224    | 0     | 0   | 0      | 2,402  | 18  | 176   | 1,124  | 1     | 5 | 0 | 0 | 0  | 13,360  |
| 76 | Ubur-Ubur                 | 0       | 0      | 0     | 0   | 0      | 0      | 0   | 0     | 0      | 0     | 0 | 0 | 0 | 0  | 0       |
|    | Jumlah Tan M/Total Tonnes | 137,435 | 65,183 | 4,333 | 681 | 10,606 | 11,534 | 248 | 5,088 | 19,148 | 3,217 | 9 | 0 | 0 | 68 | 257,550 |

\* Pendaratan kurang dari 0.5 tan metrik.

SARAWAK  
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1989  
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1989  
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.3

| ISSCAAP<br>GROUP<br>NO. | Jenis Ikan<br>Species       | Pukat<br>Tunda<br><br>Trawl<br>Net | Pukat-Pukat Tarik      |                         |                     | Pukat<br>Hanyut<br><br>Drift/Gill<br>Nets | Pukat<br>Tangguk<br><br>Lift<br>Nets | Perangkap-perangkap<br>Traps |          | Pancing<br><br>Hooks<br>and<br>Lines | Pukat<br>Bakul<br><br>Bag Nets | Pukat<br>Rentang<br><br>Barrier<br>Nets | Pukat<br>Surung<br><br>Push/Scoop<br>Nets | Memungut<br>Siput<br><br>Shellfish<br>Collection | Rampaian<br><br>Miscel-<br>laneous | Jumlah<br>(Tan M) |
|-------------------------|-----------------------------|------------------------------------|------------------------|-------------------------|---------------------|-------------------------------------------|--------------------------------------|------------------------------|----------|--------------------------------------|--------------------------------|-----------------------------------------|-------------------------------------------|--------------------------------------------------|------------------------------------|-------------------|
|                         |                             |                                    | Pukat<br>Jerut<br>Ikan | Pukat<br>Jerut<br>Bilis | Lain Pukat<br>Tarik |                                           |                                      | Belat-<br>Belat              | Bubu     |                                      |                                |                                         |                                           |                                                  |                                    |                   |
|                         | Nama Tempatan<br>Local Name |                                    | Purse<br>Seine Fish    | Purse Seine<br>Anchovy  | Other<br>Seines     |                                           |                                      | Stationary                   | Portable |                                      |                                |                                         |                                           |                                                  |                                    | Total<br>(Tonnes) |
| 34                      | 24 Kebas/Selangat           | 0                                  | 0                      | 0                       | 0                   | 148                                       | 0                                    | 1                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 149               |
|                         | Puput/B. Maba/Tirok         | 886                                | 0                      | 0                       | 0                   | 633                                       | 0                                    | 13                           | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 1,532             |
|                         | 25 Terubok                  | 12                                 | 0                      | 0                       | 0                   | 753                                       | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 765               |
|                         | 31 Siakap                   | 0                                  | 0                      | 0                       | 0                   | 35                                        | 0                                    | 0                            | 0        | 49                                   | 0                              | 1                                       | 0                                         | 0                                                | 0                                  | 85                |
|                         | 33 Lidah                    | 36                                 | 0                      | 0                       | 0                   | 3                                         | 0                                    | 2                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 41                |
|                         | Sebelah                     | 13                                 | 0                      | 0                       | 0                   | 0                                         | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 13                |
|                         | Bayan                       | 0                                  | 0                      | 0                       | 0                   | 0                                         | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 0                 |
|                         | Biji Nangka                 | 27                                 | 0                      | 0                       | 0                   | 0                                         | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 27                |
|                         | Delah/Pinang-Pinang         | 1                                  | 0                      | 0                       | 0                   | 0                                         | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 1                 |
|                         | Daun Baharu                 | 21                                 | 0                      | 0                       | 0                   | 3                                         | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 24                |
|                         | Duri/Pukutan/Utik           | 923                                | 0                      | 0                       | 0                   | 1,181                                     | 0                                    | 100                          | 0        | 83                                   | 0                              | 11                                      | 0                                         | 0                                                | 0                                  | 2,298             |
|                         | Gelama/Tengkerong/Selampai  | 3,563                              | 0                      | 0                       | 0                   | 172                                       | 0                                    | 44                           | 0        | 0                                    | 0                              | 7                                       | 0                                         | 0                                                | 0                                  | 3,786             |
|                         | Gerut-Gerut                 | 11                                 | 0                      | 0                       | 0                   | 37                                        | 0                                    | 0                            | 0        | 7                                    | 0                              | 5                                       | 0                                         | 0                                                | 0                                  | 60                |
|                         | Jenahak                     | 9                                  | 0                      | 0                       | 0                   | 6                                         | 0                                    | 0                            | 0        | 28                                   | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 43                |
|                         | Kaci                        | 0                                  | 0                      | 0                       | 0                   | 0                                         | 0                                    | 0                            | 0        | 14                                   | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 14                |
|                         | Kerapu                      | 12                                 | 0                      | 0                       | 0                   | 25                                        | 0                                    | 0                            | 0        | 63                                   | 0                              | 4                                       | 0                                         | 0                                                | 0                                  | 104               |
|                         | Kerisi                      | 53                                 | 0                      | 0                       | 0                   | 58                                        | 0                                    | 0                            | 0        | 16                                   | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 127               |
|                         | Kerisi Bali                 | 1                                  | 0                      | 0                       | 0                   | 0                                         | 0                                    | 0                            | 0        | 5                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 6                 |
|                         | Kkek                        | 21                                 | 0                      | 0                       | 0                   | 2                                         | 0                                    | 26                           | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 49                |
|                         | Lumi-Lumi                   | 486                                | 0                      | 0                       | 0                   | 69                                        | 0                                    | 53                           | 0        | 0                                    | 105                            | 804                                     | 0                                         | 0                                                | 0                                  | 1,517             |
|                         | Malong                      | 850                                | 0                      | 0                       | 0                   | 307                                       | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 1,157             |
|                         | Merah                       | 229                                | 0                      | 0                       | 0                   | 25                                        | 0                                    | 0                            | 0        | 222                                  | 0                              | 4                                       | 0                                         | 0                                                | 0                                  | 480               |
|                         | Pelanduk                    | 3                                  | 0                      | 0                       | 0                   | 0                                         | 0                                    | 0                            | 0        | 41                                   | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 44                |
|                         | Semilang                    | 0                                  | 1                      | 0                       | 0                   | 12                                        | 0                                    | 39                           | 0        | 1                                    | 0                              | 10                                      | 0                                         | 0                                                | 0                                  | 63                |
|                         | Shrumbu/Lemah               | 145                                | 0                      | 0                       | 0                   | 2                                         | 0                                    | 6                            | 0        | 1                                    | 0                              | 341                                     | 0                                         | 0                                                | 0                                  | 496               |
|                         | Kapas                       | 219                                | 0                      | 0                       | 0                   | 5                                         | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 224               |
| 34                      | Aku-Aku/Kacang-Kacang       | 1                                  | 0                      | 0                       | 0                   | 11                                        | 0                                    | 0                            | 0        | 7                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 19                |
|                         | Bawal                       | 886                                | 416                    | 0                       | 0                   | 769                                       | 0                                    | 17                           | 0        | 0                                    | 0                              | 0                                       | 244                                       | 0                                                | 0                                  | 2,332             |
|                         | Belanak/Kedera              | 0                                  | 0                      | 0                       | 0                   | 62                                        | 0                                    | 15                           | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 77                |
|                         | Cermin/Sagai/Cupak          | 16                                 | 0                      | 0                       | 0                   | 1                                         | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 0                                         | 0                                                | 0                                  | 17                |
|                         | Gerongga                    | 34                                 | 14                     | 0                       | 0                   | 224                                       | 0                                    | 0                            | 0        | 0                                    | 0                              | 0                                       | 1                                         | 0                                                | 0                                  | 273               |

Samb.(Cont'd) Jadual (Table) 4.8.3.

|                           |                           |        |       |   |   |        |   |       |    |       |       |       |       |   |    |        |
|---------------------------|---------------------------|--------|-------|---|---|--------|---|-------|----|-------|-------|-------|-------|---|----|--------|
|                           | Cincaru                   | 507    | 263   | 0 | 0 | 304    | 0 | 0     | 0  | 4     | 0     | 0     | 5     | 0 | 0  | 1,083  |
|                           | Demudok/Rambai            | 33     | 0     | 0 | 0 | 46     | 0 | 0     | 0  | 14    | 0     | 0     | 0     | 0 | 0  | 93     |
|                           | Kurau/Senangin/Senohong   | 9      | 0     | 0 | 0 | 537    | 0 | 7     | 0  | 4     | 0     | 0     | 0     | 0 | 0  | 557    |
|                           | Pelata/Selar              | 288    | 207   | 0 | 0 | 48     | 0 | 31    | 0  | 0     | 0     | 0     | 3     | 0 | 0  | 577    |
|                           | Selar Kuning/Lolong       | 20     | 202   | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 7     | 0 | 0  | 229    |
|                           | Selayang/Curut            | 0      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 0      |
|                           | Talang                    | 22     | 2     | 0 | 0 | 320    | 0 | 0     | 0  | 32    | 0     | 0     | 0     | 0 | 0  | 376    |
|                           | Todak/Banang              | 1      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 1      |
|                           | Tamban                    | 242    | 912   | 0 | 0 | 594    | 0 | 32    | 0  | 4     | 0     | 0     | 7     | 0 | 0  | 1,791  |
| 35                        | Blis/Bunga Air            | 120    | 2     | 0 | 0 | 399    | 0 | 95    | 0  | 0     | 0     | 0     | 12    | 0 | 0  | 628    |
|                           | Parang-Parang             | 79     | 0     | 0 | 0 | 361    | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 440    |
|                           | Bulan                     | 0      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 0      |
| 36                        | Aya/Kayu/Tongkol          | 47     | 636   | 0 | 0 | 549    | 0 | 0     | 0  | 280   | 0     | 0     | 0     | 0 | 0  | 1,512  |
|                           | Tenggiri                  | 838    | 4     | 0 | 0 | 1,648  | 0 | 9     | 0  | 12    | 0     | 0     | 0     | 0 | 0  | 2,511  |
| 37                        | Kembong/Temenong/Pelaling | 630    | 38    | 0 | 0 | 709    | 0 | 0     | 0  | 0     | 0     | 0     | 4     | 0 | 0  | 1,381  |
|                           | Timah/Layor/Selayor       | 206    | 0     | 0 | 0 | 86     | 0 | 14    | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 306    |
|                           | Yu                        | 414    | 0     | 0 | 0 | 965    | 0 | 0     | 0  | 37    | 0     | 0     | 0     | 0 | 0  | 1,406  |
| 38                        | Pari                      | 1,539  | 0     | 0 | 0 | 384    | 0 | 8     | 0  | 127   | 0     | 4     | 0     | 0 | 0  | 2,062  |
| 39                        | Ikan Baja                 | 8,387  | 0     | 0 | 0 | 17     | 0 | 35    | 0  | 0     | 438   | 0     | 0     | 0 | 0  | 8,877  |
|                           | Ikan Campur               | 6,525  | 2     | 0 | 0 | 1,023  | 0 | 383   | 0  | 85    | 90    | 0     | 0     | 0 | 0  | 8,108  |
| 42                        | Ketam                     | 76     | 0     | 0 | 0 | 145    | 0 | 0     | 39 | 0     | 0     | 1     | 0     | 0 | 0  | 261    |
| 45                        | Udang Karang/Lobok        | 9      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 9      |
|                           | Udang Harimau             | 8      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 7     | 0     | 0     | 0 | 0  | 15     |
|                           | Udang Putih               | 1,984  | 181   | 0 | 0 | 760    | 0 | 41    | 0  | 0     | 6     | 24    | 1     | 0 | 5  | 3,002  |
|                           | Udang Sua Lor             | 540    | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 540    |
|                           | Udang Merah Ros           | 3      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 3      |
|                           | Udang Kulit Keras         | 1,839  | 0     | 0 | 0 | 0      | 0 | 4     | 0  | 0     | 6     | 0     | 0     | 0 | 0  | 1,849  |
|                           | Udang Kuning              | 120    | 0     | 0 | 0 | 0      | 0 | 3     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 123    |
|                           | Udang Cendana/Rotan       | 0      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 0      |
|                           | Udang Merah/Payak         | 9,555  | 0     | 0 | 0 | 7      | 0 | 25    | 0  | 0     | 2,448 | 2     | 0     | 0 | 0  | 12,037 |
|                           | Udang Pasir               | 26     | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 26     |
|                           | Udang Minyak              | 868    | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 868    |
|                           | Udang Baring              | 0      | 0     | 0 | 0 | 0      | 0 | 81    | 0  | 0     | 555   | 0     | 41    | 0 | 0  | 877    |
|                           | Udang Galah               | 0      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 0      |
| 56                        | Siput/Kepah/Kupang/Tiram  | 0      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 2 | 0  | 2      |
| 57                        | Sotong Biasa              | 1,362  | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 1,362  |
|                           | Sotong Katak              | 219    | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 219    |
|                           | Sotong Kereta             | 1      | 0     | 0 | 0 | 0      | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 1      |
| 76                        | Ubur-Ubur                 | 6,016  | 0     | 0 | 0 | 36     | 0 | 2     | 0  | 147   | 638   | 548   | 3,798 | 0 | 7  | 11,192 |
|                           | Jamah                     | 348    | 484   | 0 | 0 | 19     | 0 | 0     | 0  | 0     | 0     | 0     | 162   | 0 | 0  | 1,013  |
|                           | Perencong                 | 0      | 0     | 0 | 0 | 144    | 0 | 0     | 0  | 3     | 0     | 0     | 0     | 0 | 0  | 147    |
|                           | Panjang                   | 0      | 3     | 0 | 0 | 1,002  | 0 | 0     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 1,005  |
|                           | Pelayak                   | 17     | 0     | 0 | 0 | 200    | 0 | 3     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 220    |
|                           | Impirang                  | 13     | 0     | 0 | 0 | 256    | 0 | 81    | 0  | 0     | 7     | 310   | 0     | 0 | 0  | 689    |
|                           | Bulu Ayam                 | 5      | 0     | 0 | 0 | 181    | 0 | 161   | 0  | 0     | 0     | 74    | 0     | 0 | 0  | 421    |
|                           | Kilat                     | 492    | 0     | 0 | 0 | 89     | 0 | 9     | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 590    |
|                           | Bulu                      | 49     | 0     | 0 | 0 | 23     | 0 | 27    | 0  | 0     | 0     | 0     | 0     | 0 | 0  | 99     |
|                           | Emprit                    | 3      | 0     | 0 | 0 | 214    | 0 | 14    | 0  | 0     | 0     | 15    | 0     | 0 | 0  | 246    |
| Jumlah Tan M/Total Tonnes |                           | 51,918 | 3,367 | 0 | 0 | 15,601 | 0 | 1,381 | 39 | 1,286 | 4,300 | 2,165 | 4,285 | 2 | 12 | 84,356 |

WILAYAH PERSEKUTUTAN LABUAN/LABUAN FEDERAL TERRITORY  
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1989  
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1989  
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.4

| ISSCAAP<br>GROUP<br>NO. | Jenis Ikan<br>Species       | Pukat<br>Tunda<br><br>Trawl<br>Net | Pukat-Pukat Tarik/Seine Nets         |                                                   |                                        |                                   | Pukat<br>Hanyut<br><br>Drift/Gill<br>Nets | Pukat<br>Tangguk<br><br>Lift<br>Nets | Perangkap-perangkap<br>Traps |                   | Pancing<br><br>Hooks<br>and<br>Lines | Pukat<br>Bakul<br><br>Bag<br>Nets | Pukat<br>Rentang<br><br>Barrier<br>Nets | Pukat<br>Surung<br><br>Push/Scoop<br>Nets | Memungut<br>Siput<br><br>Shellfish<br>Collection | Rampalan<br><br>Miscel-<br>lanæous | Jumlah<br>(Tan M) |
|-------------------------|-----------------------------|------------------------------------|--------------------------------------|---------------------------------------------------|----------------------------------------|-----------------------------------|-------------------------------------------|--------------------------------------|------------------------------|-------------------|--------------------------------------|-----------------------------------|-----------------------------------------|-------------------------------------------|--------------------------------------------------|------------------------------------|-------------------|
|                         | Nama Tempatan<br>Local Name |                                    | Pukat<br>Jerut<br>Ikan<br>Seine Fish | Pukat<br>Jerut<br>Bilis<br>Purse Seine<br>Anchovy | Lain Pukat<br>Tarik<br>Other<br>Seines | Belat-<br>Belat<br><br>Stationary |                                           |                                      | Bubu<br><br>Portable         | Total<br>(Tonnes) |                                      |                                   |                                         |                                           |                                                  |                                    |                   |
|                         |                             |                                    |                                      |                                                   |                                        |                                   |                                           |                                      |                              |                   |                                      |                                   |                                         |                                           |                                                  |                                    |                   |
| 24                      | Kebasi/Selangat             | 0                                  | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 0                 |
|                         | Puput/B. Mata/Tirok         | 7                                  | 21                                   | 0                                                 | 0                                      | 3                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 31                |
|                         | Terubok                     | 0                                  | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 0                 |
| 25                      | Siakap                      | 0                                  | 0                                    | 0                                                 | 0                                      | 6                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 6                 |
| 31                      | Lidah                       | 7                                  | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 7                 |
| 33                      | Sebelah                     | 25                                 | 0                                    | 0                                                 | 0                                      | 4                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 29                |
|                         | Bayan                       | 0                                  | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 0                 |
|                         | Biji Nangka                 | 322                                | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 322               |
|                         | Daun Baharu                 | 21                                 | 0                                    | 0                                                 | 0                                      | 1                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 22                |
|                         | Delah/Pinang-Pinang         | 0                                  | 0                                    | 0                                                 | 0                                      | 52                                | 0                                         | 0                                    | 0                            | 0                 | 57                                   | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 109               |
|                         | Duri/Pulutan/Utik           | 74                                 | 0                                    | 0                                                 | 0                                      | 10                                | 0                                         | 0                                    | 0                            | 0                 | 4                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 88                |
|                         | Dengkis/Debam               | 0                                  | 0                                    | 0                                                 | 0                                      | 85                                | 0                                         | 24                                   | 8                            | 35                | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 152               |
|                         | Gelama/Tengerong/Selampai   | 114                                | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 114               |
|                         | Gerut-Gerut                 | 28                                 | 0                                    | 0                                                 | 0                                      | 6                                 | 0                                         | 1                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 35                |
|                         | Jenahak                     | 0                                  | 0                                    | 0                                                 | 0                                      | 1                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 1                 |
|                         | Kaci                        | 3                                  | 0                                    | 0                                                 | 0                                      | 10                                | 0                                         | 0                                    | 0                            | 6                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 19                |
|                         | Kerapu                      | 34                                 | 0                                    | 0                                                 | 0                                      | 16                                | 0                                         | 1                                    | 7                            | 327               | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 385               |
|                         | Kerisi                      | 83                                 | 0                                    | 0                                                 | 0                                      | 2                                 | 0                                         | 0                                    | 0                            | 70                | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 155               |
|                         | Kerisi Bali                 | 0                                  | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 0                 |
|                         | Kikek                       | 66                                 | 0                                    | 0                                                 | 0                                      | 13                                | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 79                |
|                         | Malong                      | 0                                  | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 0                 |
|                         | Merah                       | 43                                 | 0                                    | 0                                                 | 0                                      | 4                                 | 0                                         | 0                                    | 13                           | 336               | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 396               |
|                         | Mengkerong/Conor/Ubi-Ubi    | 0                                  | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 0                 |
|                         | Remong/Kunyit-Kunyit/Tanda  | 0                                  | 0                                    | 0                                                 | 0                                      | 4                                 | 0                                         | 1                                    | 0                            | 9                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 14                |
|                         | Semilang                    | 0                                  | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 0                 |
|                         | Shrumbu/Lemah               | 3                                  | 0                                    | 0                                                 | 0                                      | 3                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 6                 |
|                         | Puntong Damar/Bulus         | 0                                  | 0                                    | 0                                                 | 0                                      | 0                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 0                 |
|                         | Pasir-Pasir/Timun-Timun     | 4                                  | 0                                    | 0                                                 | 0                                      | 13                                | 0                                         | 2                                    | 0                            | 35                | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 54                |
|                         | Alu-Alu/Kacang-Kacang       | 32                                 | 0                                    | 0                                                 | 0                                      | 13                                | 0                                         | 1                                    | 0                            | 11                | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 57                |
| 34                      | Aruan Tasik                 | 1                                  | 0                                    | 0                                                 | 0                                      | 2                                 | 0                                         | 0                                    | 0                            | 4                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 7                 |
|                         | Bawal                       | 9                                  | 24                                   | 0                                                 | 0                                      | 118                               | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 151               |
|                         | Belanak/Kedera              | 0                                  | 0                                    | 0                                                 | 0                                      | 2                                 | 0                                         | 0                                    | 0                            | 0                 | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 2                 |
|                         | Cermin/Sagai/Cupak          | 13                                 | 0                                    | 0                                                 | 0                                      | 25                                | 0                                         | 2                                    | 2                            | 69                | 0                                    | 0                                 | 0                                       | 0                                         | 0                                                | 0                                  | 111               |

Samb.(Cont'd) Jadual (Table) 4.8.4.

|    |                           |       |     |   |   |       |   |    |    |       |   |   |   |   |   |       |
|----|---------------------------|-------|-----|---|---|-------|---|----|----|-------|---|---|---|---|---|-------|
|    | Cincaru                   | 45    | 0   | 0 | 0 | 89    | 0 | 0  | 0  | 9     | 0 | 0 | 0 | 0 | 0 | 143   |
|    | Demudok/Rambai            | 25    | 0   | 0 | 0 | 3     | 0 | 2  | 1  | 8     | 0 | 0 | 0 | 0 | 0 | 39    |
|    | Kurau/Senangin/Senohong   | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
|    | Pelata/Selar              | 13    | 19  | 0 | 0 | 1     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 33    |
|    | Selar Kuning/Lolong       | 25    | 33  | 0 | 0 | 284   | 0 | 0  | 0  | 19    | 0 | 0 | 0 | 0 | 0 | 361   |
|    | Selayang/Curut            | 8     | 99  | 0 | 0 | 438   | 0 | 0  | 0  | 20    | 0 | 0 | 0 | 0 | 0 | 565   |
|    | Pisang-Pisang             | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
|    | Talang                    | 0     | 0   | 0 | 0 | 53    | 0 | 0  | 0  | 45    | 0 | 0 | 0 | 0 | 0 | 98    |
| 35 | Bilia/Bunga Air           | 0     | 0   | 0 | 0 | 4     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 4     |
|    | Parang-Parang             | 9     | 0   | 0 | 0 | 8     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 17    |
|    | Tamban                    | 0     | 13  | 0 | 0 | 531   | 0 | 0  | 0  | 4     | 0 | 0 | 0 | 0 | 0 | 548   |
|    | Bulan-Bulan               | 3     | 0   | 0 | 0 | 2     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 5     |
| 36 | Aya/Kayu/Tongkol          | 0     | 10  | 0 | 0 | 207   | 0 | 0  | 0  | 53    | 0 | 0 | 0 | 0 | 0 | 270   |
|    | Layaran/Mersuji           | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
| 37 | Kembong/Temenong/Pelaling | 24    | 330 | 0 | 0 | 349   | 0 | 0  | 0  | 171   | 0 | 0 | 0 | 0 | 0 | 874   |
|    | Tenggiri                  | 55    | 3   | 0 | 0 | 411   | 0 | 0  | 0  | 236   | 0 | 0 | 0 | 0 | 0 | 705   |
|    | Timah/Layor/Selayor       | 0     | 0   | 0 | 0 | 3     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 3     |
| 38 | Parl                      | 57    | 0   | 0 | 0 | 5     | 0 | 1  | 0  | 1     | 0 | 0 | 0 | 0 | 0 | 64    |
|    | Yu                        | 30    | 0   | 0 | 0 | 20    | 0 | 0  | 0  | 7     | 0 | 0 | 0 | 0 | 0 | 57    |
| 39 | Ikan Baja                 | 0     | 0   | 0 | 0 | 1     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 1     |
|    | Ikan Campur               | 140   | 0   | 0 | 0 | 103   | 0 | 3  | 1  | 128   | 0 | 0 | 0 | 0 | 0 | 375   |
|    | Jebong                    | 11    | 0   | 0 | 0 | 0     | 0 | 0  | 1  | 2     | 0 | 0 | 0 | 0 | 0 | 14    |
| 42 | Ketam                     | 25    | 0   | 0 | 0 | 1     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 26    |
| 45 | Udang Karang/Lobok        | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 5 | 5     |
|    | Udang Putih               | 14    | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 14    |
|    | Udang Minyak              | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
|    | Udang Merah Ros           | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
|    | Udang Kulit Keras         | 227   | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 227   |
|    | Udang Harimau             | 43    | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 43    |
|    | Lain-Lain Jenis Udang     | 206   | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 4 | 210   |
|    | Udang Baring              | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
| 56 | Siput/Kepah/Kupang/Tiram  | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
| 57 | Sotong Kereta             | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
|    | Sotong Katak              | 70    | 0   | 0 | 0 | 7     | 0 | 2  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 79    |
|    | Sotong Biasa              | 100   | 0   | 0 | 0 | 5     | 0 | 0  | 0  | 15    | 0 | 0 | 0 | 0 | 0 | 120   |
| 76 | Ubur-Ubur                 | 0     | 0   | 0 | 0 | 0     | 0 | 0  | 0  | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
|    | Jumlah Tan M/Total Tonnes | 2,019 | 552 | 0 | 0 | 2,918 | 0 | 40 | 33 | 1,681 | 0 | 0 | 0 | 0 | 9 | 7,252 |

JADUAL (TABLE) 4.7

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA  
 USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN JENIS IKAN, 1989  
 FISHING EFFORTS AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1989

| ISSCAAP<br>GROUP<br>NO. | Usaha Menangkap Ikan<br>Fishing Effort | Jumlah<br>Total | Kelas Muatan/Tonnage Class |                 |                 |                 |                    |
|-------------------------|----------------------------------------|-----------------|----------------------------|-----------------|-----------------|-----------------|--------------------|
|                         |                                        |                 | 0-9.9<br>Tons              | 10-24.9<br>Tons | 25-39.9<br>Tons | 40-69.9<br>Tons | 70 Tons<br>& above |
|                         | Cumulative no. of fishing units        | 70,172          | 15,829                     | 36,059          | 9,257           | 7,190           | 1,837              |
|                         | Cumulative no. of trips                | 1,207,775       | 306,706                    | 707,141         | 126,270         | 64,537          | 3,121              |
|                         | Cumulative no. of days                 | 1,479,627       | 308,866                    | 804,634         | 192,530         | 148,626         | 24,971             |
|                         | Cumulative no. of hauls                | 4,389,471       | 852,330                    | 2,320,340       | 602,861         | 547,431         | 66,509             |
|                         | Jenis Ikan/Species:                    |                 |                            |                 |                 |                 |                    |
| 24                      | Kebasi/Selangat                        | 785             | 64                         | 325             | 301             | 90              | 5                  |
|                         | Puput/B. Mata/Tirok                    | 3,634           | 26                         | 348             | 1,360           | 1,745           | 155                |
|                         | Terubok                                | 0               | 0                          | 0               | 0               | 0               | 0                  |
| 25                      | Slakap                                 | 11              | 1                          | 1               | 1               | 1               | 7                  |
| 31                      | Lidah                                  | 1,223           | 66                         | 578             | 423             | 134             | 22                 |
|                         | Sebelah                                | 731             | 26                         | 138             | 194             | 278             | 95                 |
| 33                      | Bayan                                  | 7               | 2                          | 2               | 1               | 1               | 1                  |
|                         | Biji Nangka                            | 4,046           | 18                         | 713             | 643             | 2,209           | 463                |
|                         | Daun Baharu                            | 167             | 8                          | 37              | 53              | 59              | 10                 |
|                         | Delah/Pinang-Pinang                    | 28              | 3                          | 3               | 4               | 11              | 7                  |
|                         | Duri/Pulutan/Utik                      | 3,875           | 100                        | 497             | 1,286           | 1,543           | 449                |
|                         | Dengkis/Debam                          | 323             | 1                          | 31              | 79              | 107             | 105                |
|                         | Gelama/Tengkerong/Selampai             | 7,313           | 449                        | 2,293           | 2,559           | 1,789           | 223                |
|                         | Gerut-Gerut                            | 634             | 9                          | 43              | 223             | 291             | 68                 |
|                         | Jenahak                                | 310             | 1                          | 43              | 62              | 189             | 15                 |
|                         | Kaci                                   | 242             | 10                         | 12              | 58              | 111             | 51                 |
|                         | Kerapu                                 | 1,728           | 23                         | 146             | 389             | 943             | 227                |
|                         | Kerisi                                 | 17,929          | 731                        | 1,987           | 5,370           | 7,507           | 2,334              |
|                         | Kerisi Ball                            | 856             | 0                          | 1               | 50              | 420             | 385                |
|                         | Kikek                                  | 877             | 27                         | 247             | 259             | 255             | 89                 |
|                         | Malong                                 | 1,230           | 84                         | 554             | 285             | 239             | 68                 |
|                         | Merah                                  | 1,741           | 2                          | 60              | 296             | 1,021           | 362                |
|                         | Mengkerong/Conor/Ubi-Ubi               | 3,440           | 28                         | 263             | 763             | 1,852           | 534                |
|                         | Remong/Kunyit-Kunyit/Tanda             | 1,344           | 58                         | 261             | 357             | 389             | 279                |
|                         | Semilang                               | 484             | 6                          | 39              | 66              | 338             | 35                 |
|                         | Shrumbu/Lemah                          | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Puntong Damar/Bulus                    | 944             | 185                        | 251             | 239             | 243             | 26                 |
|                         | Pasir-Pasir/Timun-Timun                | 503             | 98                         | 60              | 119             | 100             | 126                |
| 34                      | Alu-Alu/Kacang-Kacang                  | 1,691           | 10                         | 254             | 461             | 742             | 224                |
|                         | Aruan Tasik                            | 144             | 0                          | 7               | 38              | 74              | 25                 |
|                         | Bawal                                  | 2,725           | 254                        | 760             | 940             | 707             | 64                 |
|                         | Belanak/Kedera                         | 407             | 56                         | 314             | 26              | 10              | 1                  |
|                         | Cermin/Sagal/Cupak                     | 1,575           | 7                          | 256             | 445             | 586             | 281                |

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

|    |                               |         |        |         |         |         |        |
|----|-------------------------------|---------|--------|---------|---------|---------|--------|
|    | Cencaru                       | 2,243   | 31     | 179     | 827     | 960     | 246    |
|    | Demudok/Rambai                | 1,775   | 2      | 31      | 422     | 1,146   | 174    |
|    | Kurau/Senangin/Senohong       | 167     | 18     | 24      | 65      | 57      | 3      |
|    | Pelata/Selar                  | 3,287   | 48     | 276     | 975     | 1,654   | 334    |
|    | Selar Kuning/Lolong           | 7,053   | 681    | 564     | 1,836   | 2,954   | 1,018  |
|    | Selayang/Curut                | 1,043   | 16     | 2       | 324     | 560     | 141    |
|    | Pisang-Pisang                 | 69      | 0      | 0       | 44      | 11      | 14     |
|    | Talang                        | 232     | 1      | 30      | 108     | 91      | 2      |
| 35 | Billis/Bunga Air              | 506     | 12     | 360     | 83      | 29      | 22     |
|    | Parang-Parang                 | 1,883   | 69     | 282     | 674     | 766     | 92     |
|    | Tamban                        | 1,109   | 41     | 266     | 538     | 233     | 31     |
|    | Bulan-Bulan                   | 7       | 0      | 1       | 2       | 2       | 2      |
| 36 | Aya/Kayu/Tongkol              | 10      | 2      | 0       | 0       | 5       | 3      |
|    | Layaran/Mersuji               | 13      | 4      | 2       | 3       | 3       | 1      |
| 37 | Kembong/Temenong/Pelaling     | 16,448  | 46     | 977     | 7,993   | 6,858   | 574    |
|    | Tenggiri                      | 1,690   | 32     | 138     | 554     | 847     | 119    |
|    | Timah/Layor/Selayor           | 2,400   | 47     | 256     | 638     | 1,164   | 295    |
| 38 | Pari                          | 5,312   | 377    | 1,381   | 1,139   | 1,884   | 531    |
|    | Yu                            | 1,470   | 40     | 175     | 423     | 673     | 159    |
| 39 | Ikan Baja                     | 232,798 | 18,171 | 51,293  | 58,737  | 87,519  | 17,078 |
|    | Ikan Campur                   | 14,537  | 663    | 2,910   | 1,846   | 6,057   | 3,061  |
|    | Jebong                        | 1,012   | 1      | 4       | 121     | 680     | 206    |
| 42 | Ketam                         | 3,331   | 721    | 1,418   | 697     | 446     | 49     |
| 45 | Udang Karang/Lobok            | 399     | 47     | 80      | 120     | 114     | 38     |
|    | Udang Putih/Kaki Merah        | 1,371   | 216    | 892     | 170     | 86      | 7      |
|    | Udang Minyak                  | 12,686  | 2,482  | 10,082  | 90      | 30      | 2      |
|    | Udang Merah Ros               | 344     | 152    | 180     | 12      | 0       | 0      |
|    | Udang Kulit Keras             | 3,238   | 1,241  | 1,892   | 72      | 26      | 7      |
|    | Udang Harimau                 | 420     | 88     | 170     | 84      | 73      | 5      |
|    | Lain-Lain Jenis Udang         | 21,456  | 3,607  | 15,699  | 1,785   | 353     | 12     |
|    | Udang Baring                  | 0       | 0      | 0       | 0       | 0       | 0      |
| 56 | Siput/Kepah/Kupang/Tiram      | 0       | 0      | 0       | 0       | 0       | 0      |
| 57 | Sotong Kereta                 | 377     | 29     | 200     | 81      | 53      | 14     |
|    | Sotong Katak                  | 8,283   | 808    | 1,742   | 2,104   | 2,887   | 742    |
|    | Sotong Biasa                  | 25,392  | 920    | 5,440   | 8,138   | 9,255   | 1,639  |
| 76 | Ubur-Ubur                     | 2,979   | 887    | 2,027   | 65      | 0       | 0      |
|    | Jumlah Tan M.<br>Total Tonnes | 436,287 | 33,853 | 109,497 | 108,120 | 151,460 | 33,357 |

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 JENIS IKAN, 1989  
FISHING EFFORTS AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1989

| ISSCAAP<br>GROUP<br>NO. | Usaha Menangkap Ikan<br>Fishing Effort | Jumlah<br>Total | Kelas Muatan/Tonnage Class |                 |                 |                 |                    |
|-------------------------|----------------------------------------|-----------------|----------------------------|-----------------|-----------------|-----------------|--------------------|
|                         |                                        |                 | 0-9.9<br>Tons              | 10-24.9<br>Tons | 25-39.9<br>Tons | 40-69.9<br>Tons | 70 Tons<br>& above |
|                         | Cumulative no. of fishing units        | 53,620          | 11,546                     | 28,943          | 7,233           | 5,155           | 743                |
|                         | Cumulative no. of trips                | 993,350         | 232,919                    | 588,605         | 112,889         | 56,919          | 2,018              |
|                         | Cumulative no. of days                 | 1,192,149       | 235,079                    | 678,904         | 152,770         | 111,190         | 14,206             |
|                         | Cumulative no. of hauls                | 3,563,301       | 646,627                    | 1,943,919       | 485,792         | 445,472         | 41,491             |
|                         | Jenis Ikan/Species:                    |                 |                            |                 |                 |                 |                    |
| 24                      | Kebasi/Selangat                        | 711             | 30                         | 307             | 287             | 85              | 2                  |
|                         | Puput/B. Mata/Tirok                    | 3,577           | 24                         | 346             | 1,358           | 1,744           | 105                |
|                         | Terubok                                | 0               | 0                          | 0               | 0               | 0               | 0                  |
| 25                      | Slakap                                 | 4               | 1                          | 1               | 1               | 1               | 0                  |
| 31                      | Lidah                                  | 1,060           | 50                         | 527             | 377             | 101             | 5                  |
|                         | Sebelah                                | 267             | 3                          | 36              | 64              | 146             | 18                 |
| 33                      | Bayan                                  | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Biji Nangka                            | 2,570           | 8                          | 103             | 254             | 2,077           | 128                |
|                         | Daun Baharu                            | 90              | 4                          | 20              | 22              | 40              | 4                  |
|                         | Delah/Pinang-Pinang                    | 8               | 0                          | 0               | 0               | 8               | 0                  |
|                         | Duri/Pulutan/Utik                      | 2,200           | 62                         | 250             | 723             | 1,035           | 130                |
|                         | Dongkai/Debam                          | 71              | 0                          | 0               | 5               | 58              | 8                  |
|                         | Gelama/Tengkerong/Selampai             | 5,534           | 321                        | 1,515           | 2,073           | 1,520           | 105                |
|                         | Gerut-Gerut                            | 527             | 8                          | 23              | 182             | 285             | 29                 |
|                         | Jenahak                                | 308             | 1                          | 42              | 62              | 189             | 14                 |
|                         | Kaci                                   | 47              | 0                          | 1               | 10              | 29              | 7                  |
|                         | Kerapu                                 | 1,203           | 10                         | 83              | 209             | 787             | 114                |
|                         | Kerisi                                 | 8,264           | 15                         | 585             | 1,153           | 5,468           | 1,043              |
|                         | Kerisi Bali                            | 447             | 0                          | 0               | 18              | 332             | 97                 |
|                         | Kikek                                  | 344             | 0                          | 0               | 124             | 215             | 5                  |
|                         | Malong                                 | 1,131           | 82                         | 547             | 258             | 222             | 22                 |
|                         | Merah                                  | 977             | 0                          | 7               | 79              | 752             | 139                |
|                         | Mengkerong/Conor/Ubi-Ubi               | 2,812           | 16                         | 179             | 558             | 1,659           | 400                |
|                         | Remong/Kunyit-Kunyit/Tanda             | 210             | 0                          | 6               | 29              | 159             | 16                 |
|                         | Semilang                               | 481             | 6                          | 39              | 65              | 336             | 35                 |
|                         | Shrumbu/Lemah                          | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Puntong Damar/Bulus                    | 277             | 58                         | 98              | 48              | 66              | 7                  |
|                         | Pasir-Pasir/Timun-Timun                | 19              | 0                          | 3               | 6               | 6               | 4                  |
| 34                      | Aku-Aku/Kacang-Kacang                  | 1,173           | 9                          | 103             | 319             | 634             | 108                |
|                         | Aruan Tasik                            | 91              | 0                          | 3               | 23              | 59              | 6                  |
|                         | Bawal                                  | 2,579           | 213                        | 728             | 905             | 687             | 46                 |
|                         | Belanak/Kedera                         | 406             | 56                         | 314             | 26              | 10              | 0                  |
|                         | Cemin/Sagai/Cupak                      | 459             | 1                          | 29              | 41              | 341             | 47                 |

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

|    |                               |         |        |        |        |         |        |
|----|-------------------------------|---------|--------|--------|--------|---------|--------|
|    | Cencaru                       | 1,481   | 30     | 144    | 593    | 651     | 63     |
|    | Demudok/Rambai                | 1,667   | 0      | 18     | 388    | 1,134   | 127    |
|    | Kurau/Senangin/Senohong       | 166     | 18     | 24     | 65     | 56      | 3      |
|    | Pelata/Selar                  | 2,288   | 9      | 138    | 652    | 1,394   | 95     |
|    | Selar Kuning/Lolong           | 1,931   | 1      | 19     | 395    | 1,359   | 157    |
|    | Selayang/Curut                | 712     | 1      | 0      | 144    | 534     | 33     |
|    | Pisang-Pisang                 | 57      | 0      | 0      | 43     | 11      | 3      |
|    | Talang                        | 217     | 1      | 27     | 101    | 87      | 1      |
| 35 | Bilis/Bunga Air               | 437     | 12     | 355    | 43     | 21      | 6      |
|    | Parang-Parang                 | 1,617   | 25     | 230    | 613    | 703     | 46     |
|    | Tamban                        | 1,081   | 39     | 264    | 536    | 227     | 15     |
|    | Bulan-Bulan                   | 4       | 0      | 0      | 2      | 2       | 0      |
| 36 | Aya/Kayu/Tongkol              | 0       | 0      | 0      | 0      | 0       | 0      |
|    | Layaran/Mersuji               | 0       | 0      | 0      | 0      | 0       | 0      |
| 37 | Kembong/Temenong/Pelaling     | 15,879  | 33     | 958    | 7,790  | 6,688   | 410    |
|    | Tenggiri                      | 1,358   | 5      | 118    | 483    | 704     | 48     |
|    | Timah/Layor/Selayor           | 2,003   | 44     | 98     | 554    | 1,079   | 228    |
| 38 | Pari                          | 3,135   | 216    | 870    | 521    | 1,323   | 205    |
|    | Yu                            | 796     | 1      | 80     | 247    | 430     | 38     |
| 39 | Ikan Baja                     | 157,371 | 6,828  | 36,488 | 43,346 | 62,779  | 7,930  |
|    | Ikan Campur                   | 8,001   | 498    | 1,445  | 809    | 4,089   | 1,160  |
|    | Jebong                        | 689     | 0      | 3      | 59     | 539     | 88     |
| 42 | Ketam                         | 2,248   | 328    | 1,120  | 522    | 270     | 8      |
| 45 | Udang Karang/Lobok            | 30      | 8      | 4      | 7      | 10      | 1      |
|    | Udang Putih/Kaki Merah        | 1,124   | 185    | 744    | 130    | 59      | 6      |
|    | Udang Minyak                  | 11,983  | 2,113  | 9,816  | 54     | 0       | 0      |
|    | Udang Merah Ros               | 292     | 117    | 169    | 6      | 0       | 0      |
|    | Udang Kulit Keras             | 1,808   | 768    | 1,025  | 15     | 0       | 0      |
|    | Udang Harimau                 | 205     | 24     | 86     | 42     | 48      | 5      |
|    | Lain-Lain Jenis Udang         | 18,999  | 3,219  | 14,265 | 1,452  | 61      | 2      |
|    | Udang Baring                  | 0       | 0      | 0      | 0      | 0       | 0      |
| 56 | Siput/Kepah/Kupang/Tiram      | 0       | 0      | 0      | 0      | 0       | 0      |
| 57 | Sotong Kereta                 | 363     | 29     | 200    | 81     | 53      | 0      |
|    | Sotong Katak                  | 4,102   | 142    | 830    | 1,081  | 1,777   | 272    |
|    | Sotong Biasa                  | 15,982  | 273    | 2,502  | 5,564  | 7,068   | 575    |
| 76 | Ubur-Ubur                     | 2,979   | 887    | 2,027  | 65     | 0       | 0      |
|    | Jumlah Tan M.<br>Total Tonnes | 298,852 | 16,832 | 79,962 | 75,682 | 112,207 | 14,169 |

JADUAL (TABLE) 4.7.2  
PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA  
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN JENIS IKAN, 1989  
FISHING EFFORTS AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1989

| ISSCAAP<br>GROUP<br>NO. | Usaha Menangkap Ikan<br>Fishing Effort | Jumlah<br>Total | Kelas Muatan/Tonnage Class |                 |                 |                 |                    |
|-------------------------|----------------------------------------|-----------------|----------------------------|-----------------|-----------------|-----------------|--------------------|
|                         |                                        |                 | 0-9.9<br>Tons              | 10-24.9<br>Tons | 25-39.9<br>Tons | 40-69.9<br>Tons | 70 Tons<br>& above |
|                         | Cumulative no. of fishing units        | 16,552          | 4,283                      | 7,116           | 2,024           | 2,035           | 1,094              |
|                         | Cumulative no. of trips                | 214,425         | 73,787                     | 118,536         | 13,381          | 7,618           | 1,103              |
|                         | Cumulative no. of days                 | 287,478         | 73,787                     | 125,730         | 39,760          | 37,436          | 10,765             |
|                         | Cumulative no. of hauls                | 826,170         | 205,703                    | 376,421         | 117,069         | 101,959         | 25,018             |
| 42                      | Jenis Ikan/Species:                    |                 |                            |                 |                 |                 |                    |
|                         | 24 Kebasi/Selangat                     | 74              | 34                         | 18              | 14              | 5               | 3                  |
|                         | Puput/B. Mata/Tirok                    | 57              | 2                          | 2               | 2               | 1               | 50                 |
|                         | Terubok                                | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | 25 Slakap                              | 7               | 0                          | 0               | 0               | 0               | 7                  |
|                         | 31 Lidah                               | 163             | 16                         | 51              | 46              | 33              | 17                 |
|                         | Sebelah                                | 464             | 23                         | 102             | 130             | 132             | 77                 |
|                         | 33 Bayan                               | 7               | 2                          | 2               | 1               | 1               | 1                  |
|                         | Biji Nangka                            | 1,476           | 10                         | 610             | 389             | 132             | 335                |
|                         | Daun Baharu                            | 77              | 4                          | 17              | 31              | 19              | 6                  |
|                         | Delah/Pinang-Pinang                    | 20              | 3                          | 3               | 4               | 3               | 7                  |
|                         | Duri/Pulutan/Utik                      | 1,675           | 38                         | 247             | 563             | 508             | 319                |
|                         | Dengkis/Debam                          | 252             | 1                          | 31              | 74              | 49              | 97                 |
|                         | Gelama/Tengkerong/Selampai             | 1,779           | 128                        | 778             | 486             | 269             | 118                |
|                         | Gerut-Gerut                            | 107             | 1                          | 20              | 41              | 6               | 39                 |
|                         | Jenahak                                | 2               | 0                          | 1               | 0               | 0               | 1                  |
|                         | Kad                                    | 195             | 10                         | 11              | 48              | 82              | 44                 |
|                         | Kerapu                                 | 525             | 13                         | 63              | 180             | 156             | 113                |
|                         | Kerisi                                 | 9,665           | 716                        | 1,402           | 4,217           | 2,039           | 1,291              |
|                         | Kerisi Bali                            | 409             | 0                          | 1               | 32              | 88              | 288                |
|                         | Kikek                                  | 533             | 27                         | 247             | 135             | 40              | 84                 |
|                         | Malong                                 | 99              | 2                          | 7               | 27              | 17              | 46                 |
|                         | Merah                                  | 764             | 2                          | 53              | 217             | 269             | 223                |
|                         | Mengkerong/Conor/Ubi-Ubi               | 628             | 12                         | 84              | 205             | 193             | 134                |
|                         | Remong/Kunyit-Kunyit/Tanda             | 1,134           | 58                         | 255             | 328             | 230             | 263                |
|                         | Semilang                               | 3               | 0                          | 0               | 1               | 2               | 0                  |
|                         | Shrumbu/Lemah                          | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Puntong Damar/Bulus                    | 667             | 127                        | 153             | 191             | 177             | 19                 |
|                         | Pasir-Pasir/Timun-Timun                | 484             | 98                         | 57              | 113             | 94              | 122                |
|                         | 34 Alu-Alu/Kacang-Kacang               | 518             | 1                          | 151             | 142             | 108             | 116                |
|                         | Aruan Tasik                            | 53              | 0                          | 4               | 15              | 15              | 19                 |
|                         | Bawal                                  | 146             | 41                         | 32              | 35              | 20              | 18                 |
|                         | Belanak/Kedera                         | 1               | 0                          | 0               | 0               | 0               | 1                  |
|                         | Cermin/Sagai/Cupak                     | 1,116           | 6                          | 227             | 404             | 245             | 234                |

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

|               |    |                           |         |        |        |        |        |        |
|---------------|----|---------------------------|---------|--------|--------|--------|--------|--------|
| 43            |    | Cencaru                   | 762     | 1      | 35     | 234    | 309    | 183    |
|               |    | Demudok/Rambai            | 108     | 2      | 13     | 34     | 12     | 47     |
|               |    | Kurau/Senangin/Senohong   | 1       | 0      | 0      | 0      | 1      | 0      |
|               |    | Pelata/Selar              | 999     | 39     | 138    | 323    | 260    | 239    |
|               |    | Selar Kuning/Lolong       | 5,122   | 680    | 545    | 1,441  | 1,595  | 861    |
|               |    | Selayang/Curut            | 331     | 15     | 2      | 180    | 26     | 108    |
|               |    | Pisang-Pisang             | 12      | 0      | 0      | 1      | 0      | 11     |
|               |    | Talang                    | 15      | 0      | 3      | 7      | 4      | 1      |
|               | 35 | Billis/Bunga Air          | 69      | 0      | 5      | 40     | 8      | 16     |
|               |    | Parang-Parang             | 266     | 44     | 52     | 61     | 63     | 46     |
|               |    | Tamban                    | 28      | 2      | 2      | 2      | 6      | 16     |
|               |    | Bulan-Bulan               | 3       | 0      | 1      | 0      | 0      | 2      |
|               | 36 | Aya/Kayu/Tongkol          | 10      | 2      | 0      | 0      | 5      | 3      |
|               |    | Layaran/Mersuji           | 13      | 4      | 2      | 3      | 3      | 1      |
|               | 37 | Kembong/Temenong/Pelaling | 569     | 13     | 19     | 203    | 170    | 164    |
|               |    | Tenggiri                  | 332     | 27     | 20     | 71     | 143    | 71     |
|               |    | Timah/Layor/Selayor       | 397     | 3      | 158    | 84     | 85     | 67     |
|               | 38 | Pari                      | 2,177   | 161    | 511    | 618    | 561    | 326    |
|               |    | Yu                        | 674     | 39     | 95     | 176    | 243    | 121    |
|               | 39 | Ikan Baja                 | 75,427  | 11,343 | 14,805 | 15,391 | 24,740 | 9,148  |
|               |    | Ikan Campur               | 6,536   | 165    | 1,465  | 1,037  | 1,968  | 1,901  |
|               |    | Jebong                    | 323     | 1      | 1      | 62     | 141    | 118    |
|               | 42 | Ketam                     | 1,083   | 393    | 298    | 175    | 176    | 41     |
|               | 45 | Udang Karang/Lobok        | 369     | 39     | 76     | 113    | 104    | 37     |
|               |    | Udang Putih/Kaki Merah    | 247     | 31     | 148    | 40     | 27     | 1      |
|               |    | Udang Minyak              | 703     | 369    | 266    | 36     | 30     | 2      |
|               |    | Udang Merah Ros           | 52      | 35     | 11     | 6      | 0      | 0      |
|               |    | Udang Kulit Keras         | 1,430   | 473    | 867    | 57     | 26     | 7      |
|               |    | Udang Harimau             | 215     | 64     | 84     | 42     | 25     | 0      |
|               |    | Lain-Lain Jenis Udang     | 2,457   | 388    | 1,434  | 333    | 292    | 10     |
|               |    | Udang Baring              | 0       | 0      | 0      | 0      | 0      | 0      |
|               | 56 | Siput/Kepah/Kupang/Tiram  | 0       | 0      | 0      | 0      | 0      | 0      |
|               | 57 | Sotong Kereta             | 14      | 0      | 0      | 0      | 0      | 14     |
|               |    | Sotong Katak              | 4,181   | 666    | 912    | 1,023  | 1,110  | 470    |
|               |    | Sotong Biasa              | 9,410   | 647    | 2,938  | 2,574  | 2,187  | 1,064  |
|               | 76 | Ubur-Ubur                 | 0       | 0      | 0      | 0      | 0      | 0      |
| Jumlah Tan M. |    |                           | 137,435 | 17,021 | 29,535 | 32,438 | 39,253 | 19,188 |
| Total Tonnes  |    |                           |         |        |        |        |        |        |

JADUAL (TABLE) 4.8

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA  
 USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1989  
 FISHING EFFORTS AND LANDINGS OF FISH PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1989

| ISSCAAP<br>GROUP | Usaha Menangkap Ikan<br>Fishing Effort | Jumlah<br>Total | Kelas Muatan/Tonnage Class |                 |                 |                 |                    |
|------------------|----------------------------------------|-----------------|----------------------------|-----------------|-----------------|-----------------|--------------------|
|                  |                                        |                 | 0-9.9<br>Tons              | 10-24.9<br>Tons | 25-39.9<br>Tons | 40-69.9<br>Tons | 70 Tons<br>& above |
| NO.              | Cumulative fishing units               | 5,399           | 96                         | 820             | 1,436           | 2,450           | 597                |
|                  | Cumulative no. of trips                | 71,883          | 1,808                      | 13,045          | 22,034          | 32,182          | 2,814              |
|                  | Cumulative no. of days                 | 95,459          | 1,808                      | 13,045          | 23,518          | 45,976          | 11,112             |
|                  | Cumulative no. of hauls                | 209,364         | 5,352                      | 37,200          | 52,235          | 94,065          | 20,512             |
| 24               | Jenis Ikan/Species:                    |                 |                            |                 |                 |                 |                    |
|                  | Kebasi/Selangat                        | 374             | 103                        | 0               | 260             | 11              | 0                  |
|                  | Puput/B. Mata/Tirok                    | 32              | 0                          | 0               | 1               | 31              | 0                  |
|                  | Terubok                                | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Slakap                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Lidah                                  | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Sebeilah                               | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | 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                    | 2               | 0                          | 0               | 1               | 1               | 0                  |
|                  | Duri/Pulutan/Utik                      | 51              | 0                          | 1               | 0               | 0               | 50                 |
|                  | Dengkis/Debam                          | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Gelama/Tengkerong/Selampai             | 8               | 0                          | 0               | 0               | 8               | 0                  |
|                  | Gerut-Gerut                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Jenahak                                | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Kaci                                   | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Kerapu                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Kerisi                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Kerisi Bali                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Kikek                                  | 7               | 0                          | 0               | 2               | 5               | 0                  |
|                  | Malong                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Merah                                  | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Mengkerong/Conor/Ubi-Ubi               | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Remong/Kunyit-Kunyit/Tanda             | 9               | 0                          | 4               | 5               | 0               | 0                  |
|                  | Semilang                               | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Shrumbu/Lemah                          | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Puntong Damar/Bulus                    | 98              | 0                          | 0               | 0               | 0               | 98                 |
|                  | Pasir-Pasir/Timun-Timun                | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                  | Alu-Alu/Kacang-Kacang                  | 69              | 0                          | 10              | 3               | 35              | 21                 |
|                  | Aruan Tasik                            | 122             | 0                          | 0               | 2               | 0               | 120                |
|                  | Bawal                                  | 471             | 0                          | 46              | 51              | 314             | 60                 |
|                  | Belanak/Kedera                         | 352             | 292                        | 24              | 36              | 0               | 0                  |
|                  | Cermin/Sagai/Cupak                     | 97              | 0                          | 11              | 33              | 45              | 8                  |

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

|    |                               |         |       |       |        |        |        |
|----|-------------------------------|---------|-------|-------|--------|--------|--------|
|    | Cencaru                       | 2,729   | 0     | 202   | 322    | 1,776  | 429    |
|    | Demudok/Rambai                | 320     | 0     | 58    | 122    | 140    | 0      |
|    | Kurau/Senangin/Senohong       | 0       | 0     | 0     | 0      | 0      | 0      |
|    | Pelata/Selar                  | 6,957   | 0     | 755   | 1,603  | 3,492  | 1,107  |
|    | Selar Kuning/Lolong           | 8,018   | 0     | 927   | 1,933  | 3,973  | 1,185  |
|    | Selayang/Curut                | 37,511  | 0     | 2,726 | 5,753  | 19,341 | 9,691  |
|    | Pisang-Pisang                 | 150     | 0     | 0     | 0      | 98     | 52     |
|    | Talang                        | 37      | 0     | 12    | 2      | 10     | 13     |
| 35 | Billis/Bunga Air              | 97      | 0     | 0     | 97     | 0      | 0      |
|    | Parang-Parang                 | 3       | 0     | 0     | 2      | 1      | 0      |
|    | Tamban                        | 10,846  | 0     | 1,029 | 3,415  | 5,674  | 728    |
|    | Bulan-Bulan                   | 0       | 0     | 0     | 0      | 0      | 0      |
| 36 | Aya/Kayu/Tongkol              | 6,121   | 0     | 407   | 823    | 3,459  | 1,432  |
|    | Layaran/Mersuji               | 0       | 0     | 0     | 0      | 0      | 0      |
| 37 | Kembong/Temenong/Pelaling     | 24,446  | 135   | 1,625 | 6,828  | 12,858 | 3,000  |
|    | Tenggiri                      | 421     | 0     | 18    | 64     | 324    | 15     |
|    | Timah/Layor/Selayor           | 11      | 0     | 4     | 2      | 4      | 1      |
| 38 | Pari                          | 0       | 0     | 0     | 0      | 0      | 0      |
|    | Yu                            | 2       | 0     | 0     | 0      | 2      | 0      |
| 39 | Ikan Baja                     | 5,565   | 698   | 371   | 1,584  | 2,011  | 901    |
|    | Ikan Campur                   | 5,380   | 0     | 355   | 1,442  | 2,627  | 956    |
|    | 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/Kaki Merah        | 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                  | 306     | 0     | 97    | 78     | 107    | 24     |
| 76 | Ubur-Ubur                     | 0       | 0     | 0     | 0      | 0      | 0      |
|    | Jumlah Tan M.<br>Total Tonnes | 110,612 | 1,228 | 8,682 | 24,464 | 56,347 | 19,891 |

JADUAL (TABLE) 4.8.1

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST PENINSULAR MALAYSIA  
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1989  
FISHING EFFORTS AND LANDINGS OF FISH PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1989

| ISSCAAP<br>GROUP<br>NO. | Usaha Menangkap Ikan<br>Fishing Effort | Jumlah<br>Total | Kelas Muatan/Tonnage Class |                 |                 |                 |                    |
|-------------------------|----------------------------------------|-----------------|----------------------------|-----------------|-----------------|-----------------|--------------------|
|                         |                                        |                 | 0-9.9<br>Tons              | 10-24.9<br>Tons | 25-39.9<br>Tons | 40-69.9<br>Tons | 70 Tons<br>& above |
|                         | Cumulative fishing units               | 2,303           | 96                         | 44              | 742             | 1,421           | 276                |
|                         | Cumulative No. of trips                | 32,870          | 1,808                      | 856             | 12,104          | 18,102          | 1,422              |
|                         | Cumulative No. of days                 | 43,754          | 1,808                      | 856             | 12,602          | 28,488          | 6,119              |
|                         | Cumulative No. of hauls                | 82,872          | 5,352                      | 2,496           | 22,096          | 52,928          | 9,192              |
|                         | Jenis Ikan/Species:                    |                 |                            |                 |                 |                 |                    |
| 24                      | Kebasi/Selangat                        | 374             | 103                        | 0               | 260             | 11              | 0                  |
|                         | Puput/B. Mata/Tirok                    | 32              | 0                          | 0               | 1               | 31              | 0                  |
|                         | Terubok                                | 0               | 0                          | 0               | 0               | 0               | 0                  |
| 25                      | Siakap                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
| 31                      | Lidah                                  | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Sebelah                                | 0               | 0                          | 0               | 0               | 0               | 0                  |
| 33                      | Bayan                                  | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Biji Nangka                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Daun Baharu                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Delah/Pinang-Pinang                    | 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             | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Gerut-Gerut                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Jenahak                                | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kaci                                   | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kerapu                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kerisi                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kerisi Bali                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kikek                                  | 2               | 0                          | 0               | 2               | 0               | 0                  |
|                         | Malong                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Merah                                  | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Mengkerong/Conor/Ubi-Ubi               | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Remong/Kunyit-Kunyit/Tanda             | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Semilang                               | 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                      | Aku-Aku/Kacang-Kacang                  | 48              | 0                          | 0               | 0               | 28              | 20                 |
|                         | Aruan Tasik                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Bawal                                  | 163             | 0                          | 0               | 16              | 122             | 25                 |
|                         | Belanak/Kedera                         | 349             | 292                        | 24              | 33              | 0               | 0                  |
|                         | Cemin/Sagai/Cupak                      | 0               | 0                          | 0               | 0               | 0               | 0                  |

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

|    |                               |        |       |     |       |        |       |
|----|-------------------------------|--------|-------|-----|-------|--------|-------|
|    | Cencaru                       | 1,867  | 0     | 0   | 138   | 1,344  | 385   |
|    | Demudok/Rambai                | 8      | 0     | 0   | 0     | 8      | 0     |
|    | Kurau/Senangin/Senohong       | 0      | 0     | 0   | 0     | 0      | 0     |
|    | Pelata/Selar                  | 2,175  | 0     | 0   | 198   | 1,528  | 449   |
|    | Selar Kuning/Lolong           | 1,035  | 0     | 0   | 6     | 718    | 311   |
|    | Selayang/Curut                | 12,899 | 0     | 0   | 1,252 | 7,827  | 3,820 |
|    | Pisang-Pisang                 | 125    | 0     | 0   | 0     | 73     | 52    |
|    | Talang                        | 15     | 0     | 0   | 0     | 2      | 13    |
| 35 | Bilis/Bunga Air               | 97     | 0     | 0   | 97    | 0      | 0     |
|    | Parang-Parang                 | 3      | 0     | 0   | 2     | 1      | 0     |
|    | Tamban                        | 2,416  | 0     | 9   | 736   | 1,291  | 380   |
|    | Bulan-Bulan                   | 0      | 0     | 0   | 0     | 0      | 0     |
| 36 | Aya/Kayu/Tongkol              | 3,384  | 0     | 0   | 218   | 2,726  | 440   |
|    | Layaran/Mersuji               | 0      | 0     | 0   | 0     | 0      | 0     |
| 37 | Kembong/Temenong/Pelaling     | 14,775 | 135   | 104 | 4,506 | 8,248  | 1,782 |
|    | Tenggiri                      | 87     | 0     | 0   | 1     | 72     | 14    |
|    | Timah/Layor/Selayor           | 1      | 0     | 0   | 0     | 1      | 0     |
| 38 | Pari                          | 0      | 0     | 0   | 0     | 0      | 0     |
|    | Yu                            | 0      | 0     | 0   | 0     | 0      | 0     |
| 39 | Ikan Baja                     | 5,358  | 698   | 232 | 1,584 | 2,004  | 840   |
|    | Ikan Campur                   | 134    | 0     | 0   | 56    | 47     | 31    |
|    | 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/Kaki Merah        | 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                  | 82     | 0     | 0   | 2     | 63     | 17    |
| 76 | Ubur-Ubur                     | 0      | 0     | 0   | 0     | 0      | 0     |
|    | Jumlah Tan M.<br>Total Tonnes | 45,429 | 1,228 | 369 | 9,108 | 26,145 | 8,579 |

JADUAL (TABLE) 4.8.2

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST PENINSULAR MALAYSIA  
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1989  
FISHING EFFORTS AND LANDINGS OF FISH PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1989

| ISSCAAP<br>GROUP<br>NO. | Usaha Menangkap Ikan<br>Fishing Effort | Jumlah<br>Total | Kelas Muatan/Tonnage Class |                 |                 |                 |                    |
|-------------------------|----------------------------------------|-----------------|----------------------------|-----------------|-----------------|-----------------|--------------------|
|                         |                                        |                 | 0-9.9<br>Tons              | 10-24.9<br>Tons | 25-39.9<br>Tons | 40-69.9<br>Tons | 70 Tons<br>& above |
|                         | Cumulative fishing units               | 2,820           | 0                          | 776             | 694             | 1,029           | 321                |
|                         | Cumulative no. of trips                | 37,591          | 0                          | 12,189          | 9,930           | 14,080          | 1,392              |
|                         | Cumulative no. of days                 | 45,586          | 0                          | 12,189          | 10,916          | 17,488          | 4,993              |
|                         | Cumulative no. of hauls                | 117,300         | 0                          | 34,704          | 30,139          | 41,137          | 11,320             |
|                         | Jenis Ikan/Species:                    |                 |                            |                 |                 |                 |                    |
| 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                      | Slakap                                 | 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                  |
|                         | Blji Nangka                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Daun Baharu                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Delah/Pinang-Pinang                    | 2               | 0                          | 0               | 1               | 1               | 0                  |
|                         | Duri/Pulutan/Utik                      | 51              | 0                          | 1               | 0               | 0               | 50                 |
|                         | Dengkis/Debam                          | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Gelama/Tengkerong/Selampai             | 8               | 0                          | 0               | 0               | 8               | 0                  |
|                         | Gerut-Gerut                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Jenahak                                | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kaci                                   | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kerapu                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kerisi                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kerisi Bali                            | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Kkek                                   | 5               | 0                          | 0               | 0               | 5               | 0                  |
|                         | Malong                                 | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Merah                                  | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Mengkerong/Conor/Ubi-Ubi               | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Remong/Kunyit-Kunyit/Tanda             | 9               | 0                          | 4               | 5               | 0               | 0                  |
|                         | Semilang                               | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Shrumbu/Lemah                          | 0               | 0                          | 0               | 0               | 0               | 0                  |
|                         | Puntong Damar/Bulus                    | 98              | 0                          | 0               | 0               | 0               | 98                 |
|                         | Pasir-Pasir/Timun-Timun                | 0               | 0                          | 0               | 0               | 0               | 0                  |
| 34                      | Aku-Alu/Kacang-Kacang                  | 21              | 0                          | 10              | 3               | 7               | 1                  |
|                         | Aruan Tasik                            | 122             | 0                          | 0               | 2               | 0               | 120                |
|                         | Bawal                                  | 308             | 0                          | 46              | 35              | 192             | 35                 |
|                         | Belanak/Kedera                         | 3               | 0                          | 0               | 3               | 0               | 0                  |
|                         | Cermin/Sagai/Cupak                     | 97              | 0                          | 11              | 33              | 45              | 8                  |

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

|    |                               |        |   |       |        |        |        |
|----|-------------------------------|--------|---|-------|--------|--------|--------|
|    | Cencaru                       | 862    | 0 | 202   | 184    | 432    | 44     |
|    | Demudok/Rambai                | 312    | 0 | 58    | 122    | 132    | 0      |
|    | Kurau/Senangin/Senohong       | 0      | 0 | 0     | 0      | 0      | 0      |
|    | Pelata/Selar                  | 4,782  | 0 | 755   | 1,405  | 1,964  | 658    |
|    | Selar Kuning/Lolong           | 6,983  | 0 | 927   | 1,927  | 3,255  | 874    |
|    | Selayang/Curut                | 24,612 | 0 | 2,726 | 4,501  | 11,514 | 5,871  |
|    | Pisang-Pisang                 | 25     | 0 | 0     | 0      | 25     | 0      |
|    | Talang                        | 22     | 0 | 12    | 2      | 8      | 0      |
| 35 | Billis/Bunga Air              | 0      | 0 | 0     | 0      | 0      | 0      |
|    | Parang-Parang                 | 0      | 0 | 0     | 0      | 0      | 0      |
|    | Tamban                        | 8,430  | 0 | 1,020 | 2,679  | 4,383  | 348    |
|    | Bulan-Bulan                   | 0      | 0 | 0     | 0      | 0      | 0      |
| 36 | Aya/Kayu/Tongkol              | 2,737  | 0 | 407   | 605    | 733    | 992    |
|    | Layaran/Mersuji               | 0      | 0 | 0     | 0      | 0      | 0      |
| 37 | Kembong/Temenong/Pelaling     | 9,671  | 0 | 1,521 | 2,322  | 4,610  | 1,218  |
|    | Tenggiri                      | 334    | 0 | 18    | 63     | 252    | 1      |
|    | Timah/Layor/Selayor           | 10     | 0 | 4     | 2      | 3      | 1      |
| 38 | Pari                          | 0      | 0 | 0     | 0      | 0      | 0      |
|    | Yu                            | 2      | 0 | 0     | 0      | 2      | 0      |
| 39 | Ikan Baja                     | 207    | 0 | 139   | 0      | 7      | 61     |
|    | Ikan Campur                   | 5,246  | 0 | 355   | 1,386  | 2,580  | 925    |
|    | 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/Kaki Merah        | 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                  | 224    | 0 | 97    | 76     | 44     | 7      |
| 76 | Ubur-Ubur                     | 0      | 0 | 0     | 0      | 0      | 0      |
|    | Jumlah Tan M.<br>Total Tonnes | 65,183 | 0 | 8,313 | 15,356 | 30,202 | 11,312 |

SEMANJUNG MALAYSIA/PENINSULAR MALAYSIA  
 USAHA MENANGKAP IKAN: BILANGAN TRIP MENANGKAP IKAN MENGIKUT JENIS PERKAKAS DAN NEGERI DALAM TAHUN, 1989  
 FISHING EFFORT: NUMBER OF TRIPS BY TYPE OF GEAR AND BY STATE IN 1989

JADUAL (TABLE) 5.1

| Jenis<br>Perkakas<br><br>Type of Gear | Pukat Tunda<br>Trawl Nets |                |                |                |                   | Pukat Tarik (Seine Nets)             |                |                |                |                   |                                          |                |                |                |                   | Perangkap-<br>Perangkap<br>Traps |              | Pancing                       | Pukat<br>Bekul   | Pukat<br>Rentang | Pukat<br>Surung | Memungut<br>Sliput | Rampalan               |                                                    |                         |                    |
|---------------------------------------|---------------------------|----------------|----------------|----------------|-------------------|--------------------------------------|----------------|----------------|----------------|-------------------|------------------------------------------|----------------|----------------|----------------|-------------------|----------------------------------|--------------|-------------------------------|------------------|------------------|-----------------|--------------------|------------------------|----------------------------------------------------|-------------------------|--------------------|
|                                       |                           |                |                |                |                   | Pukat Jerut Ikan<br>Purse Seine-Fish |                |                |                |                   | Pukat Jerut Bilis<br>Purse Seine Anchovy |                |                |                |                   |                                  |              |                               |                  |                  |                 |                    |                        | Lain-<br>Lain<br>Pukat<br>Tarik<br>Other<br>Seines |                         |                    |
| Negeri/State                          | 0-9.9<br>GRT              | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                         | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                             | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | Drift/<br>Gill<br>Nets           | Lift<br>Nets | Belat-<br>Belat<br>Stationary | Bubu<br>Portable | Hooks &<br>Lines | Bag<br>Nets     | Barrier<br>Nets    | Push/<br>Scoop<br>Nets |                                                    | Shellfish<br>Collection | Miscella-<br>neous |
| Perlis                                | 18484                     | 31036          | 7129           | 0              | 0                 | 0                                    | 0              | 5127           | 3802           | 1432              | 0                                        | 0              | 0              | 0              | 0                 | 1176                             | 57171        | 0                             | 834              | 0                | 807             | 0                  | 1551                   | 1210                                               | 1184                    | 635                |
| Kedah                                 | 21742                     | 42327          | 30240          | 23673          | 102               | 0                                    | 0              | 0              | 3406           | 192               | 0                                        | 0              | 0              | 5362           | 13828             | 8892                             | 241708       | 0                             | 0                | 0                | 4283            | 15300              | 2180                   | 464                                                | 0                       | 12627              |
| P.Pinang/<br>Penang                   | 0                         | 0              | 21080          | 2159           | 510               | 0                                    | 960            | 3458           | 1968           | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 27651                            | 423318       | 0                             | 0                | 2290             | 10474           | 40275              | 32014                  | 1881                                               | 2479                    | 3892               |
| Perak                                 | 78626                     | 343947         | 33900          | 32067          | 1408              | 1848                                 | 0              | 1519           | 14569          | 89                | 0                                        | 0              | 0              | 8352           | 0                 | 125585                           | 385730       | 0                             | 0                | 8917             | 47431           | 13804              | 16132                  | 33416                                              | 4480                    | 34134              |
| Selangor                              | 83779                     | 119970         | 38629          | 14522          | 455               | 0                                    | 0              | 1824           | 2850           | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 2362                             | 193906       | 0                             | 1428             | 799              | 9227            | 25496              | 4058                   | 2718                                               | 273                     | 836                |
| N.Sembilan                            | 0                         | 0              | 0              | 0              | 0                 | 0                                    | 0              | 0              | 0              | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 1022                             | 27908        | 0                             | 0                | 795              | 987             | 0                  | 0                      | 0                                                  | 0                       | 488                |
| Malaka/<br>Malacca                    | 0                         | 0              | 0              | 0              | 0                 | 0                                    | 0              | 0              | 0              | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 1139                             | 130880       | 0                             | 580              | 0                | 16466           | 0                  | 64                     | 31546                                              | 0                       | 0                  |
| Johor Barat/<br>West Johore           | 27493                     | 60476          | 701            | 0              | 1091              | 0                                    | 0              | 0              | 0              | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 1712                             | 217728       | 0                             | 4620             | 578              | 1690            | 9031               | 64                     | 25202                                              | 0                       | 0                  |
| Kelantan                              | 0                         | 37502          | 602            | 0              | 87                | 0                                    | 0              | 553            | 832            | 203               | 0                                        | 0              | 0              | 0              | 0                 | 0                                | 57181        | 2430                          | 2676             | 575              | 25830           | 0                  | 0                      | 0                                                  | 0                       | 0                  |
| Terengganu                            | 6616                      | 41593          | 2359           | 299            | 288               | 0                                    | 9051           | 734            | 5094           | 762               | 549                                      | 3859           | 0              | 0              | 0                 | 0                                | 42296        | 5319                          | 0                | 15423            | 83429           | 180                | 0                      | 0                                                  | 0                       | 0                  |
| Pahang                                | 35176                     | 13102          | 9299           | 4197           | 945               | 0                                    | 0              | 6967           | 3851           | 1168              | 0                                        | 1170           | 621            | 0              | 0                 | 59                               | 27614        | 2270                          | 0                | 7591             | 17752           | 0                  | 0                      | 0                                                  | 0                       | 0                  |
| Johor Timur/<br>East Johore           | 21669                     | 13178          | 4410           | 14911          | 6036              | 0                                    | 1584           | 1678           | 3789           | 198               | 0                                        | 0              | 0              | 0              | 0                 | 528                              | 68442        | 202                           | 5966             | 918              | 21789           | 40065              | 0                      | 0                                                  | 0                       | 70                 |

\* GRT - Gross Relative Tonnage

JADUAL (TABLE) 5.2

SEMIANJUNG MALAYSIA/PENINSULAR MALAYSIA  
 USAHA MENANGKAP IKAN: BILANGAN HARI MENANGKAP IKAN MENGIKUT JENIS PERKAKAS DAN NEGERI DALAM TAHUN, 1989  
 FISHING EFFORT: NUMBER OF FISHING DAYS BY TYPE OF GEAR AND BY STATE IN 1989

| Jenis Perakasan<br>Type of Gear | Pukat Tunda<br>Trawl Nets |                |                |                |                   | Pukat Tarik (Seine Nets)             |                |                |                |                   |                                          |                |                |                |                   | Pukat Hanyut<br>Drift/Gill Nets | Pukat Tangguk<br>Lift Nets | Perangkap-Perangkap Trape                |                           | Pancing<br>Hooks & Lines | Pukat Bekul<br>Bag Nets | Pukat Rentang<br>Barrier Nets | Pukat Surung<br>Push/Scoop Nets | Memungut Siput<br>Shellfish Collection | Rampalan<br>Miscellaneous |                  |                           |
|---------------------------------|---------------------------|----------------|----------------|----------------|-------------------|--------------------------------------|----------------|----------------|----------------|-------------------|------------------------------------------|----------------|----------------|----------------|-------------------|---------------------------------|----------------------------|------------------------------------------|---------------------------|--------------------------|-------------------------|-------------------------------|---------------------------------|----------------------------------------|---------------------------|------------------|---------------------------|
|                                 |                           |                |                |                |                   | Pukat Jerut Ikan<br>Purse Seine-Fish |                |                |                |                   | Pukat Jerut Bilis<br>Purse Seine Anchovy |                |                |                |                   |                                 |                            | Lain-Lain<br>Pukat Tarik<br>Other Seines | Belat-Belat<br>Stationary |                          |                         |                               |                                 |                                        |                           | Bubu<br>Portable |                           |
|                                 | 0-9.9<br>GRT              | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                         | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                             | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | Drift/Gill<br>Nets              |                            |                                          |                           |                          |                         |                               |                                 |                                        |                           |                  | Belat-Belat<br>Stationary |
| Negeri/State                    | 0-9.9<br>GRT              | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                         | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                             | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | Pukat Tarik<br>Other Seines     |                            |                                          |                           |                          |                         |                               |                                 |                                        |                           |                  |                           |
| Perlis                          | 24,208                    | 123,884        | 12,554         | 0              | 0                 | 0                                    | 0              | 8,190          | 13,382         | 5,823             | 0                                        | 0              | 0              | 0              | 0                 | 1,385                           | 100,055                    | 0                                        | 1,205                     | 0                        | 2,217                   | 0                             | 2,076                           | 730                                    | 0                         | 685              |                           |
| Kedah                           | 22,630                    | 54,883         | 47,964         | 29,575         | 258               | 0                                    | 0              | 0              | 2,640          | 1,920             | 0                                        | 0              | 0              | 4,925          | 13,516            | 11,013                          | 241,708                    | 4,260                                    | 0                         | 0                        | 14,613                  | 14,940                        | 6,439                           | 0                                      | 199                       | 13,032           |                           |
| P.Pinang/<br>Penang             | 0                         | 0              | 21,405         | 988            | 2,040             | 0                                    | 938            | 3,193          | 2,816          | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 39,290                          | 423,318                    | 0                                        | 0                         | 2,481                    | 9,217                   | 20,280                        | 0                               | 5,793                                  | 2,287                     | 3,235            |                           |
| Perak                           | 74,736                    | 337,838        | 28,325         | 64,587         | 13,169            | 1,808                                | 0              | 1,001          | 8,932          | 1,040             | 0                                        | 0              | 0              | 4,277          | 0                 | 10,530                          | 385,730                    | 0                                        | 0                         | 13,247                   | 53,725                  | 12,376                        | 16,280                          | 34,010                                 | 7,918                     | 32,790           |                           |
| Selangor                        | 88,074                    | 102,924        | 42,015         | 16,040         | 4,280             | 0                                    | 0              | 498            | 936            | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 2,708                           | 195,253                    | 0                                        | 1,212                     | 2,907                    | 11,591                  | 29,862                        | 3,591                           | 5,812                                  | 834                       | 7,477            |                           |
| N.Sembilan                      | 0                         | 0              | 0              | 0              | 0                 | 0                                    | 0              | 0              | 0              | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 787                             | 27,716                     | 0                                        | 0                         | 534                      | 828                     | 0                             | 0                               | 0                                      | 0                         | 509              |                           |
| Malaka/<br>Malacca              | 0                         | 0              | 0              | 0              | 0                 | 0                                    | 0              | 0              | 0              | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 1,139                           | 132,498                    | 0                                        | 506                       | 0                        | 19,748                  | 0                             | 91                              | 28,067                                 | 0                         | 0                |                           |
| Johor Barat/<br>West Johore     | 24,433                    | 59,355         | 507            | 0              | 0                 | 0                                    | 0              | 0              | 0              | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 1,119                           | 220,913                    | 0                                        | 2,716                     | 3,578                    | 1,786                   | 6,006                         | 38                              | 25,428                                 | 0                         | 1,370            |                           |
| Kelantan                        | 0                         | 48,803         | 4,094          | 0              | 688               | 0                                    | 0              | 1,251          | 2,340          | 1,007             | 0                                        | 0              | 0              | 0              | 0                 | 0                               | 56,687                     | 3,399                                    | 0                         | 1,922                    | 40,344                  | 0                             | 180                             | 0                                      | 0                         | 0                |                           |
| Terengganu                      | 4,424                     | 45,570         | 8,225          | 1,418          | 1,354             | 0                                    | 10,813         | 8,140          | 6,648          | 3,180             | 370                                      | 3,844          | 0              | 0              | 0                 | 0                               | 42,296                     | 6,422                                    | 0                         | 31,347                   | 172,784                 | 0                             | 0                               | 0                                      | 0                         | 0                |                           |
| Pahang                          | 50,158                    | 21,086         | 10,756         | 9,625          | 5,983             | 0                                    | 0              | 365            | 3,733          | 4,550             | 0                                        | 345            | 359            | 0              | 0                 | 0                               | 27,499                     | 3,504                                    | 0                         | 9,717                    | 24,282                  | 0                             | 0                               | 0                                      | 0                         | 0                |                           |
| Johor Timur/<br>East Johore     | 19,205                    | 17,371         | 18,685         | 28,393         | 3,970             | 0                                    | 1,296          | 880            | 4,539          | 3,640             | 0                                        | 0              | 0              | 0              | 0                 | 0                               | 72,972                     | 358                                      | 5,624                     | 2,118                    | 22,800                  | 22,467                        | 54                              | 0                                      | 0                         | 267              |                           |

\* GRT - Gross Relative Tonnage

SEMIJANG MALAYSIA/PENINSULAR MALAYSIA  
USAHA MENANGKAP IKAN: BILANGAN KALI MEMUKAT IKAN MENGIKUT JENIS PERKAKAS DAN NEGERI DALAM TAHUN, 1989  
FISHING EFFORT: NUMBER OF HAULS BY TYPE OF GEAR AND BY STATE IN 1989

JADUAL (TABLE) 5.3

52

| Jenis Perakas<br>Type of Gear | Pukat Tunda<br>Trawl Nets |                |                |                |                   | Pukat Tarik (Seine Nets)             |                |                |                |                   |                                          |                |                |                |                   | Pukat Hanyut<br>Drift<br>Gill Nets | Pukat Tangguk<br>Lift<br>Nets | Perangkap-<br>Perangkap<br>Traps                   |                               | Pancing<br>Hooks &<br>Lines | Pukat Bekul<br>Bag<br>Nets | Pukat Rentang<br>Barrier<br>Nets | Pukat Surung<br>Push/<br>Scoop<br>Nets | Memungut<br>Stiput<br>Shellfish<br>Collection | Rampasan<br>Miscelle-<br>neous |                  |            |
|-------------------------------|---------------------------|----------------|----------------|----------------|-------------------|--------------------------------------|----------------|----------------|----------------|-------------------|------------------------------------------|----------------|----------------|----------------|-------------------|------------------------------------|-------------------------------|----------------------------------------------------|-------------------------------|-----------------------------|----------------------------|----------------------------------|----------------------------------------|-----------------------------------------------|--------------------------------|------------------|------------|
|                               |                           |                |                |                |                   | Pukat Jerut Ikan<br>Purse Seine-Fish |                |                |                |                   | Pukat Jerut Bilis<br>Purse Seine Anchovy |                |                |                |                   |                                    |                               | Lain-<br>Lain<br>Pukat<br>Tarik<br>Other<br>Seines | Belat-<br>Belat<br>Stationary |                             |                            |                                  |                                        |                                               |                                | Bubu<br>Portable |            |
|                               | 0-9.9<br>GRT              | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                         | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                             | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above |                                    |                               |                                                    |                               |                             |                            |                                  |                                        |                                               |                                |                  | Stationary |
| Negeri/State                  | 0-9.9<br>GRT              | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                         | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | 0-9.9<br>GRT                             | 10-24.9<br>GRT | 25-39.9<br>GRT | 40-69.9<br>GRT | 70 GRT<br>& above | Other<br>Seines                    |                               |                                                    |                               |                             |                            |                                  |                                        |                                               |                                |                  |            |
| Perlis                        | 73,637                    | 259,405        | 38,710         | 0              | 0                 | 0                                    | 0              | 12,714         | 22,044         | 8,681             | 0                                        | 0              | 0              | 0              | 0                 | 1,365                              | 216,864                       | 0                                                  | 2,105                         | 0                           | 0                          | 0                                | 2,076                                  | 730                                           | 0                              | 0                |            |
| Kedah                         | 67,880                    | 188,778        | 188,088        | 95,370         | 774               | 0                                    | 0              | 0              | 5,500          | 447               | 0                                        | 0              | 0              | 13,217         | 36,128            | 98,322                             | 484,324                       | 9,060                                              | 0                             | 0                           | 0                          | 29,880                           | 6,499                                  | 0                                             | 0                              | 0                |            |
| P.Pinang/<br>Penang           | 0                         | 0              | 64,215         | 2,984          | 582               | 0                                    | 2,736          | 7,258          | 5,534          | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 750,780                            | 1,021,868                     | 0                                                  | 0                             | 2,218                       | 0                          | 60,840                           | 0                                      | 57,658                                        | 0                              | 0                |            |
| Perak                         | 226,244                   | 1,083,778      | 100,837        | 232,188        | 34,195            | 5,352                                | 0              | 1,851          | 18,149         | 114               | 0                                        | 0              | 0              | 34,828         | 0                 | 177,355                            | 784,649                       | 0                                                  | 0                             | 0                           | 0                          | 12,376                           | 21,682                                 | 192,536                                       | 0                              | 0                |            |
| Selangor                      | 217,063                   | 254,238        | 122,948        | 54,920         | 1,235             | 0                                    | 0              | 1,173          | 2,157          | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 26,258                             | 751,672                       | 0                                                  | 2,424                         | 4,607                       | 0                          | 118,732                          | 4,033                                  | 82,334                                        | 0                              | 0                |            |
| N.Sembilan                    | 0                         | 0              | 0              | 0              | 0                 | 0                                    | 0              | 0              | 0              | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 0                                  | 70,928                        | 0                                                  | 0                             | 2,734                       | 0                          | 0                                | 0                                      | 0                                             | 0                              | 0                |            |
| Malaka/<br>Malacca            | 0                         | 0              | 0              | 0              | 0                 | 0                                    | 0              | 0              | 0              | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 0                                  | 257,759                       | 0                                                  | 506                           | 0                           | 0                          | 0                                | 91                                     | 24,216                                        | 0                              | 0                |            |
| Johor Barat/<br>West Johore   | 61,903                    | 177,722        | 1,014          | 0              | 0                 | 0                                    | 0              | 0              | 0              | 0                 | 0                                        | 0              | 0              | 0              | 0                 | 7,884                              | 678,500                       | 0                                                  | 3,794                         | 595                         | 0                          | 7,789                            | 38                                     | 14,781                                        | 0                              | 0                |            |
| Kelantan                      | 0                         | 143,989        | 10,851         | 0              | 1,881             | 0                                    | 0              | 2,152          | 3,519          | 1,326             | 0                                        | 0              | 0              | 0              | 0                 | 0                                  | 188,567                       | 10,572                                             | 0                             | 35                          | 0                          | 0                                | 540                                    | 0                                             | 0                              | 0                |            |
| Terengganu                    | 13,722                    | 140,861        | 28,029         | 3,823          | 4,001             | 0                                    | 32,439         | 24,705         | 19,485         | 9,466             | 1,165                                    | 11,895         | 0              | 0              | 0                 | 0                                  | 77,872                        | 19,784                                             | 0                             | 0                           | 0                          | 0                                | 0                                      | 0                                             | 0                              | 0                |            |
| Pahang                        | 134,388                   | 52,000         | 27,534         | 21,608         | 12,083            | 0                                    | 0              | 1,095          | 10,209         | 249               | 0                                        | 937            | 1,013          | 0              | 0                 | 0                                  | 65,004                        | 10,512                                             | 0                             | 300                         | 0                          | 0                                | 0                                      | 0                                             | 0                              | 0                |            |
| Johor Timur/<br>East Johore   | 57,815                    | 55,091         | 50,855         | 76,530         | 9,558             | 0                                    | 2,025          | 1,487          | 7,468          | 377               | 0                                        | 0              | 0              | 0              | 0                 | 0                                  | 263,048                       | 1,526                                              | 32,925                        | 0                           | 0                          | 22,487                           | 324                                    | 0                                             | 0                              | 0                |            |

\* GRT - Gross Relative Tonnage

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA  
HARGA PURATA IKAN DI PANTAI MENGIKUT BULAN, 1989  
MONTHLY AVERAGE EX-VESSEL PRICES OF FRESH FISH, 1989  
(Harga Dalam \$/Kg/Prices At \$/Kg)

JADUAL (TABLE) 6.1

| Jenis-Jenis Ikan<br>Species | Januari<br>January | Februari<br>February | Mac<br>March | April<br>April | Mei<br>May | Jun<br>June | Julai<br>July | Ogos<br>August | Septembe<br>September | Oktober<br>October | November<br>November | Disember<br>December | Purata 1989<br>Average 1989 |
|-----------------------------|--------------------|----------------------|--------------|----------------|------------|-------------|---------------|----------------|-----------------------|--------------------|----------------------|----------------------|-----------------------------|
| Bawal Putih                 | 7.44               | 11.81                | 10.30        | 8.90           | 9.52       | 10.84       | 9.03          | 8.83           | 7.58                  | 10.04              | 7.91                 | 9.93                 | 9.34                        |
| Bawal Hitam                 | 5.50               | 4.94                 | 4.93         | 4.79           | 5.39       | 4.57        | 4.64          | 4.66           | 4.87                  | 4.59               | 4.67                 | 5.24                 | 4.90                        |
| Kerapu                      | 5.20               | 5.45                 | 5.47         | 5.91           | 5.50       | 5.49        | 5.70          | 5.25           | 5.19                  | 5.25               | 5.22                 | 5.29                 | 5.41                        |
| Tenggiri                    | 5.26               | 5.03                 | 4.94         | 4.96           | 4.73       | 4.92        | 4.65          | 4.49           | 5.00                  | 4.92               | 5.15                 | 4.84                 | 4.91                        |
| Jenahak                     | 4.03               | 5.67                 | 5.38         | 5.47           | 5.22       | 4.50        | 5.86          | 5.69           | 4.97                  | 5.22               | 5.12                 | 5.35                 | 5.21                        |
| Merah                       | 4.33               | 3.63                 | 3.68         | 3.53           | 3.65       | 3.67        | 3.10          | 3.43           | 3.53                  | 3.09               | 3.59                 | 3.89                 | 3.59                        |
| Kaci                        | 1.14               | 2.15                 | 2.26         | 2.30           | 2.27       | 1.99        | 1.65          | 1.69           | 2.12                  | 2.21               | 2.01                 | 2.38                 | 2.01                        |
| Cermin                      | 2.18               | 1.98                 | 2.54         | 2.98           | 2.44       | 2.41        | 2.32          | 2.18           | 2.99                  | 2.50               | 2.31                 | 2.92                 | 2.48                        |
| Gelama                      | 1.14               | 0.98                 | 0.97         | 0.89           | 0.85       | 0.98        | 0.83          | 1.08           | 0.99                  | 0.93               | 0.92                 | 0.88                 | 0.95                        |
| Kembong                     | 1.67               | 1.45                 | 1.66         | 1.55           | 1.59       | 2.12        | 1.79          | 1.71           | 1.51                  | 1.39               | 1.32                 | 1.32                 | 1.59                        |
| Kerisi                      | 1.93               | 1.73                 | 1.56         | 1.58           | 1.46       | 1.61        | 1.43          | 1.43           | 1.65                  | 1.50               | 1.48                 | 1.48                 | 1.57                        |
| Selayang                    | 0.76               | 0.76                 | 0.69         | 0.65           | 0.66       | 0.62        | 0.69          | 0.79           | 0.86                  | 0.58               | 0.75                 | 0.74                 | 0.71                        |
| Tamban                      | 0.23               | 0.44                 | 0.35         | 0.29           | 0.34       | 0.28        | 0.34          | 2.87           | 0.36                  | 0.28               | 0.28                 | 0.25                 | 0.53                        |
| Selar/Pelata                | 1.28               | 1.12                 | 1.16         | 1.30           | 1.35       | 1.34        | 1.19          | 1.32           | 1.39                  | 1.13               | 1.35                 | 1.47                 | 1.28                        |
| Sotong                      | 1.69               | 1.74                 | 1.69         | 1.77           | 1.84       | 1.79        | 1.93          | 1.78           | 1.84                  | 1.65               | 1.73                 | 1.80                 | 1.77                        |
| Aya/Tongkol                 | 1.48               | 1.20                 | 0.87         | 0.79           | 0.90       | 1.16        | 0.97          | 1.00           | 1.13                  | 1.30               | 1.21                 | 1.14                 | 1.10                        |
| Udang Putih                 | 19.51              | 19.16                | 19.50        | 19.27          | 18.68      | 16.33       | 16.51         | 16.19          | 16.35                 | 15.77              | 15.79                | 16.31                | 17.45                       |
| Udang Harimau               | 18.15              | 20.36                | 19.61        | 18.72          | 18.01      | 16.43       | 18.38         | 17.62          | 17.76                 | 16.96              | 16.77                | 17.20                | 18.00                       |
| Lain-Lain Udang             | 2.21               | 2.40                 | 2.32         | 2.28           | 2.34       | 2.32        | 2.29          | 2.41           | 2.83                  | 2.90               | 2.99                 | 2.42                 | 2.48                        |

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA  
HARGA BORONG PURATA IKAN BASAH DI PASAR MENGIKUT BULAN, 1989  
MONTHLY AVERAGE WHOLESALE PRICES OF FRESH FISH AT MARKET, 1989  
(Harga Dalam \$/Kg/Prices At \$/Kg)

JADUAL (TABLE) 6.2

| Jenis-Jenis Ikan<br>Species | Januari<br>January | Februari<br>February | Mac<br>March | April<br>April | Mei<br>May | Jun<br>June | Julai<br>July | Ogos<br>August | September<br>September | Oktober<br>October | November<br>November | Disember<br>December | Purata 1989<br>Average 1989 |
|-----------------------------|--------------------|----------------------|--------------|----------------|------------|-------------|---------------|----------------|------------------------|--------------------|----------------------|----------------------|-----------------------------|
| Bawal Putih                 | 7.66               | 13.27                | 10.27        | 9.80           | 10.41      | 10.51       | 9.94          | 9.24           | 10.82                  | 10.06              | 10.39                | 10.40                | 10.23                       |
| Bawal Hitam                 | 6.03               | 5.37                 | 5.54         | 5.82           | 6.04       | 5.27        | 5.14          | 5.26           | 5.42                   | 5.10               | 5.61                 | 5.07                 | 5.47                        |
| Kerapu                      | 5.89               | 6.15                 | 6.43         | 7.49           | 6.04       | 6.08        | 6.50          | 6.11           | 6.43                   | 6.41               | 6.58                 | 6.71                 | 6.40                        |
| Tenggiri                    | 5.93               | 5.96                 | 5.31         | 5.77           | 5.68       | 5.41        | 5.50          | 5.91           | 5.76                   | 5.96               | 5.76                 | 5.66                 | 5.72                        |
| Jenahak                     | 4.46               | 6.48                 | 6.30         | 5.94           | 5.86       | 5.42        | 6.57          | 5.94           | 5.51                   | 5.96               | 5.86                 | 5.92                 | 5.85                        |
| Merah                       | 4.85               | 4.23                 | 4.40         | 4.10           | 4.17       | 4.36        | 4.14          | 4.14           | 4.10                   | 4.04               | 4.59                 | 4.96                 | 4.34                        |
| Kaci                        | 1.45               | 2.86                 | 3.26         | 2.74           | 2.45       | 2.41        | 2.39          | 2.62           | 2.57                   | 2.87               | 2.92                 | 3.22                 | 2.65                        |
| Germin                      | 2.89               | 2.17                 | 3.26         | 3.40           | 2.20       | 2.83        | 3.00          | 3.08           | 3.38                   | 2.99               | 2.92                 | 3.86                 | 3.00                        |
| Gelama                      | 1.74               | 1.47                 | 1.45         | 1.54           | 1.47       | 1.51        | 1.25          | 1.33           | 1.35                   | 1.43               | 1.25                 | 1.35                 | 1.43                        |
| Kembong                     | 2.17               | 2.01                 | 2.22         | 2.28           | 2.06       | 1.92        | 2.16          | 2.12           | 1.99                   | 2.05               | 1.86                 | 1.87                 | 2.06                        |
| Kerisi                      | 2.36               | 2.34                 | 2.19         | 2.32           | 2.20       | 2.40        | 2.20          | 2.31           | 2.62                   | 2.17               | 2.16                 | 2.33                 | 2.30                        |
| Selayang                    | 1.17               | 1.27                 | 1.21         | 1.10           | 1.05       | 1.27        | 1.18          | 1.28           | 1.31                   | 1.22               | 1.32                 | 1.16                 | 1.21                        |
| Tamban                      | 0.39               | 0.86                 | 0.50         | 0.53           | 0.70       | 0.45        | 0.63          | 0.47           | 0.50                   | 0.52               | 0.44                 | 0.41                 | 0.53                        |
| Selar/Pelata                | 1.49               | 1.48                 | 1.47         | 1.80           | 1.82       | 1.85        | 1.66          | 1.62           | 1.69                   | 1.54               | 2.15                 | 2.06                 | 1.72                        |
| Sotong                      | 2.15               | 2.13                 | 2.17         | 2.25           | 2.29       | 2.20        | 2.45          | 2.29           | 2.43                   | 2.36               | 2.27                 | 2.22                 | 2.27                        |
| Aya/Tongkol                 | 2.03               | 1.78                 | 1.21         | 1.20           | 1.56       | 1.62        | 1.42          | 1.48           | 1.36                   | 1.64               | 1.51                 | 1.56                 | 1.53                        |
| Udang Putih                 | 19.49              | 20.04                | 20.90        | 19.79          | 19.93      | 17.57       | 17.93         | 17.81          | 17.71                  | 17.45              | 17.78                | 17.53                | 18.66                       |
| Udang Harimau               | 22.09              | 23.97                | 22.28        | 20.48          | 20.04      | 17.55       | 21.45         | 19.88          | 20.79                  | 19.16              | 20.37                | 20.17                | 20.69                       |
| Lain-Lain Udang             | 2.74               | 3.11                 | 2.87         | 2.83           | 2.79       | 2.87        | 2.85          | 2.96           | 3.25                   | 2.90               | 3.22                 | 3.13                 | 2.96                        |

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA  
HARGA RUNCIT PURATA IKAN BASAH DI PASAR MENGIKUT BULAN, 1989  
MONTHLY AVERAGE RETAIL PRICES OF FRESH FISH AT MARKET, 1989  
(Harga Dalam \$/Kg/Prices At \$/Kg)

JADUAL (TABLE) 6.3

| Jenis-Jenis Ikan<br>Species | Januari<br>January | Februari<br>February | Mac<br>March | April<br>April | Mei<br>May | Jun<br>June | Julai<br>July | Ogos<br>August | September<br>September | Oktober<br>October | November<br>November | Disember<br>December | Purata 1989<br>Average 1989 |
|-----------------------------|--------------------|----------------------|--------------|----------------|------------|-------------|---------------|----------------|------------------------|--------------------|----------------------|----------------------|-----------------------------|
| Bawal Putih                 | 9.03               | 14.32                | 11.19        | 11.69          | 12.45      | 11.86       | 11.53         | 11.76          | 15.09                  | 11.36              | 12.95                | 13.81                | 12.25                       |
| Bawal Hitam                 | 6.99               | 6.50                 | 6.58         | 6.77           | 7.20       | 6.78        | 6.04          | 6.69           | 6.64                   | 7.37               | 6.95                 | 6.35                 | 6.74                        |
| Kerapu                      | 7.03               | 7.88                 | 7.83         | 9.41           | 7.87       | 7.16        | 7.85          | 7.79           | 7.97                   | 8.01               | 8.25                 | 8.61                 | 7.97                        |
| Tenggiri                    | 7.34               | 6.89                 | 6.12         | 6.84           | 6.77       | 6.71        | 6.71          | 7.66           | 7.22                   | 7.12               | 7.20                 | 6.85                 | 6.95                        |
| Jenahak                     | 5.56               | 7.88                 | 7.47         | 7.34           | 6.98       | 7.09        | 7.83          | 7.36           | 7.15                   | 7.38               | 7.59                 | 7.37                 | 7.25                        |
| Merah                       | 5.75               | 5.40                 | 5.40         | 4.88           | 5.28       | 5.38        | 5.02          | 5.23           | 5.08                   | 5.05               | 5.70                 | 6.04                 | 5.35                        |
| Kaci                        | 1.90               | 3.94                 | 4.34         | 3.59           | 3.98       | 3.66        | 3.42          | 3.49           | 3.48                   | 3.75               | 3.81                 | 4.19                 | 3.63                        |
| Cermin                      | 3.71               | 3.38                 | 4.12         | 4.07           | 3.68       | 3.69        | 3.52          | 3.78           | 4.14                   | 3.70               | 3.91                 | 4.85                 | 3.88                        |
| Gelama                      | 2.41               | 2.08                 | 2.44         | 2.20           | 2.03       | 2.16        | 2.08          | 2.10           | 1.98                   | 2.04               | 2.04                 | 2.22                 | 2.15                        |
| Kembong                     | 2.81               | 2.73                 | 3.00         | 2.96           | 2.95       | 2.89        | 2.88          | 3.42           | 3.30                   | 2.78               | 3.34                 | 3.77                 | 3.07                        |
| Kerisi                      | 3.17               | 3.01                 | 3.07         | 3.19           | 2.94       | 3.22        | 3.04          | 3.13           | 3.10                   | 2.99               | 2.98                 | 3.46                 | 3.11                        |
| Selayang                    | 1.62               | 1.74                 | 1.76         | 1.63           | 1.54       | 1.63        | 1.60          | 1.78           | 1.78                   | 1.77               | 1.84                 | 1.55                 | 1.69                        |
| Tamban                      | 0.63               | 0.98                 | 0.76         | 0.86           | 1.21       | 0.70        | 1.24          | 0.81           | 0.81                   | 0.98               | 1.28                 | 0.83                 | 0.92                        |
| Selar/Pelata                | 1.93               | 1.97                 | 1.96         | 2.36           | 2.38       | 2.50        | 2.34          | 2.26           | 2.17                   | 2.09               | 2.87                 | 2.64                 | 2.29                        |
| Sotong                      | 2.75               | 2.89                 | 2.77         | 2.98           | 2.94       | 2.76        | 3.16          | 3.13           | 3.14                   | 3.21               | 3.23                 | 3.09                 | 3.00                        |
| Aya/Tongkol                 | 2.43               | 2.11                 | 1.62         | 1.46           | 1.59       | 1.90        | 2.04          | 2.08           | 1.91                   | 2.01               | 2.02                 | 1.84                 | 1.92                        |
| Udang Putih                 | 22.05              | 23.23                | 23.39        | 22.13          | 22.28      | 19.84       | 20.24         | 19.44          | 19.55                  | 21.34              | 16.44                | 19.67                | 20.80                       |
| Udang Harimau               | 16.39              | 27.80                | 25.21        | 22.74          | 22.26      | 20.92       | 23.88         | 22.05          | 23.64                  | 23.67              | 25.11                | 23.69                | 23.11                       |
| Lain-Lain Udang             | 3.38               | 3.58                 | 3.41         | 3.38           | 3.33       | 3.54        | 3.52          | 3.39           | 3.73                   | 3.53               | 3.93                 | 3.78                 | 3.54                        |

**SARAWAK**  
**HARGA BORONG PURATA IKAN BASAH DI PASAR-PASAR MENGIKUT DAERAH, 1989**  
**AVERAGE WHOLESALE PRICES OF FRESH FISH AT MARKET BY DISTRICTS, 1989**

Jadual (Table) 6.4

| g | JENIS IKAN<br>(SPECIES) |         |          |       |       |      |         |         |       | Purata<br>(Average) |
|---|-------------------------|---------|----------|-------|-------|------|---------|---------|-------|---------------------|
|   |                         | Kuching | Btg Lupa | Sibu  | Mukah | Miri | Bintulu | Limbang | Lawas |                     |
|   | Bawal Putih             | 11.26   | 14.00    | 10.76 | 7.08  | 8.33 | 11.97   | 0.00    | 0.00  | 10.57               |
|   | Bawal Hitam             | 5.18    | 6.31     | 5.78  | 4.31  | 4.77 | 4.69    | 0.00    | 0.00  | 5.17                |
|   | Kerapu                  | 3.15    | 0.00     | 0.00  | 1.92  | 4.06 | 3.49    | 0.00    | 0.00  | 3.16                |
|   | Tenggiri                | 3.45    | 4.00     | 3.02  | 3.36  | 3.94 | 3.24    | 0.00    | 0.00  | 3.50                |
|   | Jenahak                 | 2.45    | 0.00     | 3.60  | 2.65  | 3.75 | 0.00    | 0.00    | 0.00  | 3.11                |
|   | Merah                   | 3.58    | 0.00     | 2.50  | 2.19  | 3.33 | 2.52    | 0.00    | 0.00  | 2.82                |
|   | Kaci                    | 2.43    | 0.00     | 0.00  | 1.27  | 4.00 | 0.00    | 0.00    | 0.00  | 2.57                |
|   | Cermin/Sagai/Cupak      | 2.40    | 0.00     | 3.15  | 0.00  | 2.00 | 0.00    | 0.00    | 0.00  | 2.52                |
|   | Gelama                  | 1.77    | 2.44     | 1.39  | 1.16  | 1.38 | 0.72    | 0.00    | 2.28  | 1.59                |
|   | Kembong                 | 2.50    | 3.05     | 2.10  | 2.41  | 3.55 | 2.70    | 5.00    | 5.00  | 3.29                |
|   | Kerisi                  | 2.05    | 0.00     | 1.20  | 1.91  | 3.71 | 0.00    | 0.00    | 2.00  | 2.17                |
|   | Selayang                | 0.00    | 0.00     | 0.00  | 0.00  | 0.00 | 0.00    | 0.00    | 0.00  | 0.00                |
|   | Tamban                  | 1.47    | 0.00     | 0.00  | 1.03  | 0.00 | 0.00    | 0.00    | 2.00  | 1.50                |
|   | Pelata/Selar            | 2.20    | 3.00     | 1.48  | 1.79  | 2.20 | 1.46    | 0.00    | 0.00  | 2.02                |
|   | Sotong                  | 2.68    | 3.75     | 1.49  | 1.72  | 2.80 | 2.48    | 0.00    | 0.00  | 2.49                |
|   | Tongkol/Kayu/Aya        | 2.41    | 0.00     | 1.80  | 1.94  | 3.06 | 2.35    | 0.00    | 5.50  | 2.84                |
|   | Udang Putih             | 11.16   | 0.00     | 11.39 | 10.00 | 0.00 | 0.00    | 7.72    | 7.70  | 9.59                |
|   | Udang Harimau Sedang    | 0.00    | 3.50     | 15.00 | 0.00  | 0.00 | 0.00    | 0.00    | 0.00  | 9.25                |
|   | Udang Cendana/Rotan     | 0.00    | 0.00     | 0.00  | 0.00  | 0.00 | 0.00    | 0.00    | 0.00  | 0.00                |
|   | Lain-Lain Udang         | 3.88    | 3.17     | 3.61  | 4.38  | 3.69 | 4.50    | 0.00    | 0.00  | 3.87                |

SARAWAK  
HARGA RUNCIT PURATA IKAN BASAH DI PASAR-PASAR MENGIKUT DAERAH, 1989  
AVERAGE RETAIL PRICES OF FRESH FISH AT MARKET BY DISTRICTS, 1989

Jadual (Table) 6.5

| JENIS IKAN<br>(SPECIES) |         |          |       |       |       |         |         |       | Purata<br>(Average) |
|-------------------------|---------|----------|-------|-------|-------|---------|---------|-------|---------------------|
|                         | Kuching | Btg Lupa | Sibu  | Mukah | Miri  | Bintulu | Limbang | Lawas |                     |
| Bawal Putih             | 14.92   | 16.00    | 12.16 | 10.77 | 15.00 | 15.68   | 0.00    | 0.00  | 14.09               |
| Bawal Hitam             | 7.49    | 8.76     | 5.97  | 6.02  | 8.11  | 7.02    | 0.00    | 0.00  | 7.23                |
| Kerapu                  | 5.63    | 0.00     | 0.00  | 3.72  | 7.62  | 4.84    | 0.00    | 0.00  | 5.45                |
| Tenggiri                | 4.61    | 5.45     | 5.63  | 5.39  | 7.22  | 5.76    | 0.00    | 0.00  | 5.68                |
| Jenahak                 | 4.43    | 0.00     | 6.00  | 5.15  | 7.75  | 0.00    | 0.00    | 0.00  | 5.83                |
| Merah                   | 6.35    | 0.00     | 3.83  | 3.98  | 5.88  | 4.33    | 0.00    | 0.00  | 4.87                |
| Kaci                    | 3.10    | 0.00     | 0.00  | 2.40  | 7.00  | 0.00    | 0.00    | 0.00  | 4.17                |
| Cermin/Sagai/Cupak      | 3.20    | 0.00     | 3.30  | 0.00  | 3.88  | 0.00    | 0.00    | 0.00  | 3.46                |
| Gelama                  | 2.26    | 3.88     | 2.55  | 2.28  | 2.88  | 1.39    | 0.00    | 4.71  | 2.85                |
| Kembong                 | 4.08    | 4.15     | 3.48  | 4.20  | 6.22  | 4.31    | 6.20    | 6.00  | 4.83                |
| Kerisi                  | 3.27    | 0.00     | 1.97  | 3.83  | 6.42  | 0.00    | 0.00    | 3.50  | 3.80                |
| Selayang                | 0.00    | 0.00     | 0.00  | 0.00  | 0.00  | 0.00    | 0.00    | 0.00  | 0.00                |
| Tamban                  | 2.28    | 0.00     | 0.00  | 2.05  | 0.00  | 0.00    | 0.00    | 4.00  | 2.78                |
| Pelata/Selar            | 3.54    | 4.20     | 2.50  | 3.58  | 4.20  | 2.55    | 0.00    | 0.00  | 3.43                |
| Sotong                  | 3.76    | 5.55     | 2.93  | 3.23  | 4.73  | 3.71    | 0.00    | 0.00  | 3.99                |
| Tongkol/Kayu/Aya        | 3.10    | 0.00     | 2.44  | 3.56  | 5.60  | 4.51    | 0.00    | 6.50  | 4.29                |
| Udang Putih             | 19.16   | 0.00     | 15.57 | 15.00 | 0.00  | 0.00    | 13.55   | 12.50 | 15.16               |
| Udang Harimau Sedang    | 0.00    | 4.00     | 18.00 | 0.00  | 0.00  | 0.00    | 0.00    | 0.00  | 11.00               |
| Udang Cendana/Rotan     | 0.00    | 0.00     | 0.00  | 0.00  | 0.00  | 0.00    | 0.00    | 0.00  | 0.00                |
| Lain-Lain Udang         | 4.21    | 4.37     | 4.62  | 5.30  | 5.11  | 5.43    | 0.00    | 0.00  | 4.84                |

MALAYSIA  
NILAI HARGA BORONG PENDARATAN IKAN LAUT, 1989  
WHOLESALE VALUE OF MARINE FISH LANDINGS, 1989

JADUAL (TABLE) 7.1

| Negeri/State                | Gred I (Grade I)   |             | Gred II (Grade II) |            | Gred III (Grade III) |             | Udang (Prawn)      |             | Ikan Baja (Manure Fish) |            | Karang-Karangan (Shellfish) |           | Jumlah/Total       |               |
|-----------------------------|--------------------|-------------|--------------------|------------|----------------------|-------------|--------------------|-------------|-------------------------|------------|-----------------------------|-----------|--------------------|---------------|
|                             | Tan M.<br>(Tonnes) | \$          | Tan M.<br>(Tonnes) | \$         | Tan M.<br>(Tonnes)   | \$          | Tan M.<br>(Tonnes) | \$          | Tan M.<br>(Tonnes)      | \$         | Tan M.<br>(Tonnes)          | \$        | Tan M.<br>(Tonnes) | \$            |
| Perlis                      | 1,060              | 5,005,897   | 2                  | 4,906      | 33,473               | 44,203,099  | 2,828              | 13,035,952  | 4,997                   | 1,173,256  | 0                           | 0         | 42,360             | 63,423,110    |
| Kedah                       | 1,611              | 9,306,176   | 107                | 258,157    | 42,140               | 52,494,605  | 4,462              | 37,682,000  | 26,975                  | 9,441,096  | 320                         | 399,341   | 75,615             | 109,581,375   |
| P. Pinang/Penang            | 580                | 6,806,498   | 32                 | 187,621    | 16,404               | 24,885,521  | 5,858              | 38,904,774  | 15,707                  | 3,860,448  | 43                          | 97,870    | 38,624             | 74,742,732    |
| Perak                       | 5,163              | 31,006,205  | 3,388              | 12,239,408 | 70,705               | 144,314,585 | 30,528             | 141,288,424 | 89,004                  | 26,222,615 | 186                         | 200,755   | 198,974            | 355,271,992   |
| Selangor                    | 2,923              | 21,533,316  | 464                | 835,949    | 47,243               | 45,910,724  | 24,153             | 65,750,878  | 37,634                  | 9,812,629  | 229                         | 111,287   | 112,646            | 143,954,783   |
| Negeri Sembilan             | 90                 | 633,673     | 4                  | 17,440     | 98                   | 160,357     | 29                 | 510,655     | 0                       | 0          | 0                           | 0         | 221                | 1,322,125     |
| Melaka/Malacca              | 711                | 5,943,607   | 15                 | 70,666     | 863                  | 1,461,569   | 400                | 2,752,759   | 0                       | 0          | 0                           | 0         | 1,989              | 10,228,601    |
| Johor Barat/<br>West Johore | 1,339              | 10,978,097  | 79                 | 270,883    | 6,346                | 10,401,557  | 5,650              | 26,371,102  | 5,491                   | 707,256    | 0                           | 0         | 18,905             | 48,728,895    |
| Jumlah Kecil                | 13,477             | 91,213,469  | 4,091              | 13,885,030 | 217,272              | 323,832,017 | 73,908             | 326,296,544 | 179,808                 | 51,217,300 | 778                         | 809,253   | 489,334            | 807,253,613   |
| Kelantan                    | 2,218              | 10,076,797  | 1,723              | 4,051,628  | 25,826               | 39,696,337  | 1,665              | 14,071,646  | 1,550                   | 213,242    | 0                           | 0         | 32,982             | 68,109,650    |
| Terengganu                  | 2,170              | 14,034,086  | 2,348              | 10,355,414 | 65,630               | 139,217,115 | 634                | 5,024,400   | 8,033                   | 1,045,360  |                             | 268       | 78,815             | 169,676,643   |
| Pahang                      | 1,481              | 8,400,147   | 634                | 2,453,550  | 36,350               | 67,896,043  | 1,333              | 10,185,641  | 28,932                  | 5,717,690  | 0                           | 0         | 68,730             | 94,653,071    |
| Johor Timur/<br>East Johore | 1,359              | 8,763,782   | 1,054              | 4,799,566  | 31,310               | 54,321,328  | 3,728              | 19,446,989  | 39,572                  | 6,829,899  | 0                           | 0         | 77,023             | 94,161,564    |
| Jumlah Kecil                | 7,228              | 41,274,812  | 5,759              | 21,660,158 | 159,116              | 301,130,823 | 7,360              | 48,728,676  | 78,087                  | 13,806,191 | 0                           | 268       | 257,550            | 426,600,928   |
| Sarawak                     | 5,944              | 20,266,000  | 3,029              | 11,000,000 | 47,355               | 124,923,000 | 19,149             | 63,731,000  | 8,877                   | 4,616,000  | 2                           | 4,000     | 84,356             | 224,540,000   |
| Sabah                       | 3,621              | 21,830,000  | 3,202              | 15,020,000 | 17,591               | 62,661,000  | 11,594             | 82,787,000  | 6,499                   | 1,300,000  | 1,493                       | 2,633,000 | 44,000             | 186,231,000   |
| W.P. Labuan                 | 1,261              | 5,450,843   | 571                | 2,380,018  | 4,920                | 10,327,306  | 499                | 3,037,117   | 1                       | 283        | 0                           | 0         | 7,252              | 21,195,567    |
| Jumlah Kecil                | 10,826             | 47,546,843  | 6,802              | 28,400,018 | 69,866               | 197,911,306 | 31,242             | 149,555,117 | 15,377                  | 5,916,283  | 1,495                       | 2,637,000 | 135,608            | 431,966,567   |
| Jumlah Besar                | 31,531             | 180,035,124 | 16,652             | 63,945,206 | 446,254              | 822,874,146 | 112,510            | 524,580,337 | 273,272                 | 70,939,774 | 2,273                       | 3,446,521 | 882,492            | 1,665,821,108 |

NOTA/NOTE:

- Gred 1 Termasuk Bawal Tambak, Bawal Putih, Bawal Hitam, Senangin/Kurau, Tenggiri, Parang dan Kerapu.  
 (Grade 1) Includes Chinese Pomfret, Silver Pomfret, Black Pomfret, Threadfin, Spanish Mackerel, Wolf Herring and Grouper.  
 Gred 11 Termasuk Jenahak, Terubuk, Puput-Puput, Merah, Kaci, Cermin, Demuduk dan Slakap  
 (Grade 11) Includes Mangrove Snapper, Longtail Shad, 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, Squids, Crabs, and Jellyfish.

**MALAYSIA**  
**NILAI HARGA RUNCIT PENDARATAN IKAN LAUT, 1989**  
**RETAIL VALUE OF MARINE FISH LANDINGS, 1989**

JADUAL (TABLE) 7.2

| Negeri/State                | Gred I (Grade I)   |             | Gred II (Grade II) |            | Gred III (Grade III) |               | Udang (Prawn)      |             | Ikan Baja (Manure Fish) |            | Karang-Karangan (Shellfish) |           | Jumlah/Total       |               |
|-----------------------------|--------------------|-------------|--------------------|------------|----------------------|---------------|--------------------|-------------|-------------------------|------------|-----------------------------|-----------|--------------------|---------------|
|                             | Tan M.<br>(Tonnes) | \$          | Tan M.<br>(Tonnes) | \$         | Tan M.<br>(Tonnes)   | \$            | Tan M.<br>(Tonnes) | \$          | Tan M.<br>(Tonnes)      | \$         | Tan M.<br>(Tonnes)          | \$        | Tan M.<br>(Tonnes) | \$            |
| Perlis                      | 1,060              | 6,322,808   | 2                  | 7,210      | 33,473               | 62,402,187    | 2,828              | 16,290,008  | 4,997                   | 1,173,256  | 0                           | 0         | 42,360             | 86,185,470    |
| Kedah                       | 1,611              | 12,007,780  | 107                | 380,299    | 42,140               | 80,926,958    | 4,462              | 45,287,908  | 26,975                  | 9,411,096  | 320                         | 655,310   | 75,615             | 148,669,349   |
| P. Pinang/Penang            | 580                | 7,448,863   | 32                 | 213,142    | 18,404               | 31,062,174    | 5,858              | 43,176,758  | 15,707                  | 3,860,448  | 43                          | 114,150   | 38,624             | 85,875,535    |
| Perak                       | 5,163              | 41,840,859  | 3,388              | 17,323,842 | 70,705               | 235,821,707   | 30,528             | 187,073,050 | 89,004                  | 26,222,615 | 186                         | 303,545   | 198,974            | 508,585,618   |
| Selangor                    | 2,923              | 24,297,290  | 484                | 1,058,606  | 47,243               | 59,632,855    | 24,153             | 76,559,490  | 37,634                  | 9,812,629  | 229                         | 176,104   | 112,646            | 171,536,974   |
| Negeri Sembilan             | 90                 | 755,009     | 4                  | 19,608     | 98                   | 206,767       | 29                 | 555,728     | 0                       | 0          | 0                           | 0         | 221                | 1,537,112     |
| Malaka/Malacca              | 711                | 6,649,228   | 15                 | 82,658     | 863                  | 1,925,808     | 400                | 3,008,106   | 0                       | 0          | 0                           | 0         | 1,989              | 11,665,800    |
| Johor Barat/<br>West Johore | 1,339              | 12,373,973  | 79                 | 341,857    | 6,346                | 10,401,557    | 5,650              | 30,524,893  | 5,491                   | 707,256    | 0                           | 0         | 18,905             | 54,349,536    |
| Jumlah Kecil                | 13,477             | 111,695,811 | 4,091              | 19,427,222 | 217,272              | 482,380,011   | 73,908             | 402,475,941 | 179,808                 | 51,187,300 | 778                         | 1,249,109 | 489,334            | 1,068,415,394 |
| Kelantan                    | 2,218              | 11,175,556  | 1,723              | 4,701,983  | 25,826               | 47,258,999    | 1,665              | 14,499,786  | 1,550                   | 213,242    | 0                           | 0         | 32,982             | 77,849,566    |
| Terengganu                  | 2,170              | 15,506,189  | 2,348              | 11,588,597 | 65,630               | 164,673,968   | 634                | 5,542,300   | 8,033                   | 1,045,360  | 326                         | 326       | 78,815             | 198,356,741   |
| Pahang                      | 1,481              | 11,793,075  | 834                | 3,289,491  | 36,350               | 103,501,893   | 1,333              | 12,712,035  | 28,932                  | 5,717,690  | 0                           | 0         | 68,730             | 137,014,184   |
| Johor Timur/<br>East Johore | 1,359              | 10,632,991  | 1,054              | 5,977,890  | 31,310               | 85,983,927    | 3,728              | 24,894,988  | 39,572                  | 6,829,899  | 0                           | 0         | 77,023             | 134,119,695   |
| Jumlah Kecil                | 7,228              | 49,107,811  | 5,759              | 25,557,961 | 159,116              | 401,418,788   | 7,360              | 57,449,109  | 78,087                  | 13,806,191 | 0                           | 326       | 257,550            | 547,340,186   |
| Sarawak                     | 5,944              | 29,479,000  | 3,029              | 19,218,000 | 47,355               | 103,727,000   | 19,149             | 95,674,000  | 8,877                   | 4,616,000  | 2                           | 6,000     | 84,356             | 252,720,000   |
| Sabah                       | 3,621              | 25,374,000  | 3,202              | 17,688,000 | 17,591               | 76,150,000    | 11,594             | 99,542,000  | 6,499                   | 1,300,000  | 1,493                       | 3,094,000 | 44,000             | 223,148,000   |
| W.P Labuan                  | 1,261              | 7,611,811   | 571                | 3,525,142  | 4,920                | 16,613,881    | 499                | 4,055,165   | 1                       | 283        | 0                           | 0         | 7,252              | 28,286,060    |
| Jumlah Kecil                | 10,826             | 62,464,811  | 6,802              | 40,501,008 | 69,866               | 196,490,881   | 31,242             | 199,271,165 | 15,377                  | 5,916,283  | 1,495                       | 3,100,000 | 135,608            | 504,154,060   |
| Jumlah Besar                | 31,531             | 223,268,433 | 16,652             | 85,486,191 | 446,254              | 1,080,289,680 | 112,510            | 659,196,215 | 273,272                 | 70,909,774 | 2,273                       | 4,349,435 | 882,492            | 2,119,909,640 |

**NOTA/NOTE:**

- Gred I Termasuk Bawal Tembak, Bawal Putih, Bawal Hitam, Serangin/Kurus, Tenggiri, Perang dan Kerapu.  
(Grade I) Includes Chinese Pomfret, Silver Pomfret, Black Pomfret, Threadfin, Spanish Mackerel, Wolf Herring and Grouper.  
Gred II Termasuk Janshak, Terubuk, Puput-Puput, Merah, Kedi, Cemrin, Demuduk dan Siakap.  
(Grade II) Includes Mangrove Snapper, Longtail Shad, Shads, Red Snapper, Sweetlip, Horse Mackerel and Giant Sea Perch.  
Gred III Lain-lain ikan termasuk Ikan Bili, Solong, Ketam dan Ubor-Ubor.  
(Grade III) Other species including Anchovy, Squids, Crabs and Jellyfish.

\* Harga runcit untuk ikan baja tidak ada/(There is no retail for trash fish).

SEMANJUNG MALAYSIA/PENINSULAR MALAYSIA  
NILAI PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN GRED IKAN, 1989  
VALUE OF MARINE FISH LANDINGS BY GEAR GROUP AND GRADE OF FISH, 1989

JADUAL (TABLE) 7.3

| Pendaratan dan Nilai<br>Landings and Values |        | Pukat Tarik/Purse Seine   |                                             |                                                 |                                        | Perangkap/Traps                       |                               |                           |                  | Pancing<br>Hooks<br>and<br>Lines | Pukat Bakul<br>Bag Nets | Pukat<br>Rentang<br>Barrier<br>Nets | Pukat<br>Surung<br>Push/Scoop<br>Nets | Memungut<br>Siput<br>Shellfish<br>Collection | Rampasan<br>Miscellaneous | Jumlah<br>Total |
|---------------------------------------------|--------|---------------------------|---------------------------------------------|-------------------------------------------------|----------------------------------------|---------------------------------------|-------------------------------|---------------------------|------------------|----------------------------------|-------------------------|-------------------------------------|---------------------------------------|----------------------------------------------|---------------------------|-----------------|
|                                             |        | Pukat Tunda<br>Trawl Nets | Pukat Jerut<br>Ikan<br>Purse Seine-<br>Fish | Pukat Jerut<br>Bilis<br>Purse Seine-<br>Anchovy | Lain Pukat<br>Tarik<br>Other<br>Seines | Pukat<br>Hanyut<br>Drift/Gill<br>Nets | Pukat<br>Tangguk<br>Lift Nets | Belat-Belat<br>Stationary | Bubu<br>Portable |                                  |                         |                                     |                                       |                                              |                           |                 |
| Gred I<br>(Grade I)                         | Tonnes | 8,193                     | 895                                         | 16                                              | 16                                     | 7,296                                 | 133                           | 19                        | 626              | 3,100                            | 13                      | 0                                   | 0                                     | 0                                            | 0                         | 20,307          |
|                                             | N.B.\$ | 32,383,270                | 5,719,050                                   | 102,240                                         | 102,240                                | 46,621,440                            | 849,870                       | 121,410                   | 4,000,140        | 19,809,000                       | 83,070                  | 0                                   | 0                                     | 0                                            | 0                         | 129,761,730     |
|                                             | N.R.\$ | 63,699,610                | 6,954,150                                   | 124,320                                         | 124,320                                | 56,689,920                            | 1,033,410                     | 147,630                   | 4,864,020        | 24,087,000                       | 101,010                 | 0                                   | 0                                     | 0                                            | 0                         | 157,785,300     |
| Gred II<br>(Grade II)                       | Tonnes | 9,288                     | 449                                         | 0                                               | 0                                      | 1,549                                 | 4                             | 2                         | 1,730            | 1,788                            | 1                       | 21                                  | 0                                     | 0                                            | 7                         | 14,839          |
|                                             | N.B.\$ | 33,436,800                | 1,616,400                                   | 0                                               | 0                                      | 5,576,400                             | 14,400                        | 7,200                     | 6,228,000        | 6,436,800                        | 3,600                   | 75,600                              | 0                                     | 0                                            | 25,000                    | 53,420,200      |
|                                             | N.R.\$ | 42,446,160                | 2,051,930                                   | 0                                               | 0                                      | 7,078,930                             | 18,280                        | 9,140                     | 7,906,100        | 8,171,160                        | 4,570                   | 95,970                              | 0                                     | 0                                            | 31,900                    | 67,814,230      |
| Gred III<br>(Grade III)                     | Tonnes | 146,094                   | 103,703                                     | 30,007                                          | 452                                    | 30,576                                | 11,450                        | 392                       | 3,841            | 17,257                           | 4,753                   | 501                                 | 21                                    | 0                                            | 23,679                    | 372,726         |
|                                             | N.B.\$ | 242,516,040               | 172,146,980                                 | 49,811,620                                      | 750,320                                | 50,756,160                            | 19,007,000                    | 650,720                   | 8,378,060        | 28,646,620                       | 7,899,980               | 831,660                             | 34,860                                | 0                                            | 39,307,140                | 618,725,160     |
|                                             | N.R.\$ | 343,320,900               | 243,702,050                                 | 70,516,450                                      | 1,062,200                              | 71,853,600                            | 26,907,500                    | 921,200                   | 9,026,350        | 40,553,950                       | 11,169,550              | 1,177,350                           | 49,350                                | 0                                            | 55,645,650                | 875,906,100     |
| Ukang<br>(Prawn)                            | Tonnes | 39,914                    | 0                                           | 0                                               | 10,937                                 | 6,996                                 | 0                             | 430                       | 3                | 0                                | 21,251                  | 142                                 | 1,517                                 | 0                                            | 1                         | 80,791          |
|                                             | N.B.\$ | 184,003,540               | 0                                           | 0                                               | 50,419,570                             | 30,407,560                            | 0                             | 1,982,300                 | 13,830           | 0                                | 97,967,110              | 654,620                             | 6,993,370                             | 0                                            | 4,610                     | 372,446,510     |
|                                             | N.R.\$ | 227,509,800               | 0                                           | 0                                               | 62,340,900                             | 37,597,200                            | 0                             | 2,451,000                 | 17,100           | 0                                | 121,130,700             | 809,400                             | 8,646,900                             | 0                                            | 5,700                     | 480,508,700     |
| Ikan Beja<br>(Mussel Fish)                  | Tonnes | 232,798                   | 5,565                                       | 0                                               | 7,755                                  | 4,506                                 | 0                             | 48                        | 2                | 0                                | 6,054                   | 225                                 | 486                                   | 0                                            | 0                         | 257,439         |
|                                             | N.B.\$ | 58,199,500                | 1,391,250                                   | 0                                               | 1,938,750                              | 1,126,500                             | 0                             | 12,000                    | 500              | 0                                | 1,513,500               | 56,250                              | 121,500                               | 0                                            | 0                         | 64,359,750      |
|                                             | N.R.\$ | 58,199,500                | 1,391,250                                   | 0                                               | 1,938,750                              | 1,126,500                             | 0                             | 12,000                    | 500              | 0                                | 1,513,500               | 56,250                              | 121,500                               | 0                                            | 0                         | 64,359,750      |
| Karang-<br>Karangan<br>(Shellfish)          | Tonnes | 0                         | 0                                           | 0                                               | 0                                      | 0                                     | 0                             | 0                         | 0                | 0                                | 0                       | 0                                   | 0                                     | 782                                          | 0                         | 782             |
|                                             | N.B.\$ | 0                         | 0                                           | 0                                               | 0                                      | 0                                     | 0                             | 0                         | 0                | 0                                | 0                       | 0                                   | 0                                     | 797,640                                      | 0                         | 797,640         |
|                                             | N.R.\$ | 0                         | 0                                           | 0                                               | 0                                      | 0                                     | 0                             | 0                         | 0                | 0                                | 0                       | 0                                   | 0                                     | 1,251,200                                    | 0                         | 1,251,200       |
| JUMLAH<br>TOTAL                             | Tonnes | 436,287                   | 110,612                                     | 30,023                                          | 19,160                                 | 50,523                                | 11,587                        | 891                       | 6,202            | 22,145                           | 32,072                  | 869                                 | 2,024                                 | 782                                          | 23,687                    | 746,884         |
|                                             | N.B.\$ | 570,509,150               | 180,873,690                                 | 49,913,980                                      | 53,210,880                             | 134,488,060                           | 19,871,270                    | 2,773,630                 | 16,618,530       | 54,892,420                       | 107,457,260             | 1,618,130                           | 7,149,730                             | 797,640                                      | 39,336,750                | 1,239,510,990   |
|                                             | N.R.\$ | 735,135,970               | 254,099,380                                 | 70,640,770                                      | 65,466,170                             | 174,346,150                           | 27,959,190                    | 3,540,970                 | 21,814,070       | 72,812,110                       | 133,919,330             | 2,138,970                           | 8,817,750                             | 1,251,200                                    | 55,683,340                | 1,627,625,370   |

N.B.\$ - Nilai Harga Borong Dalam Ringgit/Wholesale Value in Ringgit

N.R.\$ - Nilai Harga Runcit Dalam Ringgit/Retail Value in Ringgit

\* Harga runcit untuk ikan beja tidak ada/There is no retail price for mussel fish

**MALAYSIA**  
**SIRI TAHUNAN PENDARATAN IKAN LAUT DAN NILAI**  
**ANNUAL SERIES OF MARINE FISH LANDINGS AND VALUES**  
(Nilai Dalam Ringgit/Value In Ringgit)

**JADUAL (TABLE) 8**

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| Negeri/State                      | 1985                                        |                      | 1986                                        |                      | 1987                                        |                      | 1988                                        |                      | 1989                                        |                      |
|-----------------------------------|---------------------------------------------|----------------------|---------------------------------------------|----------------------|---------------------------------------------|----------------------|---------------------------------------------|----------------------|---------------------------------------------|----------------------|
|                                   | Kuantiti<br>(Tan M)<br>Quantity<br>(Tonnes) | Nilai<br>Value       | Kuantiti<br>(Tan M)<br>Quantity<br>(Tonnes) | Nilai<br>Value       | Kuantiti<br>(Tan M)<br>Quantity<br>(Tonnes) | Nilai<br>Value       | Kuantiti<br>(Tan M)<br>Quantity<br>(Tonnes) | Nilai<br>Value       | Kuantiti<br>(Tan M)<br>Quantity<br>(Tonnes) | Nilai<br>Value       |
| <b>Pantai Barat (West Coast):</b> |                                             |                      |                                             |                      |                                             |                      |                                             |                      |                                             |                      |
| Perlis                            | 34,318                                      | 72,624,804           | 29,065                                      | 70,816,510           | 66,856                                      | 69,615,500           | 40,731                                      | 60,302,609           | 42,360                                      | 63,423,110           |
| Kedah                             | 54,859                                      | 135,299,687          | 55,327                                      | 120,454,070          | 94,091                                      | 103,044,610          | 72,775                                      | 82,999,613           | 75,615                                      | 109,581,375          |
| Pulau Pinang/Penang               | 23,832                                      | 65,553,212           | 20,868                                      | 58,380,270           | 29,752                                      | 53,409,330           | 22,230                                      | 33,712,136           | 38,624                                      | 74,742,732           |
| Perak                             | 149,159                                     | 358,075,555          | 135,889                                     | 316,887,440          | 203,774                                     | 251,514,600          | 179,982                                     | 239,564,023          | 198,974                                     | 355,271,992          |
| Selangor                          | 43,983                                      | 100,531,825          | 64,260                                      | 136,156,450          | 87,157                                      | 126,893,470          | 90,891                                      | 119,725,532          | 112,646                                     | 143,954,783          |
| Negeri Sembilan                   | 407                                         | 2,356,191            | 323                                         | 1,998,360            | 352                                         | 1,723,200            | 310                                         | 4,587,610            | 221                                         | 1,322,125            |
| Melaka/Malacca                    | 2,163                                       | 10,237,060           | 2,201                                       | 10,463,090           | 2,444                                       | 9,429,020            | 2,482                                       | 11,285,828           | 1,989                                       | 10,228,601           |
| Johor Barat/West Johore           | 18,403                                      | 48,400,775           | 16,114                                      | 37,711,920           | 15,439                                      | 28,183,440           | 20,787                                      | 40,425,329           | 18,905                                      | 48,728,895           |
| <b>Jumlah Kecil/Sub-Total:</b>    | <b>327,124</b>                              | <b>793,079,109</b>   | <b>324,047</b>                              | <b>752,868,110</b>   | <b>499,865</b>                              | <b>643,813,170</b>   | <b>430,188</b>                              | <b>592,602,680</b>   | <b>489,334</b>                              | <b>807,253,613</b>   |
| <b>Pantai Timur/East Coast:</b>   |                                             |                      |                                             |                      |                                             |                      |                                             |                      |                                             |                      |
| Kelantan                          | 9,461                                       | 17,462,532           | 10,223                                      | 21,385,490           | 23,166                                      | 37,313,420           | 18,002                                      | 35,006,988           | 32,982                                      | 68,109,650           |
| Terengganu                        | 80,794                                      | 159,443,662          | 52,228                                      | 132,662,080          | 115,016                                     | 162,157,710          | 83,456                                      | 114,138,454          | 78,815                                      | 169,676,643          |
| Pahang                            | 16,353                                      | 29,649,805           | 30,935                                      | 54,370,850           | 66,519                                      | 84,478,400           | 95,047                                      | 113,776,964          | 68,730                                      | 94,653,071           |
| Johor Timur/East Johore           | 29,129                                      | 51,493,303           | 28,943                                      | 56,485,640           | 36,005                                      | 56,673,140           | 67,756                                      | 123,018,284          | 77,023                                      | 94,161,564           |
| <b>Jumlah Kecil/Sub-Total:</b>    | <b>135,737</b>                              | <b>258,049,302</b>   | <b>122,329</b>                              | <b>264,904,060</b>   | <b>240,706</b>                              | <b>340,622,670</b>   | <b>264,261</b>                              | <b>385,940,690</b>   | <b>257,550</b>                              | <b>426,600,928</b>   |
| Sarawak                           | 62,893                                      | 128,800,000          | 67,971                                      | 155,500,000          | 69,443                                      | 187,900,000          | 79,642                                      | 190,109,180          | 84,356                                      | 224,540,000          |
| Sabah                             | 48,600                                      | 157,750,000          | 46,900                                      | 163,500,000          | 47,640                                      | 165,500,000          | 48,000                                      | 197,000,000          | 44,000                                      | 186,231,000          |
| W.P. Labuan                       | *                                           | *                    | 720                                         | 2,500,000            | 1,360                                       | 4,700,000            | 3,540                                       | 10,216,326           | 7,252                                       | 21,195,567           |
| <b>Jumlah Kecil/Sub-Total:</b>    | <b>111,493</b>                              | <b>286,550,000</b>   | <b>115,591</b>                              | <b>321,500,000</b>   | <b>118,443</b>                              | <b>358,100,000</b>   | <b>131,182</b>                              | <b>397,325,506</b>   | <b>135,608</b>                              | <b>431,966,567</b>   |
| <b>Jumlah Besar/Grand-Total:</b>  | <b>574,354</b>                              | <b>1,337,678,411</b> | <b>561,967</b>                              | <b>1,339,272,170</b> | <b>859,014</b>                              | <b>1,342,535,840</b> | <b>825,631</b>                              | <b>1,375,868,876</b> | <b>882,492</b>                              | <b>1,665,821,108</b> |

MALAYSIA  
PENDARATAN DAN NILAI IKAN LAUT MENGIKUT NEGERI BAGI TAHUN 1989  
LANDINGS AND VALUES OF MARINE FISH BY STATE FOR THE YEAR 1989

Jadual (Table) 9

| Kuantiti Dan Peratus<br>Quantity And Percentage | Pantai Barat/West Coast |             |                    |             |             |                    |                   |                            | Pantai Timur/East Coast |             |            |                            |             |             |                | Jumlah<br>Besar |
|-------------------------------------------------|-------------------------|-------------|--------------------|-------------|-------------|--------------------|-------------------|----------------------------|-------------------------|-------------|------------|----------------------------|-------------|-------------|----------------|-----------------|
|                                                 | Perlis                  | Kedah       | P.Pinang<br>Penang | Perak       | Selangor    | Negeri<br>Sembilan | Melaka<br>Malacca | Johor Barat<br>West Johore | Kelantan                | Terengganu  | Pahang     | Johor Timur<br>East Johore | Sarawak     | Sabah       | W.P.<br>Labuan | Grand<br>Total  |
| Pendaratan dalam Tan M.<br>Landing In Tonnes    | 42,360                  | 75,615      | 38,624             | 198,974     | 112,646     | 221                | 1,989             | 18,905                     | 32,982                  | 78,815      | 68,730     | 77,023                     | 84,356      | 44,000      | 7,252          | 882,492         |
| Peratus<br>Percentage                           | 4.80%                   | 8.57%       | 4.38%              | 22.55%      | 12.76%      | 0.03%              | 0.23%             | 2.14%                      | 3.74%                   | 8.83%       | 7.79%      | 8.73%                      | 9.56%       | 4.99%       | 0.82%          | 100.00%         |
| Nilai dalam Ringgit<br>Value In Ringgit         | 63,423,110              | 109,581,375 | 74,742,732         | 355,271,992 | 143,954,783 | 1,322,125          | 10,228,601        | 48,728,895                 | 68,109,650              | 169,676,643 | 94,653,071 | 94,161,564                 | 224,540,000 | 186,231,000 | 21,195,567     | 1,665,821,108   |
| Peratus<br>Percentage                           | 3.81%                   | 6.58%       | 4.49%              | 21.33%      | 8.64%       | 0.08%              | 0.61%             | 2.93%                      | 4.09%                   | 10.19%      | 5.68%      | 5.65%                      | 13.48%      | 11.18%      | 1.27%          | 100.00%         |

SEMIANJUNG MALAYSIA/PENINSULAR MALAYSIA  
PENGUNAAN PENDARATAN IKAN LAUT, 1989  
DISPOSITION OF MARINE FISH LANDINGS, 1989  
Timbangan dalam Tan Metrik/Weight in Tonnes

Jadual (Table) 10.1

| Cara Penggunaan<br>Disposition Channel             | Pantai Barat/West Coast |        |                           |         |                            |                    |                   |                            | Jumlah Kecil<br>Sub-Total | Pantai Timur/East Coast |            |                           |                            | Jumlah Kecil<br>Sub-Total | Jumlah Besar<br>Grand Total |
|----------------------------------------------------|-------------------------|--------|---------------------------|---------|----------------------------|--------------------|-------------------|----------------------------|---------------------------|-------------------------|------------|---------------------------|----------------------------|---------------------------|-----------------------------|
|                                                    | Pertis                  | Kedah  | Pulau<br>Pinang<br>Penang | Perak   | Selangor<br>Darul<br>Ehsan | Negeri<br>Sembilan | Melaka<br>Malacca | Johor Barat<br>West Johore |                           | Kelantan                | Terengganu | Pahang<br>Darul<br>Makmur | Johor Timur<br>East Johore |                           |                             |
| Diguna secara hidup<br>Disposed alive              | -                       | -      | -                         | -       | -                          | -                  | -                 | -                          | 0                         | -                       | -          | -                         | -                          | 0                         | 0                           |
| Diguna secara basah<br>Disposed fresh              | 42,259                  | 35,182 | 33,168                    | 79,692  | 60,163                     | 221                | 1,190             | 16,863                     | 268,758                   | 32,160                  | 73,656     | 56,595                    | 40,877                     | 203,288                   | 472,046                     |
| Diguna untuk dibekukan<br>Disposed for freezing    | -                       | -      | -                         | 5,295   | -                          | -                  | -                 | -                          | 5,295                     | -                       | -          | -                         | -                          | 0                         | 5,295                       |
| Diguna untuk mengering<br>Disposed for canning     | -                       | -      | -                         | -       | -                          | -                  | -                 | -                          | 0                         | -                       | -          | -                         | -                          | 0                         | 0                           |
| Diguna untuk diawetkan<br>Disposed for curing      | -                       | -      | -                         | -       | -                          | -                  | -                 | -                          | -                         | -                       | -          | -                         | -                          | -                         | -                           |
| Kering/Masin/Diasap<br>Dried/Salted/Smoked         | 80                      | 17,512 | 1,022                     | 19,554  | 4,630                      | -                  | 15                | 380                        | 43,193                    | 327                     | 2,909      | 1,299                     | 97                         | 4,632                     | 47,825                      |
| Pekus<br>Steamed/Bolled                            | 14                      | -      | -                         | -       | -                          | -                  | -                 | -                          | 14                        | -                       | -          | -                         | -                          | 0                         | 14                          |
| Ditagikan<br>Fermented                             | 7                       | 7      | 2,256                     | 10      | 8,416                      | -                  | 784               | 740                        | 12,220                    | 333                     | 330        | -                         | 891                        | 1,554                     | 13,774                      |
| Lain-Lain<br>Others                                | -                       | 1      | -                         | 5,660   | -                          | -                  | -                 | 922                        | 6,783                     | 162                     | 1,920      | 280                       | 247                        | 2,609                     | 9,392                       |
| Diguna untuk mengubahkan<br>Disposed for reduction | -                       | 19,200 | 1,724                     | 65,175  | 31,965                     | -                  | -                 | -                          | 118,084                   | -                       | -          | 10,556                    | 34,911                     | 45,487                    | 163,551                     |
| Diguna untuk lain-lain<br>Disposed for others      | -                       | 3,713  | 454                       | 23,388  | 7,432                      | -                  | -                 | -                          | 34,987                    | -                       | -          | -                         | -                          | 0                         | 34,987                      |
| Jumlah (Tan Metrik)<br>Total (Tonnes)              | 42,369                  | 75,615 | 39,624                    | 198,974 | 112,646                    | 221                | 1,989             | 18,905                     | 489,334                   | 32,982                  | 78,815     | 68,730                    | 77,023                     | 257,550                   | 746,884                     |

**SEMANAJUNG MALAYSIA/PENINSULAR MALAYSIA**  
**HASIL LAUT YANG DIAWETKAN, 1989**  
**PROCESSED MARINE FISH PRODUCTS, 1989**  
 Timbangan dalam Tan Metrik/Weight in Tonnes

Jadual (Table) 10.2

| Negari(State)                        | Ikan Masin/<br>Ikan Kering<br>(Salted/<br>Dried<br>Fish) | Bila<br>Kering<br>(Dried<br>Anchovies) | Ikan<br>Rebus<br>(Boiled<br>Fish) | Ikan<br>Baja<br>(Marine<br>Fish) | Tapung<br>Ikan<br>(Fish<br>Meal) | Udang<br>Kering<br>(Dried<br>Prawn) | Otak<br>Udang<br>(Prawn<br>Paste) | Belacan<br>(Shrimp<br>Paste) | Keropok(Crackers) |                  | Cincaluk<br>(Pickled<br>Prawn) | Botong<br>Kering<br>(Dried<br>Cuttle-<br>Fish) | Budu<br>(Fermented<br>Anchovies) | Ubur-<br>Ubur<br>(Dried<br>Jelly<br>Fish) | Lala<br>Kering<br>(Dried<br>Shell-<br>fish) | Bebola<br>Ikan<br>(Fish<br>Ball) | Botong<br>Beku<br>(Frozen<br>Cuttle-<br>Fish) | Selay<br>Ikan<br>(Salty<br>Fish) | Udang<br>Beku<br>(Frozen<br>Prawn) | Jumlah<br>(Total) |
|--------------------------------------|----------------------------------------------------------|----------------------------------------|-----------------------------------|----------------------------------|----------------------------------|-------------------------------------|-----------------------------------|------------------------------|-------------------|------------------|--------------------------------|------------------------------------------------|----------------------------------|-------------------------------------------|---------------------------------------------|----------------------------------|-----------------------------------------------|----------------------------------|------------------------------------|-------------------|
|                                      |                                                          |                                        |                                   |                                  |                                  |                                     |                                   |                              | Ikan<br>(Fish)    | Udang<br>(Prawn) |                                |                                                |                                  |                                           |                                             |                                  |                                               |                                  |                                    |                   |
| <b>Pantai Barat/<br/>West Coast:</b> |                                                          |                                        |                                   |                                  |                                  |                                     |                                   |                              |                   |                  |                                |                                                |                                  |                                           |                                             |                                  |                                               |                                  |                                    |                   |
| Perlis                               | 48                                                       | 0                                      | 12                                | 0                                | 0                                | 0                                   | 0                                 | 2                            | 0                 | 0                | 0                              | 0                                              | 0                                | 0                                         | 0                                           | 0                                | 0                                             | 0                                | 0                                  | 62                |
| Kedah                                | 1,089                                                    | 3,905                                  | 0                                 | 2,228                            | 4,800                            | 0                                   | 0                                 | 2                            | 0                 | 0                | 0                              | 0                                              | 0                                | 0                                         | 0                                           | 0                                | 0                                             | 0                                | 0                                  | 12,015            |
| Pulau Pinang                         | 348                                                      | 0                                      | 0                                 | 273                              | 431                              | 87                                  | 87                                | 508                          | 0                 | 0                | 0                              | 0                                              | 0                                | 9                                         | 0                                           | 0                                | 0                                             | 0                                | 0                                  | 1,723             |
| Perak                                | 1,888                                                    | 2,913                                  | 0                                 | 14,033                           | 18,294                           | 1,145                               | 1                                 | 512                          | 0                 | 0                | 0                              | 46                                             | 0                                | 0                                         | 0                                           | 2,797                            | 158                                           | 647                              | 3,019                              | 48,447            |
| Selangor                             | 374                                                      | 0                                      | 0                                 | 4,488                            | 7,996                            | 146                                 | 0                                 | 2,603                        | 0                 | 0                | 0                              | 0                                              | 0                                | 320                                       | 13                                          | 0                                | 0                                             | 0                                | 0                                  | 18,011            |
| N.Sembilan                           | 0                                                        | 0                                      | 0                                 | 0                                | 0                                | 0                                   | 0                                 | 0                            | 0                 | 0                | 0                              | 0                                              | 0                                | 0                                         | 0                                           | 0                                | 0                                             | 0                                | 0                                  | 0                 |
| Malaka/Malacca                       | 0                                                        | 0                                      | 0                                 | 0                                | 0                                | 0                                   | 0                                 | 222                          | 0                 | 0                | 28                             | 0                                              | 0                                | 0                                         | 0                                           | 0                                | 0                                             | 0                                | 0                                  | 258               |
| Johor Barat/<br>West Johore          | 47                                                       | 4                                      | 0                                 | 0                                | 184                              | 0                                   | 0                                 | 230                          | 9                 | 14               | 6                              | 0                                              | 0                                | 29                                        | 0                                           | 46                               | 0                                             | 18                               | 0                                  | 587               |
| <b>Jumlah Kecil/<br/>Sub-Total</b>   | <b>3,788</b>                                             | <b>6,821</b>                           | <b>12</b>                         | <b>20,988</b>                    | <b>28,715</b>                    | <b>1,378</b>                        | <b>88</b>                         | <b>4,171</b>                 | <b>10</b>         | <b>14</b>        | <b>34</b>                      | <b>46</b>                                      | <b>0</b>                         | <b>367</b>                                | <b>13</b>                                   | <b>2,843</b>                     | <b>158</b>                                    | <b>665</b>                       | <b>3,019</b>                       | <b>74,113</b>     |
| <b>Pantai Timur/<br/>East Coast:</b> |                                                          |                                        |                                   |                                  |                                  |                                     |                                   |                              |                   |                  |                                |                                                |                                  |                                           |                                             |                                  |                                               |                                  |                                    |                   |
| Kelantan                             | 188                                                      | 0                                      | 0                                 | 0                                | 0                                | 0                                   | 0                                 | 0                            | 105               | 0                | 0                              | 0                                              | 100                              | 0                                         | 0                                           | 0                                | 0                                             | 0                                | 0                                  | 401               |
| Terengganu                           | 238                                                      | 588                                    | 0                                 | 0                                | 0                                | 0                                   | 0                                 | 0                            | 1,248             | 0                | 0                              | 75                                             | 98                               | 0                                         | 0                                           | 0                                | 0                                             | 0                                | 0                                  | 2,210             |
| Pahang                               | 518                                                      | 108                                    | 0                                 | 0                                | 2,698                            | 0                                   | 0                                 | 0                            | 115               | 0                | 0                              | 0                                              | 0                                | 0                                         | 0                                           | 62                               | 0                                             | 0                                | 0                                  | 3,443             |
| Johor Timur/<br>East Johore          | 0                                                        | 24                                     | 0                                 | 0                                | 8,728                            | 0                                   | 0                                 | 285                          | 161               | 0                | 0                              | 0                                              | 0                                | 0                                         | 0                                           | 0                                | 0                                             | 0                                | 0                                  | 9,198             |
| <b>Jumlah Kecil/<br/>Sub-Total</b>   | <b>947</b>                                               | <b>699</b>                             | <b>0</b>                          | <b>0</b>                         | <b>11,527</b>                    | <b>0</b>                            | <b>0</b>                          | <b>285</b>                   | <b>1,629</b>      | <b>0</b>         | <b>0</b>                       | <b>75</b>                                      | <b>198</b>                       | <b>0</b>                                  | <b>0</b>                                    | <b>62</b>                        | <b>0</b>                                      | <b>0</b>                         | <b>0</b>                           | <b>15,252</b>     |
| <b>Jumlah Besar/<br/>Grand-Total</b> | <b>4,735</b>                                             | <b>7,510</b>                           | <b>12</b>                         | <b>20,988</b>                    | <b>41,082</b>                    | <b>1,378</b>                        | <b>88</b>                         | <b>4,456</b>                 | <b>1,639</b>      | <b>14</b>        | <b>34</b>                      | <b>121</b>                                     | <b>198</b>                       | <b>367</b>                                | <b>13</b>                                   | <b>2,905</b>                     | <b>158</b>                                    | <b>665</b>                       | <b>3,019</b>                       | <b>89,365</b>     |

JADUAL (TABLE) 11

**MALAYSIA**  
**KILANG-KILANG AIR BATU DAN KEMUDAHAN-KEMUDAHAN PENYEJOKKAN SEHINGGA 31-12-1989**  
**ICE FACTORIES AND REFRIGERATION FACILITIES AS AT 31-12-1989**  
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

| Negeri/State                | Daya Pengeluaran Harian<br>(Daily Production Capacity) |                        |                                                      |                                      | Kemudahan Menyimpan<br>(Storage Capacity) |                     |             |
|-----------------------------|--------------------------------------------------------|------------------------|------------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------|-------------|
|                             | Bil.<br>(No.)                                          | Kuantiti<br>(Quantity) | Timbangan/Blok<br>Dalam Kg.<br>(Weight/Block In Kg.) | Harga se Blok<br>(Price/Block)<br>\$ | Bil.<br>(No.)                             | Kuantiti (Quantity) |             |
|                             |                                                        |                        |                                                      |                                      |                                           | Ais (Ice)           | Ikan (Fish) |
| Perlis                      | 3                                                      | 119                    | 145                                                  | 4.30                                 | 15                                        | 341                 | 270         |
| Kedah                       | 5                                                      | 190                    | 100                                                  | 5.06                                 | 64                                        | 604                 | 818         |
| P. Pinang/Penang            | 6                                                      | 288                    | 145                                                  | 6.70                                 | 13                                        | 940                 | 5121        |
| Perak                       | 15                                                     | 560                    | 45 - 110                                             | 5.60                                 | 32                                        | 2871                | 3390        |
| Selangor                    | 5                                                      | 248                    | 40 - 165                                             | 6.54                                 | 33                                        | 323                 | 441         |
| Melaka/Malacca              | 2                                                      | 77                     | 145                                                  | 8.00                                 | 31                                        | 77                  | 237         |
| N. Sembilan                 | 1                                                      | 28                     | 101                                                  | 6.40                                 | 17                                        | 21                  | 26          |
| Johor Barat/<br>West Johore | 4                                                      | 144                    | 28 - 75                                              | 0.00                                 | 8                                         | 137                 | 0           |
| Johor Timur/<br>East Johore | 3                                                      | 220                    | 28 - 30                                              | 0.00                                 | 12                                        | 253                 | 0           |
| Pahang                      | 6                                                      | 407                    | 45 - 136                                             | 5.69                                 | 6                                         | 699                 | 100         |
| Terengganu                  | 7                                                      | 282                    | 100 - 150                                            | 7.02                                 | 7                                         | 2630                | 2           |
| Kelantan                    | 13                                                     | 171                    | 45 - 135                                             | 4.56                                 | 11                                        | 495                 | 5130        |
| Sarawak                     | 43                                                     | 407                    | 3 - 36                                               | 2.71                                 | 20                                        | 790                 | 2100        |
| Sabah                       | 0                                                      | 311                    | 50 - 64                                              | 3.72                                 | -                                         | 1070                | 1845        |
| Jumlah/Total:               | 113                                                    | 3452                   | -                                                    | -                                    | 269                                       | 11251               | 19480       |

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA  
HASIL PERIKANAN DALAM RINGGIT, 1989  
(Fisheries Revenue in Ringgit, 1989)

JADUAL (TABLE) 12

| Jenis Hasil<br>(Type of Revenue) |  | HASIL NEGERI (STATE REVENUE) |                        |                                        |                   | HASIL PERIKANAN (FEDERAL REVENUE) |                                                                     |                                        |                                       |                   | Jumlah<br>Besar<br>(Grand Total) |
|----------------------------------|--|------------------------------|------------------------|----------------------------------------|-------------------|-----------------------------------|---------------------------------------------------------------------|----------------------------------------|---------------------------------------|-------------------|----------------------------------|
| Negeri/State                     |  | Perahu<br>(Boat)             | Perikanan<br>(Fishing) | Patil<br>Perahu<br>(Boat No.<br>Plate) | Jumlah<br>(Total) | Ikan<br>(Fish)                    | Bayaran Pindah<br>Milik & lain2<br>(Boat transfer<br>fee & Miscel.) | Kompaun/Denda<br>(Compound<br>or Fine) | Jualan<br>Pelbagai<br>(Miscellaneous) | Jumlah<br>(Total) |                                  |
| Perlis                           |  | 19,865.50                    | 136,273.00             | 793.00                                 | 156,931.50        | 0.00                              | 0.00                                                                | 0.00                                   | 0.00                                  | 0                 | 156,931.50                       |
| Kedah                            |  | 48,602.50                    | 354,396.00             | 2,507.00                               | 405,505.50        | 1,884.00                          | 0.00                                                                | 558,400.00                             | 1,800.00                              | 562084            | 967,589.50                       |
| P. Pinang/ Penang                |  | 20,740.50                    | 63,003.00              | 1,865.00                               | 85,608.50         | 960.00                            | 0.00                                                                | 61,900.00                              | 800.00                                | 63660             | 149,268.50                       |
| Perak                            |  | 95,871.00                    | 405,745.00             | 5,617.00                               | 507,233.00        | 777.00                            | 0.00                                                                | 233,500.00                             | 0.00                                  | 234277            | 741,510.00                       |
| Selangor                         |  | 52,419.00                    | 60,574.00              | 2,860.00                               | 115,853.00        | 0.00                              | 0.00                                                                | 89,800.00                              | 14.00                                 | 89814             | 205,667.00                       |
| Negeri Sembilan                  |  | 865.50                       | 516.00                 | 232.00                                 | 1,613.50          | 0.00                              | 0.00                                                                | 0.00                                   | 0.00                                  | 0                 | 1,613.50                         |
| Melaka/Malacca                   |  | 2,735.00                     | 1,551.00               | 1,129.00                               | 5,415.00          | 0.00                              | 0.00                                                                | 4,100.00                               | 0.00                                  | 4100              | 9,515.00                         |
| Kelantan                         |  | 15,251.50                    | 219,071.00             | 1,717.00                               | 236,039.50        | 33,040.50                         | 0.00                                                                | 34,600.00                              | 0.00                                  | 67640.5           | 303,680.00                       |
| Terengganu                       |  | 31,454.50                    | 61,228.00              | 2,303.00                               | 94,985.50         | 27,196.25                         | 44.00                                                               | 78,600.00                              | 30.00                                 | 105870.25         | 200,855.75                       |
| Pahang                           |  | 38,559.00                    | 469,901.00             | 1,112.00                               | 509,572.00        | 0.00                              | 7,985.00                                                            | 143,700.00                             | 63,798.00                             | 215483            | 725,055.00                       |
| Johor/Johore                     |  | 75,343.00                    | 330,374.00             | 5,177.00                               | 410,894.00        | 8,414.00                          | 0.00                                                                | 180,160.00                             | 0.00                                  | 188574            | 599,468.00                       |
| Jumlah Besar<br>(Grand Total)    |  | 401,707.00                   | 2,102,632.00           | 25,312.00                              | 2,529,651.00      | 72,271.75                         | 8,029.00                                                            | 1,384,760.00                           | 66,442.00                             | 1531502.75        | 4061153.75                       |

MALAYSIA  
ANGGARAN BILANGAN DAN LUAS KOLAM, BEKAS LOMBONG DAN SANGKAR YANG DIUSAHAKAN  
SERTA BILANGAN PENTERNAK MENGIKUT SISTEM PENTERNAKAN DAN NEGERI 1989  
ESTIMATED NUMBER AND AREA OF PONDS, DISUSED MINING POOLS AND CAGES  
AND NUMBER OF CULTURISTS BY CULTURE SYSTEM AND STATE, 1989

JADUAL (TABLE) 13.1

| Negeri<br>State              | Airtawar/Freshwater |                     |                                  |                               |                     |                                  |               |                         |                                  | Airpayau/Brackishwater |                     |                                  |               |                         |                                  | Jumlah/Total                                  |                     |                                  |               |                         |                                  |
|------------------------------|---------------------|---------------------|----------------------------------|-------------------------------|---------------------|----------------------------------|---------------|-------------------------|----------------------------------|------------------------|---------------------|----------------------------------|---------------|-------------------------|----------------------------------|-----------------------------------------------|---------------------|----------------------------------|---------------|-------------------------|----------------------------------|
|                              | Kolam Ponds         |                     |                                  | Bekas Lombong Ex-Mining Pools |                     |                                  | Sangkar Cages |                         |                                  | Kolam Ponds            |                     |                                  | Sangkar Cages |                         |                                  | Kolam & Bekas Lombong Ponds & Ex-Mining Pools |                     |                                  | Sangkar Cages |                         |                                  |
|                              | Bil. No.            | Luas (ha) Area (ha) | Bil. Penternak No. Of Culturists | Bil. No.                      | Luas (ha) Area (ha) | Bil. Penternak No. Of Culturists | Bil. No.      | Luas (m2) Area In Sq.m. | Bil. Penternak No. Of Culturists | Bil. No.               | Luas (ha) Area (ha) | Bil. Penternak No. Of Culturists | Bil. No.      | Luas (m2) Area In Sq.m. | Bil. Penternak No. Of Culturists | Bil. No.                                      | Luas (ha) Area (ha) | Bil. Penternak No. Of Culturists | Bil. No.      | Luas (m2) Area In Sq.m. | Bil. Penternak No. Of Culturists |
| Perlis                       | 105                 | 20.65               | 89                               | 0                             | 0.00                | 0                                | 0             | 0.00                    | 0                                | 2                      | 1.18                | 1                                | 14            | 87.86                   | 7                                | 107                                           | 21.83               | 90                               | 14            | 0.00                    | 7                                |
| Kedah                        | 770                 | 172.49              | 413                              | 8                             | 9.88                | 6                                | 16            | 144.00                  | 1                                | 150                    | 74.42               | 50                               | 865           | 7,207.02                | 49                               | 928                                           | 256.59              | 469                              | 881           | 7,351.02                | 50                               |
| Pulau Pinang/<br>Penang      | 254                 | 32.32               | 180                              | 0                             | 0.00                | 0                                | 0             | 0.00                    | 0                                | 3                      | 0.34                | 3                                | 9,425         | 56,766.61               | 125                              | 257                                           | 32.66               | 183                              | 9,425         | 56,766.61               | 125                              |
| Perak                        | 2,923               | 520.33              | 1,946                            | 149                           | 257.48              | 126                              | 238           | 2,381.44                | 21                               | 125                    | 59.19               | 30                               | 3,989         | 36,250.40               | 103                              | 3,197                                         | 837.00              | 2,102                            | 4,227         | 38,631.84               | 124                              |
| Selangor                     | 2,018               | 332.66              | 1,118                            | 230                           | 304.78              | 155                              | 474           | 7,316.00                | 407                              | 93                     | 25.40               | 32                               | 4,247         | 53,913.35               | 115                              | 2,341                                         | 662.84              | 1,305                            | 4,721         | 61,229.35               | 522                              |
| W.Perskutuan/<br>F.Territory | 0                   | 0.00                | 0                                | 0                             | 0.00                | 0                                | 0             | 0.00                    | 0                                | 0                      | 0.00                | 0                                | 0             | 0.00                    | 0                                | 0                                             | 0.00                | 0                                | 0             | 0.00                    | 0                                |
| N.Sembilan                   | 1,795               | 343.26              | 1,507                            | 31                            | 43.90               | 28                               | 72            | 648.00                  | 1                                | 18                     | 13.00               | 2                                | 0             | 0.00                    | 0                                | 1,844                                         | 400.16              | 1,537                            | 72            | 648.00                  | 1                                |
| Malaka/Malacca               | 760                 | 160.57              | 596                              | 0                             | 0.00                | 0                                | 84            | 2,270.32                | 50                               | 4                      | 1.54                | 4                                | 0             | 0.00                    | 0                                | 764                                           | 162.11              | 600                              | 84            | 2,270.32                | 50                               |
| Johor/Johore                 | 1,803               | 251.09              | 881                              | 12                            | 11.89               | 11                               | 12            | 103.62                  | 2                                | 568                    | 616.25              | 123                              | 4,105         | 49,182.41               | 158                              | 2,383                                         | 879.23              | 1,015                            | 4,117         | 49,286.03               | 160                              |
| Pahang                       | 1,084               | 203.31              | 769                              | 1                             | 2.00                | 1                                | 0             | 0.00                    | 0                                | 240                    | 231.79              | 9                                | 50            | 837.00                  | 1                                | 1,325                                         | 437.10              | 779                              | 50            | 837.00                  | 1                                |
| Terengganu                   | 535                 | 68.51               | 429                              | 0                             | 0.00                | 0                                | 0             | 0.00                    | 0                                | 20                     | 6.20                | 11                               | 98            | 746.64                  | 13                               | 555                                           | 74.71               | 440                              | 98            | 746.64                  | 13                               |
| Kelantan                     | 1,621               | 204.34              | 1,156                            | 0                             | 0.00                | 0                                | 52            | 483.60                  | 13                               | 75                     | 17.46               | 41                               | 72            | 2,686.72                | 4                                | 1,696                                         | 221.80              | 1,197                            | 124           | 3,170.32                | 17                               |
| Sarawak                      | 1,186               | 192.37              | 1,009                            | 0                             | 0.00                | 0                                | 0             | 0.00                    | 0                                | 0                      | 0.00                | 0                                | 0             | 0.00                    | 0                                | 1,186                                         | 192.37              | 1,009                            | 0             | 0.00                    | 0                                |
| Sabah                        | 8,360               | 954.97              | 3,807                            | 0                             | 0.00                | 0                                | 0             | 0.00                    | 0                                | 518                    | 350.00              | 97                               | 0             | 0.00                    | 0                                | 8,878                                         | 1,304.97            | 3,904                            | 0             | 0.00                    | 0                                |
| Jumlah/Total:                | 23,214              | 3,456.87            | 13,880                           | 431                           | 629.73              | 327                              | 948           | 13,346.98               | 495                              | 1,816                  | 1,396.77            | 403                              | 22,865        | 207,678.01              | 575                              | 25,461                                        | 5,483.37            | 14,610                           | 23,813        | 220,937.13              | 1,070                            |

Nota: Bagi Sarawak ia merujuk kepada kolam-kolam yang telah dibina dalam tahun semasa.  
Note: For Sarawak it refers to ponds constructed in this year

JADUAL (TABLE) 13.2

**MALAYSIA**  
**ANGGARAN BILANGAN DAN LUAS KOLAM BEKAS LOMBONG DAN SANGKAR AIRTAWAR YANG DIBUKA**  
**DAN TERBIAR SERTA BILANGAN PENTERNAK MENGIKUT NEGERI, 1989**  
**ESTIMATED NUMBER AND AREA OF NEWLY OPENED AND ABANDONED PONDS, DISUSED MINING POOLS**  
**AND FRESHWATER AND NUMBER OF CULTURISTS BY STATE, 1989**

| Negeri<br>State             | Dibuka dan Beroperasi/Opened and Operation |                     |                                 |                               |                     |                                 |               |                         |                                 | Terbiar/Abandoned |                     |                                 |                               |                     |                                 |               |                     |                                 |
|-----------------------------|--------------------------------------------|---------------------|---------------------------------|-------------------------------|---------------------|---------------------------------|---------------|-------------------------|---------------------------------|-------------------|---------------------|---------------------------------|-------------------------------|---------------------|---------------------------------|---------------|---------------------|---------------------------------|
|                             | Kolam Ponds                                |                     |                                 | Bekas Lombong Ex-Mining Pools |                     |                                 | Sangkar Cages |                         |                                 | Kolam Ponds       |                     |                                 | Bekas Lombong Ex-Mining Pools |                     |                                 | Sangkar Cages |                     |                                 |
|                             | Bil. No.                                   | Luas (ha) Area (ha) | Bil. Penternak No. Of Culturist | Bil. No.                      | Luas (ha) Area (ha) | Bil. Penternak No. Of Culturist | Bil. No.      | Luas (m2) Area In Sq.m. | Bil. Penternak No. Of Culturist | Bil. No.          | Luas (ha) Area (ha) | Bil. Penternak No. Of Culturist | Bil. No.                      | Luas (ha) Area (ha) | Bil. Penternak No. Of Culturist | Bil. No.      | Luas (ha) Area (ha) | Bil. Penternak No. Of Culturist |
| Perlis                      | 0                                          | 0.00                | 0                               | 0                             | 0.00                | 0                               | 0             | 0.00                    | 0                               | 40                | 6.95                | 34                              | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Kedah                       | 6                                          | 0.71                | 3                               | 0                             | 0.00                | 0                               | 4             | 36.00                   | 1                               | 227               | 69.34               | 97                              | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Pulau Pinang/ Penang        | 12                                         | 0.23                | 2                               | 0                             | 0.00                | 0                               | 0             | 0.00                    | 35                              | 35                | 4.29                | 23                              | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Perak                       | 55                                         | 12.36               | 42                              | 3                             | 6.50                | 2                               | 4             | 37.21                   | 1                               | 0                 | 0.00                | 0                               | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Selangor                    | 865                                        | 128.36              | 299                             | 0                             | 0.00                | 0                               | 354           | 6,132.00                | 302                             | 0                 | 0.00                | 0                               | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| W.Persekutuan/ F. Territory | 0                                          | 0.00                | 0                               | 0                             | 0.00                | 0                               | 0             | 0.00                    | 0                               | 0                 | 0.00                | 0                               | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| N.Sembilan                  | 8                                          | 0.82                | 8                               | 5                             | 8.10                | 5                               | 0             | 0.00                    | 0                               | 52                | 7.62                | 52                              | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Melaka/Malacca              | 45                                         | 8.76                | 30                              | 0                             | 0.00                | 0                               | 0             | 0.00                    | 0                               | 210               | 29.96               | 156                             | 2                             | 3.45                | 2                               | 0             | 0.00                | 0                               |
| Johor/Johore                | 218                                        | 22.75               | 47                              | 0                             | 0.00                | 0                               | 0             | 0.00                    | 0                               | 43                | 5.68                | 14                              | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Pahang                      | 70                                         | 27.52               | 39                              | 0                             | 0.00                | 0                               | 0             | 0.00                    | 0                               | 72                | 14.32               | 51                              | 1                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Terengganu                  | 50                                         | 6.03                | 43                              | 0                             | 0.00                | 0                               | 0             | 0.00                    | 0                               | 70                | 3.74                | 57                              | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Kelantan                    | 79                                         | 6.23                | 24                              | 0                             | 0.00                | 0                               | 0             | 0.00                    | 0                               | 78                | 9.99                | 71                              | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Sarawak                     | 1186                                       | 192.37              | 1009                            | 0                             | 0.00                | 0                               | 0             | 0.00                    | 0                               | 0                 | 0.00                | 0                               | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Sabah                       | 0                                          | 0.00                | 0                               | 0                             | 0.00                | 0                               | 0             | 0.00                    | 0                               | 0                 | 0.00                | 0                               | 0                             | 0.00                | 0                               | 0             | 0.00                | 0                               |
| Jumlah/Total:               | 2,594                                      | 406.14              | 1,546                           | 8                             | 14.60               | 7                               | 362           | 6,205.21                | 339                             | 827               | 151.89              | 555                             | 3                             | 3.45                | 2                               | 0             | 0.00                | 0                               |

\* Kolam, bekas lombong dan sangkar yang dibuka adalah tertakluk kepada yang dibuka dalam tahun semasa.

Newly opened and in operation ponds, ex-mining pools and cages are counted based on current year.

\* Kolam, bekas lombong dan sangkar yang terbiar adalah timbunan dari tahun sebelum dan tahun semasa.

Abandoned ponds, ex-mining pools and cages are cumulative figures.

MALAYSIA  
 ANGGARAN BILANGAN DAN LUAS, SERTA BILANGAN PENTERNAK  
 KOLAM DAN SANGKAR AIRPAYAU YANG DI BUKA DAN TERBIAR, 1989  
 ESTIMATED NUMBER AND AREA OF OPENED AND  
 ABANDONED BRACKISHWATER PONDS AND CAGES, AND NUMBER OF CULTURIST, 1989

JADUAL (TABLE) 13.3

| Negeri<br>State                 | Dibuka dan Beroperasi/Opened and Operation |                              |                                          |                  |                                  |                                          | Terbiar/Abandoned |                              |                                          |                  |                              |                                          |
|---------------------------------|--------------------------------------------|------------------------------|------------------------------------------|------------------|----------------------------------|------------------------------------------|-------------------|------------------------------|------------------------------------------|------------------|------------------------------|------------------------------------------|
|                                 | Kolam<br>Ponds                             |                              |                                          | Sangkar<br>Cages |                                  |                                          | Kolam<br>Ponds    |                              |                                          | Sangkar<br>Cages |                              |                                          |
|                                 | Bil.<br>No.                                | Luas<br>(ha)<br>Area<br>(ha) | Bil.<br>Penternak<br>No. Of<br>Culturist | Bil.<br>No.      | Luas<br>(m2)<br>Area<br>in Sq.m. | Bil.<br>Penternak<br>No. Of<br>Culturist | Bil.<br>No.       | Luas<br>(ha)<br>Area<br>(ha) | Bil.<br>Penternak<br>No. Of<br>Culturist | Bil.<br>No.      | Luas<br>(ha)<br>Area<br>(ha) | Bil.<br>Penternak<br>No. Of<br>Culturist |
| Perlis                          | 0                                          | 0.00                         | 0                                        | 0                | 0.00                             | 0                                        | 0                 | 0.00                         | 0                                        | 0                | 0.00                         | 0                                        |
| Kedah                           | 9                                          | 0.92                         | 3                                        | 20               | 180.00                           | 1                                        | 16                | 3.47                         | 5                                        | 36               | 210.96                       | 2                                        |
| Pulau Pinang/Penang             | 0                                          | 0.00                         | 0                                        | 56               | 472.16                           | 7                                        | 3                 | 0.34                         | 3                                        | 48               | 351.20                       | 4                                        |
| Perak                           | 1                                          | 0.55                         | 1                                        | 90               | 810.00                           | 2                                        | 0                 | 0.00                         | 0                                        | 16               | 148.84                       | 1                                        |
| Selangor                        | 12                                         | 3.06                         | 2                                        | 715              | 9,266.40                         | 9                                        | 0                 | 0.00                         | 0                                        | 0                | 0.00                         | 0                                        |
| W. Persekutuan/<br>F. Territory | 0                                          | 0.00                         | 0                                        | 0                | 0.00                             | 0                                        | 0                 | 0.00                         | 0                                        | 0                | 0.00                         | 0                                        |
| N. Sembilan                     | 0                                          | 0.00                         | 0                                        | 0                | 0.00                             | 0                                        | 0                 | 0.00                         | 0                                        | 0                | 0.00                         | 0                                        |
| Melaka/Malacca                  | 0                                          | 0.00                         | 0                                        | 0                | 0.00                             | 0                                        | 0                 | 0.00                         | 0                                        | 0                | 0.00                         | 0                                        |
| Johor/Johore                    | 16                                         | 7.46                         | 6                                        | 131              | 1,487.08                         | 13                                       | 16                | 6.68                         | 7                                        | 43               | 582.49                       | 9                                        |
| Pahang                          | 0                                          | 0.00                         | 0                                        | 0                | 0.00                             | 0                                        | 27                | 6.07                         | 12                                       | 0                | 0.00                         | 0                                        |
| Terengganu                      | 2                                          | 0.20                         | 2                                        | 12               | 108.00                           | 2                                        | 23                | 3.16                         | 11                                       | 6                | 54.00                        | 1                                        |
| Kelantan                        | 0                                          | 0.00                         | 0                                        | 2                | 74.42                            | 1                                        | 17                | 1.92                         | 14                                       | 0                | 0.00                         | 0                                        |
| Sarawak                         | 0                                          | 0.00                         | 0                                        | 0                | 0.00                             | 0                                        | 0                 | 0.00                         | 0                                        | 0                | 0.00                         | 0                                        |
| Sabah                           | 0                                          | 0.00                         | 0                                        | 0                | 0.00                             | 0                                        | 0                 | 0.00                         | 0                                        | 0                | 0.00                         | 0                                        |
| Jumlah/Total:                   | 40                                         | 12.19                        | 14                                       | 1,026            | 12,398.06                        | 35                                       | 102               | 21.64                        | 52                                       | 149              | 1,347.49                     | 17                                       |

\* Kolam Dan Sangkar Yang Dibuka Adalah Tertakluk Kepada Yang Dibuka Dalam Tahun Semasa.  
 Newly opened and in operation ponds and cages are counted based on current year.

\* Kolam dan sangkar yang terbiar adalah timbunan dari tahun sebelum dan tahun semasa.  
 Abandoned ponds and cages are accumulative figures.

MALAYSIA  
 ANGGARAN JUMLAH PENDARATAN IKAN TERNAKAN, KERANG DAN KUPANG MENGIKUT  
 NEGERI DAN SISTEM TERNAKAN 1989  
 ESTIMATED LANDINGS OF FISH, COCKLE AND MUSSELS  
 BY STATE AND CULTURE SYSTEM 1989  
 (TAN METRIK/TONNES)

JADUAL (TABLE) 14.1

| Negeri<br>State               | Air tawar/Freshwater |                              |                  | Air payau/Brackishwater |                  |                  |                   | Jumlah Kecil/Sub-total |                  |                  |                   | Jumlah<br>Grand Total<br>tan metrik<br>tonnes |
|-------------------------------|----------------------|------------------------------|------------------|-------------------------|------------------|------------------|-------------------|------------------------|------------------|------------------|-------------------|-----------------------------------------------|
|                               | Kolam<br>Ponds       | B.Lombong<br>Ex-Mining Pools | Sangkar<br>Cages | Kolam<br>Ponds          | Sangkar<br>Cages | Kerang<br>Cockle | Kupang<br>Mussels | Kolam<br>Ponds         | Sangkar<br>Cages | Kerang<br>Cockle | Kupang<br>Mussels |                                               |
| Perlis                        | 10.67                | 0.00                         | 0.00             | 0.20                    | 0.00             | 27.31            | 0.00              | 10.87                  | 0.00             | 27.31            | 0.00              | 38.18                                         |
| Kedah                         | 92.34                | 5.58                         | 0.20             | 22.21                   | 8.65             | 147.80           | 0.00              | 120.13                 | 8.85             | 147.80           | 0.00              | 276.78                                        |
| P.Pinang/Penang               | 25.35                | 0.00                         | 0.00             | 0.00                    | 541.42           | 8,133.58         | 2.50              | 25.35                  | 541.42           | 8,133.58         | 2.50              | 8,702.85                                      |
| Perak                         | 845.72               | 462.91                       | 4.03             | 31.40                   | 74.96            | 22,054.44        | 99.60             | 1,340.03               | 78.99            | 22,054.44        | 99.60             | 23,573.06                                     |
| Selangor                      | 584.23               | 182.22                       | 123.24           | 45.00                   | 801.20           | 7,562.40         | 6.66              | 811.45                 | 924.44           | 7,562.40         | 6.66              | 9,304.95                                      |
| W.Persekutuan/<br>F.Territory | 0.00                 | 0.00                         | 0.00             | 0.00                    | 0.00             | 0.00             | 0.00              | 0.00                   | 0.00             | 0.00             | 0.00              | 0.00                                          |
| N. Sembilan                   | 228.26               | 39.89                        | 1.40             | 5.58                    | 0.00             | 0.00             | 5.92              | 273.73                 | 1.40             | 0.00             | 5.92              | 281.05                                        |
| Melaka/Malacca                | 143.30               | 0.00                         | 10.68            | 5.15                    | 0.00             | 0.00             | 104.26            | 148.45                 | 10.68            | 0.00             | 104.26            | 263.39                                        |
| Johor/Johore                  | 142.90               | 16.97                        | 0.67             | 915.76                  | 466.69           | 220.59           | 1,331.69          | 1,075.63               | 467.36           | 220.59           | 1,331.69          | 3,095.27                                      |
| Pahang                        | 266.87               | 0.00                         | 0.00             | 340.79                  | 0.00             | 0.00             | 0.00              | 607.66                 | 0.00             | 0.00             | 0.00              | 607.66                                        |
| Terengganu                    | 14.05                | 0.00                         | 0.00             | 7.47                    | 1.32             | 0.00             | 0.13              | 21.52                  | 1.32             | 0.00             | 0.13              | 22.97                                         |
| Kelantan                      | 125.71               | 0.00                         | 1.10             | 12.83                   | 0.84             | 0.00             | 0.00              | 138.54                 | 1.94             | 0.00             | 0.00              | 140.48                                        |
| Sarawak                       | 164.28               | 0.00                         | 0.00             | 48.00                   | 0.00             | 0.00             | 0.00              | 212.28                 | 0.00             | 0.00             | 0.00              | 212.28                                        |
| Sabah                         | 4,700.00             | 0.00                         | 0.00             | 700.00                  | 0.00             | 1,200.00         | 0.00              | 5,400.00               | 0.00             | 1,200.00         | 0.00              | 6,600.00                                      |
| Jumlah/Total:                 | 7,343.68             | 707.57                       | 141.32           | 2,134.39                | 1,895.08         | 39,346.12        | 1,550.76          | 10,185.64              | 2,036.40         | 39,346.12        | 1,550.76          | 53,118.92                                     |

**MALAYSIA**  
**ANGGARAN NILAI BORONG IKAN TERNAKAN, KERANG DAN KUPANG MENGIKUT**  
**NEGERI DAN SISTEM TERNAKAN 1989**  
**ESTIMATED WHOLESALE VALUE OF FISH, COCKLE AND MUSSEL**  
**BY STATE AND CULTURE SYSTEM 1989**  
**(NILAI DALAM RM '000/VALUE IN RM '000)**

**JADUAL (TABLE) 14.2**

| Negeri/<br>State              | Air-tanah/Freshwater |                               |                  | Air-payau/Brackishwater |                  |                  |                   | Jumlah (RM)/Total (RM)                        |                  |                  |                   | Jumlah Besar<br>Grand Total |
|-------------------------------|----------------------|-------------------------------|------------------|-------------------------|------------------|------------------|-------------------|-----------------------------------------------|------------------|------------------|-------------------|-----------------------------|
|                               | Kolam<br>Ponds       | Bekas Lombong<br>Mining Pools | Sangkar<br>Cages | Kolam<br>Ponds          | Sangkar<br>Cages | Kerang<br>Cockle | Kupang<br>Mussels | Kolam & Bekas Lombong<br>Ponds & Mining Pools | Sangkar<br>Cages | Kerang<br>Cockle | Kupang<br>Mussels |                             |
| Pekis                         | 88.88                | 0.00                          | 0.00             | 3.80                    | 0.00             | 8.19             | 0.00              | 63.26                                         | 0.00             | 8.19             | 0.00              | 71.45                       |
| Kedah                         | 386.46               | 26.88                         | 1.88             | 386.52                  | 98.08            | 44.34            | 0.00              | 728.63                                        | 100.08           | 44.34            | 0.00              | 873.06                      |
| P.Penang/Penang               | 178.98               | 0.00                          | 0.00             | 0.00                    | 5,735.85         | 3,253.43         | 1.12              | 179.98                                        | 5,735.85         | 3,253.43         | 1.12              | 9,170.19                    |
| Perak                         | 3,257.58             | 1,548.32                      | 18.88            | 612.38                  | 887.33           | 8,821.78         | 57.48             | 5,418.38                                      | 913.41           | 8,821.78         | 57.48             | 15,209.06                   |
| Selangor                      | 3,488.67             | 847.15                        | 612.17           | 810.00                  | 6,840.88         | 2,848.84         | 4.33              | 4,928.62                                      | 7,452.85         | 2,848.84         | 4.33              | 15,030.64                   |
| W.Perselatan/<br>F.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                        |
| M. Sembilan                   | 918.78               | 118.47                        | 4.88             | 182.17                  | 0.00             | 0.00             | 4.44              | 1,137.34                                      | 4.90             | 0.00             | 4.44              | 1,146.68                    |
| Malaka/Malacca                | 574.28               | 0.00                          | 48.98            | 41.28                   | 0.00             | 0.00             | 52.13             | 615.40                                        | 48.98            | 0.00             | 52.13             | 708.49                      |
| Johor/Johore                  | 1,288.83             | 58.91                         | 3.18             | 18,835.01               | 4,731.02         | 48.32            | 588.26            | 20,182.55                                     | 4,734.21         | 48.32            | 588.26            | 25,582.34                   |
| Perang                        | 1,873.88             | 0.00                          | 0.00             | 7,488.32                | 0.00             | 0.00             | 0.00              | 9,360.22                                      | 0.00             | 0.00             | 0.00              | 9,360.22                    |
| Terengganu                    | 81.37                | 0.00                          | 0.00             | 88.88                   | 8.58             | 0.00             | 0.06              | 148.46                                        | 8.58             | 0.00             | 0.06              | 148.10                      |
| Kelantan                      | 548.88               | 0.00                          | 4.54             | 128.84                  | 8.72             | 0.00             | 0.00              | 687.02                                        | 11.26            | 0.00             | 0.00              | 678.28                      |
| Sarawak                       | 832.46               | 0.00                          | 0.00             | 788.88                  | 0.00             | 0.00             | 0.00              | 1,700.46                                      | 0.00             | 0.00             | 0.00              | 1,700.46                    |
| Sabah                         | 28,187.88            | 0.00                          | 0.00             | 6,888.88                | 0.00             | 3,380.00         | 0.00              | 35,187.00                                     | 0.00             | 3,380.00         | 0.00              | 38,547.00                   |
| Jumlah/Total                  | 42,844.47            | 2,388.71                      | 882.84           | 35,271.15               | 18,318.88        | 18,188.88        | 718.82            | 88,305.33                                     | 18,801.88        | 18,188.88        | 718.82            | 118,206.95                  |

MALAYSIA  
ANGGARAN NILAI RUNCIT IKAN TERNAKAN, KERANG DAN KUPANG MENGIKUT NEGERI DAN  
SISTEM TERNAKAN 1989  
ESTIMATED RETAIL VALUE OF FISH, COCKLE AND MUSSEL  
BY STATE AND CULTURE SYSTEM 1989  
(NILAI DALAM M\$ '000/VALUE IN M\$ '000)

JADUAL (TABLE) 14.3

| Negeri<br>State               | Airtawar/Freshwater |                                  |                  | Airpayau/Brackishwater |                  |                  |                   | Jumlah (M\$)/Total (M\$)                         |                  |                  |                   | Jumlah Besar<br>Grand Total |
|-------------------------------|---------------------|----------------------------------|------------------|------------------------|------------------|------------------|-------------------|--------------------------------------------------|------------------|------------------|-------------------|-----------------------------|
|                               | Kolam<br>Ponds      | Bekas Lombong<br>Ex-Mining Pools | Sangkar<br>Cages | Kolam<br>Ponds         | Sangkar<br>Cages | Kerang<br>Cockle | Kupang<br>Mussels | Kolam & Bekas Lombong<br>Ponds & Ex-mining Pools | Sangkar<br>Cages | Kerang<br>Cockle | Kupang<br>Mussels |                             |
| Perlis                        | 68.31               | 0.00                             | 0.00             | 3.60                   | 0.00             | 35.68            | 0.00              | 71.91                                            | 0.00             | 35.68            | 0.00              | 107.59                      |
| Kedah                         | 400.65              | 30.52                            | 1.08             | 440.78                 | 120.16           | 143.89           | 0.00              | 871.95                                           | 121.24           | 143.89           | 0.00              | 1,137.08                    |
| P.Pinang/Penang               | 230.52              | 0.00                             | 0.00             | 0.00                   | 6,500.60         | 4,880.15         | 2.25              | 230.52                                           | 6,500.60         | 4,880.15         | 0.71              | 11,611.98                   |
| Perak                         | 4,562.47            | 2,181.41                         | 21.84            | 800.70                 | 997.99           | 13,232.66        | 89.64             | 7,544.58                                         | 1,019.83         | 13,232.66        | 60.28             | 21,857.35                   |
| Selangor                      | 4,443.85            | 926.20                           | 741.30           | 900.00                 | 7,879.85         | 3,781.20         | 6.66              | 6,270.05                                         | 8,621.15         | 3,781.20         | 0.74              | 18,673.14                   |
| W.Persekutuan/<br>F.Territory | 0.00                | 0.00                             | 0.00             | 0.00                   | 0.00             | 0.00             | 0.00              | 0.00                                             | 0.00             | 0.00             | 0.00              | 0.00                        |
| N. Sembilan                   | 1,193.84            | 166.06                           | 7.70             | 102.69                 | 0.00             | 0.00             | 5.92              | 1,462.59                                         | 7.70             | 0.00             | 2.32              | 1,472.61                    |
| Melaka/Malacca                | 731.87              | 0.00                             | 51.78            | 48.93                  | 0.00             | 0.00             | 62.56             | 780.80                                           | 51.78            | 0.00             | 25.87             | 858.45                      |
| Johor/Johore                  | 1,575.17            | 72.97                            | 3.68             | 21,399.33              | 5,263.62         | 154.41           | 932.18            | 23,047.47                                        | 5,267.30         | 154.41           | 819.29            | 29,288.47                   |
| Pahang                        | 1,408.25            | 0.00                             | 0.00             | 8,507.11               | 0.00             | 0.00             | 0.00              | 9,915.36                                         | 0.00             | 0.00             | 0.00              | 9,915.36                    |
| Terengganu                    | 65.04               | 0.00                             | 0.00             | 101.26                 | 10.56            | 0.00             | 0.11              | 166.30                                           | 10.56            | 0.00             | 0.00              | 176.86                      |
| Kelantan                      | 652.05              | 0.00                             | 5.74             | 150.09                 | 8.40             | 0.00             | 0.00              | 802.14                                           | 14.14            | 0.00             | 0.00              | 816.28                      |
| Sarawak                       | 2,274.60            | 0.00                             | 0.00             | 864.00                 | 0.00             | 0.00             | 0.00              | 3,138.60                                         | 0.00             | 0.00             | 0.00              | 3,138.60                    |
| Sabah                         | 31,908.30           | 0.00                             | 0.00             | 7,203.00               | 0.00             | 4,200.00         | 0.00              | 39,111.30                                        | 0.00             | 4,200.00         | 0.00              | 43,311.30                   |
| Jumlah/Total:                 | 49,514.92           | 3,377.16                         | 833.12           | 40,521.49              | 20,781.18        | 26,427.99        | 1,099.32          | 93,413.57                                        | 21,614.30        | 26,427.99        | 1,099.32          | 142,555.18                  |

**MALAYSIA**  
**BILANGAN DAN LUAS KOLAM BINAAN AIRTAWAR YANG DIUSAHAKAN**  
**SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1989**  
**NUMBER AND AREA OF FRESHWATER PONDS IN OPERATION AND**  
**NUMBER OF CULTURISTS BY RACE AND STATE, 1989**

**JADUAL (TABLE) 15.1**

| Negeri<br>State               | Kolam Airtawar<br>Freshwater Ponds |                           | Bilangan Penternak Ikan<br>Number Of Culturists |                 |                 |                     | Jumlah<br>Total |
|-------------------------------|------------------------------------|---------------------------|-------------------------------------------------|-----------------|-----------------|---------------------|-----------------|
|                               | Bilangan<br>Number                 | Luas (ha)<br>Area<br>(ha) | Melayu<br>Malay                                 | Cina<br>Chinese | India<br>Indian | Lain-Lain<br>Others |                 |
| Perlis                        | 105                                | 20.65                     | 87                                              | 1               | 0               | 1                   | 89              |
| Kedah                         | 770                                | 172.49                    | 393                                             | 7               | 0               | 13                  | 413             |
| P.Pinang/Penang               | 254                                | 32.32                     | 130                                             | 21              | 1               | 8                   | 160             |
| Perak                         | 2,923                              | 520.33                    | 1,469                                           | 397             | 16              | 64                  | 1,946           |
| Selangor                      | 2,018                              | 332.66                    | 807                                             | 184             | 42              | 85                  | 1,118           |
| W.Persekutuan/<br>F.Territory | 0                                  | 0.00                      | 0                                               | 0               | 0               | 0                   | 0               |
| N. Sembilan                   | 1,795                              | 343.26                    | 1,365                                           | 79              | 4               | 59                  | 1,507           |
| Melaka/Malacca                | 760                                | 160.57                    | 485                                             | 101             | 9               | 1                   | 596             |
| Johor/Johore                  | 1,803                              | 251.09                    | 600                                             | 265             | 1               | 15                  | 881             |
| Pahang                        | 1,084                              | 203.31                    | 666                                             | 95              | 4               | 4                   | 769             |
| Terengganu                    | 535                                | 68.51                     | 412                                             | 17              | 0               | 0                   | 429             |
| Kelantan                      | 1,621                              | 204.34                    | 1,124                                           | 31              | 1               | 0                   | 1,156           |
| Sarawak                       | 1,186                              | 192.37                    | 25                                              | 152             | 0               | 832                 | 1,009           |
| Sabah                         | 8,360                              | 954.97                    | 3,807                                           | 0               | 0               | 0                   | 3,807           |
| Jumlah/Total:                 | 23,214                             | 3,456.87                  | 11,370                                          | 1,350           | 78              | 1,082               | 13,880          |

MALAYSIA  
 ANGGAHAN PENGELUARAN IKAN DARI KOLAM AIRTAWAR  
 MENGIKUT NEGERI DAN JENIS IKAN, 1989  
 ESTIMATED FISH PRODUCTIONS FROM FRESHWATER PONDS  
 BY STATE AND SPECIES, 1989  
 (Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 15.2

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| Negeri<br>State              | Lampam<br>Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Kap<br>Rumput<br>Grass<br>Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Udang Galah<br>Giant Fresh-<br>water Prawn | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red<br>Tilapia | Jelawat<br>River<br>Carp | Keli<br>Freshwater<br>Cattfish | Ketutu<br>Goby | Pelbagai<br>Miscellaneous | Jumlah<br>Total |
|------------------------------|------------------------------------|---------------------------|--------------------------------|-----------------------------------------|--------------------------------------------|--------------------------------------|------------------------------------|--------------------------|--------------------------------|----------------|---------------------------|-----------------|
| Perlis                       | 0.00                               | 3.20                      | 0.00                           | 2.56                                    | 2.40                                       | 1.92                                 | 0.32                               | 0.00                     | 0.00                           | 0.00           | 0.27                      | 10.67           |
| Kedah                        | 17.52                              | 10.94                     | 1.81                           | 5.81                                    | 2.99                                       | 16.66                                | 7.39                               | 3.29                     | 16.04                          | 4.39           | 5.50                      | 92.34           |
| P.Pinang/<br>Penang          | 3.31                               | 1.23                      | 7.12                           | 1.32                                    | 0.71                                       | 8.35                                 | 1.16                               | 0.36                     | 0.79                           | 0.17           | 0.83                      | 25.35           |
| Perak                        | 70.08                              | 6.21                      | 352.15                         | 57.86                                   | 59.52                                      | 98.03                                | 154.61                             | 24.19                    | 15.63                          | 1.00           | 6.44                      | 845.72          |
| Selangor D.E.                | 52.43                              | 5.61                      | 130.85                         | 4.42                                    | 36.97                                      | 17.69                                | 181.28                             | 103.66                   | 15.72                          | 10.34          | 25.26                     | 584.23          |
| W.Persekutuan<br>F.Territory | 0.00                               | 0.00                      | 0.00                           | 0.00                                    | 0.00                                       | 0.00                                 | 0.00                               | 0.00                     | 0.00                           | 0.00           | 0.00                      | 0.00            |
| N. Sembilan                  | 10.58                              | 11.98                     | 89.60                          | 16.23                                   | 9.36                                       | 2.17                                 | 48.31                              | 11.70                    | 1.79                           | 1.01           | 25.53                     | 228.26          |
| Melaka/Malacca               | 42.26                              | 4.67                      | 18.19                          | 12.22                                   | 4.67                                       | 3.97                                 | 24.24                              | 5.32                     | 12.44                          | 0.81           | 14.51                     | 143.30          |
| Johor/Johore D.T.            | 19.29                              | 4.03                      | 16.07                          | 4.31                                    | 8.53                                       | 14.02                                | 6.47                               | 14.75                    | 4.51                           | 45.20          | 5.72                      | 142.90          |
| Pahang D.M.                  | 60.22                              | 23.74                     | 49.71                          | 10.92                                   | 1.16                                       | 14.35                                | 57.62                              | 17.84                    | 3.69                           | 0.00           | 27.62                     | 266.87          |
| Terengganu                   | 2.44                               | 0.92                      | 1.22                           | 0.68                                    | 0.22                                       | 2.28                                 | 1.45                               | 1.47                     | 1.35                           | 0.00           | 2.02                      | 14.05           |
| Kelantan                     | 22.53                              | 13.58                     | 24.10                          | 6.73                                    | 1.05                                       | 10.93                                | 9.83                               | 19.79                    | 7.85                           | 0.00           | 9.32                      | 125.71          |
| Sarawak                      | 25.00                              | 20.00                     | 35.00                          | 35.00                                   | 0.00                                       | 0.00                                 | 0.00                               | 30.00                    | 0.00                           | 0.00           | 19.28                     | 164.28          |
| Sabah                        | 1,410.00                           | 940.00                    | 141.00                         | 94.00                                   | 0.00                                       | 1,880.00                             | 0.00                               | 0.00                     | 0.00                           | 0.00           | 235.00                    | 4,700.00        |
| Jumlah/Total:                | 1,735.66                           | 1,046.11                  | 866.82                         | 252.06                                  | 127.58                                     | 2,070.37                             | 492.68                             | 232.37                   | 79.81                          | 62.92          | 377.30                    | 7,343.68        |

Nota : Pelbagai - Termasuk Ikan-ikan Ketutu, Haruan, Baung dan Sepat Siam.

Note : Miscellaneous - Includes Goby ,Snake Head ,River Cattfish and Snakeskin Gouramy.

MALAYSIA  
 ANGGARAN NILAI BORONG PENGELUARAN KOLAM AIRTAWAR MENGIKUT NEGERI DAN SPESIS, 1989  
 ESTIMATED WHOLESALE VALUE OF PRODUCTIONS FROM FRESHWATER PONDS  
 BY STATE AND SPECIES, 1989  
 (Nilai dalam M\$ '000/Value in M\$ '000)

JADUAL (TABLE) 15.3

| Negeri/State                  | Lampam Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Kap<br>Rumput<br>Grass Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Udang Galah<br>Giant Fresh-<br>water Prawn | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red<br>Tilapia | Keli<br>Freshwater<br>Catfish | Ketutu<br>Goby | Jelawat<br>River<br>Carp | Pelbagai<br>Miscellaneous | Jumlah<br>Total |
|-------------------------------|---------------------------------|---------------------------|-----------------------------|-----------------------------------------|--------------------------------------------|--------------------------------------|------------------------------------|-------------------------------|----------------|--------------------------|---------------------------|-----------------|
| Perlis                        | 0.00                            | 8.00                      | 0.00                        | 7.68                                    | 37.20                                      | 4.80                                 | 1.44                               | 0.00                          | 0.00           | 0.00                     | 0.54                      | 59.66           |
| Kedah                         | 35.04                           | 24.06                     | 7.24                        | 11.62                                   | 29.90                                      | 49.98                                | 36.95                              | 48.12                         | 13.17          | 41.12                    | 8.25                      | 305.45          |
| P.Pinang/Penang               | 21.18                           | 6.89                      | 43.43                       | 6.40                                    | 18.10                                      | 51.77                                | 10.67                              | 6.32                          | 5.10           | 4.32                     | 5.81                      | 179.99          |
| Perak                         | 175.20                          | 16.15                     | 1,056.45                    | 115.72                                  | 654.72                                     | 235.27                               | 664.82                             | 62.52                         | 20.00          | 241.90                   | 14.81                     | 3,257.56        |
| Selangor D.E.                 | 209.72                          | 22.44                     | 418.72                      | 13.26                                   | 517.58                                     | 56.61                                | 906.40                             | 47.16                         | 155.10         | 1,036.60                 | 85.88                     | 3,469.47        |
| W.Persekutuan/<br>F.Territory | 0                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0                                  | 0                             | 0              | 0                        | 0                         | 0.00            |
| N. Sembilan                   | 33.86                           | 35.94                     | 286.72                      | 40.58                                   | 135.72                                     | 6.51                                 | 169.08                             | 7.16                          | 18.18          | 93.6                     | 89.35                     | 916.70          |
| Melaka/Malacca                | 126.78                          | 12.61                     | 60.03                       | 28.1                                    | 68.18                                      | 12.7                                 | 92.12                              | 62.2                          | 16.2           | 37.24                    | 58.04                     | 574.20          |
| Johor/Johore D.T.             | 57.87                           | 12.9                      | 56.25                       | 13.79                                   | 119.42                                     | 42.06                                | 38.82                              | 15.79                         | 813.6          | 103.25                   | 22.88                     | 1,296.63        |
| Pahang D.M.                   | 391.43                          | 178.05                    | 397.68                      | 65.52                                   | 30.16                                      | 57.4                                 | 518.58                             | 31.37                         | 0              | 107.04                   | 96.67                     | 1,873.90        |
| Terengganu                    | 7.32                            | 2.76                      | 4.27                        | 2.38                                    | 1.87                                       | 7.98                                 | 5.51                               | 5.13                          | 0              | 8.09                     | 6.06                      | 51.37           |
| Kelantan                      | 82.35                           | 54.32                     | 96.40                       | 23.56                                   | 10.50                                      | 32.79                                | 42.27                              | 31.40                         | 0.00           | 138.53                   | 27.96                     | 540.08          |
| Sarawak                       | 112.50                          | 70.00                     | 140.00                      | 175.00                                  | 0.00                                       | 0.00                                 | 0.00                               | 0.00                          | 0.00           | 210.00                   | 224.96                    | 932.46          |
| Sabah                         | 7,050.00                        | 7,520.00                  | 987.00                      | 752.00                                  | 0.00                                       | 11,280.00                            | 0.00                               | 0.00                          | 0.00           | 0.00                     | 1,598.00                  | 29,187.00       |
| Jumlah/Total:                 | 8,303.25                        | 7,964.12                  | 3,554.19                    | 1,255.61                                | 1,623.35                                   | 11,837.87                            | 2,486.66                           | 317.17                        | 1,041.35       | 2,021.69                 | 2,239.21                  | 42,644.47       |

Nota : Pelbagai - termasuk ikan-ikan Ketutu, Haruan, Baung dan Sepat Siam.  
 Note : Miscellaneous - Includes Goby, Snake Head, River Catfish and Snakeskin Gouramy.

MALAYSIA  
 ANGGARAN NILAI RUNCIT PENGELUARAN KOLAM AIRTAWAR MENGIKUT NEGERI DAN SPESIS, 1989  
 ESTIMATED RETAIL VALUE OF PRODUCTIONS FROM FRESHWATER PONDS  
 BY STATE AND SPECIES, 1989  
 (Nilai dalam M\$ '000/Value in M\$ '000)

JADUAL (TABLE) 15.4

| Negeri/State                  | Lampam Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Kap<br>Rumput<br>Grass Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Udang Galah<br>Giant Fresh-<br>water Prawn | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red<br>Tilapia | Keli<br>Freshwater<br>Catfish | Ketutu<br>Goby | Jelawat<br>River<br>Carp | Pelbagai<br>Miscellaneous | Jumlah<br>Total |
|-------------------------------|---------------------------------|---------------------------|-----------------------------|-----------------------------------------|--------------------------------------------|--------------------------------------|------------------------------------|-------------------------------|----------------|--------------------------|---------------------------|-----------------|
| Perlis                        | 0.00                            | 9.60                      | 0.00                        | 9.47                                    | 40.80                                      | 6.14                                 | 1.76                               | 0.00                          | 0.00           | 0.00                     | 0.54                      | 68.31           |
| Kedah                         | 52.56                           | 41.57                     | 8.68                        | 18.30                                   | 35.88                                      | 53.31                                | 39.91                              | 80.20                         | 15.37          | 42.77                    | 12.10                     | 400.65          |
| P.Pinang/Penang               | 26.48                           | 10.70                     | 55.54                       | 6.73                                    | 20.95                                      | 70.98                                | 13.34                              | 8.06                          | 5.95           | 5.40                     | 6.39                      | 230.52          |
| Perak                         | 266.30                          | 26.08                     | 1,338.17                    | 162.01                                  | 952.32                                     | 382.32                               | 1,020.43                           | 75.02                         | 27.00          | 290.28                   | 22.54                     | 4,562.47        |
| Selangor D.E.                 | 288.37                          | 28.05                     | 654.25                      | 18.12                                   | 665.46                                     | 79.61                                | 1,087.68                           | 78.60                         | 186.12         | 1,243.92                 | 113.67                    | 4,443.85        |
| W.Persekutuan/<br>F.Territory | 0.00                            | 0.00                      | 0.00                        | 0.00                                    | 0.00                                       | 0.00                                 | 0.00                               | 0.00                          | 0.00           | 0.00                     | 0.00                      | 0.00            |
| N. Sembilan                   | 50.78                           | 53.91                     | 412.16                      | 55.18                                   | 140.40                                     | 10.42                                | 265.71                             | 10.74                         | 22.22          | 70.20                    | 102.12                    | 1,193.84        |
| Melaka/Malacca                | 185.04                          | 15.88                     | 81.85                       | 39.10                                   | 74.72                                      | 17.07                                | 118.78                             | 74.64                         | 18.63          | 45.22                    | 60.94                     | 731.87          |
| Johor/Johore D.T.             | 52.59                           | 18.94                     | 80.35                       | 19.40                                   | 136.48                                     | 60.29                                | 45.29                              | 22.55                         | 994.40         | 118.00                   | 26.88                     | 1,575.17        |
| Pahang D.M.                   | 270.99                          | 106.83                    | 273.40                      | 49.14                                   | 15.08                                      | 71.75                                | 345.72                             | 22.14                         | 0.00           | 142.72                   | 110.48                    | 1,408.25        |
| Terengganu                    | 10.98                           | 3.50                      | 5.12                        | 2.79                                    | 1.98                                       | 9.58                                 | 7.25                               | 6.48                          | 0.00           | 10.29                    | 7.07                      | 65.04           |
| Kelantan                      | 101.39                          | 61.11                     | 120.50                      | 26.92                                   | 12.60                                      | 49.19                                | 54.07                              | 35.33                         | 0.00           | 158.32                   | 32.62                     | 652.05          |
| Sarawak                       | 125.00                          | 80.00                     | 1,575.00                    | 192.50                                  | 0.00                                       | 0.00                                 | 0.00                               | 0.00                          | 0.00           | 225.00                   | 77.10                     | 2,274.60        |
| Sabah                         | 8,460.00                        | 8,460.00                  | 1,099.80                    | 846.00                                  | 0.00                                       | 11,280.00                            | 0.00                               | 0.00                          | 0.00           | 0.00                     | 1,762.50                  | 31,908.30       |
| Jumlah/Total:                 | 1,430.48                        | 456.17                    | 4,605.02                    | 599.66                                  | 2,096.67                                   | 810.66                               | 2,999.94                           | 413.76                        | 1,269.69       | 2,352.12                 | 572.45                    | 49,514.92       |

Nota : Pelbagai - termasuk ikan-ikan Ketutu, Haruan, Baung dan Sepat Siam.  
 Note : Miscellaneous - Includes Goby, Snake Head, River Catfish and Snakeskin Gouramy.

## MALAYSIA

JADUAL (TABLE) 16.1

BILANGAN DAN LUAS BEKAS LOMBONG YANG DIUSAHAKAN  
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1989  
NUMBER AND AREA OF EX-MINING POOLS IN OPERATION AND  
NUMBER OF CULTURISTS BY RACE AND STATE, 1989

| Negeri<br>State               | Bekas Lombong<br>Ex-Mining Pools |                   | Bilangan Penternak Ikan<br>Number Of Culturists |         |        |           |        |
|-------------------------------|----------------------------------|-------------------|-------------------------------------------------|---------|--------|-----------|--------|
|                               | Bilangan                         | Luas (ha)<br>Area | Melayu                                          | Cina    | India  | Lain-Lain | Jumlah |
|                               | Number                           | (ha)              | Malay                                           | Chinese | Indian | Others    | Total  |
| Perlis                        | 0                                | 0.00              | 0                                               | 0       | 0      | 0         | 0      |
| Kedah                         | 8                                | 9.68              | 2                                               | 2       | 0      | 2         | 6      |
| P.Pinang/Penang               | 0                                | 0.00              | 0                                               | 0       | 0      | 0         | 0      |
| Perak                         | 149                              | 257.48            | 52                                              | 68      | 0      | 6         | 126    |
| Selangor                      | 230                              | 304.78            | 59                                              | 85      | 1      | 10        | 155    |
| W.Persekutuan/<br>F.Territory | 0                                | 0.00              | 0                                               | 0       | 0      | 0         | 0      |
| N. Sembilan                   | 31                               | 43.90             | 3                                               | 23      | 0      | 2         | 28     |
| Melaka/Malacca                | 0                                | 0.00              | 0                                               | 0       | 0      | 0         | 0      |
| Johor/Johore                  | 12                               | 11.89             | 3                                               | 8       | 0      | 0         | 11     |
| Pahang                        | 1                                | 2.00              | 0                                               | 1       | 0      | 0         | 1      |
| 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:                 | 431                              | 629.73            | 119                                             | 187     | 1      | 20        | 327    |

**MALAYSIA**  
**ANGGARAN PENGELUARAN IKAN DARI BEKAS LOMBONG AIRTAWAR**  
**MENGIKUT NEGERI DAN SPESIS, 1989**  
**ESTIMATED FISH PRODUCTION FROM EX-MINING POOLS**  
**BY STATE AND SPECIES, 1989**  
**(Kuantiti dalam Tan Metrik/Quantity in Tonnes)**

**JADUAL (TABLE)16.2**

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| Negeri<br>State             | Lampam<br>Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Kap<br>Rumput<br>Grass<br>Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Udang Galah<br>Giant Fresh-<br>water Prawn | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red<br>Tilapia | Jelawat<br>River<br>Carp | Keli<br>Freshwater<br>Catfish | Ketutu<br>Goby | Pelbagai<br>Miscellaneous | Jumlah<br>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                       | 0.52                               | 0.26                      | 1.88                           | 0.00                                    | 0.00                                       | 1.66                                 | 0.16                               | 0.94                     | 0.00                          | 0.16           | 0.00                      | 5.58            |
| P.Pinang/<br>Penang         | 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                       | 7.80                               | 2.33                      | 129.85                         | 111.50                                  | 0.20                                       | 65.15                                | 92.08                              | 9.06                     | 7.36                          | 8.33           | 29.25                     | 462.91          |
| Selangor                    | 3.40                               | 0.00                      | 111.78                         | 23.84                                   | 0.00                                       | 3.66                                 | 30.50                              | 1.14                     | 0.00                          | 0.16           | 7.74                      | 182.22          |
| W.Perskutuan<br>F.Territory | 0.00                               | 0.00                      | 0.00                           | 0.00                                    | 0.00                                       | 0.00                                 | 0.00                               | 0.00                     | 0.00                          | 0.00           | 0.00                      | 0.00            |
| N. Sembilan                 | 0.71                               | 0.00                      | 13.60                          | 18.67                                   | 0.00                                       | 0.00                                 | 4.47                               | 0.00                     | 0.05                          | 0.12           | 2.27                      | 39.89           |
| Melaka/Malacca              | 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/Johore                | 0.00                               | 0.00                      | 0.00                           | 0.00                                    | 0.00                                       | 16.97                                | 0.00                               | 0.00                     | 0.00                          | 0.00           | 0.00                      | 16.97           |
| 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            |
| 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:               | 12.43                              | 2.59                      | 257.11                         | 154.01                                  | 0.20                                       | 87.44                                | 127.21                             | 11.14                    | 7.41                          | 8.77           | 39.26                     | 707.57          |

Nota : Pelbagai - Termasuk Ikan-ikan Ketutu, Haruan, Baung dan Sepat Siam.

Note :Miscellaneous - includes Goby ,Snake Head ,River Catfish and Snakeskin Gouramy.

MALAYSIA  
 ANGGARAN NILAI BORONG PENGELUARAN BEKAS LOMBONG MENGIKUT NEGERI DAN SPESIS, 1989  
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTIONS FROM EX-MINING POOLS  
 BY STATE AND SPECIES, 1989  
 (Nilai dalam M\$'000/Value in M\$'000)

JADUAL (TABLE) 16.3

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| Negeri/State                  | Lampam Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Kap<br>Rumput<br>Grass Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Udang Galah<br>Giant Fresh-<br>water Prawn | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red<br>Tilapia | Keli<br>Freshwater<br>Catfish | Ketutu<br>Goby | Jelawat<br>River<br>Carp | Pelbagai<br>Miscellaneous | Jumlah<br>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                         | 1.04                            | 0.57                      | 7.52                        | 0.00                                    | 0.00                                       | 4.98                                 | 0.80                               | 0.00                          | 0.00           | 11.75                    | 0.00                      | 26.66           |
| P.Pinang/Penang               | 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                         | 19.50                           | 6.05                      | 389.55                      | 223.00                                  | 2.20                                       | 156.36                               | 395.94                             | 29.44                         | 166.60         | 90.60                    | 67.28                     | 1,546.52        |
| Selangor                      | 13.60                           | 0.00                      | 357.70                      | 71.52                                   | 0.00                                       | 11.71                                | 152.50                             | 0.00                          | 2.40           | 11.40                    | 26.32                     | 647.15          |
| W.Persekutuan/<br>F.Territory | 0                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0                                  | 0                             | 0              | 0                        | 0                         | 0.00            |
| N. Sembilan                   | 2.27                            | 0                         | 43.52                       | 46.68                                   | 0                                          | 0                                    | 15.65                              | 0.24                          | 2.16           | 0                        | 7.95                      | 118.47          |
| Melaka/Malacca                | 0                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0                                  | 0                             | 0              | 0                        | 0                         | 0.00            |
| Johor/Johore                  | 0                               | 0                         | 0                           | 0                                       | 0                                          | 50.91                                | 0                                  | 0                             | 0              | 0                        | 0                         | 50.91           |
| Pahang                        | 0                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0                                  | 0                             | 0              | 0                        | 0                         | 0.00            |
| Terengganu                    | 0                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0                                  | 0                             | 0              | 0                        | 0                         | 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:                 | 36.41                           | 6.62                      | 798.29                      | 341.20                                  | 2.20                                       | 223.96                               | 564.89                             | 29.68                         | 171.16         | 113.75                   | 101.55                    | 2,389.71        |

Nota : Pelbagai - termasuk ikan-ikan Patin, Haruan, Baung dan Sepat Siam.

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

**MALAYSIA**  
**ANGGARAN NILAI RUNCIT PENGELUARAN BEKAS LOMBONG AIRTAWAR MENGIKUT NEGERI DAN SPECIES, 1989**  
**ESTIMATED RETAIL VALUE OF PRODUCTIONS FROM EX-MINING POOLS**  
**BY STATE AND SPECIES, 1989**  
(Nilai dalam M\$ '000/Value in M\$ '000)

JADUAL (TABLE) 16.4

| Negeri/State                  | Lampam Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Kap<br>Rumput<br>Grass Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Udang Galah<br>Giant Fresh-<br>water Prawn | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red<br>Tilapia | Keli<br>Freshwater<br>Catfish | Ketutu<br>Goby | Jelawat<br>River<br>Carp | Pelbagai<br>Miscellaneous | Jumlah<br>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                         | 1.56                            | 0.99                      | 9.02                        | 0.00                                    | 0.00                                       | 5.31                                 | 0.86                               | 0.00                          | 0.56           | 12.22                    | 0.00                      | 30.52           |
| P.Pinang/Penang               | 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                         | 29.64                           | 9.79                      | 493.43                      | 312.20                                  | 3.20                                       | 254.08                               | 607.73                             | 35.33                         | 224.91         | 108.72                   | 102.38                    | 2,181.41        |
| Selangor                      | 18.70                           | 0.00                      | 558.90                      | 97.74                                   | 0.00                                       | 16.47                                | 183.00                             | 0.00                          | 2.88           | 13.68                    | 34.83                     | 926.20          |
| W.Persekutuan/<br>F.Territory | 0                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0                                  | 0                             | 0              | 0                        | 0                         | 0.00            |
| N. Sembilan                   | 3.41                            | 0                         | 62.56                       | 63.48                                   | 0                                          | 0                                    | 24.59                              | 0.3                           | 2.64           | 0                        | 9.08                      | 166.06          |
| Melaka/Malacca                | 0                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0                                  | 0                             | 0              | 0                        | 0                         | 0.00            |
| Johor/Johore                  | 0                               | 0                         | 0                           | 0                                       | 0                                          | 72.97                                | 0                                  | 0                             | 0              | 0                        | 0                         | 72.97           |
| Pahang                        | 0                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0                                  | 0                             | 0              | 0                        | 0                         | 0.00            |
| Terengganu                    | 0                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0                                  | 0                             | 0              | 0                        | 0                         | 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                               | 0                         | 0                           | 0                                       | 0                                          | 0                                    | 0.00                               | 0.00                          | 0.00           | 0.00                     | 0.00                      | 0.00            |
| Jumlah/Total:                 | 53.31                           | 10.78                     | 1,123.91                    | 473.42                                  | 3.20                                       | 348.83                               | 816.18                             | 35.63                         | 230.99         | 134.62                   | 146.29                    | 3,377.16        |

Nota : Pelbagai - termasuk ikan-ikan Patin, Haruan, Baung dan Sepat Siam.  
Note : Miscellaneous - Includes Snake Head, River Catfish and Snakeskin Gouramy.

**MALAYSIA**  
**BILANGAN DAN LUAS SANGKAR AIRTAWAR YANG DIUSAHAKAN SERTA**  
**BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI**  
**NUMBER AND AREA OF FRESHWATER CAGES AND NUMBER OF CULTURISTS**  
**BY STATE, 1989**

**JADUAL (TABLE) 17.1**

| Negeri<br>State               | Sangkar Airtawar<br>Freshwater Cages |                                    | Bilangan Penternak Ikan<br>No. Of Culturists |                 |                 |                     | Jumlah<br>Total |
|-------------------------------|--------------------------------------|------------------------------------|----------------------------------------------|-----------------|-----------------|---------------------|-----------------|
|                               | Bilangan<br>Number                   | Luas (m2)<br>Area In<br>Sq. Metres | Melayu<br>Malay                              | Cina<br>Chinese | India<br>Indian | Lain-lain<br>Others |                 |
| Perlis                        | 0                                    | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| Kedah                         | 16                                   | 144.00                             | 1                                            | 0               | 0               | 1                   | 1               |
| P.Pinang/Penang               | 0                                    | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| Perak                         | 238                                  | 2,381.44                           | 12                                           | 9               | 0               | 0                   | 21              |
| Selangor                      | 474                                  | 7,316.00                           | 2                                            | 405             | 0               | 0                   | 407             |
| W.Persekutuan/<br>F.Territory | 0                                    | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| N. Sembilan                   | 72                                   | 648.00                             | 1                                            | 0               | 0               | 0                   | 1               |
| Melaka/Malacca                | 84                                   | 2,270.32                           | 27                                           | 23              | 0               | 0                   | 50              |
| Johor/Johore                  | 12                                   | 103.62                             | 1                                            | 1               | 0               | 0                   | 2               |
| Pahang                        | 0                                    | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| Terengganu                    | 0                                    | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| Kelantan                      | 52                                   | 483.60                             | 11                                           | 2               | 0               | 0                   | 13              |
| Sarawak                       | 0                                    | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| Sabah                         | 0                                    | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| Jumlah/Total:                 | 948                                  | 13,346.98                          | 55                                           | 440             | 0               | 1                   | 495             |

MALAYSIA  
 ANGGAHAN PENGELUARAN DARI SANGKAR AIRTAWAR MENGIKUT NEGERI DAN JENIS IKAN, 1989  
 ESTIMATED FISH PRODUCTION FROM FRESHWATER CAGES BY STATE AND SPECIES, 1989  
 (Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 17.2

| Negeri<br>State               | Lampam Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Kap Rumput<br>Grass Carp | Kap Kepala<br>Besar<br>Big Head Carp | Ketutu<br>Goby | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red<br>Tilapia | Jelawat<br>River<br>Carp | Patin<br>River<br>Catfish | Pelbagai<br>Miscellaneous | Jumlah<br>Total |
|-------------------------------|---------------------------------|---------------------------|--------------------------|--------------------------------------|----------------|--------------------------------------|------------------------------------|--------------------------|---------------------------|---------------------------|-----------------|
| Perlis                        | 0.00                            | 0.00                      | 0.00                     | 0.00                                 | 0.00           | 0.00                                 | 0                                  | 0.00                     | 0.00                      | 0.00                      | 0               |
| Kedah                         | 0.00                            | 0.00                      | 0.00                     | 0.00                                 | 0.00           | 0.00                                 | 0.2                                | 0.00                     | 0.00                      | 0.00                      | 0.2             |
| P.Pinang/<br>Penang           | 0.00                            | 0.00                      | 0.00                     | 0.00                                 | 0.00           | 0.00                                 | 0                                  | 0.00                     | 0.00                      | 0.00                      | 0               |
| Perak                         | 0.64                            | 0.00                      | 0.45                     | 0.00                                 | 0.00           | 0.58                                 | 0.23                               | 0.76                     | 0.00                      | 1.37                      | 4.03            |
| Selangor                      | 5.59                            | 0.00                      | 1.84                     | 0.12                                 | 0.13           | 0.00                                 | 112.95                             | 1.21                     | 0.00                      | 1.40                      | 123.24          |
| W.Persekutuan/<br>F.Territory | 0                               | 0                         | 0                        | 0                                    | 0              | 0                                    | 0                                  | 0                        | 0                         | 0                         | 0               |
| N. Sembilan                   | 0                               | 0                         | 0                        | 0                                    | 0              | 0                                    | 1.4                                | 0                        | 0                         | 0                         | 1.4             |
| Melaka/Malacca                | 0                               | 0                         | 0                        | 0                                    | 0              | 0.04                                 | 9.52                               | 0.06                     | 0                         | 1.06                      | 10.68           |
| Johor/Johore                  | 0.01                            | 0                         | 0.05                     | 0                                    | 0              | 0                                    | 0.21                               | 0.03                     | 0                         | 0.37                      | 0.67            |
| Pahang                        | 0                               | 0                         | 0                        | 0                                    | 0              | 0                                    | 0                                  | 0                        | 0                         | 0                         | 0               |
| Terengganu                    | 0                               | 0                         | 0                        | 0                                    | 0              | 0                                    | 0                                  | 0                        | 0                         | 0                         | 0               |
| Kelantan                      | 0.00                            | 0.00                      | 0.62                     | 0.00                                 | 0.00           | 0.00                                 | 0.48                               | 0.00                     | 0.00                      | 0.00                      | 1.1             |
| Sarawak                       | 0                               | 0                         | 0                        | 0                                    | 0              | 0                                    | 0                                  | 0                        | 0                         | 0                         | 0               |
| Jumlah/Total:                 | 6.24                            | 0.00                      | 2.96                     | 0.12                                 | 0.13           | 0.62                                 | 124.99                             | 2.06                     | 0.00                      | 4.20                      | 141.32          |

\* Pelbagai - Termasuk ikan-ikan Ketutu, Haruan, Baung dan Sepat Siam.  
 Miscellaneous - Includes Goby, River Catfish and Snakeskin Gouramy.

MALAYSIA  
 ANGARAN NILAI BORONG PENGELUARAN SANGKAR AIRTAWAR  
 MENGIKUT NEGERI DAN JENIS IKAN 1989  
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM FRESHWATER CAGES  
 BY STATE AND SPECIES, 1989  
 (Nilai dalam M\$ '000/Value in M\$ '000)

JADUAL (TABLE) 17.3

| Negeri<br>State               | Lampam<br>Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Kap Rumpot<br>Grass Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red<br>Tilapia | Jelawat<br>River<br>Carp | Ketutu<br>Goy | Pelbagai<br>Miscellaneous<br>* | Jumlah<br>Total |
|-------------------------------|------------------------------------|---------------------------|--------------------------|-----------------------------------------|--------------------------------------|------------------------------------|--------------------------|---------------|--------------------------------|-----------------|
| Perlis                        | 0.00                               | 0                         | 0.00                     | 0                                       | 0                                    | 0.00                               | 0                        | 0.00          | 0                              | 0               |
| Kedah                         | 0.00                               | 0                         | 0.00                     | 0                                       | 0                                    | 1.00                               | 0                        | 0.00          | 0                              | 1               |
| P.Pinang/Penang               | 0.00                               | 0                         | 0.00                     | 0                                       | 0                                    | 0.00                               | 0                        | 0.00          | 0                              | 0               |
| Perak                         | 1.60                               | 0                         | 1.35                     | 0                                       | 1.39                                 | 0.99                               | 7.6                      | 0.00          | 3.15                           | 16.08           |
| Selangor                      | 22.36                              | 0                         | 5.89                     | 0.36                                    | 0                                    | 564.75                             | 12.1                     | 1.95          | 4.76                           | 612.17          |
| W.Persekutuan/<br>F.Territory | 0.00                               | 0                         | 0.00                     | 0                                       | 0                                    | 0.00                               | 0                        | 0.00          | 0                              | 0               |
| N. Sembilan                   | 0.00                               | 0                         | 0.00                     | 0                                       | 0                                    | 4.90                               | 0                        | 0.00          | 0                              | 4.9             |
| Melaka/Malacca                | 0                                  | 0.00                      | 0                        | 0.00                                    | 0.12                                 | 36.18                              | 0.42                     | 0.00          | 4.24                           | 40.96           |
| Johor/Johore                  | 0.03                               | 0.00                      | 0.18                     | 0.00                                    | 0.03                                 | 1.26                               | 0.21                     | 0.00          | 1.48                           | 3.19            |
| Pahang                        | 0.00                               | 0                         | 0.00                     | 0                                       | 0                                    | 0.00                               | 0                        | 0.00          | 0                              | 0               |
| Terengganu                    | 0.00                               | 0                         | 0.00                     | 0                                       | 0                                    | 0.00                               | 0                        | 0.00          | 0                              | 0               |
| Kelantan                      | 0.00                               | 0                         | 2.48                     | 0                                       | 0                                    | 2.06                               | 0                        | 0             | 0                              | 4.54            |
| Sarawak                       | 0.00                               | 0                         | 0.00                     | 0                                       | 0                                    | 0.00                               | 0                        | 0.00          | 0                              | 0               |
| Jumlah/Total:                 | 23.99                              | 0.00                      | 9.90                     | 0.36                                    | 1.54                                 | 611.14                             | 20.33                    | 1.95          | 13.63                          | 682.84          |

\* Pelbagai - Termasuk ikan-ikan Ketutu, Haruan, Baung dan Sepat Siam.  
 Miscellaneous - Includes Goby, Snake Head and River Catfish and Snakeskin Gouramy.

MALAYSIA  
 ANGGARAN NILAI RUNCIT PENGELUARAN SANGKAR AIRTAWAR MENGIKUT NEGERI DAN SPESIS, 1989  
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM FRESHWATER CAGES STATE AND SPECIES, 1989  
 (Nilai dalam M\$'000/Value in M\$'000)

| Negeri<br>State               | Lampam<br>Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Kap Rumput<br>Grass Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red<br>Tilapia | Jelawat<br>River<br>Carp | Ketutu<br>Goby | Pelbagai<br>Miscellaneous<br>* | Jumlah<br>Total |
|-------------------------------|------------------------------------|---------------------------|--------------------------|-----------------------------------------|--------------------------------------|------------------------------------|--------------------------|----------------|--------------------------------|-----------------|
|                               |                                    |                           |                          |                                         |                                      |                                    |                          |                |                                |                 |
| Perlis                        | 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                                 | 1.08                               | 0.00                     | 0.00           | 0.00                           | 1.08            |
| P.Pinang/Penang               | 0.00                               | 0.00                      | 0.00                     | 0.00                                    | 0.00                                 | 0.00                               | 0.00                     | 0.00           | 0.00                           | 0.00            |
| Perak                         | 2.43                               | 0.00                      | 1.71                     | 0.00                                    | 2.26                                 | 1.52                               | 9.12                     | 0.00           | 4.80                           | 21.84           |
| Selangor D.E.                 | 30.75                              | 0.00                      | 9.20                     | 0.49                                    | 0.00                                 | 677.70                             | 14.52                    | 2.34           | 6.30                           | 741.30          |
| W.Persekutuan/<br>F.Territory | 0.00                               | 0.00                      | 0.00                     | 0.00                                    | 0.00                                 | 0.00                               | 0.00                     | 0.00           | 0.00                           | 0.00            |
| N. Sembilan                   | 0.00                               | 0.00                      | 0.00                     | 0.00                                    | 0.00                                 | 7.70                               | 0.00                     | 0.00           | 0.00                           | 7.70            |
| Melaka/Malacca                | 0.00                               | 0.00                      | 0.00                     | 0.00                                    | 0.17                                 | 46.65                              | 0.51                     | 0.00           | 4.45                           | 51.78           |
| Johor/Johore D.T.             | 0.05                               | 0.00                      | 0.25                     | 0.00                                    | 0.00                                 | 1.47                               | 0.24                     | 0.00           | 1.67                           | 3.68            |
| Pahang D.M.                   | 0.00                               | 0.00                      | 0.00                     | 0.00                                    | 0.00                                 | 0.00                               | 0.00                     | 0.00           | 0.00                           | 0.00            |
| N. Sembilan                   | 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                      | 3.10                     | 0.00                                    | 0.00                                 | 2.64                               | 0.00                     | 0.00           | 0.00                           | 5.74            |
| Sarawak                       | 0.00                               | 0.00                      | 0.00                     | 0.00                                    | 0.00                                 | 0.00                               | 0.00                     | 0.00           | 0.00                           | 0.00            |
| Sabah                         |                                    |                           |                          |                                         |                                      |                                    |                          |                |                                |                 |
| Jumlah/Total:                 | 33.23                              | 0.00 €                    | 14.26 €                  | 0.49                                    | 2.43                                 | 738.76                             | 24.39                    | 2.34           | 17.22                          | 833.12          |

\* Pelbagai - Termasuk ikan-ikan Ketutu, Haruan, Baung dan Sepat Siam.  
 Miscellaneous - Includes Goby, Snake Head, River Catfish and Snakeskin Gouramy.

JADUAL (TABLE) 18.1

**MALAYSIA**  
**BILANGAN DAN LUAS KOLAM BINAAN AIRPAYAU YANG DIUSAHAKAN SERTA**  
**BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1989**  
**NUMBER AND AREA OF BRACKISHWATER PONDS AND NUMBER OF**  
**CULTURISTS BY RACE AND STATE, 1989**

| Negeri<br>State               | Kolam Airpayau<br>Brackishwater Ponds |                           | Bilangan Penternak Ikan<br>Number Of Culturists |                 |                 |                     | Jumlah<br>Total |
|-------------------------------|---------------------------------------|---------------------------|-------------------------------------------------|-----------------|-----------------|---------------------|-----------------|
|                               | Bilangan<br>Number                    | Luas (ha)<br>Area<br>(ha) | Melayu<br>Malay                                 | Cina<br>Chinese | India<br>Indian | Lain-Lain<br>Others |                 |
| Perlis                        | 2                                     | 1.18                      | 0                                               | 1               | 0               | 0                   | 1               |
| Kedah                         | 150                                   | 74.42                     | 37                                              | 4               | 1               | 8                   | 50              |
| P.Pinang/Penang               | 3                                     | 0.34                      | 0                                               | 3               | 0               | 0                   | 3               |
| Perak                         | 125                                   | 59.19                     | 8                                               | 16              | 1               | 5                   | 30              |
| Selangor                      | 93                                    | 25.40                     | 17                                              | 11              | 0               | 4                   | 32              |
| W.Persekutuan/<br>F.Territory | 0                                     | 0.00                      | 0                                               | 0               | 0               | 0                   | 0               |
| N. Sembilan                   | 18                                    | 13.00                     | 0                                               | 0               | 0               | 2                   | 2               |
| Melaka/Malacca                | 4                                     | 1.54                      | 1                                               | 3               | 0               | 0                   | 4               |
| Johor/Johore                  | 568                                   | 616.25                    | 38                                              | 68              | 0               | 17                  | 123             |
| Pahang                        | 240                                   | 231.79                    | 8                                               | 0               | 0               | 1                   | 9               |
| Terengganu                    | 20                                    | 6.20                      | 11                                              | 0               | 0               | 0                   | 11              |
| Kelantan                      | 75                                    | 17.46                     | 40                                              | 1               | 0               | 0                   | 41              |
| Sarawak                       | 0                                     | 0.00                      | 0                                               | 0               | 0               | 0                   | 0               |
| Sabah                         | 518                                   | 350.00                    | 0                                               | 0               | 0               | 97                  | 97              |
| Jumlah/Total:                 | 1816                                  | 1,396.77                  | 160                                             | 107             | 2               | 134                 | 403             |

MALAYSIA  
**ANGGARAN PENGELUARAN KOLAM AIRPAYAU/MASIN**  
**MENGIKUT NEGERI DAN SPESIES IKAN, 1989**  
**ESTIMATED FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS BY STATE AND SPECIES, 1989**  
**(Kuantiti dalam Tan Metrik/Quantity in Tonnes)**

JADUAL (TABLE) 18.2

| Negeri<br>State               | Siakap<br>Barramundi | Kerapu<br>Grouper | Jenahak<br>Mangrove<br>Snapper | Udang Putih<br>Banana Prawn | Udang Harimau<br>Tiger Prawn | Ketam<br>Mud Crab | Pelbagai<br>Miscellaneous<br>** | Jumlah<br>Total |
|-------------------------------|----------------------|-------------------|--------------------------------|-----------------------------|------------------------------|-------------------|---------------------------------|-----------------|
| Perlis                        | 0.00                 | 0.00              | 0.00                           | 0.00                        | 0.20                         | 0.00              | 0.00                            | 0.20            |
| Kedah                         | 0.10                 | 0.00              | 0.00                           | 0.14                        | 21.77                        | 0.00              | 0.20                            | 22.21           |
| P.Pinang/Penang               | 0.00                 | 0.00              | 0.00                           | 0.00                        | 0.00                         | 0.00              | 0.00                            | 0.00            |
| Perak                         | 0.00                 | 0.00              | 0.00                           | 0.00                        | 31.40                        | 0.00              | 0.00                            | 31.40           |
| Selangor                      | 0.00                 | 0.00              | 0.00                           | 0.00                        | 45.00                        | 0.00              | 0.00                            | 45.00           |
| W.Persekutuan/<br>F.Territory | 0.00                 | 0.00              | 0.00                           | 0.00                        | 0.00                         | 0.00              | 0.00                            | 0.00            |
| N. Sembilan                   | 0.35                 | 0.00              | 0.00                           | 0.00                        | 5.23                         | 0.00              | 0.00                            | 5.58            |
| Melaka/Malacca                | 5.15                 | 0.00              | 0.00                           | 0.00                        | 0.00                         | 0.00              | 0.00                            | 5.15            |
| Johor/Johore                  | 4.85                 | 0                 | 15.89                          | 105.24                      | 765.62                       | 24.16             | 0                               | 915.76          |
| Pahang                        | 0.00                 | 0.00              | 0.00                           | 0.00                        | 340.00                       | 0.79              | 0.00                            | 340.79          |
| Terengganu                    | 4.24                 | 0                 | 0.36                           | 0                           | 2.8                          | 0                 | 0.07                            | 7.47            |
| Kelantan                      | 10.17                | 0.00              | 0.00                           | 0.00                        | 1.76                         | 0.60              | 0.30                            | 12.83           |
| Sarawak                       | 0.00                 | 0.00              | 0.00                           | 0.00                        | 48.00                        | 0.00              | 0.00                            | 48.00           |
| Sabah                         | 0.00                 | 0.00              | 0.00                           | 0.00                        | 700.00                       | 0.00              | 0.00                            | 700.00          |
| Jumlah/Total:                 | 24.86                | 0.00 €            | 16.25 €                        | 105.38                      | 1,961.78                     | 25.55             | 0.57                            | 2,134.39        |

\*\* Pelbagai - Termasuk ikan-ikan seperti Tanda, Dengkis, Cermin dan Talang.

\*\* Miscellaneous - Includes Snapper, Rabbitfish and Horse Mackerel and Queenfish.

MALAYSIA  
 ANGGARAN NILAI BORONG PENGELUARAN DARI KOLAM AIRPAYAU/ MASIN  
 MENGIKUT NEGERI DAN SPESIES IKAN, 1989  
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS  
 BY STATE AND SPECIES, 1989  
 (Nilai dalam M\$'000/Value in M\$'000)

| Negeri<br>State               | Siakap<br>Barramundi | Kerapu<br>Grouper | Jenahak<br>Mangrove<br>Snapper | Udang<br>Harimau<br>Tiger Prawn | Udang<br>Putih<br>Banana<br>Prawn | Ketam<br>Mud Crab | Pelbagai<br>Miscellaneous<br>** | Jumlah<br>Total |
|-------------------------------|----------------------|-------------------|--------------------------------|---------------------------------|-----------------------------------|-------------------|---------------------------------|-----------------|
| Perlis                        | 0.00                 | 0.00              | 0.00                           | 3.60                            | 0.00                              | 0.00              | 0.00                            | 3.60            |
| Kedah                         | 0.80                 | 0.00              | 0.00                           | 391.86                          | 2.80                              | 0.00              | 1.06                            | 396.52          |
| P.Pinang/Penang               | 0                    | 0.00              | 0.00                           | 0.00                            | 0.00                              | 0.00              | 0.00                            | 0.00            |
| Perak                         | 0.00                 | 0.00              | 0.00                           | 612.30                          | 0.00                              | 0.00              | 0.00                            | 612.30          |
| Selangor                      | 0.00                 | 0                 | 0                              | 810                             | 0.00                              | 0.00              | 0.00                            | 810.00          |
| W.Persekutuan/<br>F.Territory | 0                    | 0.00              | 0.00                           | 0.00                            | 0.00                              | 0                 | 0                               | 0.00            |
| N. Sembilan                   | 2.8                  | 0.00              | 0.00                           | 99.37                           | 0.00                              | 0                 | 0.00                            | 102.17          |
| Melaka/Malacca                | 41.2                 | 0.00              | 0.00                           | 0.00                            | 0.00                              | 0                 | 0.00                            | 41.20           |
| Johor/Johore                  | 48.5                 | 0                 | 143.01                         | 16078.02                        | 2420.52                           | 144.96            | 0                               | 18,835.01       |
| Pahang                        | 0                    | 0.00              | 0.00                           | 7,480.00                        | 0.00                              | 6.32              | 0                               | 7,486.32        |
| Terengganu                    | 27.56                | 0.00              | 2.34                           | 58.80                           | 0.00                              | 0                 | 0.39                            | 89.09           |
| Kelantan                      | 81.36                | 0                 | 0                              | 40.48                           | 0.00                              | 3.60              | 1.50                            | 126.94          |
| Sarawak                       | 0.00                 | 0.00              | 0.00                           | 768.00                          | 0.00                              | 0.00              | 0.00                            | 768.00          |
| Sabah                         | 0.00                 | 0.00              | 0.00                           | 6,000.00                        | 0.00                              | 0.00              | 0.00                            | 6,000.00        |
| Jumlah/Total:                 | 202.22               | 0.00              | 145.35                         | 32,342.43                       | 2,423.32                          | 154.88            | 2.95                            | 35,271.15       |

Nota \*\* Pelbagai - Termasuk ikan-ikan Tanda, Dengkis, Cermin dan Talang

Note \*\* Miscellaneous - Includes Snapper, Rabbit fish, Horse Mackerel and Queenfish.

**MALAYSIA**  
**ANGGARAN NILAI RUNCIT PENGELUARAN KOLAM AIRPAYAU/MASIN**  
**MENGIKUT NEGERI DAN SPESIES IKAN, 1989**  
**ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS BY STATE AND SPESIES**

**JADUAL (TABLE) 18.4**

| Negeri<br>State               | Siakap     | Kerapu  | Jenahak             | Udang                  | Udang                    | Ketam    | Pelbagai            | Jumlah    |
|-------------------------------|------------|---------|---------------------|------------------------|--------------------------|----------|---------------------|-----------|
|                               | Barramundi | Grouper | Mangrove<br>Snapper | Harimau<br>Tiger Prawn | Putih<br>Banana<br>Prawn | Mud Crab | Miscellaneous<br>** | Total     |
| Perlis                        | 0.00       | 0.00    | 0.00                | 3.60                   | 0.00                     | 0.00     | 0.00                | 3.60      |
| Kedah                         | 1.10       | 0.00    | 0.00                | 435.40                 | 3.22                     | 0.00     | 1.06                | 440.78    |
| P.Pinang/Penang               | 0          | 0       | 0.00                | 0                      | 0                        | 0        | 0.00                | 0.00      |
| Perak                         | 0.00       | 0.00    | 0.00                | 800.70                 | 0.00                     | 0.00     | 0.00                | 800.70    |
| Selangor                      | 0.00       | 0.00    | 0.00                | 900.00                 | 0.00                     | 0.00     | 0.00                | 900.00    |
| W.Persekutuan/<br>F.Territory | 0.00       | 0.00    | 0.00                | 0.00                   | 0.00                     | 0.00     | 0.00                | 0.00      |
| N. Sembilan                   | 3.32       | 0.00    | 0.00                | 99.37                  | 0.00                     | 0.00     | 0.00                | 102.69    |
| Melaka/Malacca                | 48.93      | 0.00    | 0.00                | 0.00                   | 0.00                     | 0.00     | 0.00                | 48.93     |
| Johor/Johore                  | 53.35      | 0.00    | 158.90              | 18,374.88              | 2,631.00                 | 181.20   | 0.00                | 21,399.33 |
| Pahang                        | 0.00       | 0.00    | 0.00                | 8,500.00               | 0.00                     | 7.11     | 0.00                | 8,507.11  |
| Terengganu                    | 33.92      | 0.00    | 2.52                | 64.40                  | 0.00                     | 0.00     | 0.42                | 101.26    |
| Kelantan                      | 101.70     | 0.00    | 0.00                | 42.24                  | 0.00                     | 4.20     | 1.95                | 150.09    |
| Sarawak                       | 0.00       | 0.00    | 0.00                | 864.00                 | 0.00                     | 0.00     | 0.00                | 864.00    |
| Sabah                         | 0.00       | 0.00    | 0.00                | 7,203.00               | 0.00                     | 0.00     | 0.00                | 7,203.00  |
| Jumlah/Total:                 | 242.32     | 0.00    | 161.42              | 37,287.59              | 2,634.22                 | 192.51   | 3.43                | 40,521.49 |

Nota \*\* Pelbagai - Termasuk ikan-ikan Tanda, Dengkis, Cermin dan Talang  
 Note \*\* Miscellaneous - Includes Snapper, Rabbit fish, Horse Mackerel and Queenfish.

MALAYSIA  
BILANGAN DAN LUAS SANGKAR AIRPAYAU YANG DIUSAHAKAN SERTA  
BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1989  
NUMBER AND AREA OF BRACKISHWATER CAGES AND NUMBER OF CULTURISTS  
BY RACE AND STATE, 1989

JADUAL (TABLE) 19.1

| Negeri<br>State               | Sangkar Airpayau<br>Brackishwater Cages |                                    | Bilangan Penternak Ikan<br>No. Of Culturists |                 |                 |                     | Jumlah<br>Total |
|-------------------------------|-----------------------------------------|------------------------------------|----------------------------------------------|-----------------|-----------------|---------------------|-----------------|
|                               | Bilangan<br>Number                      | Luas (m2)<br>Area In<br>Sq. Metres | Melayu<br>Malay                              | Cina<br>Chinese | India<br>Indian | Lain-lain<br>Others |                 |
| Perlis                        | 14                                      | 87.86                              | 7                                            | 0               | 0               | 0                   | 7               |
| Kedah                         | 865                                     | 7,207.02                           | 40                                           | 8               | 0               | 1                   | 49              |
| P.Pinang/ Penang              | 9,425                                   | 56,766.61                          | 19                                           | 106             | 0               | 0                   | 125             |
| Perak                         | 3,989                                   | 36,250.40                          | 19                                           | 83              | 0               | 1                   | 103             |
| Selangor                      | 4,247                                   | 53,913.35                          | 3                                            | 112             | 0               | 0                   | 115             |
| W.Persekutuan/<br>F.Territory | 0                                       | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| N. Sembilan                   | 0                                       | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| Melaka/Malacca                | 0                                       | 0.00                               | 0                                            | 0               | 0               | 0                   | 0               |
| Johor/Johore                  | 4,105                                   | 49,182.41                          | 57                                           | 101             | 0               | 0                   | 158             |
| Pahang                        | 50                                      | 837.00                             | 0                                            | 1               | 0               | 0                   | 1               |
| Terengganu                    | 98                                      | 746.64                             | 13                                           | 0               | 0               | 0                   | 13              |
| Kelantan                      | 72                                      | 2,686.72                           | 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:                 | 22,865                                  | 207,678.01                         | 162                                          | 411             | 0               | 2                   | 575             |

MALAYSIA  
 ANGGARAN PENGELUARAN SANGKAR AIRPAYAU/MASIN  
 MENGIKUT NEGERI DAN SPESIES IKAN, 1989  
 ESTIMATED FISH PRODUCTION FROM BRACKISHWATER/MARINE CAGES  
 BY STATE AND SPECIES, 1989  
 (Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 19.2

| Negeri<br>State               | Siakap<br>Barramundi | Kerapu<br>Grouper | Jenahak<br>Mangrove<br>Snapper | Merah<br>Red Snapper | Udang<br>Harimau<br>Tiger Prawn | Ketam<br>Mud Crab | Pelbagai<br>Miscellaneous<br>** | Jumlah<br>Total |
|-------------------------------|----------------------|-------------------|--------------------------------|----------------------|---------------------------------|-------------------|---------------------------------|-----------------|
|                               |                      |                   |                                |                      |                                 |                   |                                 |                 |
| Perlis                        | 0.00                 | 0.00              | 0.00                           | 0.00                 | 0.00                            | 0.00              | 0.00                            | 0.00            |
| Kedah                         | 4.12                 | 3.86              | 0.67                           | 0.00                 | 0.00                            | 0.00              | 0.00                            | 8.65            |
| P.Pinang/Penang               | 321.09               | 112.07            | 56.00                          | 0.00                 | 0.06                            | 47.70             | 4.50                            | 541.42          |
| Perak                         | 37.32                | 25.95             | 10.62                          | 0.05                 | 0.98                            | 0.04              | 0.00                            | 74.96           |
| Selangor                      | 731.14               | 9.47              | 12.88                          | 0.33                 | 1.85                            | 45.53             | 0.00                            | 801.20          |
| W.Persekutuan/<br>F.Territory | 0                    | 0                 | 0                              | 0                    | 0                               | 0                 | 0                               | 0.00            |
| N. Sembilan                   | 0                    | 0                 | 0                              | 0                    | 0                               | 0                 | 0                               | 0.00            |
| Melaka/Malacca                | 0                    | 0                 | 0                              | 0                    | 0                               | 0                 | 0                               | 0.00            |
| Johor/Johore                  | 417.02               | 17.26             | 5.80                           | 0.61                 | 0.00                            | 24.88             | 1.12                            | 466.69          |
| Pahang                        | 0                    | 0                 | 0                              | 0                    | 0                               | 0.00              | 0                               | 0               |
| Terengganu                    | 1.32                 | 0                 | 0                              | 0                    | 0                               | 0                 | 0                               | 1.32            |
| Kelantan                      | 0.84                 | 0.00              | 0.00                           | 0.00                 | 0.00                            | 0.00              | 0.00                            | 0.84            |
| Sarawak                       | 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            |
| Jumlah/Total:                 | 1,512.85             | 168.61            | 85.97                          | 0.99                 | 2.89                            | 118.15            | 5.62                            | 1,895.08        |

Nota \*\* : Termasuk ikan-ikan seperti Tanda, Dengkis, Cupak/Cermin dan Talang.

Note : Includes Snapper, Rabbit fish, Horse Mackerel and Queenfish.

MALAYSIA  
 JADUAL (TABLE) 19.3  
 ANGGARAN NILAI BORONG PENGELUARAN SANGKAR AIRPAYAU/MASIN  
 MENGIKUT NEGERI DAN SPESIES IKAN, 1989  
 ESTIMATED WHOLE SALE VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE CAGES  
 BY STATE AND SPECIES, 1989  
 (Nilai dalam M\$ '000 / Value in M\$ '000 )

| Negeri<br>State                | Siakap<br>Barramundi | Kerapu<br>Grouper | Jenahak<br>Mangrove Snapper | Udang Harimau<br>Tiger Prawn | Ketam<br>Mud Crab | Merah<br>Red Snapper | Pelbagai<br>Miscellaneous | Jumlah<br>Total |
|--------------------------------|----------------------|-------------------|-----------------------------|------------------------------|-------------------|----------------------|---------------------------|-----------------|
|                                |                      |                   |                             |                              |                   |                      |                           |                 |
| Perlis                         | 0.00                 | 0.00              | 0.00                        | 0.00                         | 0.00              | 0.00                 | 0.00                      | 0.00            |
| Kedah                          | 32.96                | 61.76             | 4.36                        | 0.00                         | 0.00              | 0.00                 | 0.00                      | 99.08           |
| P. Pinang/Penang               | 3,018.25             | 1,793.12          | 548.80                      | 1.08                         | 333.90            | 0.00                 | 40.50                     | 5,735.65        |
| Perak                          | 317.22               | 454.12            | 106.20                      | 19.11                        | 0.28              | 0.40                 | 0.00                      | 897.33          |
| Selangor                       | 6,214.69             | 127.85            | 106.90                      | 33.30                        | 355.13            | 2.81                 | 0.00                      | 6,840.68        |
| W. Persekutuan/<br>F.Territory | 0.00                 | 0.00              | 0.00                        | 0.00                         | 0.00              | 0.00                 | 0.00                      | 0.00            |
| N. Sembilan                    | 0.00                 | 0.00              | 0.00                        | 0.00                         | 0.00              | 0.00                 | 0.00                      | 0.00            |
| Melaka/Malacca                 | 0.00                 | 0.00              | 0.00                        | 0.00                         | 0.00              | 0.00                 | 0.00                      | 0.00            |
| Johor/Johore                   | 4,170.20             | 345.20            | 52.20                       | 0.00                         | 149.28            | 5.18                 | 8.96                      | 4,731.02        |
| Pahang                         | 0.00                 | 0.00              | 0.00                        | 0.00                         | 0.00              | 0.00                 | 0.00                      | 0.00            |
| Terengganu                     | 8.58                 | 0.00              | 0.00                        | 0.00                         | 0.00              | 0.00                 | 0.00                      | 8.58            |
| Kelantan                       | 6.72                 | 0.00              | 0.00                        | 0.00                         | 0.00              | 0.00                 | 0.00                      | 6.72            |
| Sarawak                        | 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            |
| Jumlah/Total:                  | 13,768.62            | 2,782.05          | 818.46                      | 53.49                        | 838.59            | 8.39                 | 49.46                     | 18,319.06       |

Nota: Pelbagai - Termasuk Ikan-Ikan Tanda, Dengkis, Cermin dan Talang  
 Note: Miscellaneous - Includes Snapper, Rabbit Fish, Horse Mackerel and Queenfish

MALAYSIA  
 ANGGAHAN NILAI RUNCIT PENGELUARAN SANGKAR AIRPAYAU/MASIN  
 MENGIKUT NEGERI DAN SPESIES IKAN, 1989  
 ESTIMATED RETAIL VALUE OF FISH PRODUCTIONS FROM BRACKISHWATER/MARINE CAGES  
 BY STATE AND SPECIES, 1989  
 (Nilai dalam M\$ '000 / Value in M\$ '000 )

| Negeri                         | Siakap     | Kerapu   | Jenahak          | Udang Harimau | Ketam    | Merah       | Pelbagai      | Jumlah    |
|--------------------------------|------------|----------|------------------|---------------|----------|-------------|---------------|-----------|
| State                          | Barramundi | Grouper  | Mangrove Snapper | Tiger Prawn   | Mud Crab | Red Snapper | Miscellaneous | Total     |
| Perlis                         | 0.00       | 0.00     | 0.00             | 0.00          | 0.00     | 0.00        | 0.00          | 0.00      |
| Kedah                          | 45.32      | 69.48    | 5.36             | 0.00          | 0.00     | 0.00        | 0.00          | 120.16    |
| P. Pinang/Penang               | 3,210.90   | 2,241.40 | 616.00           | 1.20          | 381.60   | 0.00        | 49.50         | 6,500.60  |
| Perak                          | 380.66     | 480.08   | 111.51           | 24.99         | 0.30     | 0.45        | 0.00          | 997.99    |
| Selangor                       | 7,165.17   | 151.52   | 122.36           | 37.00         | 400.66   | 3.14        | 0.00          | 7,879.85  |
| W. Persekutuan/<br>F.Territory | 0.00       | 0.00     | 0.00             | 0.00          | 0.00     | 0.00        | 0.00          | 0.00      |
| N. Sembilan                    | 0.00       | 0.00     | 0.00             | 0.00          | 0.00     | 0.00        | 0.00          | 0.00      |
| Melaka/Malacca                 | 0.00       | 0.00     | 0.00             | 0.00          | 0.00     | 0.00        | 0.00          | 0.00      |
| Johor/Johore                   | 4,587.22   | 414.24   | 58.00            | 0.00          | 186.60   | 5.80        | 11.76         | 5,263.62  |
| Pahang                         | 0.00       | 0.00     | 0.00             | 0.00          | 0.00     | 0.00        | 0.00          | 0.00      |
| Terengganu                     | 10.56      | 0.00     | 0.00             | 0.00          | 0.00     | 0.00        | 0.00          | 10.56     |
| Kelantan                       | 8.40       | 0.00     | 0.00             | 0.00          | 0.00     | 0.00        | 0.00          | 8.40      |
| Sarawak                        | 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      |
| Jumlah/Total:                  | 15,408.23  | 3,356.72 | 913.23           | 63.19         | 969.16   | 9.39        | 61.26         | 20,781.18 |

Nota: Pelbagai - Termasuk Ikan-Ikan Tanda, Dengkis, Cermin dan Talang  
 Note: Miscellaneous - Includes Snapper, Rabbit Fish, Horse Mackerel and Queenfish

MALAYSIA  
BILANGAN PENTERNAK, KAWASAN DAN LUAS KAWASAN  
TERNAKAN KERANG MENGIKUT NEGERI 1989.  
NUMBER OF CULTURIST, AREA AND SIZE  
OF COCKLE BY STATE 1989.

JADUAL (TABLE) 20.1

| Negeri<br>State           | Bilangan<br>Penternak<br>(No. of Culturist) | Bilangan<br>Kawasan<br>(No. of Area) | Luas Kawasan Tol<br>(ha)<br>Area<br>(ha) |
|---------------------------|---------------------------------------------|--------------------------------------|------------------------------------------|
| Perlis                    | 1                                           | 1                                    | 16.20                                    |
| Kedah                     | 2                                           | 2                                    | 28.42                                    |
| P.Pinang/ Penang          | 59                                          | 57                                   | 1,327.53                                 |
| Perak                     | 138                                         | 65                                   | 2,941.62                                 |
| Selangor                  | 14                                          | 15                                   | 1,104.57                                 |
| W.Persekutuan/F.Territory | 0                                           | 0                                    | 0.00                                     |
| N.Sembilan                | 0                                           | 0                                    | 0.00                                     |
| Melaka / Malacca          | 0                                           | 0                                    | 0.00                                     |
| Johor / Johore            | 24                                          | 8                                    | 192.65                                   |
| Pahang                    | 0                                           | 0                                    | 0.00                                     |
| Terengganu                | 0                                           | 0                                    | 0.00                                     |
| Kelantan                  | 0                                           | 0                                    | 0.00                                     |
| Sarawak                   | 0                                           | 0                                    | 0.00                                     |
| Sabah                     | 0                                           | 0                                    | 0.00                                     |
| JUMLAH/TOTAL              | 238                                         | 148                                  | 5,610.99                                 |

MALAYSIA  
PENGELUARAN KERANG DEWASA MENGIKUT BULAN DAN NEGERI 1989  
PRODUCTION OF COCKLES BY MONTH AND STATE 1989  
(TAN METRIK/TONNES)

JADUAL (TABLE) 20.2

| Negeri<br>State               | Januari<br>January | Februari<br>February | Mac<br>March | April<br>April | Mei<br>May | Jun<br>June | Julai<br>July | Ogos<br>August | September<br>September | Oktober<br>October | November<br>November | Disember<br>December | Jumlah<br>Total |
|-------------------------------|--------------------|----------------------|--------------|----------------|------------|-------------|---------------|----------------|------------------------|--------------------|----------------------|----------------------|-----------------|
| Perlis                        | 0.00               | 0.00                 | 0.00         | 0.00           | 7.25       | 0.00        | 0.00          | 6.18           | 0.00                   | 0.00               | 5.39                 | 8.49                 | 27.31           |
| Kedah                         | 0.00               | 0.00                 | 117.25       | 28.91          | 0.00       | 0.00        | 0.00          | 0.00           | 0.00                   | 0.00               | 0.00                 | 1.64                 | 147.80          |
| P.Pinang/Penang               | 428.00             | 580.00               | 643.50       | 341.00         | 1,397.90   | 522.00      | 591.25        | 707.50         | 601.80                 | 680.00             | 683.00               | 957.63               | 8,133.58        |
| Perak                         | 1,625.60           | 1,280.00             | 1,582.30     | 1,983.60       | 1,939.61   | 1,562.60    | 1,726.18      | 1,740.60       | 1,908.00               | 1,578.84           | 2,232.68             | 2,894.43             | 22,054.44       |
| Selangor                      | 630.11             | 0.00                 | 449.61       | 547.53         | 467.71     | 466.07      | 498.09        | 557.95         | 528.73                 | 569.16             | 442.44               | 2,405.00             | 7,562.40        |
| W.Persekutuan/<br>F.Territory | 0.00               | 0.00                 | 0.00         | 0.00           | 0.00       | 0.00        | 0.00          | 0.00           | 0.00                   | 0.00               | 0.00                 | 0.00                 | 0.00            |
| N. 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/Malacca                | 0.00               | 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/Johore                  | 0.00               | 0.00                 | 6.50         | 7.00           | 6.50       | 10.39       | 9.00          | 8.80           | 19.00                  | 10.00              | 40.90                | 102.50               | 220.59          |
| 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                         | 100.00             | 120.00               | 80.00        | 140.00         | 60.00      | 100.00      | 160.00        | 40.00          | 70.00                  | 130.00             | 100.00               | 100.00               | 1,200.00        |
| Jumlah/Total:                 | 2,783.71           | 1,980.00             | 2,879.16     | 3,048.04       | 3,878.97   | 2,661.06    | 2,984.52      | 3,061.03       | 3,127.53               | 2,968.00           | 3,504.41             | 6,469.69             | 39,346.12       |

**MALAYSIA**  
**PENGELUARAN BENIH KERANG MENGIKUT BULAN DAN NEGERI 198**  
**PRODUCTION OF COCKLE SEEDS BY MONTH AND STATE 1989**  
**(TAN METRIK/TONNES)**

**JADUAL (TABLE)20.3**

95

| Negeri<br>State               | Januari<br>January | Februari<br>February | Mac<br>March | April<br>April | Mei<br>May | Jun<br>June | Julai<br>July | Ogos<br>August | September<br>September | Oktober<br>October | November<br>November | Disember<br>December | Jumlah<br>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            |
| P.Pinang/Penang               | 0.00               | 0.70                 | 0.00         | 0.00           | 0.00       | 0.00        | 0.00          | 0.00           | 0.00                   | 0.00               | 0.00                 | 360.00               | 360.70          |
| Perak                         | 0.00               | 0.00                 | 0.00         | 1,204.90       | 432.40     | 500.00      | 500.00        | 0.00           | 0.00                   | 0.00               | 0.00                 | 0.00                 | 2,637.30        |
| Selangor                      | 0.00               | 0.00                 | 0.00         | 0.00           | 3,313.00   | 0.00        | 0.00          | 624.00         | 0.00                   | 0.00               | 0.00                 | 0.00                 | 3,937.00        |
| W.Persekutuan/<br>F.Territory | 0.00               | 0.00                 | 0.00         | 0.00           | 0.00       | 0.00        | 0.00          | 0.00           | 0.00                   | 0.00               | 0.00                 | 0.00                 | 0.00            |
| N. 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/Malacca                | 0.00               | 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/Johore                  | 0.00               | 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:                 | 0.00               | 0.70                 | 0.00         | 1,204.90       | 3,745.40   | 500.00      | 500.00        | 624.00         | 0.00                   | 0.00               | 0.00                 | 360.00               | 6,935.00        |

MALAYSIA  
BILANGAN PENTERNAK, KAWASAN DAN LUAS KAWASAN  
TERNAKAN SIPUT SUDU MENGIKUT NEGERI 1989.  
NUMBER OF CULTURIST, AREA AND SIZE  
OFF MUSSEL BY STATE 1989.

JADUAL(TABLE) 21 . 1

| Negeri<br>State           | Bilangan<br>Penternak<br>(No. of Culturist) | Bilangan<br>Kawasan<br>(No. of Area) | Luas Kawasan Tol<br>(M2)<br>Area<br>(M2) |
|---------------------------|---------------------------------------------|--------------------------------------|------------------------------------------|
| Perlis                    | 1                                           | 1                                    | 16.20                                    |
| Kedah                     | 2                                           | 2                                    | 28.42                                    |
| P.Pinang/ Penang          | 2                                           | 2                                    | 531.00                                   |
| Perak                     | 10                                          | 3                                    | 46.51                                    |
| Selangor                  | 14                                          | 15                                   | 1,104.57                                 |
| W.Persekutuan/F.Territory | 0                                           | 0                                    | 0.00                                     |
| N.Sembilan                | 8                                           | 2                                    | 869.65                                   |
| Melaka / Malacca          | 53                                          | 8                                    | 27,470.59                                |
| Johor / Johore            | 56                                          | 7                                    | 25,784.23                                |
| Pahang                    | 0                                           | 0                                    | 0.00                                     |
| Terengganu                | 1                                           | 1                                    | 150.00                                   |
| Kelantan                  | 0                                           | 0                                    | 0.00                                     |
| Sarawak                   | 0                                           | 0                                    | 0.00                                     |
| Sabah                     | 0                                           | 0                                    | 0.00                                     |
| <b>JUMLAH</b>             | <b>147</b>                                  | <b>41</b>                            | <b>56001.17</b>                          |

MALAYSIA  
PENGELUARAN SIPUT SUDU MENGIKUT BULAN DAN NEGERI 1989  
PRODUCTION OF MUSSELS BY MONTH AND STATE 1989  
(TAN METRIK/TONNES)

JADUAL (TABLE) 21.2

| Negeri                        | Januari | Februari | Mac   | April  | Mei    | Jun  | Julai  | Ogos   | Septemba | Oktober | November | Disember | Jumlah   |
|-------------------------------|---------|----------|-------|--------|--------|------|--------|--------|----------|---------|----------|----------|----------|
| State                         | January | February | March | April  | May    | June | July   | August | Septemba | October | November | December | 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     |
| P.Pinang/ Penang              | 0.00    | 0.00     | 0.00  | 0.00   | 0.00   | 0.00 | 0.00   | 0.00   | 2.50     | 0.00    | 0.00     | 0.00     | 2.50     |
| Perak                         | 11.00   | 4.00     | 10.34 | 8.57   | 8.86   | 8.00 | 8.00   | 8.00   | 8.00     | 8.00    | 8.30     | 8.53     | 99.60    |
| Selangor                      | 0.00    | 0.00     | 0.00  | 0.00   | 0.00   | 0.00 | 0.00   | 0.30   | 0.26     | 0.30    | 0.00     | 5.80     | 6.66     |
| W.Persekutuan/<br>F.Territory | 0.00    | 0.00     | 0.00  | 0.00   | 0.00   | 0.00 | 0.00   | 0.00   | 0.00     | 0.00    | 0.00     | 0.00     | 0.00     |
| N. Sembilan                   | 0.00    | 1.05     | 1.08  | 1.10   | 0.00   | 0.25 | 0.35   | 0.00   | 0.30     | 0.79    | 1.00     | 0.00     | 5.92     |
| Melaka/Malacca                | 0.35    | 0.00     | 6.00  | 0.15   | 0.00   | 0.00 | 12.02  | 30.89  | 2.45     | 19.14   | 20.50    | 12.76    | 104.26   |
| Johor/Johore                  | 125.92  | 150.00   | 53.47 | 117.62 | 166.50 | 0.00 | 81.83  | 94.44  | 104.46   | 127.17  | 163.43   | 146.85   | 1,331.69 |
| 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  | 0.13   | 0.00   | 0.00 | 0.00   | 0.00   | 0.00     | 0.00    | 0.00     | 0.00     | 0.13     |
| 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:                 | 137.27  | 155.05   | 70.89 | 127.57 | 175.36 | 8.25 | 102.20 | 133.63 | 117.97   | 155.40  | 193.23   | 173.94   | 1,550.76 |

MALAYSIA  
PENDARATAN IKAN DARAT DARI PERAIRAN UMUM MENGIKUT BULAN DAN NEGERI 1989  
LANDINGS OF FRESHWATER FISH FROM PUBLIC WATERBODIES BY MONTH AND STATE 1989  
(TAN METRIK/TONNES)

JADUAL (TABLE) 21.3

| Negeri<br>State               | Januari<br>January | Februari<br>February | Mac<br>March | April<br>April | Mei<br>May | Jun<br>June | Julai<br>July | Ogos<br>August | September<br>September | Oktober<br>October | November<br>November | Disember<br>December | Jumlah<br>Total |
|-------------------------------|--------------------|----------------------|--------------|----------------|------------|-------------|---------------|----------------|------------------------|--------------------|----------------------|----------------------|-----------------|
| Perlis                        | 0.57               | 0.50                 | 0.25         | 1.20           | 0.45       | 0.65        | 0.25          | 0.50           | 1.20                   | 0.30               | 0.75                 | 0.20                 | 6.82            |
| Kedah                         | 1.95               | 2.00                 | 2.50         | 1.40           | 3.20       | 4.60        | 1.25          | 1.65           | 7.00                   | 6.50               | 5.20                 | 5.54                 | 42.79           |
| P.Pinang/Penang               | 2.13               | 2.20                 | 3.00         | 0.95           | 4.25       | 2.10        | 3.24          | 2.50           | 2.65                   | 0.50               | 2.20                 | 0.95                 | 26.67           |
| Perak                         | 40.18              | 41.83                | 50.20        | 37.60          | 30.00      | 45.50       | 28.50         | 25.56          | 40.10                  | 68.20              | 60.25                | 34.12                | 502.04          |
| Selangor                      | 8.40               | 6.50                 | 8.39         | 2.50           | 9.00       | 2.50        | 6.75          | 4.20           | 8.39                   | 15.00              | 12.00                | 16.44                | 100.07          |
| W.Persekutuan/<br>F.Territory | 0.00               | 0.00                 | 0.00         | 0.00           | 0.00       | 0.00        | 0.00          | 0.00           | 0.00                   | 0.00               | 0.00                 | 0.00                 | 0.00            |
| N. Sembilan                   | 3.75               | 4.00                 | 3.40         | 6.20           | 2.50       | 3.55        | 3.00          | 5.00           | 2.55                   | 10.00              | 2.50                 | 1.50                 | 47.95           |
| Melaka/Malacca                | 1.50               | 2.50                 | 1.65         | 2.54           | 0.50       | 1.30        | 1.13          | 1.00           | 1.24                   | 0.65               | 1.00                 | 0.61                 | 15.62           |
| Johor/Johore                  | 10.12              | 12.00                | 15.35        | 9.50           | 8.65       | 10.50       | 6.35          | 10.25          | 15.20                  | 5.35               | 9.65                 | 8.57                 | 121.49          |
| Pahang                        | 13.02              | 5.30                 | 25.00        | 10.25          | 7.80       | 13.50       | 12.35         | 8.95           | 5.65                   | 10.75              | 18.50                | 25.20                | 156.27          |
| Terengganu                    | 5.20               | 1.85                 | 3.00         | 1.20           | 0.50       | 2.35        | 0.95          | 1.80           | 0.69                   | 2.30               | 1.00                 | 1.28                 | 22.12           |
| Kelantan                      | 3.15               | 3.20                 | 5.25         | 2.00           | 3.25       | 0.95        | 1.23          | 2.17           | 5.30                   | 4.35               | 4.93                 | 2.00                 | 37.78           |
| 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:                 | 89.97              | 81.88 €              | 117.99 €     | 75.34          | 70.10      | 87.50       | 65.00         | 63.58          | 89.97                  | 123.90             | 117.98               | 96.41                | 1,079.62        |

MALAYSIA  
HARGA BORONG IKAN AIRTAWAR DI PASAR-PASAR UTAMA MENGIKUT  
NEGERI DAN SPESIES IKAN, 1989  
WHOLESALE PRICES OF FRESHWATER FISH AT MAJOR MARKETS  
BY STATE AND SPECIES, 1989  
(\$/Kg)

JADUAL (TABLE)

22.1

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| Negeri<br>State               | Lampam Jawa<br>Javanese Carp | Lee Koh<br>Common Carp | Kap Rumput<br>Grass Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red Tilapia | Udang Galah<br>Giant Fresh-<br>water Prawn | Keli<br>Freshwater<br>Catfish | Ketutu<br>Goby | Jelawat<br>River Carp | Pelbagai<br>Miscellaneous |
|-------------------------------|------------------------------|------------------------|--------------------------|-----------------------------------------|--------------------------------------|---------------------------------|--------------------------------------------|-------------------------------|----------------|-----------------------|---------------------------|
| Perlis                        | 2.20                         | 2.50                   | 4.50                     | 3.00                                    | 2.50                                 | 4.50                            | 15.50                                      | 4.00                          | 0.00           | 12.00                 | 2.00                      |
| Kedah                         | 2.00                         | 2.20                   | 4.00                     | 2.00                                    | 3.00                                 | 5.00                            | 10.00                                      | 3.00                          | 3.00           | 12.50                 | 1.50                      |
| P.Pinang/Penang               | 6.40                         | 5.60                   | 6.10                     | 4.85                                    | 6.20                                 | 9.20                            | 25.50                                      | 8.00                          | 30.00          | 12.00                 | 7.00                      |
| Perak                         | 2.50                         | 2.60                   | 3.00                     | 2.00                                    | 2.40                                 | 4.30                            | 11.00                                      | 4.00                          | 20.00          | 10.00                 | 2.30                      |
| Selangor                      | 4.00                         | 4.00                   | 3.20                     | 3.00                                    | 3.20                                 | 5.00                            | 14.00                                      | 3.00                          | 15.00          | 10.00                 | 3.40                      |
| W.Persekutuan/<br>F.Territory | 0                            | 0                      | 0                        | 0                                       | 0                                    | 0                               | 0                                          | 0                             | 0              | 0                     | 0                         |
| N. Sembilan                   | 3.2                          | 3                      | 3.2                      | 2.5                                     | 3                                    | 3.5                             | 14.5                                       | 4.8                           | 18             | 8                     | 3.5                       |
| Melaka/Malacca                | 3                            | 2.7                    | 3.3                      | 2.3                                     | 3.2                                  | 3.8                             | 14.6                                       | 5                             | 20.00          | 7                     | 4                         |
| Johor/Johore                  | 3                            | 3.2                    | 3.5                      | 3.2                                     | 3                                    | 6                               | 14                                         | 3.5                           | 18             | 7                     | 4                         |
| Pahang                        | 6.50                         | 7.50                   | 8.00                     | 6.00                                    | 4.00                                 | 9.00                            | 26.00                                      | 8.50                          | 0.00           | 6.00                  | 3.50                      |
| Terengganu                    | 3                            | 3                      | 3.5                      | 3.5                                     | 3.5                                  | 3.8                             | 8.5                                        | 3.8                           | 5.5            | 4.5                   | 3                         |
| Kelantan                      | 3.50                         | 4.00                   | 4.00                     | 3.50                                    | 3.00                                 | 4.30                            | 10.00                                      | 4.00                          | 0.00           | 7.00                  | 3                         |
| Sarawak                       | 4.50                         | 3.50                   | 4.00                     | 5.00                                    | 4.00                                 | 0.00                            | 14.00                                      | 5.00                          | 0.00           | 7.00                  | 3.50                      |
| Sabah                         | 5                            | 8                      | 7                        | 8                                       | 6                                    | 0                               | 0                                          | 0                             | 0              | 0                     | 6                         |
| Harga Bertimbang              | 3.75                         | 3.98                   | 4.41                     | 3.76                                    | 3.62                                 | 4.49                            | 13.66                                      | 4.35                          | 9.96           | 7.92                  | 3.59                      |

Nota: Pelbagai - Termasuk Ikan-Ikan Ketutu, Haruan, Baung dan Sepat Siam

Note: Miscellaneous - Includes Goby, Snake Head, River Catfish and Snakeskin Gouramy

MALAYSIA  
HARGA RUNCIT IKAN AIRTAWAR DI PASAR-PASAR UTAMA MENGIKUT  
NEGERI DAN SPESIES IKAN, 1989  
RETAIL PRICES OF FRESHWATER FISH AT MAJOR MARKETS  
BY STATE AND SPECIES, 1989  
(\$/Kg)

JADUAL (TABLE) 22.2

| 100 | Negeri<br>State               | Lampam Jawa<br>Javanese Carp | Lee Koh<br>Common Carp | Kap Rumpit<br>Grass Carp | Kap Kepala<br>Besar<br>Big Head<br>Carp | Tilapia<br>Hitam<br>Black<br>Tilapia | Tilapia<br>Merah<br>Red Tilapia | Udang Galah<br>Giant Fresh-<br>water Prawn | Keli<br>Freshwater<br>Catfish | Ketutu<br>Goby | Jelawat<br>River Carp | Pelbagai<br>Miscellaneous |
|-----|-------------------------------|------------------------------|------------------------|--------------------------|-----------------------------------------|--------------------------------------|---------------------------------|--------------------------------------------|-------------------------------|----------------|-----------------------|---------------------------|
|     |                               |                              |                        |                          |                                         |                                      |                                 |                                            |                               |                |                       |                           |
|     | Perlis                        | 2.80                         | 3.00                   | 5.00                     | 3.70                                    | 3.20                                 | 5.50                            | 17.00                                      | 4.50                          | 0.00           | 13.00                 | 2.00                      |
|     | Kedah                         | 3.00                         | 3.80                   | 4.80                     | 3.15                                    | 3.20                                 | 5.40                            | 12.00                                      | 5.00                          | 3.50           | 13.00                 | 2.20                      |
|     | P.Pinang/Penang               | 8.00                         | 8.70                   | 7.80                     | 5.10                                    | 8.50                                 | 11.50                           | 29.50                                      | 10.20                         | 35.00          | 15.00                 | 7.70                      |
|     | Perak                         | 3.80                         | 4.20                   | 3.80                     | 2.80                                    | 3.90                                 | 6.60                            | 16.00                                      | 4.80                          | 27.00          | 12.00                 | 3.50                      |
|     | Selangor                      | 5.50                         | 5.00                   | 5.00                     | 4.10                                    | 4.50                                 | 6.00                            | 18.00                                      | 5.00                          | 18.00          | 12.00                 | 4.50                      |
|     | W.Persekutuan/<br>F.Territory | 0.00                         | 0.00                   | 0.00                     | 0.00                                    | 0.00                                 | 0.00                            | 0.00                                       | 0.00                          | 0.00           | 0.00                  | 0.00                      |
|     | N. Sembilan                   | 4.80                         | 4.50                   | 4.60                     | 3.40                                    | 4.80                                 | 5.50                            | 15.00                                      | 6.00                          | 22.00          | 6.00                  | 4.00                      |
|     | Melaka/Malacca                | 4.00                         | 3.40                   | 4.50                     | 3.20                                    | 4.30                                 | 4.90                            | 16.00                                      | 6.00                          | 23.00          | 8.50                  | 4.20                      |
|     | Johor/Johore                  | 4.80                         | 4.70                   | 5.00                     | 4.50                                    | 4.30                                 | 7.00                            | 16.00                                      | 5.00                          | 22.00          | 8.00                  | 4.50                      |
|     | Pahang                        | 4.50                         | 4.50                   | 5.50                     | 4.50                                    | 5.00                                 | 6.00                            | 13.00                                      | 6.00                          | 0.00           | 8.00                  | 4.00                      |
|     | Terengganu                    | 4.50                         | 3.80                   | 4.10                     | 4.20                                    | 4.20                                 | 5.00                            | 9.00                                       | 4.80                          | 6.00           | 7.00                  | 3.50                      |
|     | Kelantan                      | 4.60                         | 4.60                   | 6.00                     | 4.00                                    | 4.60                                 | 6.60                            | 12.00                                      | 4.60                          | 0.00           | 8.00                  | 3.60                      |
|     | Sarawak                       | 5.00                         | 4.00                   | 4.50                     | 5.50                                    | 0.00                                 | 0.00                            | 0.00                                       | 0.00                          | 0.00           | 7.50                  | 4.00                      |
|     | Sabah                         | 6.00                         | 9.00                   | 7.80                     | 9.00                                    | 6.00                                 | 0.00                            | 0.00                                       | 0.00                          | 0.00           | 0.00                  | 7.50                      |
|     | Harga Bertimbang              | 4.72                         | 4.86                   | 5.26                     | 4.40                                    | 4.35                                 | 5.38                            | 13.35                                      | 4.76                          | 12.04          | 9.08                  | 4.25                      |

Nota: Pelbagai - Termasuk Ikan-Ikan Ketutu, Haruan, Baung dan Sepat Siam  
Note: Miscellaneous - Includes Goby, Snake Head, River Catfish and Snakeskin Gouramy

MALAYSIA  
HARGA BORONG IKAN AIRPAYAU/MASIN DI PASAR-PASAR UTAMA MENGIKUT NEGERI DAN SPESIES IKAN, 1989  
WHOLESALE PRICES OF BRACKISHWATER/MARINE FISH AT MAJOR MARKETS BY STATE AND SPECIES, 1989  
(\$/Kg)

JADUAL(TABLE) 22.3

| Negeri/State                   | Siakap<br>Barramund | Kerapu<br>Grouper | Jenahak<br>Mangrove Snapper | Merah<br>Red Snapper | Udang Putih<br>Banana Prawn | Ketam<br>Mud Crab | Udang Harimau<br>Tiger Prawn | Kerang<br>Cockles | Kupang<br>Mussels | Pelbagai<br>Miscellaneous |
|--------------------------------|---------------------|-------------------|-----------------------------|----------------------|-----------------------------|-------------------|------------------------------|-------------------|-------------------|---------------------------|
| Perlis                         | 0.00                | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 18.00                        | 0.30              | 0.00              | 0.00                      |
| Kedah                          | 8.00                | 16.00             | 6.50                        | 0.00                 | 20.00                       | 0.00              | 18.00                        | 0.30              | 0.00              | 5.30                      |
| P. Pinang/Penang               | 9.40                | 16.00             | 9.80                        | 0.00                 | 0.00                        | 7.00              | 18.00                        | 0.40              | 0.45              | 9.00                      |
| Perak                          | 8.50                | 17.50             | 10.00                       | 8.00                 | 21.00                       | 7.00              | 19.50                        | 0.40              | 0.55              | 7.00                      |
| Selangor                       | 8.50                | 13.50             | 8.30                        | 8.50                 | 20.00                       | 7.80              | 18.00                        | 0.35              | 0.65              | 7.00                      |
| W. Persekutuan/<br>F.Territory | 0.00                | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 0.00                         | 0.00              | 0.00              | 0.00                      |
| N. Sembilan                    | 8.00                | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 19.00                        | 0.00              | 0.75              | 0.00                      |
| Melaka/Malacca                 | 8.00                | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 0.00                         | 0.00              | 0.50              | 0.00                      |
| Johor/Johore                   | 10.00               | 20.00             | 9.00                        | 8.50                 | 23.00                       | 6.00              | 21.00                        | 0.21              | 0.45              | 8.00                      |
| Pahang                         | 0.00                | 0.00              | 0.00                        | 0.00                 | 0.00                        | 8.00              | 22.00                        | 0.00              | 0.00              | 0.00                      |
| Terengganu                     | 6.50                | 8.00              | 6.50                        | 0.00                 | 22.00                       | 7.00              | 21.00                        | 0.00              | 0.45              | 5.50                      |
| Kelantan                       | 8.00                | 10.00             | 6.00                        | 0.00                 | 0.00                        | 6.00              | 23.00                        | 0.00              | 0.00              | 5.00                      |
| Sarawak                        | 4.50                | 4.00              | 3.00                        | 3.00                 | 0.00                        | 6.00              | 16.00                        | 2.00              | 0.00              | 0.00                      |
| Sabah                          | 0.00                | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 17.15                        | 2.80              | 0.00              | 0.00                      |
| Harga Bertimbang               | 6.11                | 8.08              | 4.55                        | 2.15                 | 8.15                        | 4.22              | 17.74                        | 0.52              | 0.29              | 3.60                      |

\* Pelbagai - termasuk ikan-ikan Tanda, Dengkis, Cupak/Cermin dan Talang.  
Miscellaneous - includes Snapper, Rabbit fish, Horse Mackerel and Queenfish.

MALAYSIA  
HARGA RUNCIT IKAN AIRPAYAU/MASIN DI PASAR-PASAR UTAMA MENGIKUT NEGERI DAN SPESIES IKAN, 1989  
RETAIL PRICES OF BRACKISHWATER/MARINE FISH AT MAJOR MARKETS BY STATE AND SPECIES, 1989  
(\$/Kg)

JADUAL (TABLE) 22.4

| Negeri/State                       | Jenis Ikan/Species   |                   |                             |                      |                             |                   |                              |                   |                   |                           |
|------------------------------------|----------------------|-------------------|-----------------------------|----------------------|-----------------------------|-------------------|------------------------------|-------------------|-------------------|---------------------------|
|                                    | Siakap<br>Barramundi | Kerapu<br>Grouper | Jenahak<br>Mangrove Snapper | Merah<br>Red Snapper | Udang Putih<br>Banana Prawn | Ketam<br>Mud Crab | Udang Harimau<br>Tiger Prawn | Kerang<br>Cockles | Kupang<br>Mussels | Pelbagai<br>Miscellaneous |
| Perlis                             | 0.00                 | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 18.00                        | 0.50              | 0.00              | 0.00                      |
| Kedah                              | 11.00                | 18.00             | 8.00                        | 0.00                 | 23.00                       | 0.00              | 20.00                        | 0.60              | 0.65              | 5.80                      |
| P. Pinang/Penang                   | 10.00                | 20.00             | 11.00                       | 0.00                 | 0.00                        | 8.00              | 20.00                        | 0.60              | 0.90              | 11.00                     |
| Perak                              | 10.20                | 18.50             | 10.50                       | 9.00                 | 26.00                       | 7.50              | 25.50                        | 0.60              | 0.90              | 8.50                      |
| Selangor                           | 9.80                 | 16.00             | 9.50                        | 9.50                 | 25.00                       | 8.80              | 20.00                        | 0.50              | 1.00              | 8.00                      |
| W. Persekutuan/<br>F. Territory    | 0.00                 | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 0.00                         | 0.00              | 0.00              | 0.00                      |
| N. Sembilan                        | 9.50                 | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 19.00                        | 0.00              | 1.00              | 0.00                      |
| Melaka/Malacca                     | 9.50                 | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 0.00                         | 0.00              | 0.60              | 0.00                      |
| Johor/Johore                       | 11.00                | 24.00             | 10.00                       | 9.50                 | 25.00                       | 7.50              | 24.00                        | 0.70              | 0.70              | 10.50                     |
| Pahang                             | 0.00                 | 0                 | 0.00                        | 0.00                 | 0.00                        | 9.00              | 25.00                        | 0.00              | 0.00              | 0.00                      |
| Terengganu                         | 8.00                 | 10.00             | 7.00                        | 0.00                 | 24.00                       | 7.50              | 23.00                        | 0.00              | 0.90              | 6.00                      |
| Kelantan                           | 10.00                | 12.00             | 6.50                        | 0.00                 | 0.00                        | 7.00              | 24.00                        | 0.00              | 0.00              | 6.50                      |
| Sarawak                            | 5.50                 | 5.00              | 5.00                        | 4.80                 | 0.00                        | 7.00              | 18.00                        | 3.00              | 0.00              | 0.00                      |
| Sabah                              | 0.00                 | 0.00              | 0.00                        | 0.00                 | 0.00                        | 0.00              | 20.58                        | 3.50              | 0.00              | 0.00                      |
| Harga Bertimbang<br>Weighted Price | 7.27                 | 9.50              | 5.19                        | 2.52                 | 9.46                        | 4.79              | 19.78                        | 0.77              | 0.51              | 4.33                      |

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

MALAYSIA  
PENGELUARAN BENIH IKAN AIRTAWAR DARI PUSAT-PUSAT PEMBAIKBIK IKAN JADUAL (TABLE) 23.1  
KERAJAAN MENGIKUT PUSAT DAN SPESIES, 1989  
FRESHWATER FINGERLINGS PRODUCTIONS OF GOVERNMENT HATCHERIES  
BY HATCHERY AND SPECIES, 1989

| Spesies<br>(Species)<br><br>Pusat Pembaikbiak<br>(Hatchery) | Lampam<br>Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Sepat<br>Siam<br>Snakeskin<br>Gouramy | Tilapia<br>Nilotika<br>Tilapia<br>Nilotica | Tilapia<br>Merah<br>Red<br>Tilapia | Kap Kepala<br>Besar<br>Big Head<br>Carp | Keli<br>Freshwater<br>Catfish | Jelawat<br>River Carp | Kap Rumpit<br>Grass<br>Carp | Patin<br>River<br>Catfish | Lain-<br>Lain<br>Others | Jumlah<br>Total |
|-------------------------------------------------------------|------------------------------------|---------------------------|---------------------------------------|--------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------|-----------------------|-----------------------------|---------------------------|-------------------------|-----------------|
| Bukit Tinggi,                                               | 4,616,121                          | 258,970                   | 28,170                                | 3,000                                      | 462,899                            | 1,695,925                               | 290                           | 7,065,375             | 0                           | 0                         | 0                       | 14,130,750      |
| Jitra, Kedah                                                | 1,545,041                          | 1,416,386                 | 31,402                                | 227,262                                    | 444,371                            | 685,140                                 | 0                             | 4,349,602             | 0                           | 0                         | 0                       | 8,699,204       |
| Enggor, Perak                                               | 9,350                              | 0                         | 659,934                               | 15,950                                     | 50,200                             | 0                                       | 140,969                       | 876,403               | 0                           | 0                         | 0                       | 1,752,806       |
| PPIAT<br>Batu Berendam                                      | 585,870                            | 2,820                     | 0                                     | 10,000                                     | 484,435                            | 103,750                                 | 343,689                       | 106,850               | 22,700                      | 180,818                   | 618,730                 | 2,459,662       |
| Sarawak                                                     | 3,950,411                          | 1,627,544                 | 12,275                                | 116,424                                    | 29,434                             | 0                                       | 822                           | 0                     | 0                           | 0                         | 296,659                 | 6,033,569       |
| Jumlah/Total:                                               | 6,756,382                          | 1,678,176                 | 719,506                               | 256,212                                    | 1,441,905                          | 2,484,815                               | 484,948                       | 12,398,230            | 22,700                      | 180,818                   | 618,730                 | 27,042,422      |

**MALAYSIA**  
**PENGELUARAN BENIH-BENIH IKAN/UDANG AIRTAWAR DARI PUSAT-PUSAT**  
**KERAJAAN MENGIKUT PUSAT DAN SPESIES, 1989**  
**PRODUCTION OF BRACKISH WATER FISH/PRAWN FINGERLINGS FROM**  
**GOVERNMENT HATCHERIES BY HATCHERY AND SPECIES, 1989**

**JADUAL (TABLE) 23.2**

| Spesies<br>(Species)          | Udang<br>Galah<br>Giant Fresh-<br>water prawn | Udang<br>Harimau<br>Tiger<br>prawn | Siakap<br>Barramundi | Jumlah<br>Total |
|-------------------------------|-----------------------------------------------|------------------------------------|----------------------|-----------------|
| Pusat Penetasan<br>(Hatchery) |                                               |                                    |                      |                 |
| PPUG Kg. Acheh                | 3,179,488                                     | 1,796,650                          | 0                    | 4,976,138       |
| PPBPUK Pulau Sayak            | 8,900,000                                     | 125,250,000                        | 0                    | 134,150,000     |
| PPUG Sabak                    | 1,057,520                                     | 1,260,000                          | 0                    | 2,317,520       |
| PPUG Tg. Demong               | 0                                             | 0                                  | 114,349,240          | 114,349,240     |
| Semariang Rate                | 302,900                                       | 0                                  | 0                    | 302,900         |
| Jumlah/Total:                 | 13,137,008                                    | 128,306,650                        | 114,349,240          | 255,792,898     |

\* PPUG - Pusat Penetasan Udang Galah  
 ( Giant Freshwater Prawn Hatchery Center )  
 PPBPUK - Pusat Pengeluaran dan Penyelidikan  
 Benih Udang Kebangsaan  
 ( National Prawn Fry Production And Research Center )

MALAYSIA  
PEMBAHAGIAN BENIH-BENIH IKAN UNTUK KEGUNAAN PELBAGAI DAN PELEPASAN  
KE PERAIRAN UMUM MENGIKUT NEGERI DAN SPESIES IKAN, 1989  
DISTRIBUTION OF FRESHWATER FRY FOR MISCELLANEOUS PURPOSES AND RELEASED  
INTO PUBLIC WATERBODIES BY STATE AND SPECIES, 1989

JADUAL (TABLE) 23.3

| Negeri/<br>State              | Kegunaan Pelbagai/Miscellaneous Purposes |                        |                                 |                                   |                                |                              |                    |                           | Pelepasan Ke Perairan Umum/Released Into Public Waterbodies |                        |                                 |                                   |                                |                              |                 |                | Jumlah |  |
|-------------------------------|------------------------------------------|------------------------|---------------------------------|-----------------------------------|--------------------------------|------------------------------|--------------------|---------------------------|-------------------------------------------------------------|------------------------|---------------------------------|-----------------------------------|--------------------------------|------------------------------|-----------------|----------------|--------|--|
|                               | Lampam Jawa<br>Javanese Carp             | Lee Koh<br>Common Carp | Sepat Siam<br>Snakeskin Gouramy | Kap Kepala Besar<br>Big Head Carp | Tilapia Hitam<br>Black Tilapia | Tilapia Merah<br>Red Tilapia | Pelbagai<br>Others | Jumlah Kecil<br>Sub Total | Lampam Jawa<br>Javanese Carp                                | Lee Koh<br>Common Carp | Sepat Siam<br>Snakeskin Gouramy | Kap Kepala Besar<br>Big Head Carp | Tilapia Hitam<br>Black Tilapia | Tilapia Merah<br>Red Tilapia | Jumlah<br>Total | Grand<br>Total |        |  |
| Perlis                        | 220                                      | 0                      | 0                               | 1,980                             | 5,940                          | 0                            | 0                  | 8,140                     | 99,840                                                      | 116,800                | 0                               | 0                                 | 0                              | 0                            | 216,640         | 224,780        |        |  |
| Kedah                         | 182,494                                  | 98,071                 | 17,850                          | 606                               | 102,115                        | 57,013                       | 0                  | 458,149                   | 109,450                                                     | 266,280                | 0                               | 110,065                           | 0                              | 0                            | 485,795         | 943,944        |        |  |
| P.Pinang/ Penang              | 11                                       | 11                     | 0                               | 0                                 | 0                              | 88                           | 0                  | 110                       | 0                                                           | 0                      | 0                               | 0                                 | 0                              | 0                            | 0               | 110            |        |  |
| Perak                         | 1,360                                    | 50                     | 14,250                          | 0                                 | 4,600                          | 8,800                        | 0                  | 29,060                    | 223,400                                                     | 92,000                 | 5,775                           | 416,570                           | 0                              | 0                            | 737,745         | 766,805        |        |  |
| Selangor                      | 130                                      | 20                     | 0                               | 1,500                             | 0                              | 120                          | 0                  | 1,770                     | 161,000                                                     | 0                      | 0                               | 100,000                           | 0                              | 0                            | 261,000         | 262,770        |        |  |
| W.Persekutuan/<br>F.Territory | 24,600                                   | 40                     | 20                              | 4,000                             | 0                              | 3,540                        | 0                  | 32,200                    | 350,000                                                     | 2,000                  | 0                               | 424,000                           | 0                              | 3,050                        | 779,050         | 811,250        |        |  |
| N. Sembilan                   | 0                                        | 0                      | 0                               | 0                                 | 0                              | 0                            | 0                  | 0                         | 85,000                                                      | 0                      | 0                               | 16,000                            | 0                              | 5,000                        | 106,000         | 106,000        |        |  |
| Malaka/Malacca                | 1,410                                    | 0                      | 0                               | 0                                 | 0                              | 0                            | 0                  | 1,410                     | 120,000                                                     | 0                      | 0                               | 10,000                            | 0                              | 0                            | 130,000         | 131,410        |        |  |
| Johor/Johore                  | 0                                        | 0                      | 0                               | 0                                 | 0                              | 0                            | 0                  | 0                         | 143,000                                                     | 21,150                 | 0                               | 0                                 | 0                              | 0                            | 164,150         | 164,150        |        |  |
| Pahang                        | 62,110                                   | 3,100                  | 2,350                           | 0                                 | 3,000                          | 29,300                       | 0                  | 99,860                    | 181,500                                                     | 11,150                 | 6,500                           | 223,900                           | 0                              | 0                            | 423,050         | 522,910        |        |  |
| Terengganu                    | 95,000                                   | 5,000                  | 0                               | 0                                 | 0                              | 5,000                        | 0                  | 105,000                   | 88,000                                                      | 38,000                 | 0                               | 100,000                           | 0                              | 0                            | 226,000         | 331,000        |        |  |
| Kelantan                      | 15,660                                   | 600                    | 0                               | 0                                 | 0                              | 6,660                        | 0                  | 22,920                    | 130,000                                                     | 0                      | 8,000                           | 105,000                           | 0                              | 0                            | 243,000         | 265,920        |        |  |
| Sarawak                       | 1,900,715                                | 625,350                | 2,380                           | 0                                 | 3,920                          | 0                            | 57,700             | 2,590,065                 | 0                                                           | 0                      | 34,159                          | 0                                 | 0                              | 0                            | 34,159          | 2,624,224      |        |  |
| Sabah                         | 0                                        | 0                      | 0                               | 0                                 | 0                              | 0                            | 0                  | 0                         | 0                                                           | 0                      | 0                               | 0                                 | 0                              | 0                            | 0               | 0              |        |  |
| Jumlah/Total:                 | 2,283,710                                | 732,242                | 36,850                          | 8,086                             | 119,575                        | 110,521                      | 57,700             | 3,348,684                 | 1,691,190                                                   | 547,380                | 54,434                          | 1,505,535                         | 0                              | 8,050                        | 3,806,589       | 7,155,273      |        |  |

MALAYSIA JADUAL (TABLE) 23.4  
 PEMBAHAGIAN BENIH-BENIH IKAN AIRTAWAR KEPADA PENTERNAK  
 MENGIKUT NEGERI DAN SPESIES IKAN BAGI TAHUN 1989.  
 DISTRIBUTION OF FRESHWATER FISH FRY TO CULTURISTS  
 BY STATE AND SPECIES, 1989.

| Negeri<br>State               | Lampam<br>Jawa<br>Javanese<br>Carp | Lee Koh<br>Common<br>Carp | Sepat<br>Siam<br>Snakeskin<br>Gouramy | Kap Kepala<br>Besar<br>Big Head<br>Carp | Tilap<br>Niloti<br>Tilapia<br>Nilotik | Tilapia<br>Merah<br>Red<br>Tilapia | Keli<br>River<br>Catfish | Jumlah<br>Total |
|-------------------------------|------------------------------------|---------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|------------------------------------|--------------------------|-----------------|
| Perlis                        | 14,146                             | 19,107                    | 165                                   | 13,723                                  | 3,619                                 | 20,174                             | 0                        | 70,934          |
| Kedah                         | 195,348                            | 94,692                    | 6,400                                 | 25,332                                  | 18,613                                | 69,508                             | 27,000                   | 436,893         |
| P.Pinang/ Penang              | 37,950                             | 6,215                     | 20,400                                | 3,575                                   | 27,500                                | 27,973                             | 15,000                   | 138,613         |
| Perak                         | 64,870                             | 5,950                     | 37,685                                | 6,885                                   | 28,750                                | 85,983                             | 179,606                  | 409,729         |
| Selangor                      | 543,816                            | 100                       | 11,000                                | 0                                       | 0                                     | 66,945                             | 45,000                   | 666,861         |
| W.Persekutuan/<br>F.Territory | 2,500                              | 0                         | 0                                     | 0                                       | 0                                     | 5,975                              | 0                        | 8,475           |
| N. Sembilan                   | 76,850                             | 5,500                     | 200                                   | 0                                       | 0                                     | 2,000                              | 0                        | 84,550          |
| Melaka/Malacca                | 0                                  | 0                         | 0                                     | 0                                       | 0                                     | 0                                  | 0                        | 0               |
| Johor/Johore                  | 139,400                            | 29,910                    | 0                                     | 0                                       | 8,100                                 | 32,320                             | 0                        | 209,730         |
| Pahang                        | 1,051,181                          | 146,236                   | 74,370                                | 47,757                                  | 0                                     | 248,396                            | 0                        | 1,567,940       |
| Terengganu                    | 134,420                            | 80,300                    | 0                                     | 11,385                                  | 57,805                                | 15,400                             | 0                        | 299,310         |
| Kelantan                      | 182,502                            | 87,878                    | 3,200                                 | 2,469                                   | 45,914                                | 39,221                             | 40,000                   | 401,184         |
| Sarawak                       | 3,748,499                          | 1,557,470                 | 105,956                               | 119,350                                 | 104,326                               | 18,334                             | 822                      | 5,654,757       |
| Sabah                         | 0                                  | 0                         | 0                                     | 0                                       | 0                                     | 0                                  | 0                        | 0               |
| Jumlah/Total:                 | 6,191,482                          | 2,033,358                 | 259,376                               | 230,476                                 | 294,627                               | 632,229                            | 307,428                  | 9,948,976       |

MALAYSIA  
BILANGAN PUSAT PENETASAN SWASTA DAN PENGELUARANNYA  
MENGIKUT SPESIES DAN NEGERI, 1989.  
NUMBER OF PRIVATE HATCHERIES AND PRODUCTIONS BY SPECIES AND STATE, 1989

JADUAL (TABLE) 23.5

| Negeri<br>State               | Bil. Pusat<br>Penetasan<br>No. of Hatchery | Udang<br>Harimau<br>Tiger<br>prawn | Udang<br>Putih<br>Banana<br>Prawn | Tilapia<br>Nilotika<br>Tilapia<br>Nilotica | Tilapia<br>Merah<br>Red<br>Tilapia | Kap<br>Jepun<br>Japanese<br>Carp | Lee Koh<br>Common<br>Carp | Udang<br>Galah<br>Giant<br>Freshwater<br>Prawn | Pelbagai<br>Miscellaneous | Jumlah<br>Total |
|-------------------------------|--------------------------------------------|------------------------------------|-----------------------------------|--------------------------------------------|------------------------------------|----------------------------------|---------------------------|------------------------------------------------|---------------------------|-----------------|
| Perlis                        | 0                                          | 0                                  | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 0               |
| Kedah                         | 2                                          | 15,500,000                         | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 829,000                   | 16,329,000      |
| P.Pinang/Penang               | 1                                          | 7,527,801                          | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 7,527,801       |
| Perak                         | 5                                          | 8,000,000                          | 0                                 | 30,000                                     | 40,000                             | 0                                | 0                         | 0                                              | 440,000                   | 8,510,000       |
| Selangor                      | 3                                          | 12,000,000                         | 0                                 | 0                                          | 400,000                            | 360,000                          | 360,000                   | 0                                              | 98,300                    | 13,218,300      |
| W.Persekutuan/<br>F.Territory | 0                                          | 0                                  | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 0               |
| N.Sembilan                    | 1                                          | 0                                  | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 0               |
| Melaka                        | 3                                          | 7,500,000                          | 0                                 | 0                                          | 0                                  | 0                                | 20,000                    | 0                                              | 855,000                   | 8,375,000       |
| Johor                         | 11                                         | 131,000,000                        | 69,550,000                        | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 200,550,000     |
| Pahang                        | 0                                          | 0                                  | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 0               |
| Terengganu                    | 0                                          | 0                                  | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 0               |
| Kelantan                      | 0                                          | 0                                  | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 0               |
| Sarawak                       | 0                                          | 0                                  | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 0               |
| Sabah                         | 0                                          | 0                                  | 0                                 | 0                                          | 0                                  | 0                                | 0                         | 0                                              | 0                         | 0               |
| Jumlah/Total                  | 26                                         | 181,527,801                        | 69,550,000                        | 30,000                                     | 440,000                            | 360,000                          | 380,000                   | 0                                              | 2,222,300                 | 254,510,101     |

MALAYSIA JADUAL(TABLE)24.1  
 BILANGAN PENGELUARAN IKAN AKUARIUM SERTA NILAI YANG  
 DIKELUARKAN DALAM TAHUN 1989.  
 PRODUCTIONS AND VALUE OF ORNAMENTAL FISH 1989

| Negeri<br>State           | Bilangan<br>Dikeluarkan(Ekor)<br>(No. of Production) | Nilai (M\$)<br>Value (M\$) |
|---------------------------|------------------------------------------------------|----------------------------|
| Perlis                    | 0                                                    | 0.00                       |
| Kedah                     | 0                                                    | 0.00                       |
| P.Pinang/ Penang          | 272,682                                              | 194,267.20                 |
| Perak                     | 38,569,860                                           | 13,499,451.00              |
| Selangor                  | 1,597,000                                            | 558,950.00                 |
| W.Persekutuan/F.Territory | 0                                                    | 0.00                       |
| N.Sembilan                | 0                                                    | 0.00                       |
| Melaka / Malacca          | 0                                                    | 0.00                       |
| Johor / Johore            | 30,522,911                                           | 2,013,008.61               |
| Pahang                    | 0                                                    | 0.00                       |
| Terengganu                | 0                                                    | 0.00                       |
| Kelantan                  | 0                                                    | 0.00                       |
| Sarawak                   | 0                                                    | 0.00                       |
| Sabah                     | 0                                                    | 0.00                       |
| <b>JUMLAH/TOTAL</b>       | <b>70,962,453</b>                                    | <b>16,265,676.81</b>       |

**KLASIFIKASI PERANGKAAAN PIAWAIAN IKAN-IKAN  
AIRTAWAR MALAYSIA  
STANDARD STATISTICAL CLASSIFICATION  
OF COMMON MALAYSIAN FRESHWATER FISHES**

| ISSCAAP              |                                    | Local Name         | English Name           | Scientific Name                    |
|----------------------|------------------------------------|--------------------|------------------------|------------------------------------|
| DIVISION             | GROUP                              |                    |                        |                                    |
| 1. Freshwater Fishes | 11 Carps, Barbs                    | Tengas             | Carp                   | Acrossocheilus hexagonolepis       |
|                      |                                    | Kap Kepala Besar   | Big Head Carp          | Aristichthys nobilis               |
|                      |                                    | Ikan Mas           | Edible Gold Fish       | Carassius auratus                  |
|                      |                                    | Kap Lumpur         | Mud Carp               | Cirrhina molitorella               |
|                      |                                    | Kap Rumpot         | Grass Carp             | Ctenopharyngodon idella            |
|                      |                                    | Temperas           | Carp                   | Cyclocheilichthys apogon           |
|                      |                                    | Lee Koh            | Common Carp            | Cyprinus Carpio                    |
|                      |                                    | Selimang Batu      | Carp                   | Epiplatys spilargyreus             |
|                      |                                    | Sebarau            | Carp                   | Hemibarbus maculatus               |
|                      |                                    | Kap Perak          | Silver Carp            | Hypophthalmichthys molitrix        |
|                      |                                    | Pucuk Pisang       | Carp/Barb              | Labiobarbus fasciatus              |
|                      |                                    | Lomah              | Carp/Barb              | Labiobarbus ocellatus              |
|                      |                                    | Jelawat            | River Carp             | Leptobarbus hoeveni                |
|                      |                                    | Jenkua             | Carp                   | Morulus chrysophekadion            |
|                      |                                    | Kap Hitam          | Black Carp             | Mylopharyngodon piceus             |
|                      |                                    | Sia                | Carp                   | Mystacoleucus marginatus           |
|                      |                                    | Terbol             | Carp                   | Osteochilus hasseltii              |
|                      |                                    | Lallang            | Carp                   | Oxygaster anomalura                |
|                      |                                    | Bulu Ayam          | Carp                   | Oxygaster spp.                     |
|                      |                                    | Temoleh, Temelian  | Giant River Carp       | Probarbus jullieni                 |
|                      |                                    | Putih, Tebal Sisek | Common Barb            | Puntius binotatus                  |
|                      |                                    | Tengalan           | Carp/Barb              | Puntius bulu                       |
|                      |                                    | Kerai Kunyit       | Carp/Barb              | Puntius daruphani                  |
|                      |                                    | Lampam Jawa        | Javanese Carp          | Puntius gonionotus                 |
|                      |                                    | Bagoh              | Spanner Barb           | Puntius lateristriga               |
|                      |                                    | Lampam Sungai      | River Carp             | Puntius schwanefeldii              |
|                      |                                    | Susur Batang       | Rasbora                | Rasbora einthovenii                |
|                      |                                    | Seluang            | Two-spot Rasbora       | Rasbora elegans                    |
|                      |                                    | Kelah              | River Carp             | Tor tambroides                     |
|                      | 12 Cichlids                        | Tilapia            | Tilapia                | Tilapia mossambica                 |
|                      | 13 Miscellaneous freshwater fishes | Puyu               | Climbing Perch         | Anabas tertudineus                 |
|                      |                                    | Tuna               | River Eel              | Anquilla bicolor/A. nebulosa       |
|                      |                                    | Kepala Timah       | White Spot             | Aplocheilichthys panchax           |
|                      |                                    | Lali-lali          | Loach                  | Botia spp.                         |
|                      |                                    | Keli               | Freshwater Catfish     | Clarias batrachus/C. macrocephalus |
|                      |                                    | Limbat             | Freshwater Catfish     | Clarias nieuhofii                  |
|                      |                                    | Belut              | Swamp Eel              | Fluta alba                         |
|                      |                                    | Temakang           | Kissing Gourami        | Helostoma temminckii               |
|                      |                                    | Susoh Batu         | Loach                  | Homaloptera spp.                   |
|                      |                                    | Baug               | River Catfish          | Mystus nemurus                     |
|                      |                                    | Tengku Lolah       | River Catfish          | Mystus wyckii                      |
|                      |                                    | Belida             | Feather back           | Notopterus notopterus              |
|                      |                                    | Kelui              | Giant Gourami          | Ophichthys goramii                 |
|                      |                                    | Bujuk              | Snake Head             | Ophichthys lucius                  |
|                      |                                    | Toman              | Snake Head             | Ophichthys micropeltes             |
|                      |                                    | Haruan             | Snake Head             | Ophichthys striatus                |
|                      |                                    | Ketutu             | Goby                   | Oxyeleotris marmoratus             |
|                      |                                    | Lawang             | River Catfish          | Pangasius micronemus               |
|                      |                                    | Patin              | River Catfish          | Pangasius pangasius                |
|                      |                                    | Kepar, Patong      | Perch                  | Pristigaster fasciatus             |
|                      |                                    | Kelesu             | Scleropages            | Scleropages formosus               |
|                      |                                    | Sepat Siam         | Snakeskin Gourami      | Trichogaster pectoralis            |
|                      |                                    | Sepat Padi         | Two-spot Gourami       | Trichogaster trichopterus          |
|                      |                                    | Tapah              | Giant River Catfish    | Wallago spp.                       |
| 4 Crustaceans        | 41 Freshwater Crustaceans          | Udang Galah        | Giant Freshwater Prawn | Macrobrachium rosenbergii          |

**KLASIFIKASI PERANGKAAAN PIAWAIAN IKAN-IKAN LAUT MALAYSIA**  
**STANDARD STATISTICAL CLASSIFICATION OF MALAYSIAN MARINE FISHES**

| Division        | ISSCAAP Group                       | Local Name                                                                                                                                                                                                                                                                                                                                           | English Name                                                                                                                                                                                                                                                                                                                                                                                                                        | Scientific Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 Diadromous    | 24 Shads, Milkfishes, etc.          | Kebasi/Selangat                                                                                                                                                                                                                                                                                                                                      | + Chacunda shad (Gizzard shad)                                                                                                                                                                                                                                                                                                                                                                                                      | Anodontosoma chacunda                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                 |                                     | Puput<br>Beliak mata<br>Terubok                                                                                                                                                                                                                                                                                                                      | + Shad<br>+ Slender shad<br>0 Longtail shad                                                                                                                                                                                                                                                                                                                                                                                         | Pellona spp<br>Ilisha elongata<br>Hilsa macrura                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                 | 25 Miscellaneous diadromous fishes  | Siakap                                                                                                                                                                                                                                                                                                                                               | + Giant sea perch (Barramundi)                                                                                                                                                                                                                                                                                                                                                                                                      | Lates calcarifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3 Marine fishes | 31 Flounders, Halibuts, Soles, etc. | Lidah<br>Sebelah                                                                                                                                                                                                                                                                                                                                     | + Tonguefish (Tongue sole)<br>+ Flatfish                                                                                                                                                                                                                                                                                                                                                                                            | Cynoglossus spp<br>Pseudorhombus spp                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                 |                                     |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                 | 33 Redfishes, Basses, Congers, etc. | Bayan<br>Biji nangka<br>Daun Baharu<br>Delah<br>Dengkis/Debam<br>Duri/Pulutan/Utek                                                                                                                                                                                                                                                                   | + Parrotfish<br>+ Goatfish<br>+ Spotted sicklefish<br>+ Fusilier<br>+ Spinefeet (Rabbit fish)<br>+ Marine catfish                                                                                                                                                                                                                                                                                                                   | Callyodon spp./Thalassoma spp.<br>Upeneus spp.<br>Drepane punctata<br>Caesio erythrogaster/C. chrysona<br>Siganus spp.<br>Tachysurus spp/Arius spp/<br>Osteogenius spp.<br>Sciaenidae spp/Johnius spp/<br>Otolithus spp/Otolithoides spp.<br>Promadasys spp.<br>Abalistes stellaris<br>Lutianus johni<br>Spilotichthys picfus<br>Gerres filamentosus/G. abbreviatus<br>Epinephelus spp/Plectropomus spp.<br>Nemipterus spp<br>Pristipomoides typus<br>Leiognathus spp/Gazzy spp/<br>Secutor spp. |
|                 |                                     | Gelama/Tongkerong<br><br>Gerut-gerut<br>Jebong<br>Jenahak<br>Kaci<br>Kapas laut<br>Kerapu<br>Kerisi<br>Kerisi bali<br>Kikek<br><br>Lumi-lumi<br>Malong<br>Merah<br><br>Mengkerong/Ubi/Conor<br>Puntung Damar/Bulus-bulus<br>Pasir-pasir/Timun-timun/<br>Puyu Laut<br>Pelandok<br>Pluru<br>Remong/Kunyit-kunyit<br>Semilang<br>Shrumbu/Lemah<br>Tanda | + Jewfish<br><br>+ Grunter<br>+ Triggerfish<br>+ Mangrove snapper<br>+ Sweetlip<br>+ Majorras (Silver biddies)<br>+ Grouper<br>+ Threadfin bream<br>+ Sharptoothed bass<br>+ Ponyfish (Slipmouth)<br><br>+ Bombay-duck<br>+ Conger eel<br>+ Red snapper<br><br>+ Lizard fish<br>+ Sillago-whittings<br>+ Monocle bream<br><br>+ Emperors (Scavengers)<br>+ Spadefish<br>+ Snapper<br>+ Catfish eel<br>+ False trevally<br>+ Snapper | Harpodon nehereus<br>Muraenesox sp.<br>Lutianus argentimaculatus/<br>L. malabaricus<br>Sauride spp.<br>Sillago sihama/S. maculata<br>Scolopsis spp.<br><br>Lethrinus spp.<br>Ephippus orbis<br>Lutianus vitta/L. lineolatus<br>Plotosus spp<br>Lactarius lactarius<br>Lutianus russelli                                                                                                                                                                                                          |
| 34 Jacks,       | 34 Jacks, Mulletts, Sauries, etc.   | Aji-aji<br>Alu-alu/Kacang-kacang<br>Aruan Tasek<br>Bawal hitam<br>Bawal putih<br>Bawal tambak<br>Bawal selatan<br>Belanak/Kedera<br>Cermin/Sagai/Cupak<br>Cincaru<br>Demudok/Rambai<br>Gerong-gerong<br>Kurau/Senangin/Senohong                                                                                                                      | + Amberjack<br>+ Barracuda<br>+ Black kingfish<br>0 Black pomfret<br>0 Silver pomfret<br>0 Chinese pomfret<br>0 Small pomfret<br>0 Mullet<br>+ Horse mackerel (Trevally)<br>0 Hardtail scad<br>+ Horse mackerel (Trevally)<br>+ Golden trevally<br>0 Threadfin                                                                                                                                                                      | Seriola nigrifasciata<br>Sphyræna jello/S. optusa<br>Rachycentron canadus<br>Formio niger<br>Pampus argenteus<br>Pampus chinensis<br>Pampus spp.<br>Liza spp/valamugil spp.<br>Alectis indica/Caranx spp.<br>Megalaspis Cordyla<br>Carangoides spp.<br>Caranx speciosus<br>Polynemus spp/Eleutheronema tetradactylum                                                                                                                                                                             |
|                 |                                     | Kerepoh<br>Lolong<br>Mata Besar/Selar<br>Pisang-pisang<br>Selar/Pelata<br>Selar Kuning<br>Selayang/Curut<br>Talang                                                                                                                                                                                                                                   | 0 Horse mackerel (Trevally)<br>0 Ox-eye scad<br>0 Big-eye scad<br>0 Rainbow runner<br>0 Selar scad<br>0 Yellow striped trevally<br>0 Round scad<br>0 Queenfish (Leatherskin)                                                                                                                                                                                                                                                        | Caranx sexfasciatus<br>Selar boops<br>Selar crymenophthalmus<br>Elagatis bipinnulatus<br>Selar spp.<br>Selaroides leptolepis<br>Decapterus maruadis/D. macrosoma<br>Scomberoides commersonianus                                                                                                                                                                                                                                                                                                  |

| ISSCAAP Division                | Group                                                | Local Name                                                                                                                                                                                                                                                     | English Name                                                                                                                                                                                                                | Scientific Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | 35 Herrings, Sardines, Anchovies, etc.               | Tamban sisek<br>Tamban buluh/T. Bulat<br>Bilis<br>Parang-parang<br>Bulan-bulan                                                                                                                                                                                 | 0 Fringescale sardinella<br>0 Rainbow sardine<br>0 Anchovy<br>0 Dorab wolf-herring<br>+ Indo-Pacific tarpon                                                                                                                 | <i>Sardinella fimbriata</i><br><i>Dussumieria acuta</i><br><i>Stolephorus</i> spp.<br><i>Chirocentrus dorab</i><br><i>Megalops cyprinoides</i>                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                 | 36 Tunas, Bonitos, Billfishes, etc.                  | Aya/Kayu/Tongkol hitam<br>Aya/Kayu/Tongkol kurik<br>Aya/Kayu/Tongkol/Selasih<br>Layaran/Mersuji<br>Tenggiri                                                                                                                                                    | 0 Longtail tuna<br>0 Kawakawa (eastern little tuna)<br>0 Frigate tuna<br>0 Sailfish/Black and Blue marlin<br>0 Spanish mackerel                                                                                             | <i>Thunnus tonggol</i><br><i>Euthynnus affinis</i><br><i>Auxis thazard</i><br><i>Istiophorus</i> spp/ <i>Makaira</i> spp.<br><i>Scomberomorus</i> spp.                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                 | 37 Mackerels, Snoeks, Cutlass, fishes, etc.          | Kembong/Temenong<br>Timah/Layor/Selayor                                                                                                                                                                                                                        | 0 Indian mackerel<br>+ Large-head hairtail (Ribbon fish)                                                                                                                                                                    | <i>Rastrelliger kanagurta</i> /<br><i>R. brachysoma</i> / <i>R. faughni</i><br><i>Trichiurus lepturus</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                 | 38 Sharks, Rays, Chimaeras, etc.                     | Yu<br>Pari                                                                                                                                                                                                                                                     | + Shark<br>+ Ray                                                                                                                                                                                                            | <i>Galeorhinidae</i><br><i>Gymnura</i> spp/ <i>Dasyatis</i> spp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                 | 49 Miscellaneous marine fishes                       | Ikan Baja<br>Ikan Campur                                                                                                                                                                                                                                       | +/0 Trash fish<br>+/0 Mixed fishes                                                                                                                                                                                          | Mixed spp.<br>Mixed spp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4 Crustaceans                   | 42 Sea spiders, Crabs, etc.                          | Ketam laut/<br>Ketam Renjong<br>Ketam batu                                                                                                                                                                                                                     | Mud crab                                                                                                                                                                                                                    | <i>Portunus pelagicus</i><br><i>Scylla serrata</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                 | 43 Lobsters, Spiny rock lobsters, etc.               | Udang karang<br>Udang lobak                                                                                                                                                                                                                                    | Spiny lobster<br>Slipper lobster                                                                                                                                                                                            | <i>Panulirus polyhagus</i><br><i>Thenus orientalis</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                 | 45 Shrimps, Prawns, etc.                             | Udang putih/Udang kaki merah/Udang susu<br>Udang harimau<br><br>Udang pasir/Udang pasir<br>Kepala besar<br>Udang putih kecil<br>Udang kuning<br>Udang merah ros/<br>Udang ekor biru<br>Udang kulit keras<br>Udang minyak/Udang minyak jalur<br><br>Udang merah | Banana prawn/Western king prawn<br>Giant tiger prawn/<br>Green tiger prawn<br>Sand prawn<br><br>Small white prawn<br>Yellow prawn<br>Pink prawns/Greasyback prawns<br>Rainbow prawn<br>Sharp-rostrum prawn<br><br>Red prawn | <i>Penaeus merguensis</i> / <i>P. indicus</i> /<br><i>P. latissulcatus</i><br><i>Penaeus monodon</i> /<br><i>P. semisulcatus</i><br><i>Metapeneopsis stridulans</i> &<br><i>M. barbeensis</i> / <i>Trachypenaeus fulvus</i><br><i>Metapenaeus lysianassa</i><br><i>Metapenaeus brevicornis</i><br><i>Metapenaeus affinis</i> / <i>M. ensis</i> /<br><i>M. intermedius</i><br><i>Parapenaeopsis sculptilis</i><br><i>Parapenaeopsis hardwickii</i> /<br><i>P. coromandelica</i> / <i>P. hungerfordi</i> / <i>P. gracillima</i><br><i>Solenocera subnuda</i> |
| 5 Molluscs                      | 53 Oysters<br>54 Mussels                             | Tiram<br>Kupang/Siput sudu<br>Siput cangkul                                                                                                                                                                                                                    | Rock oysters/Flat oysters<br>Green mussel<br>Sea-Green mussel                                                                                                                                                               | <i>Ostrea folium</i> / <i>Crassostrea</i> spp.<br><i>Perna viridis</i><br><i>Glaucanome</i> spp.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                 | 56 Clams, Cockles, Arkshells, etc.                   | Kerang<br>Retak seribu<br>Lain-lain siput                                                                                                                                                                                                                      | Blood cockle<br>Carpet clam<br>Other clams/Snails                                                                                                                                                                           | <i>Anadara granosa</i><br><i>Paphia undulata</i><br>Bivalves/Gastropods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                 | 57 Squids, Cuttlefishes, Octopuses, etc.             | Sotong biasa/cumit-cumit<br>Sotong katak<br>Sotong kereta                                                                                                                                                                                                      | Common squid<br>Cuttlefish<br>Octopus                                                                                                                                                                                       | <i>Loligo</i> spp.<br><i>Sepia</i> spp.<br>Octopodidae                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 7 Miscellaneous Aquatic animals | 75 Sea-urchins, Sea-succumbers and other echinoderms | Trepang                                                                                                                                                                                                                                                        | Sea cucumbers (Bache-de-mer)                                                                                                                                                                                                | <i>Holothuriodea</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                 | 76 Miscellaneous Aquatic invertebrates               | Ubur-ubur                                                                                                                                                                                                                                                      | Jelly fish                                                                                                                                                                                                                  | <i>Rhopilema</i> spp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

NOTES:

+ = Demersal finfishes

0 = Pelagic finfishes

+/0 = Trash fish/Mixed fishes of trawl, portable traps, barrier, push/scoop, stationary traps, handlines and other seines are considered demersal.

+/0 = Trash fish/Mixed fishes of purse seines (fish and anchovy) drift/gill nets and lift nets are considered pelagic.