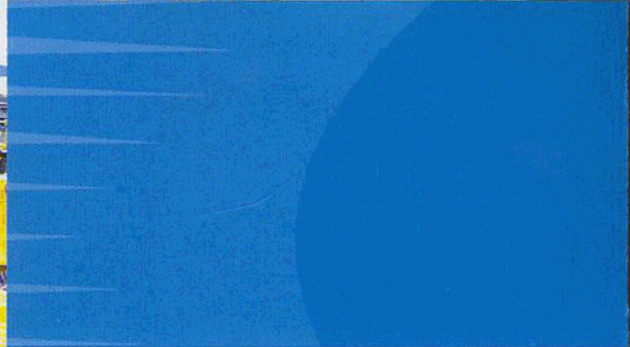




PERANGKAAN TAHUNAN PERIKANAN

ANNUAL FISHERIES STATISTICS

**1990
(Volume 1)**



JABATAN PERIKANAN MALAYSIA

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NASKAH PERCUMA
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PERANGKAAN TAHUNAN PERIKANAN
(ANNUAL FISHERIES STATISTICS)

1990

JILID 1
(VOLUME 1)

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PENDAHULUAN

Perangkaan Tahunan Perikanan yang dikeluarkan oleh Jabatan Perikanan Malaysia adalah merupakan sumber bahan rujukan utama di atas data dan maklumat penting mengenai sektor perikanan Malaysia termasuk data eksport/import komoditi perikanan.

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Kami berharap penerbitan ini dapat memberi faedah kepada semua terutama mereka-mereka yang memerlukan data pengeluaran yang terakhir untuk berbagai tujuan dan kegunaan.

Terima kasih.

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

FOREWORD

The Annual Fisheries Statistics produced by the Department of Fisheries Malaysia is the main source of reference on vital data and informations on the Fisheries Sector of Malaysia including the export/import data of fisheries commodities.

However in view that the later data could not be obtained early because it had to be compiled from other sources, data on production, fishermen, boats, gears and fishing efforts are compiled separately.

This volume (*Volume I*) contains the production data whereas the second volume (*Volume II*) on the export/import will be released later.

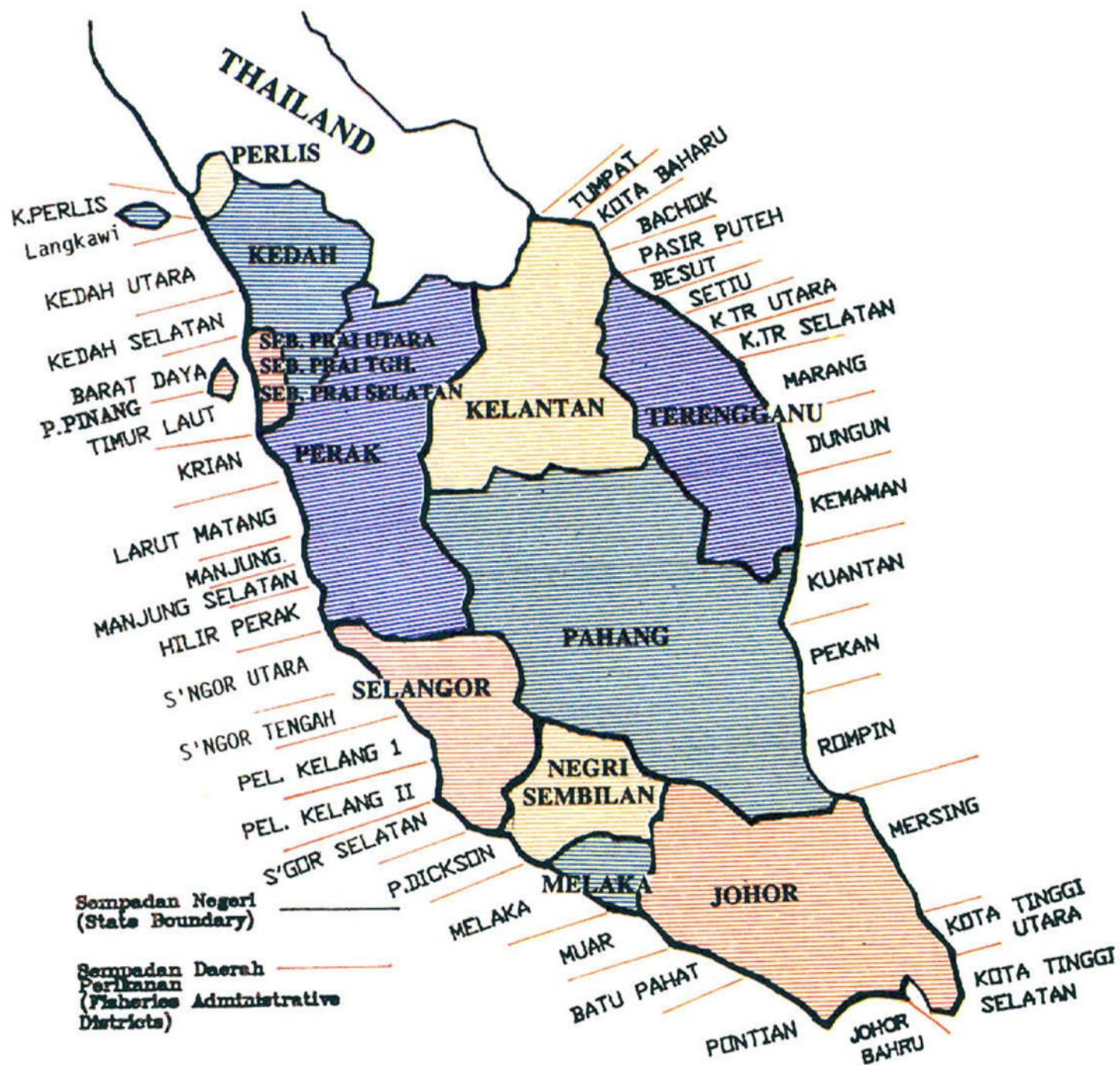
We hope that this bulletin would be useful to all especially to those who needs the latest production data for various purposes.

Thank you.

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

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

SEMANANJUNG MALAYSIA
(*Peninsular Malaysia*)



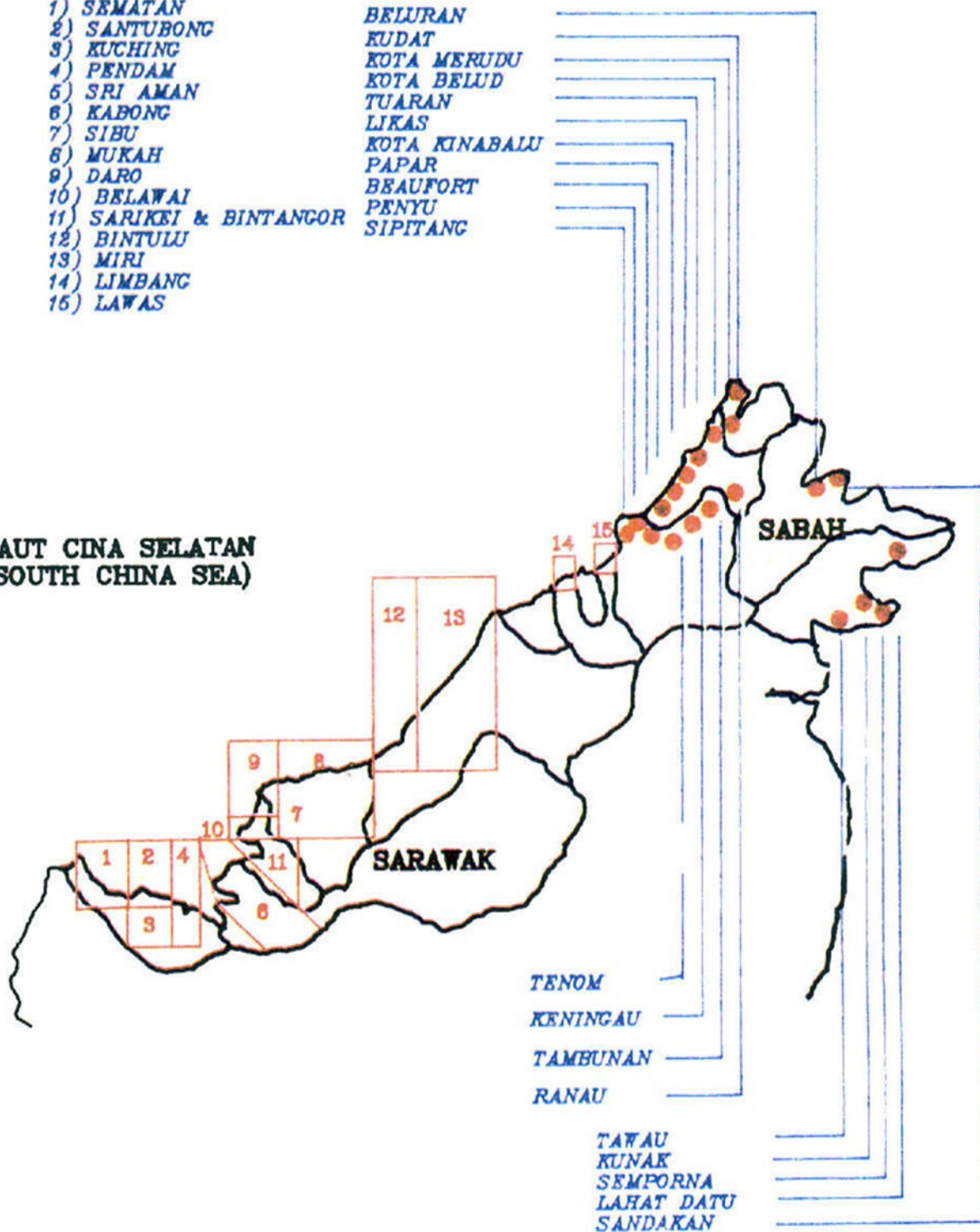
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LAUT CINA SELATAN
(SOUTH CHINA SEA)



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KEDUDUKAN SEKTOR PERIKANAN DI MALAYSIA 1990

1. MAKLUMAT LATARBELAKANG

- 1.1 Sektor Perikanan di Malaysia telah mengalami perubahan dalam beberapa tahun yang lalu. Pada tahun 1990, pengeluarannya telah mencapai paras yang tertinggi iaitu pada 951,307 tan metrik. Objektif Kerajaan supaya pendaratan ikan negara ditingkatkan bagi memenuhi permintaan dalam negeri.
- 1.2 Secara amnya nilai ikan juga telah bertambah iaitu mencapai \$1,960 juta (nilai borong) dan ini menyumbangkan lebih kurang 2.6% kepada Keluaran Dalam Negeri Kasar (KDNK).
- 1.3 Pendaratan bot-bot laut dalam telah bertambah dalam tiga tahun yang lalu iaitu daripada 58,313 tan pada tahun 1988 kepada 92,927 tan pada tahun 1990.

2. GUNATENAGA

- 2.1 Pada tahun 1990 sebanyak 88,494 orang nelayan terlibat dalam sektor perikanan berbanding dengan 93,545 pada 1989 iaitu berkurangan sebanyak 5.7%. Kemerosotan ini berlaku di Semenanjung Malaysia dan Sabah masing-masing sebanyak 4.4% dan 11.9%, manakala bilangan tidak berubah untuk Sarawak. Kemelesetan untuk Semenanjung Malaysia berlaku terutamanya bagi pukot jerut ikan (9.1%), pukot jerut bilis (11.5%), pukot hanyut (5.4%), pukot tangguk (11.2%), bubu (9.8%), pukot bakul (10.5%), pukot surung (20.45%), pukot rentang (6.33%) dan memungut siput (20.07%). Kenaikan bilangan nelayan

adalah hanya untuk perkakas rampaian (33.55%), dan selain daripada itu, bilangan nelayan tidak berubah dengan banyak untuk perkakas-perkakas yang lain (pukat tunda, + 1.6%; pancing, + 2.6% dan pengangkut ikan, + 5.4%). Jadual 1 menunjukkan bilangan nelayan mengikut kawasan.

Jadual 1: Bilangan Nelayan di Malaysia (1989 - 1990)

Kawasan	1989	1990	% Perubahan
Semenanjung Malaysia	62,580	59,801	-4.44%
Sarawak	12,358	12,197	-1.30%
Sabah	18,250	16,082	-11.88%
Labuan	357	414	15.97%
Jumlah	93,545	88,494	-5.40%

- 2.2 Di Sabah pula, kemerosotan bilangan nelayan adalah untuk mereka yang bekerja di atas bot tunda (27.7%), pukat jerut ikan (38.1%), pukat tangguk (30.9%), belat (23.1%) dan pukat hanyut (10.1%). Bilangan nelayan bagaimanapun bertambah sebanyak 114.6% untuk bubu dan 215.9% bagi pancing. Perubahan di Sarawak berlaku untuk pukat tunda (turun 8.2%), pukat bakul (turun 33.9%), pukat surung (turun 43.21%); pukat jerut ikan (naik 17%); pukat tangguk (naik 90.9%); belat (naik 189.9%); bubu (naik 64.18%); pancing (naik 122.7%); sementara yang bakinya tidak berubah dengan nyata.

3. BOT-BOT MENANGKAP IKAN

- 3.1 Bilangan bot-bot yang dilesenkan di Malaysia menurun sedikit iaitu 1.1% daripada 39,970 unit kepada 39,541 unit. Bilangan ini berkurangan sebanyak 1.4% daripada 23,459 kepada 23,134 unit untuk Semenanjung Malaysia, 1.4% untuk Sarawak iaitu daripada 7,165 kepada 7,066 unit, 3.4% bagi Labuan, daripada 146 kepada berada pada 141 unit dan tidak berubah untuk Sabah (9,200 unit).
- 3.2 Bilangan bot-bot 70 GRT ke atas telah bertambah dari 565 unit kepada 586 unit dengan kadar 3.7% untuk keseluruhan Malaysia. Semenanjung Malaysia mempunyai 424 unit, Sarawak 116, Sabah 44, dan Labuan 2 unit. Jadual 2 menunjuk bahawa bilangan bot-bot laut dalam (70 GRT dan ke atas) semakin bertambah berbanding dengan bot-bot yang lain.

Jadual 2: Bilangan Bot Berlesen (Kebawah 70 GRT) dan (70 GRT keatas) di Sem. Malaysia

Tahun	Kebawah 70 GRT	70 GRT keatas
1984	25,589	84
1985	23,236	135
1986	22,321	155
1987	21,880	258
1988	21,025	316
1989	23,048	411
1990	22,710	424

- 3.3 Bilangan bot pukat tunda yang dilesenkan (7,011 unit) turun sebanyak 1.8%, pukat jerut ikan (775 unit) sebanyak 5.6%, pukat jerut bilis (159 unit) sebanyak 8.6%, pukat surung (83 unit) sebanyak 10.8% dan rampaian (1,479 unit) sebanyak 6.6%. Sebaliknya bilangan lesen yang dikeluarkan untuk belat dan bubu masing-masing naik sebanyak 45.2% dan 13.5%. (485 unit dan 707 unit). Bilangan lesen untuk perkakas- perkakas lain cuma berubah dalam lingkungan 1%.

4. PERKAKAS MENANGKAP IKAN

- 4.1 Bilangan lesen perkakas yang dikeluarkan di Malaysia pada 1990 berjumlah 34,457 unit berbanding dengan 34,257 unit dalam tahun 1989 iaitu bertambah 0.6%. Pengurangan berlaku untuk Semenanjung Malaysia sebanyak 1.4% (daripada 23,459 kepada 23,134 unit); Sarawak sebanyak 1.9% (daripada 7,955 kepada 7,803) dan Labuan sebanyak 9.6% (156 kepada 141 unit). Sebaliknya, bilangan bertambah sebanyak 25.8% daripada 2,687 unit pada 1989 kepada 3,379 unit untuk Sabah. Jadual 3 menunjukkan bilangan lesen perkakas mengikut jenis.

Jadual 3: Bilangan Perkakas Menangkap Ikan yang di lesenkan di Malaysia.

Jenis Perkakas	1989	1990	% Perubahan
Pukat Tunda	6,384	6,257	-1.99%
Pukat Jerut Ikan	752	719	-4.39%
Pukat Jerut Bilis	174	159	-8.62%
Lain Tarik	1,025	981	-4.29%
Pukat hanyut	18,883	19,158	1.46%
Pukat Tangguk	367	509	38.69%
Belat	235	367	56.17%
Bubu	712	762	7.02%
Pancing	2,912	2,828	-2.88%
Pukat Bakul	1,398	1,244	-11.02%
Pukat Rentang	447	483	8.05%
Pukat Surung	152	130	-14.47%
Memunggut	215	196	-8.84%
Rampaian	601	664	10.48%
Jumlah	34,257	34,457	0.58%

5. PENDARATAN IKAN LAUT

- 5.1 Jumlah pendaratan ikan laut bertambah sebanyak 7.8% daripada 882,492 tan pada tahun 1989 kepada 951,307 tan pada tahun 1990. Semenanjung Malaysia mencatatkan pertumbuhan sebanyak 9.8%, Labuan 7.1% dan Sabah 1.7%, manakala ianya menurun sebanyak 6.5% untuk Sarawak. Mengikut kawasan di Semenanjung Malaysia, pendaratan di Pantai Timur bertambah sebanyak 20.1%, sementara Pahang mencatatkan pendaratan tertinggi sebanyak 53.3% diikuti oleh Terengganu 23.4%. Pendaratan turun sedikit untuk Kelantan dan Johor Timur iaitu masing-masing 4.3% dan 2.3%. Pendaratan di Pantai Barat Semenanjung Malaysia naik sebanyak 4.3%; dimana Negeri Sembilan meningkat 57.9%, Pulau Pinang 35.4%, Melaka 18.8%, Kedah 14.3%, Perak 10.1%, dan Perlis 9.1%. Bagaimanapun, pendaratan di Selangor dan Johor Barat masing-masing merosot sebanyak 57.9% dan 10.8%. Jadual 4 menunjukkan pendaratan ikan marin mengikut negeri.

Jadual 4: Pendaratan Ikan Marin (tan metrik) - Malaysia 1989 - 1990

Negeri	1989	1990	% Perubahan
Perlis	42,360	46,206	9.1%
Kedah	75,615	86,408	14.3%
P.Pinang	38,624	52,278	35.4%
Perak	198,974	219,044	10.1%
Selangor	112,646	86,966	-22.8%
N.Sembilan	221	349	57.9%
Melaka	1,989	2,363	18.8%
Johor Barat	18,905	16,857	-10.8%
Jum Pantai Barat	489,334	510,471	4.3%
Kelantan	32,982	31,557	-4.3%
Terengganu	78,815	97,236	23.4%
Pahang	68,730	105,370	53.3%
Johor Timur	77,023	75,269	-2.3%
Jum Pantai Timur	257,550	309,432	20.1%
Jum Sem. Malaysia	746,884	819,903	9.8%
Sabah	44,000	44,760	1.7%
Sarawak	84,356	78,878	-6.5%
Labuan	7,252	7,766	7.1%
Jumlah Besar	882,492	951,307	7.8%

5.2 Di Semenanjung Malaysia, pendaratan pukat tunda bertambah dari 436,287 kepada 516,725 tan dengan kadar 18.4%, pukat jerut ikan dari 110,612 ke 124,308 tan (12.4%); dan pukat hanyut dari 50,523 ke 62,215 tan (23.1%). Sebaliknya pendaratan bagi bot pukat tangguk, pancing, bakul dan rampaian meleset masing-masing dari 11,587 ke 6,380 tan (44.9%); 22,145 ke 16,818 tan (24.1%); 32,072 ke 25,783 tan (19.6%) dan dari 23,687 ke 2,538 tan (89.3%). Jadual 5 menunjukkan pendaratan mengikut jenis perkakas.

Jadual 5: Pendaratan Ikan Marin mengikut Kumpulan Perkakas di Sem. Malaysia (tan metrik)

Kumpulan Perkakas	1989	1990	% Perubahan
Pukat Tunda	436,287	516,725	18.4%
Pukat Jerut Ikan	110,612	124,308	12.4%
Pukat Jerut Bilis	30,023	30,745	2.4%
Pukat Tarik Lain	19,160	18,138	-5.3%
Pukat Hanyut	50,523	62,215	23.1%
Pukat Tangguk	11,587	6,380	-44.9%
Bubu	891	871	-2.2%
Perangkap	6,202	6,557	5.7%
Pancing	22,145	16,818	-24.1%
Pukat Bakul	32,072	25,783	-19.6%
Pukat Rentang	889	1,380	55.2%
Pukat Surung	2,024	3,125	54.4%
Memunggut	782	4,320	452.4%
Rampaian	23,687	2,538	-89.3%
Jumlah	746,884	819,903	9.8%

- 5.3 Pendaratan bot pukat tunda laut dalam bertambah dua kali ganda sebanyak 107.4% daripada 33,357 tan ke 69,196 tan pada 1990. Pendaratan untuk bot-bot pukat tunda yang kecil juga bertambah dari 402,930 kepada 447,529 tan. Sementara pendaratan bagi pukat jerut laut dalam, hanya naik sebanyak 19.3% dari 19,891 tan kepada 23,731 tan.
- 5.4 Pendaratan ikan laut dibahagikan kepada 6 kategori utama, iaitu ikan gred I, gred II, gred III, udang, ikan baja dan siput. Ikan gred I, termasuk Bawal Tambak, Bawal Putih, Bawal Hitam, Kurau/Senangin/Senohong, Tenggiri, Kerapu, Remong/Kunyit-Kunyit/Tanda. Ikan gred II termasuk Terubok, Merah, Kaci, Cermin/Sagai/Cupak, Demudok/Rambai dan Siakap. Ikan Gred III termasuk Bilis, Sotong Biasa/Cumit- Cumit/Sotong Katak, Ketam, Ubur-Ubur dan lain-lain. Bagi tahun 1990, pendaratan ikan gred I naik sebanyak 10.3% (daripada 31,531 tan kepada 34,774 tan), ikan gred II naik 2.1% (daripada 16,652 kepada 16,998 tan), sementara ikan gred III bertambah sebanyak 8.0% (daripada 446,254 kepada 482,122 tan). Pendaratan udang merosot sebanyak 6.4% iaitu dari 112,510 tan kepada 105,326 tan. Ikan baja bertambah sebanyak 12.5% daripada 273,272 tan kepada 307,387 tan.
- 5.5 Untuk keseluruhan Malaysia, purata harga borong untuk ikan gred I merosot daripada \$5,710 setiap tan kepada \$5,453/tan, iaitu sebanyak 4.5%. Sebaliknya harga untuk ikan-ikan gred II dan udang naik masing-masing sebanyak 4.5% (daripada \$3,840 kepada \$4,013/tan) dan 21.5% (\$4,663 kepada \$5,666/tan). Purata harga borong untuk ikan gred III dan ikan baja tidak berubah iaitu masing-masing pada \$1,844/tan dan \$262/tan.
- 5.6 Purata harga runcit untuk semua kategori adalah lebih tinggi untuk 1990 berbanding dengan 1989. Harga ikan gred I bertambah sebanyak 10.8% daripada \$7,081 kepada \$7,844/tan sementara harga untuk gred II naik kepada

\$5,404 daripada \$5,134/tan iaitu penambahan sebanyak 5.3%. Harga untuk ikan gred III juga bertambah sebanyak 10.3% daripada \$2,421 kepada \$2,671/tan. Walaupun pendaratan untuk udang menurun, permintaan yang baik kemungkinan menyebabkan purata harga runcitnya naik sebanyak 35.9% daripada \$5,859 pada 1989 kepada \$7,962/tan pada 1990. Walaupun pendaratan bertambah untuk ikan baja dan siput, harga purata runcitnya masih bertambah sebanyak masing-masing 25.9% (\$259 kepada \$326/tan) dan 11.2% (\$1,914 kepada \$2,128/tan).

- 5.7 Jumlah nilai borong untuk pendaratan laut bertambah sebanyak 17.7% daripada \$1.666 billion kepada 1.961 billion. Pertumbuhan ini adalah disebabkan oleh pendaratan yang lebih pada tahun 1990 dan juga harga-harga yang lebih tinggi. Bagi ikan gred I, walaupun harganya lebih rendah, jumlah nilai bertambah sebanyak 20.3% daripada \$180.04 juta kepada \$216.63 juta akibat jumlah tangkapan yang lebih tinggi pada 1990. Nilai borong untuk ikan gred II juga bertambah sebanyak 6.7% (\$63.9 juta kepada \$68.2 juta) kerana kenaikan dalam tangkapan serta harga yang lebih tinggi pada 1990. Walaupun harga tidak berubah dengan nyata untuk ikan gred III, nilai borongnya bertambah sebanyak 9.4% (\$882.9 juta kepada \$900 juta) disebabkan pendaratan yang lebih tinggi. Nilai borong untuk udang naik sebanyak 31.5% daripada \$524.6 juta kepada \$690 juta pada 1990 disebabkan oleh harga yang lebih tinggi. Pada masa yang sama nilai ikan baja juga bertambah sebanyak 14.2% (\$70.9 juta kepada \$81 juta) akibat pendaratan yang lebih pada 1990. Jadual 6 menunjukkan perubahan-perubahan pada nilai borong dan nilai runcit untuk pendaratan dalam tahun 1989 dan 1990 di Malaysia.

**Jadual 6: Nilai Borong & Runcit Pendaratan Marin untuk Malaysia
1989 dan 1990**

	Borong (\$/% Perubahan)			Runcit (\$/% perubahan)		
	1989	1990	% Perubahan	1989	1990	% Perubahan
Ikan Gred 1	180,035,124	216,625,094	20.3%	223,268,433	272,757,779	22.2%
Ikan Gred 2	63,945,206	68,198,286	6.7%	85,486,191	91,856,920	7.5%
Ikan Gred 3	822,874,146	900,034,996	9.4%	1,080,289,680	1,287,952,484	19.2%
Udang	524,580,337	690,013,947	31.5%	659,196,215	838,573,699	27.2%
Ikan Baja	70,939,774	80,981,008	14.2%	70,909,774	100,326,916	41.5%
Kerang	3,446,521	4,723,943	37.1%	4,349,435	9,999,736	129.9%
Jumlah	\$1,665,821,108	\$1,960,577,274	17.7%	\$2,123,499,728	\$2,601,467,534	22.5%

6. TERNAKAIR

- 6.1 Ternakair meliputi 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. Pada amnya industri ternakair di Malaysia di pecahkan kepada ternakan airtawar dan airpayau. Ternakan airtawar meliputi kolam airtawar, sangkar airtawar dan bekas lombong. Sementara itu, ternakan airpayau termasuk kolam airpayau, sangkar airpayau, kerang dan siput sudu.
- 6.2 Jumlah pengeluaran daripada ternakair pada 1990 ialah 52,303 tan, merosot sebanyak 1.5% daripada 53,119 tan pada tahun 1989. Pengeluaran untuk Semenanjung Malaysia turun sebanyak 8.3% daripada 46,307 tan kepada

42,444 tan. Bagaimanapun pertumbuhan sebanyak masing-masing 3.1% (212 tan kepada 219 tan) dan 46% (6,600 tan kepada 9,640 tan) dicatat untuk Sarawak dan Sabah. Adalah penting disebutkan disini bahawa kemerosotan di Semenanjung Malaysia disebabkan penurunan yang ketara dalam pengeluaran kerang. Pengeluaran yang lain semuanya bertambah jika dibanding dengan pengeluaran tahun lepas.

- 6.3 Selain daripada kemelesetan pengeluaran kerang, industri ternakair berkembang dengan pesat. Untuk Semenanjung Malaysia, bilangan kolam airtawar bertambah 20.0% dari 13,668 kepada 16,408, bilangan sangkar airtawar bertambah sebanyak 74.0% dari 984 kepada 1,649 manakala bilangan kolam bekas lombong tidak berubah. Bilangan kolam airpayau juga bertambah iaitu sebanyak 24.2% dari 1,298 unit ke 1,612 manakala bilangan sangkar airpayau pula naik sebanyak 21.9% dari 22,865 ke 27,874 unit. Jumlah kawasan untuk industri ternakair bertambah dengan nyata. Pertumbuhan yang tinggi adalah untuk sangkar airtawar sebanyak 55.4% dari 13,347 ke 21,413 meter persegi. Luas kawasan untuk kolam airtawar juga bertambah sebanyak 30.5% dari 2,309 kepada 3,015 ha. Luas kawasan untuk kolam bekas lombong cuma bertambah sebanyak 1.7% dari 630 ke 641 ha. Luas kawasan untuk ternakan airpayau naik sebanyak 7% (1,047 kepada 1,119 ha) untuk kolam dan 20.5% (207,678 ke 250,349 meter persegi) untuk sangkar. Kecuali untuk bekas lombong, bilangan penternak yang menceburi dalam industri ternakair bertambah. Jumlah penternak ialah 18,044 orang meningkat 15%. Bilangan penternak naik sebanyak 20.1% (9,064 ke 10,887) untuk kolam airtawar; 3.4% (496 ke 522) untuk sangkar airtawar; 51.6% (306 ke 464) untuk kolam airpayau dan 34.1% (575 ke 771) untuk sangkar airpayau. Bilangan penternak yang terlibat dengan ternakan kolam bekas lombong menurun sebanyak 4.6% dari 327 ke 312.

64 Dari segi pengeluaran, didapati bahawa industri ternakair telah berkembang dengan memuaskan. Pengeluaran kolam airtawar untuk Semenanjung Malaysia bertambah sebanyak 16.9% dari 2,479 ke 2,899. Walaupun bilangan dan luas kawasan kolam bekas lombong tidak berubah dengan nyata, pengeluarannya bertambah sebanyak 27.9% dari 707 ke 905 tan. Pengeluaran sangkar airtawar berlipat ganda empat kali (263.4%) dari cuma 141 tan pada 1989 ke 516 tan dalam tahun 1990. Begitu juga pengeluaran airpayau yang bertambah sebanyak 58.3% dari 1,386 ke 2,195 tan untuk kolam dan 8.4% dari 1,895 ke 2,054 tan. Pengeluaran kupang cuma naik sebanyak 2.0% dari 1,551 ke 1,582 tan. Walau bagaimanapun pengeluaran kerang merosot sebanyak 15.3% tan dari 38,146 tan ke 32,292 tan. Memandangkan pengeluaran kerang merupakan bahagian besar pengeluaran ternakair kemerosotannya telah mempengaruhi jumlah pengeluaran ternakair. Jadual 7 dan Jadual 8 menghuraikan pengeluaran/kawasan yang terlibat dalam sektor ini.

Jadual 7: Pengeluaran Akuakultur di Sem. Malaysia Mengikut Jenis Ternakan.
(tan metrik) - 1989 dan 1990

Tahun	Airtawar			Airpayau				Jumlah
	Kolam	B.lombong	Sangkar	Kolam	Sangkar	Kerang	Kupang	
1989	2,479.40	707.57	141.32	1,386.39	1,895.08	38,146.12	1,550.76	46,306.64
1990	2,899.59	904.69	516.25	2,194.84	2,054.52	32,291.99	1,582.03	42,443.91
% Perubahan	16.9%	27.9%	265.3%	58.3%	8.4%	-15.3%	2.0%	-8.3%

Jadual 8: Kawasan untuk Pelbagai Sistem Akuakultur di Malaysia (1990)

Sistem Akuakultur	Sem. M'sia	Sarawak	Sabah	Jumlah
Airtawar				
Kolam (ha)	3,014.74	210.78	1,023.00	4,248.52
Sangkar (m. persegi)	21,412.86	0.00	0.00	21,412.86
Bekas Lombong (ha)	640.82	0.00	0.00	640.82
Airpayau				
Kolam (ha)	1,119.63	0.00	432.31	1,551.94
Sangkar (m. persegi)	243,011.26	0.00	0.00	243,011.26
Kerang (ha)	5,541.57	0.00	0.00	5,541.57
Kupang (m.persegi)	55,454.77	0.00	0.00	55,454.77

7. Ikan Hiasan

Pengeluaran ikan hiasan cuma berkembang di beberapa negeri sahaja iaitu P.Pinang, Perak, Selangor, Johor dan mulai tahun ini di Melaka. Jumlah pengeluaran pada keseluruhannya menurun dari 71 juta ekor kepada 70 juta ekor iaitu meleset sebanyak 1.3%. Pengeluaran di P.Pinang berkembang dengan pesat dari cuma 272,682 ekor kepada 3.6 juta berlipat ganda sebanyak 13 kali. Pengeluaran di Johor juga meningkat sebanyak 112% dari cuma 31 juta ke 65 juta ekor. Negeri Melaka baru muncul dalam industri ini dan untuk tahun 1990 mencatatkan pengeluaran sebanyak 20,300 ekor. Pengeluaran di Selangor dan Perak meleset masing-masing sebanyak 45.8 (1.6 juta kepada 866,736 ekor) dan 97.84% (38,569,860 ke 831,190 ekor). Nilai pengeluaran ikan hiasan merosot sebanyak 44.7% dari \$16 juta kepada \$9 juta, mungkin kerana penternak lebih berhati-hati dalam memberi maklumat berkenaan.

THE STATUS OF FISHERIES SECTOR IN MALAYSIA 1990

1. Introduction

- 1.1 The fisheries sector of Malaysia has seen significant changes during the last couple of years. The marine fish production target has reached the highest level at 951,307 tonnes. It has been the objective of the government that the landings of local boats should be increased to meet the local demand .
- 1.2 There was also a corresponding increase in the value of fish, both in terms of wholesale and retail prices. The value of marine landings was some \$1,960 million (wholesale price). It contributed about 2.6% to the GDP.
- 1.3 The landings of the deep sea vessels have also registered an increase over the last three years, from 58,313 tonnes in 1988 to 92,927 tonnes in 1990, contributing about 9.8% of the total marine landings. At the same time the overall number of licensed deep sea fishing boats increased from 460 units in 1988 to 586 units in 1990.

2. Employment

- 2.1 There were a total of 88,494 persons engaged in the marine fisheries sector against 93,545 in 1989 thus decreasing by 5.7%. The decline in the number of fishermen occurred in Peninsular Malaysia and Sabah by 4.4% and 11.9% respectively, whereas the number more or less remained the same for Sarawak. Reduction in Peninsular Malaysia were mainly for fish purse seiners (9.1%), anchovy purse seiners (11.5%), gill- netters (5.4%) lift netters (11.2%), portable traps (9.8%), bag netters (10.5%), push netters (20.45%), barrier netters (6.33%)

and shellfish collection (20.07%). The only significant increase in fishermen occurred for miscellaneous gears (33.55%) and apart from that, the rest changed only marginally (Trawlers, +1.6%; hooks and lines +2.65% and fish carriers, +5.4%). Table 1 shows the number of fishermen by areas.

Table 1: Number of Fishermen in Malaysia (1989 - 1990)

Area	1989	1990	% Change
Peninsular Malaysia	62,580	59,801	-4.44%
Sarawak	12,358	12,197	-1.30%
Sabah	18,250	16,082	-11.88%
Labuan	357	414	15.97%
Total	93,545	88,494	-5.40%

- 2.2 In Sabah, there was a sharp drop in the number of fishermen working on trawlers (27.7%), fish purse seiners (38.1%), lift nets (30.9%), stationary traps (23.1%) and gill nets (10.1%). On the other hand the number of fishermen increased by 114.6% for portable traps and 25.9% for hook and lines. The changes in Sarawak occurred for trawlers (down 8.2%), bag nets (down 33.9%), push net (down 43.21%); fish purse seiners (up 17%); lift net (up 90.91%); stationary traps (up 189.9%); portable traps (up 64.18%); hooks and lines (up 122.7%); with the rest remaining more or less the same.

3. Fishing Boats

- 3.1 The number of fishing boats licensed dropped slightly by 1.1% from 39,970 units in 1989 to 39,541 units. The units decreased by 1.4% from 23,459 to 23,134 units for Peninsular Malaysia, 1.4% for Sarawak, from 7,165 to 7066 units, 3.4% for Labuan from 146 to 141 units and remained the same for Sabah at 9,200 units.

- 3.2 In view of the development in the deep-sea fishing sub- sector, it is important to note that boats above 70 GRT actually increased from 565 units to 586 units by 3.7% for the whole of Malaysia. In Peninsular Malaysia there were 424 units, Sarawak 116, Sabah 44, and in Labuan 2 units. Table 2 shows that the number of deep-sea boats (70 GRT and above) actually increased whereas the number of other fishing units more or less stabilized.

Table 2: Number of boats licensed (above 70 GRT) and (below 70 GRT) in Pen. Malaysia.

Year	BELOW 70 GRT	70 GRT AND ABOVE
1984	25,589	84
1985	23,236	135
1986	22,321	155
1987	21,880	258
1988	21,025	316
1989	23,048	411
1990	22,710	424

- 3.3 According to gear types, the number of licences issued for trawlers was 7,011 units, decreasing by 1.8%, purse seiners 775 units by 5.6%, anchovy purse seiners 159 units by 8.6%, scoop nets 83 units by 10.8%, and miscellaneous 1,479 units by 6.6%. On the other hand, the number of licences issued for stationary traps and portable traps increased by 45.2% and 13.5% i.e 485 units and 707 units respectively. For the rest of the gears, licences issued more or less remained the same fluctuating by less than 1%.

4. Fishing Gears

- 4.1 The total number of fishing gears licensed in Malaysia for 1990 was 34,457 units as against 34,257 units in 1989, increasing by 0.6%. However the numbers reduced for Peninsular Malaysia by 1.4% (from 23,459 to 23,134 units); Sarawak by 1.9% (from 7,955 to 7,803) and Labuan by 9.6% (156 to 141 units). Sabah on the other hand registered an increase by 25.8% from 2,687 units in 1989 to 3,379 units in 1990. Table 3 shows the licences issued according to gear groups.

Table 3: Number of Fishing Gears licensed in Malaysia.

Gears	1989	1990	% Change
Trawlers	6,384	6,257	-1.99%
Fish Purse Seines	752	719	-4.39%
Anchovy Purse Seines	174	159	-8.62%
Other seines	1,025	981	-4.29%
Gill/Drift Nets	18,883	19,158	1.46%
Lift Nets	367	509	38.69%
Stationary Traps	235	367	56.17%
Portable Traps	712	762	7.02%
Hooks & Lines	2,912	2,828	-2.88%
Bag Nets	1,398	1,244	-11.02%
Barrier Nets	447	483	8.05%
Scoop Nets	152	130	-14.47%
Shellfish	215	196	-8.84%
Miscellaneous	601	664	10.48%
Total	34,257	34,457	0.58%

5. Marine Landings

- 5.1 The total marine landings grew by 7.8% from 882,492 tonnes in 1989 to 951,307 tonnes in 1990. Peninsular Malaysia recorded a growth of 9.8%, Labuan 7.1% and Sabah 1.7%, however the landings dropped by 6.5% for Sarawak. By areas in Peninsular Malaysia, landings in the east coast increased by 20.1%; Pahang

registered the highest growth of 53.3%, followed by Terengganu 23.4%. Landings declined slightly for Kelantan and East Johore i.e by 4.3% and 2.3% respectively. Landings in the west coast of Peninsular Malaysia increased marginally by 4.3% with Negeri Sembilan improving by 57.9%, Penang 35.4%, Malacca 18.8%, Kedah 14.3%, Perak 10.1% and Perlis by 9.1%. However landings in Selangor and West Johore deteriorated by as much as 57.9% and 10.8% respectively. Table 4 shows the landings of marine fish by states.

Table 4: Landings of Marine Captured Fisheries (in M.tonnes)
Malaysia, 1989 and 1990

STATES	1989	1990	% Change
Perlis	42,360	46,206	9.1%
Kedah	75,615	86,408	14.3%
Penang	38,624	52,278	35.4%
Perak	198,974	219,044	10.1%
Selangor	112,646	86,966	-22.8%
N.Sembilan	221	349	57.9%
Melaka	1,989	2,363	18.8%
W.Johore	18,905	16,857	-10.8%
Total W.Coast	489,334	510,471	4.3%
Kelantan	32,982	31,557	-4.3%
Terengganu	78,815	97,236	23.4%
Pahang	68,730	105,370	53.3%
E. Johore	77,023	75,269	-2.3%
Total E. Coast	257,550	309,432	20.1%
Total Pen. M'sia	746,884	819,903	9.8%
Sabah	44,000	44,760	1.7%
Sarawak	84,356	78,878	-6.5%
Labuan	7,252	7,766	7.1%
Grand Total	882,492	951,307	7.8%

5.2 In Peninsular Malaysia there were increases in the landings of trawlers from 436,287 tonnes to 516,725 tonnes by 18.4%, fish purse-seiners from 110,612 tonnes to 124,308 tonnes by 12.4% and gill-net from 50,523 tonnes to 62,215 tonnes by 23.1%. On the other hand, landings dropped significantly for lift nets from 11,587 tonnes to 6,380 tonnes by 44.9%, hook and lines from 22,145 tonnes to 16,818 tonnes by 24.1%, bag nets from 32,072 tonnes to 25,783 tonnes by 19.6% and miscellaneous from 23,687 tonnes to 2,538 tonnes by 89.3%. Table 5 shows the landings by gear groups in Peninsular Malaysia.

Table 5: Landings of Marine Catch by Gear Groups in Peninsular Malaysia.
(M.tonnes)

Gears	1989	1990	% Change
Trawlers	436,287	516,725	18.4%
Fish Purse Seines	110,612	124,308	12.4%
Anchovy Seine	30,023	30,745	2.4%
Other Seines	19,160	18,138	-5.3%
Drift/Gill Nets	50,523	62,215	23.1%
Lift Nets	11,587	6,380	-44.9%
Stationary Traps	891	871	-2.2%
Portable Traps	6,202	6,557	5.7%
Hooks & Lines	22,145	16,818	-24.1%
Bag Nets	32,072	25,783	-19.6%
Barrier Nets	889	1,380	55.2%
Push/Scoop Nets	2,024	3,125	54.4%
Shellfish Collections	782	4,320	452.4%
Miscellaneous Gears	23,687	2,538	-89.3%
Total	746,884	819,903	9.8%

- 5.3 The landings of deep-sea trawlers shot up by 107.4% from 33,357 tonnes in 1989 to 69,196 tonnes in 1990. Landing of smaller trawlers also increased from 402,930 to 447,529 tonnes. On the other hand, landings of deep-sea purse seiners rose only by 19.3% from 19,891 tonnes to 23,731 tonnes.
- 5.4 The landings are grouped into six main categories, namely grade I fishes, grade II fishes, grade III fishes, prawns, trash fish, and shellfishes. Grade I fishes, include Chinese Pomfret, Silver Pomfret, Black Pomfret, Thread fins, Spanish mackerel, Groupers and Snappers. Grade II fishes include Longtail Shads, other Shads, Red Snappers, Sweetlip, Horse Mackerel and Sea Perch. Grade III fishes include Anchovies, Squids/cuttlefish, Crabs, Jelly fishes and others. For 1990, the landings of grade I fishes increased by 10.3% (from 31,531 tonnes to 34,774 tonnes), grade II fishes increased by 2.1% (from 16,652 tonnes to 16,998 tonnes), whereas grade III fishes increased by 8.0% (from 446,254 tonnes to 482,122 tonnes). Landings of prawns dropped by 6.4% from 112,510 tonnes to 105,326 tonnes. Trash fish/manure fish which includes commercially low-value fish and juveniles of commercial fish increased by 12.5% from 273,272 tonnes to 307,387 tonnes.
- 5.5 For the whole of Malaysia, the average wholesale prices of grade I fishes decreased from \$5,710 to \$5,453 per tonne (by 4.5 %). On the other hand the prices for grade II fishes and prawns increased by 4.5% (from \$3,840 to \$4,013/tonne) and 21.5% (\$4,663 to \$5,666/tonne) respectively. Average wholesale prices for grade III fishes and trash fish were stable at about \$1,844/tonne and \$262/tonne respectively.
- 5.6 The average retail prices for all categories were higher for 1990 as compared to 1989. Prices for grade I fishes increased by 10.8% from \$7,081 to \$7,844/tonne whereas prices for grade II moved higher to \$5,404/tonne from \$5,134/tonne

increasing by 5.3%. Prices for grade III fishes also improved by 10.3% from \$2,421/tonne to \$2,671/tonne. Probably due to lower landings of prawns and good demand its average retail price also went up by 35.9% from \$5,859/tonne in 1989 to \$7,962/tonne in 1990. In spite of the significant increase in landings of trash fish and shellfish, its average retail price still improved by 25.9% from \$259 to \$326/tonne and 11.2% from \$1,914 to \$2,128/tonne respectively.

- 5.7 The total wholesale value of the marine landings grew by 17.1% from \$1.666 billion in 1989 to \$1.961 billion. The growth was due to higher volume traded and also due to higher prices. For grade I fishes, in spite of its lower price, the total value increased by 20.3% from \$180.04 million to \$216.63 million as the result of the higher total catch in 1990. Wholesale value of grade II fishes also increased by 6.7% from \$63.9 million to \$68.2 million affected by the slight increased in catch and the better prices in 1990. Even though the prices remained about the same for the grade III fishes, the wholesale value improved by 9.4% from \$882.9 million to \$900 million also due to increased landings (8.0%). Wholesale value of prawns (about 41% of the total) shot up by 31.5% from \$524.6 million to \$690 million in 1990 mainly due to higher price.. The wholesale value of trash fish also increased by 14.2% from \$70.9 million to \$81.0 million mainly due to the higher catch in 1990. Table 6 shows the changes in wholesale and retail values of landings in 1989 and 1990 for Malaysia.

**Table 6: Wholesale/Retail Value of Marine Landings for Malaysia
1989 and 1990**

	Wholesale			Retail		
	1989	1990	(\$ % Change)	1989	1990	(\$ % Change)
Grade 1 Fishes	180,035,124	216,625,094	20.3%	223,268,433	272,757,779	22.2%
Grade 2 Fishes	63,945,206	68,198,286	6.7%	85,486,191	91,856,920	7.5%
Grade 3 Fishes	822,874,146	900,034,996	9.4%	1,080,289,680	1,287,952,484	19.2%
Prawns	524,580,337	690,013,947	31.5%	659,196,215	838,573,699	27.2%
Trash Fish	70,939,774	80,981,008	14.2%	70,909,774	100,326,916	41.5%
Shellfish	3,446,521	4,723,943	37.1%	4,349,435	9,999,736	129.9%
Total	\$1,665,821,108	\$1,960,577,274	17.7%	\$2,123,499,728	\$2,601,467,534	22.5%

6. Aquaculture

- 6.1 Aquaculture covers all activities of pond/cages culture, fish/prawn culture, collection of cockles from natural on artificial beds, fishing of fish and prawns in public water bodies and ex-mining pools. Basically the aquaculture industry in Malaysia are categorized into freshwater and brackishwater culture. Freshwater culture consisted of freshwater ponds, freshwater cages and ex-mining pools cultures. On the other hand brackishwater culture includes, brackish water ponds, brackish water cages, cockle and mussels.
- 6.2 The total production from aquaculture in 1990 was at 52,303 tonnes dipping by 1.5% from 53,119 tonnes in 1989. Production of Peninsular Malaysia declined by 8.3% from 46,307 tonnes to 42,444 tonnes. However a growth of 3.1% (212 tonnes to 219 tonnes) and 46% (6,600 tonnes to 9,640 tonnes) were recorded for Sarawak and Sabah respectively. It is important to note here that the decline in Peninsular Malaysia was the result of a sharp drop in cockle production, otherwise other productions rose significantly.
- 6.3 Apart from cockle production there was an overall growth in the aquaculture industry. For Peninsular Malaysia, the number of freshwater ponds increased by 20.0% from 13,668 to 16,408 units, the number of freshwater cages went up by 74.0% from 948 to 1,649 units whereas the number of freshwater ex-mining ponds did not change significantly. The number of brackish ponds also went up 24.2% from 1,298 units to 1,612 units and the number of brackish water cages grew 21.9% from 22,865 to 27,874 units. The areas under aquaculture expanded significantly with fresh water cages increasing by 55.4% from 13,346 to 21,413 square meters. Areas cultivated for fresh water ponds went up by 30.5% from 2,309 to 3,015 ha, however areas involved in fresh water ex-mining pools edged up by only 0.2% from 630 to 641 ha. Brackish water culture also

improved remarkably with its pond culture increasing in areas by 7.0% (1,047 to 1,119 ha) and 20.5% for brackish water cages from 207,678 to 250,349 square meters. Except for fresh water ex-mining pool, the number of aquaculturists in 1990 increased in numbers. The total number of culturists was 18,044 increased by 15.1% from 15,680 in 1989. The numbers increased by 20.1% from 9,064 to 10,887 for fresh water ponds, 3.4% from 495 to 522 for fresh water cages; 51.6% from 306 to 464 for brackish water ponds and 34.1% from 575 to 771 for brackish water cages. The number of culturist for fresh water ex-mining pools dipped by 4.6% from 327 to 312.

- 6.4 Production of fresh water ponds for Peninsular Malaysia increased by 16.9% from 2,479 tonnes to 2,899 tonnes. Even though the number of ponds and culturists for ex-mining pool did not increased significantly, the production increased by 27.9% from 707.57 tonnes to 904.69 tonnes. Production of fresh water cages shot up 4 times by 263.4% from 141 tonnes to 516 tonnes. Satisfactory growth were also recorded for brackish water culture with brackish water ponds improving by 58.3% from 1,386 tonnes to 2,195 tonnes and brackish water cages by 8.4% from 1,895 tonnes to 2,054 tonnes. Production of mussels managed to edged up by only 2.0% from 1,551 to 1,582 tonnes. However the production of cockles reduced by 15.3% to 32,292 tonnes from 38,146 tonnes in 1989. In view that the production of cockles formed the main bulk of aquaculture production, this significant decrease affected the overall production of the aquaculture industry. Table 7 shows the aquaculture production and Table 8 shows the areas for the various aquaculture systems in Malaysia.

Table 7: Production of Aquaculture in Peninsular Malaysia by Culture
(in M.tonnes) - 1989 - 1990

Year	Freshwater			Brackish Water				Total
	Ponds	Ex-Pools	Cages	Ponds	Cages	Cockles	Mussels	
1989	2,479.40	707.57	141.32	1,386.39	1,895.08	38,146.12	1,550.76	46,306.64
1990	2,899.59	904.69	516.25	2,194.84	2,054.52	32,291.99	1,582.03	42,443.91
% Change	16.9%	27.9%	265.3%	58.3%	8.4%	-15.3%	2.0%	-8.3%

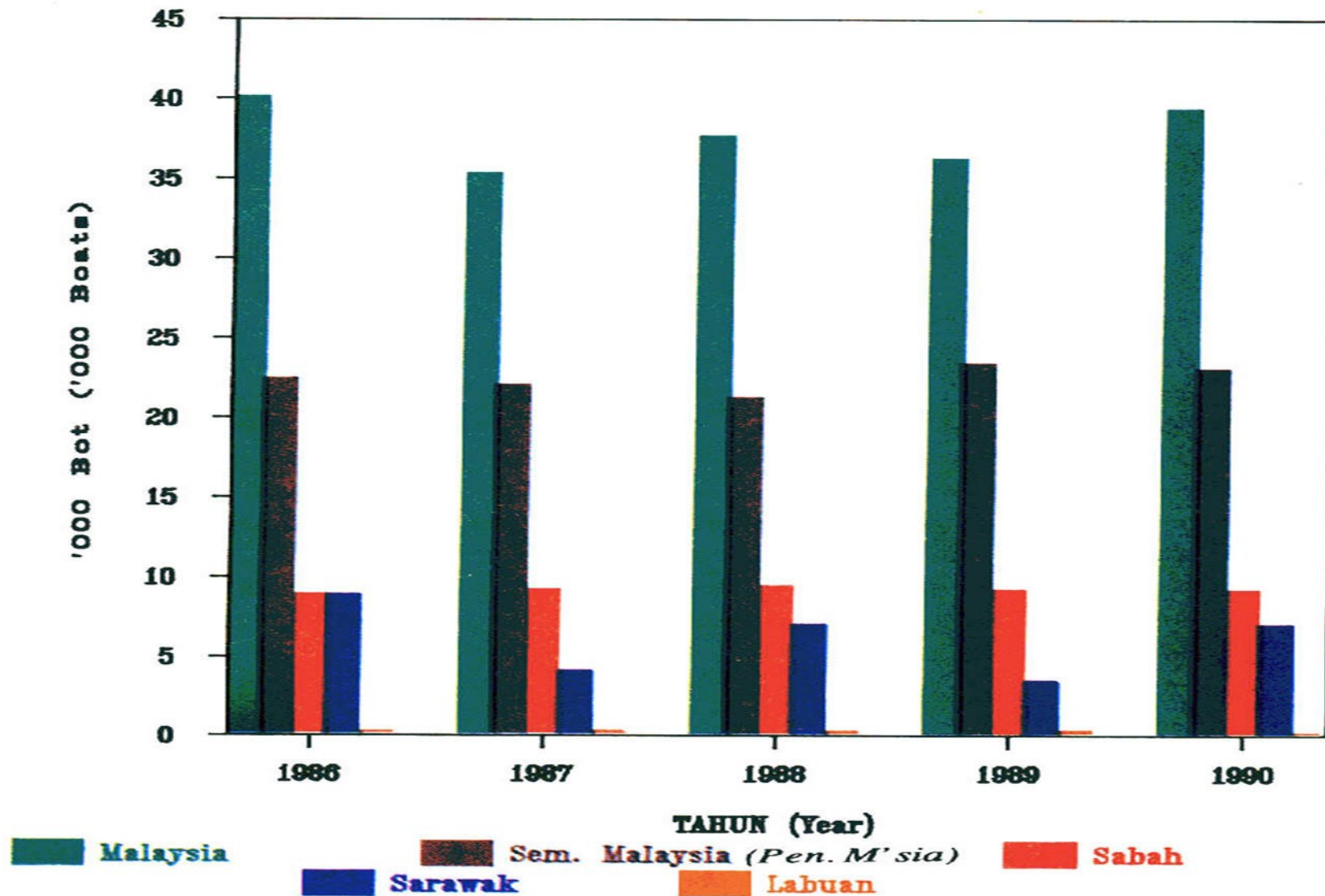
Table 8 : Areas for the various aquaculture in Malaysia - 1990

Aquaculture Systems	Pen. M'sia	Sarawak	Sabah	Total
Fresh Water				
Ponds (ha)	3,014.74	210.78	1,023.00	4,248.52
Cages (meter sq.)	21,412.86	0.00	0.00	21,412.86
Ex-Mining Pools (ha)	640.82	0.00	0.00	640.82
Brackish Water				
Ponds (ha)	1,119.63	0.00	432.31	1,551.94
Cages (meter sq.)	243,011.26	0.00	0.00	243,011.26
Cockles (ha)	5,541.57	0.00	0.00	5,541.57
Mussels (meter sq.)	55,454.77	0.00	0.00	55,454.77

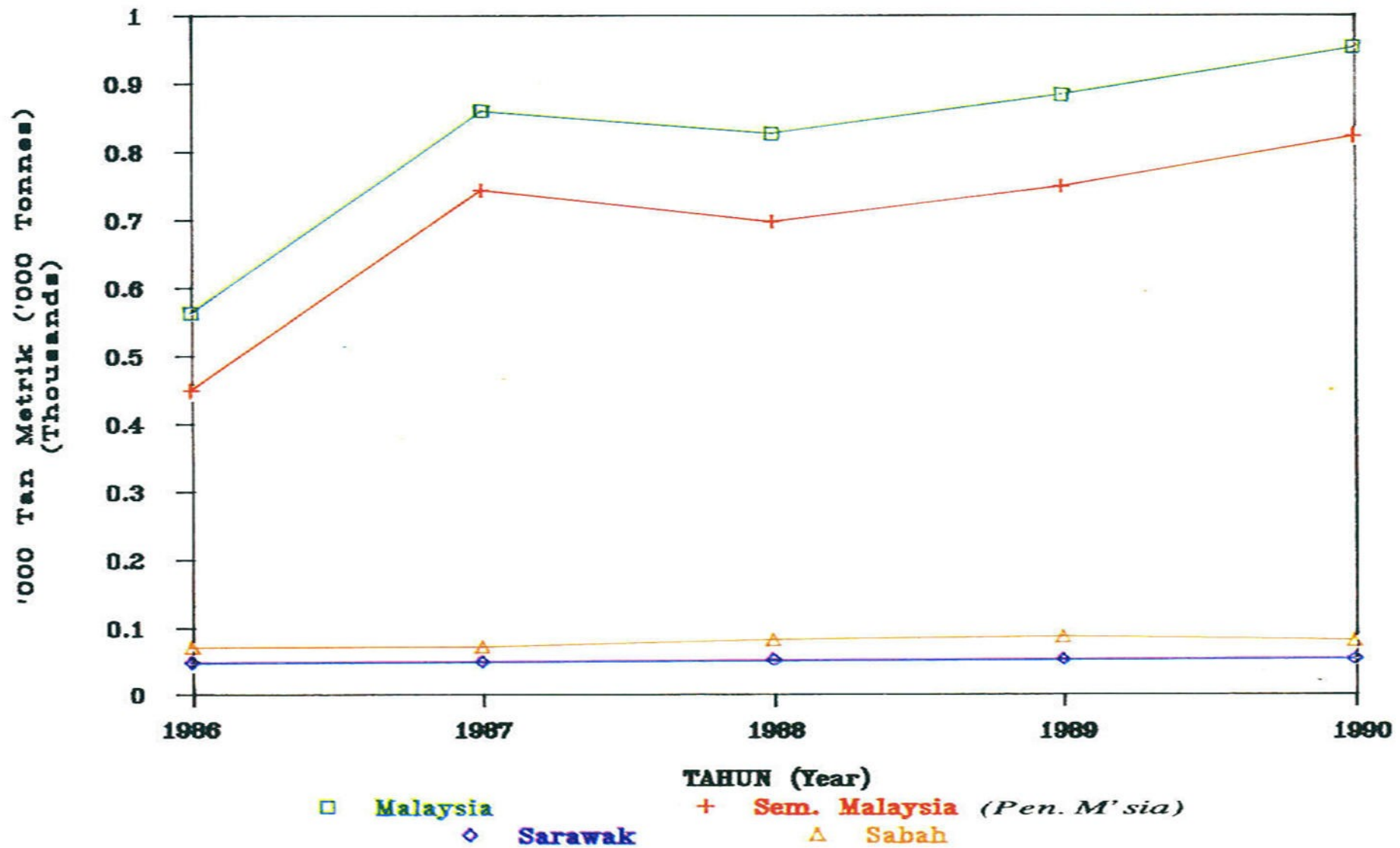
7. Ornamental Fish

Production of ornamental fish was still limited to a few states such as Penang, Perak, Selangor, Johor and starting this year Malacca.. The total production dropped from about 71 million to 70 million pieces declining by 1.3%. Production in Penang expanded from 272,682 to 3,594,316 pieces multiplying by 13 times. Production in Johor also increased by 112% from only 30,522,911 to 64,724,824 pieces. Malacca started to produce 20,300 pieces in 1990. Production in Selangor and Perak dipped by 45.7% from 1.6 million to 866,736 pieces and 97.8% from 38,569,860 to 831,190 pieces. The production value dropped by 44.7% from \$16.3 million to \$9.0 million most probably due to under declaration by the culturists.

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

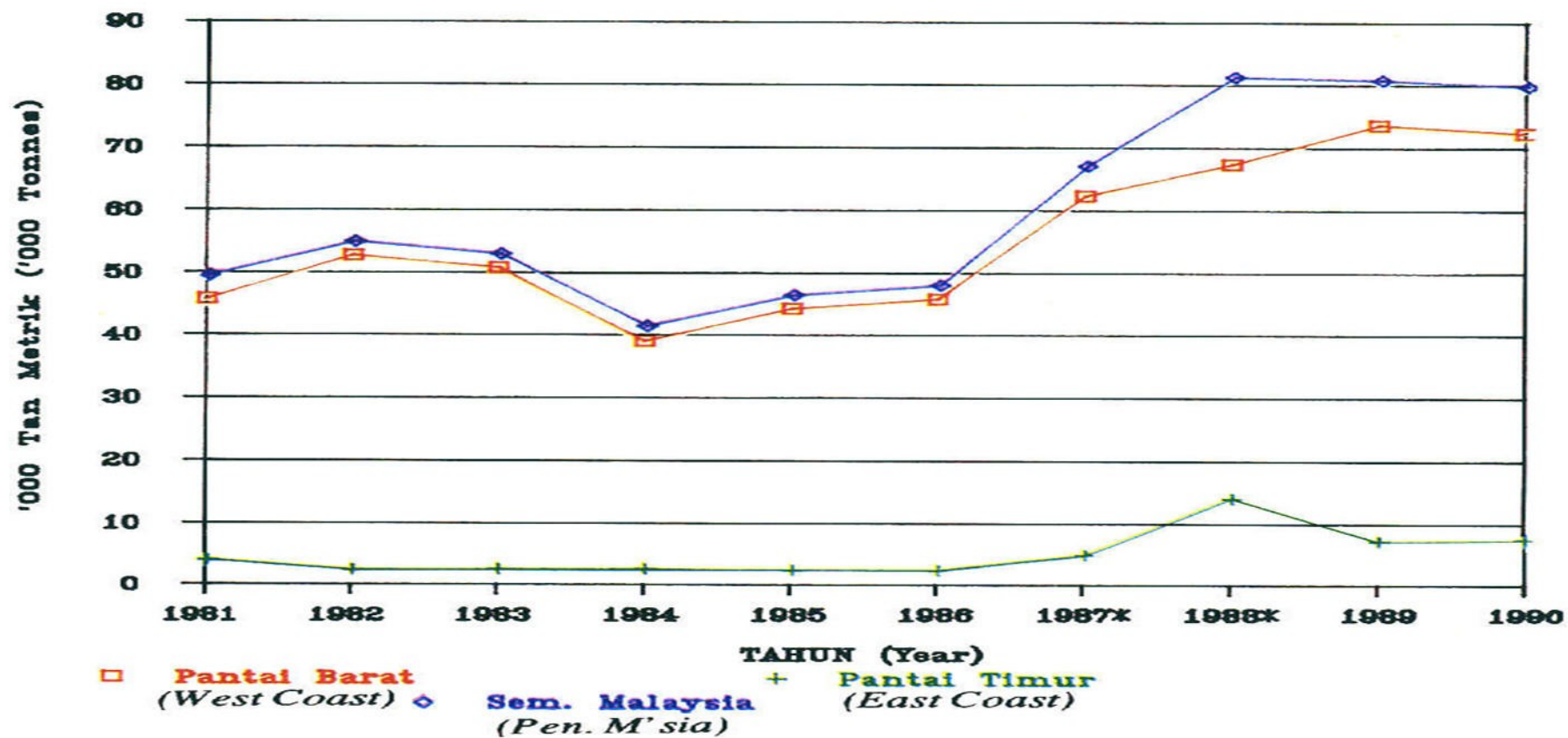


MALAYSIA
ARAH ALIRAN PENDARATAN IKAN LAUT
(1986 - 1990)
(Trend Of Marine Fish Landings)

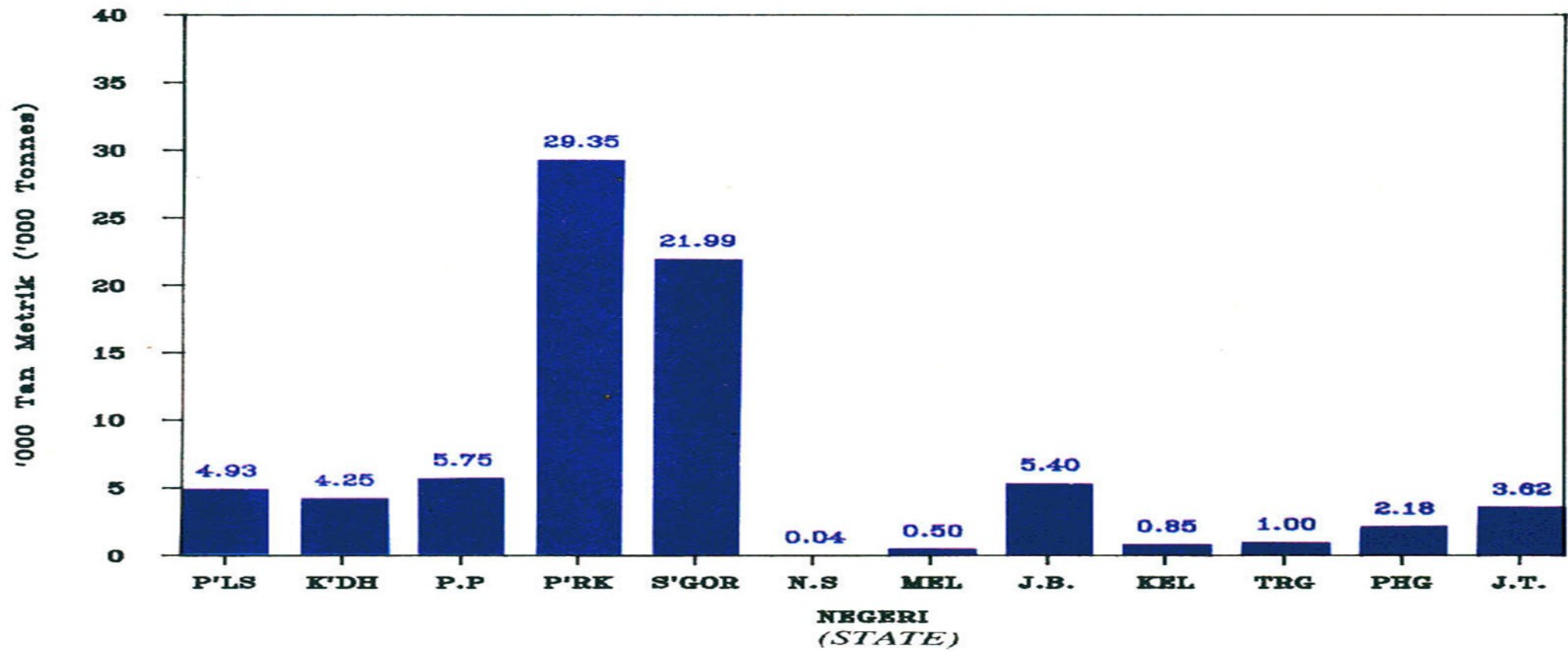


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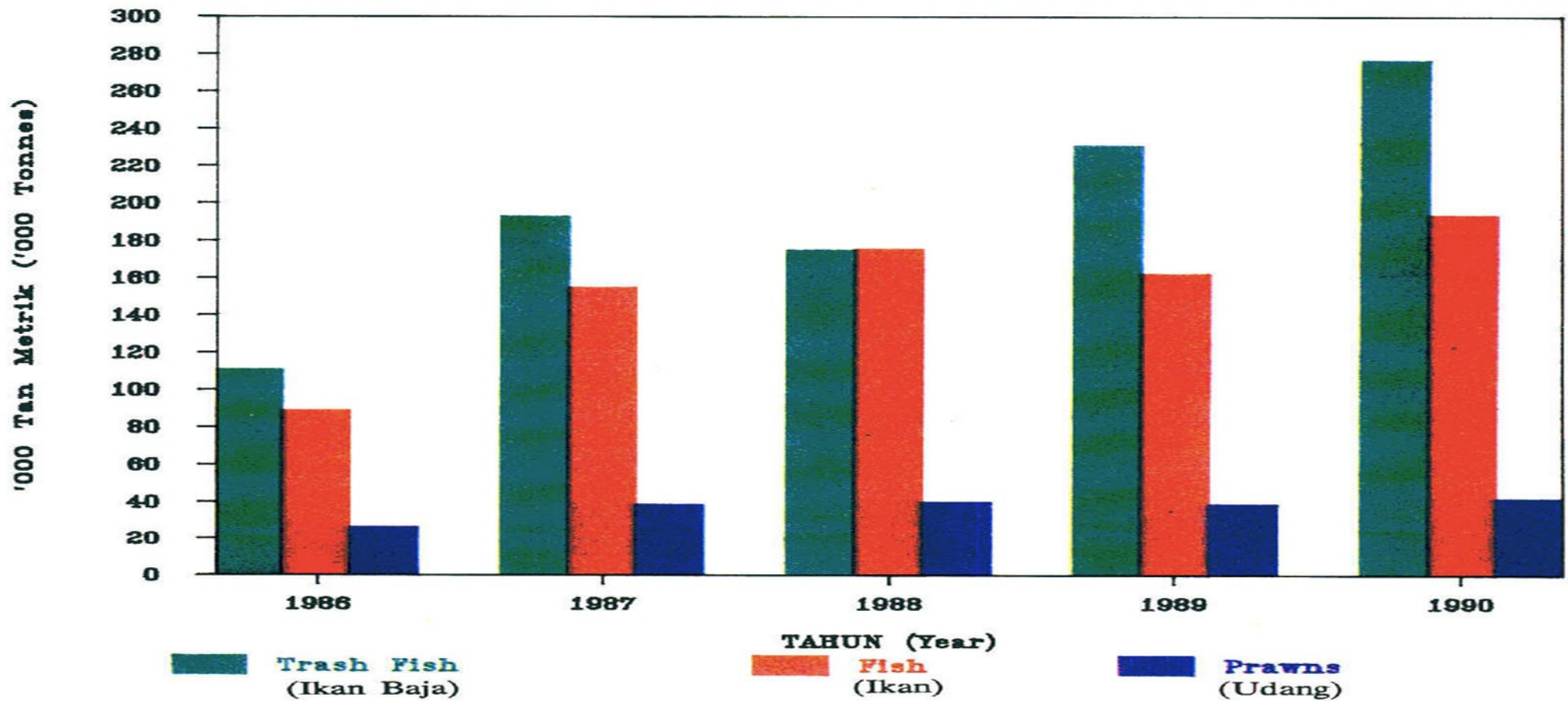
SEMENANJUNG MALAYSIA
(Peninsular Malaysia)
ARAH ALIRAN PENDARATAN UDANG, 1981 - 1990
(Trend Of Prawn Landings, 1981 - 1990)



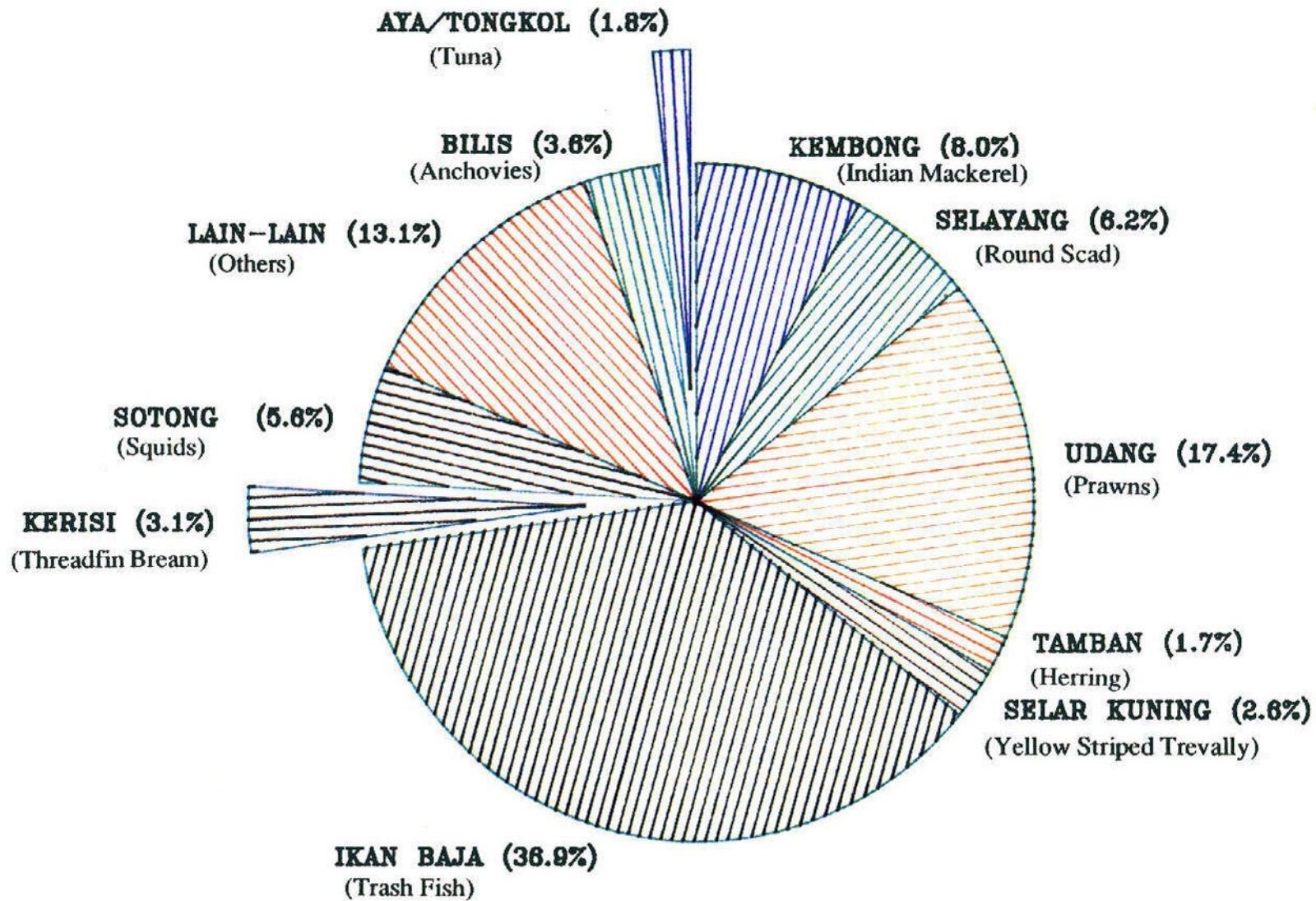
SEMENANJUNG MALAYSIA
(Peninsular Malaysia)
PENDARATAN UDANG, 1990
(Prawn Landings, 1990)



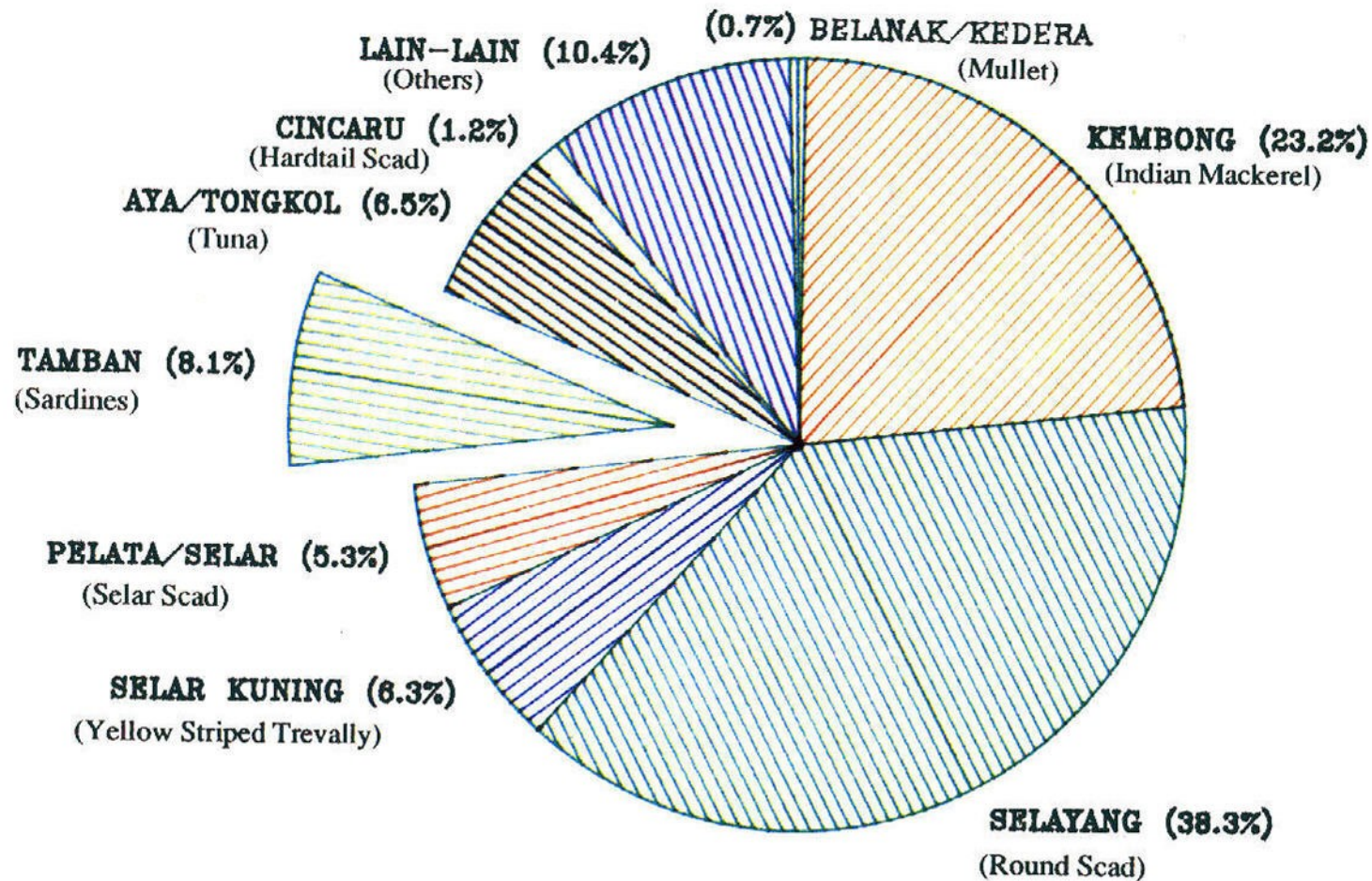
SEMENANJUNG MALAYSIA
(Peninsular Malaysia)
PENDARATAN PUKAT TUNDA, 1986 - 1990
(Trawl Landings, 1986 - 1990)



MALAYSIA
PENDARATAN MENGIKUT SPESIES UTAMA, 1990
 (Landings Of Fish By Main Species, 1990)

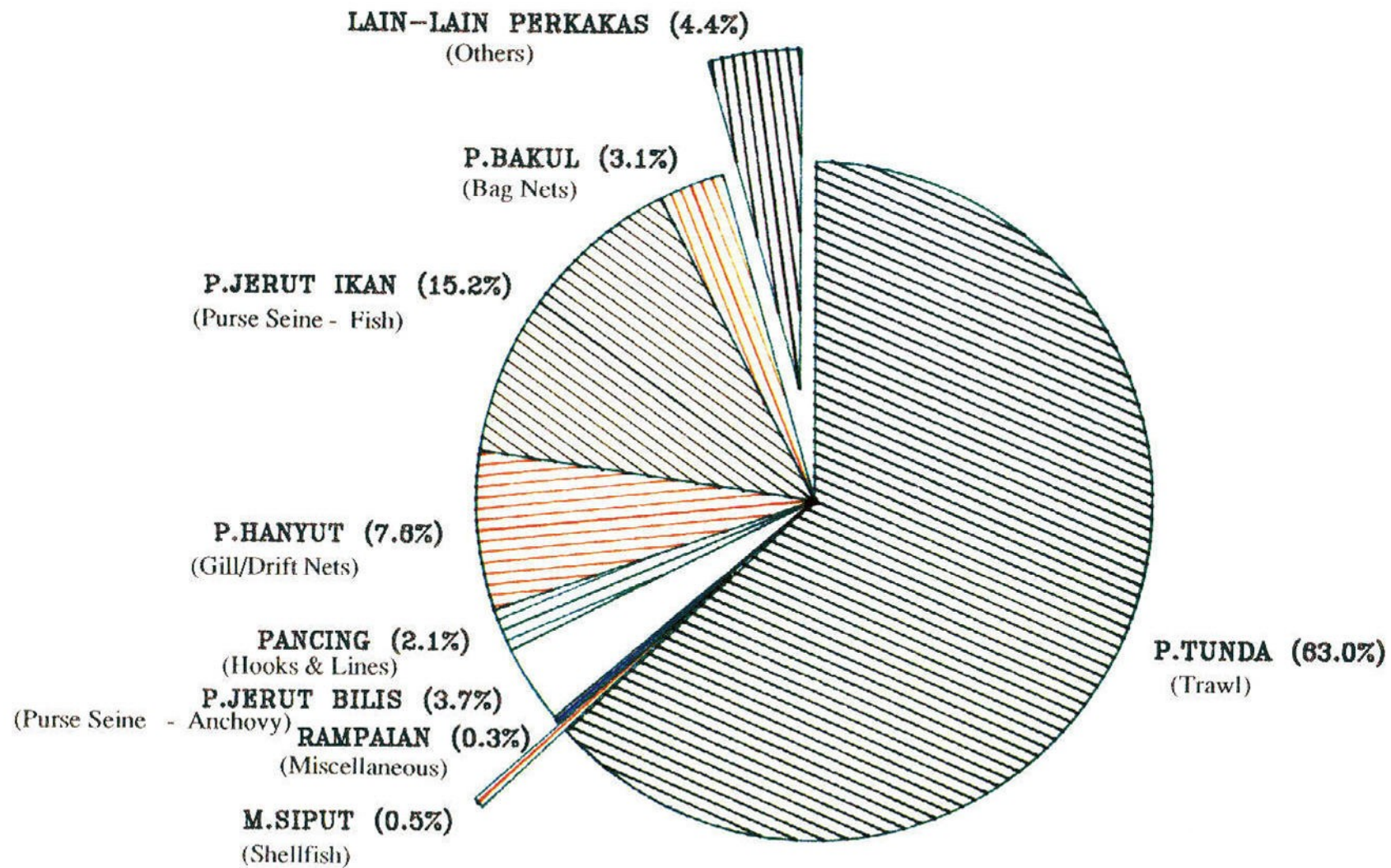


SEMENANJUNG MALAYSIA
(Peninsular Malaysia)
PENDARATAN PUKAT JERUT, 1990
(MENGIKUT SPESIES UTAMA)
(Purse Seine Landings, 1990)
(By Main Species)

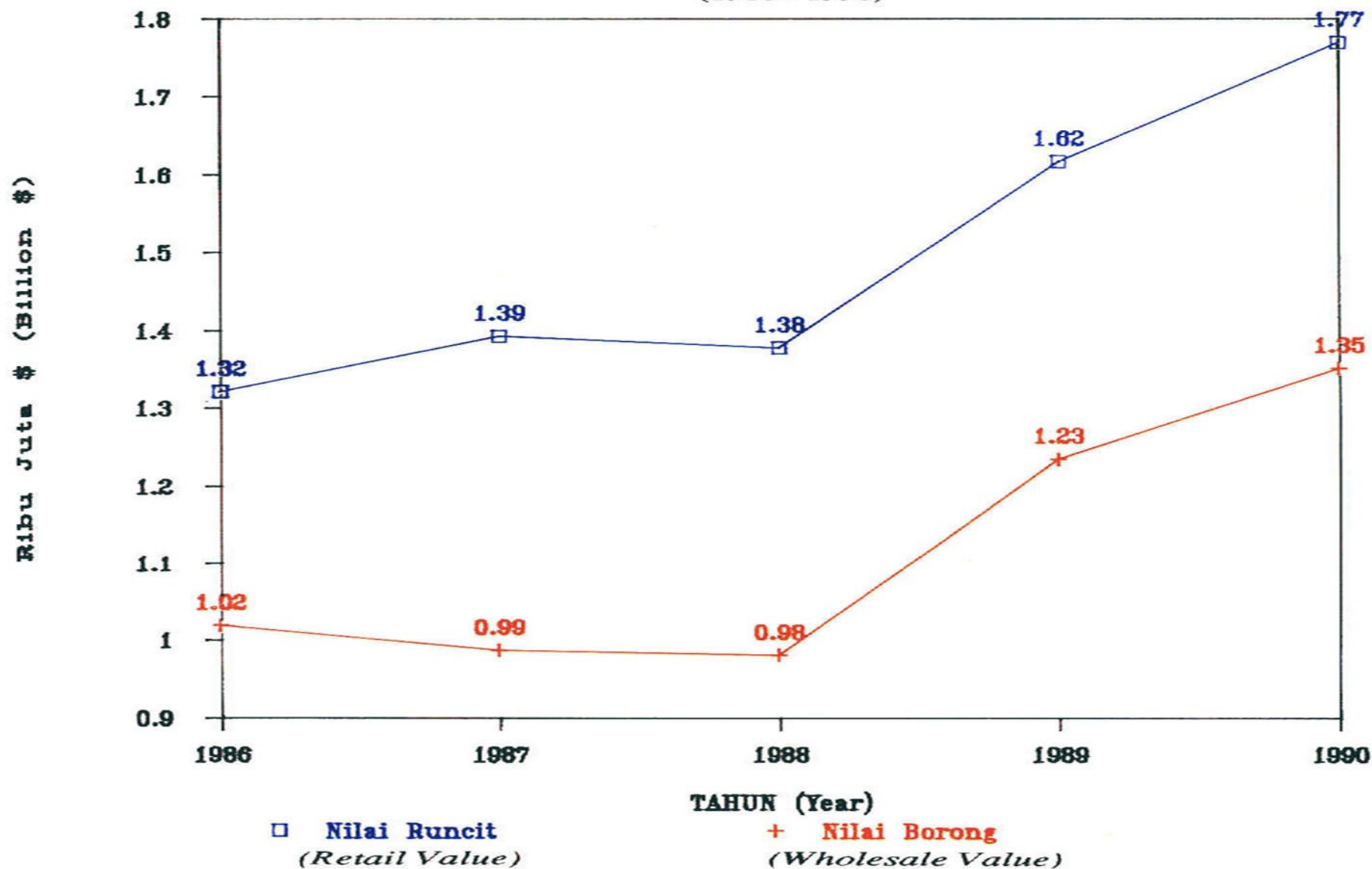


SEMENANJUNG MALAYSIA
(Peninsular Malaysia)

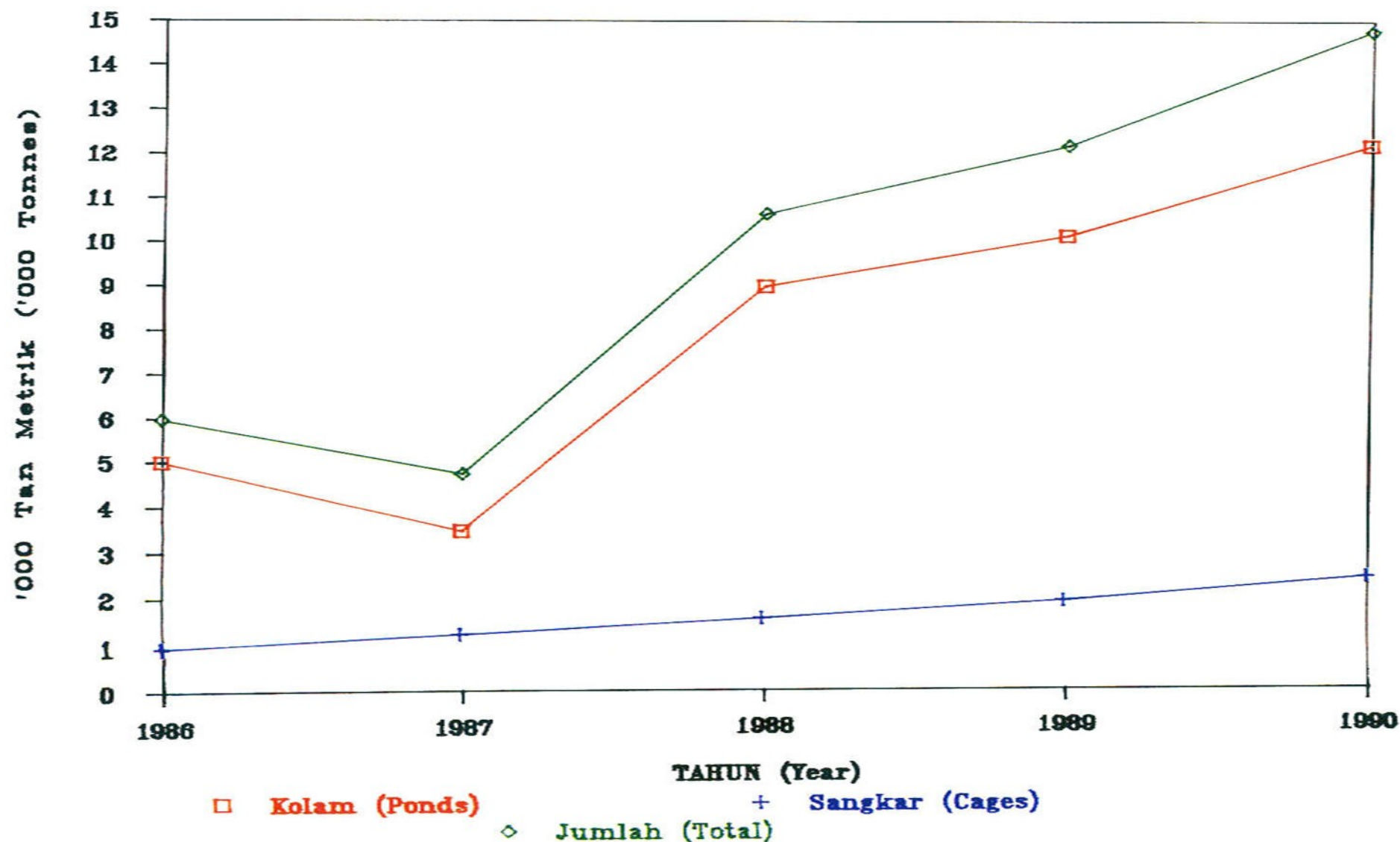
PENDARATAN IKAN LAUT, 1990
MENGIKUT KUMPULAN PERKAKAS
(Landings Of Marine Fish By Gear Group, 1990)



SEMENANJUNG MALAYSIA
(Peninsular Malaysia)
ARAH ALIRAN NILAI PASARAN IKAN LAUT
(1986 - 1990)
(Market Value Of Marine Fish)
(1986 - 1990)

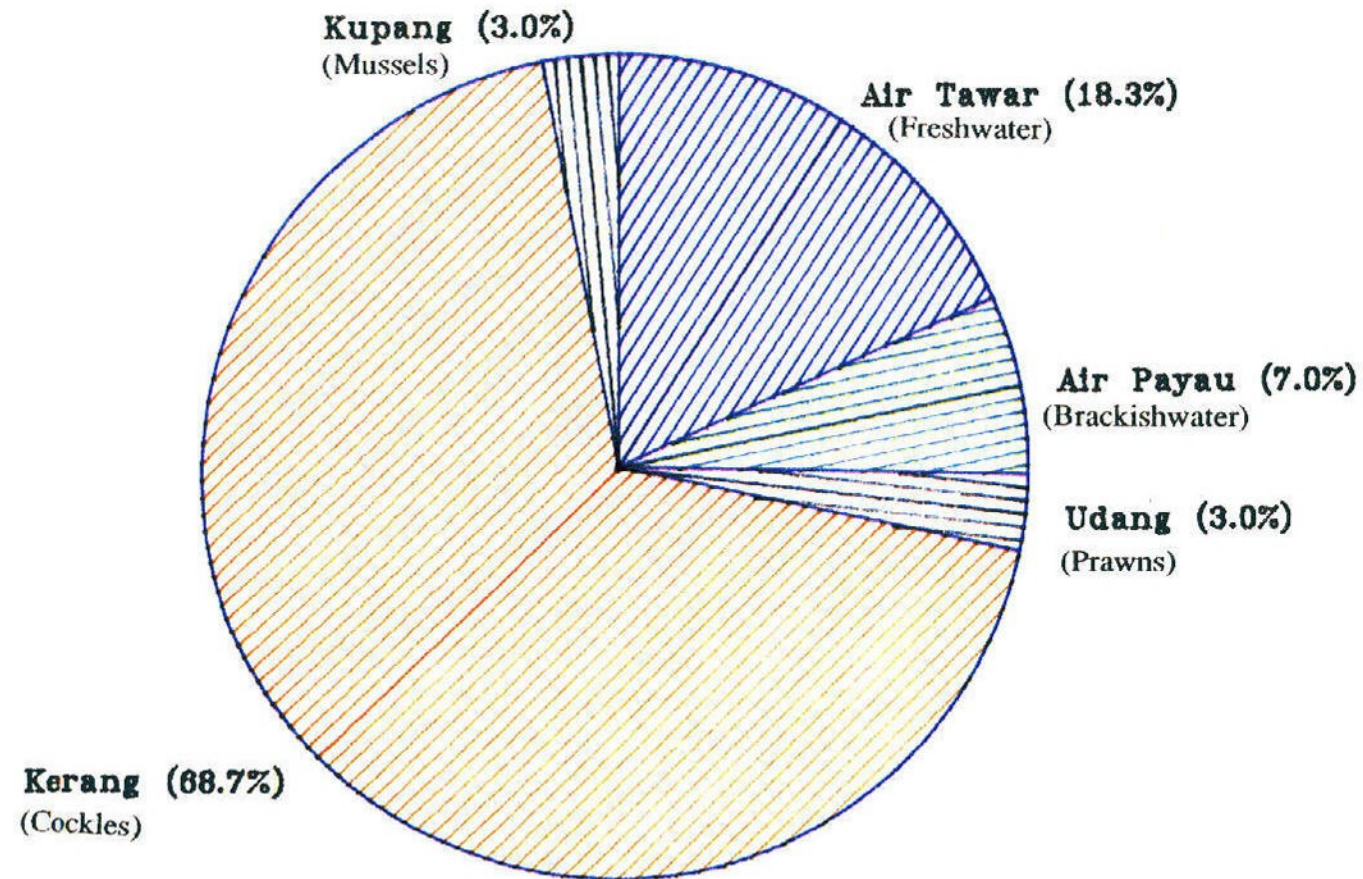


MALAYSIA
ARAH ALIRAN PENGELUARAN IKAN TERNAKAIR
(1986 - 1990)
(Trend Of Aquaculture Production)



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MALAYSIA
PENDARATAN SEKTOR AKUAKULTUR, 1990
MENGIKUT JENIS TERNAKAN
(Production Of Aquaculture by Type)



MALAYSIA
BILANGAN NELAYAN YANG BEKERJA DI ATAS BOT-BOT BERLESEN 1990
NUMBER OF FISHERMEN WORKING IN LICENSED BOATS, 1990

JADUAL (TABLE) 1.1

Negeri/State Keturunan/ Ethnic Group	Pantai Barat/West Coast									Pantai Timur/East Coast					Sarawak	Sabah	W.P. Labuan, Federal Territory	Jumlah Kecil Sub-Total	Jumlah Besar Grand Total
	Perlis	Kedah	Pulau Pinang Penang	Perak	Selangor D.Ehsan	Negeri Sembilan	Malaka Malacca	Johor Barat West Johore	Jumlah Kecil Sub-Total	Kelantan	Terengganu	Pahang Darul Makmur	Johor Timur East Johore	Jumlah Kecil Sub-Total					
Bumiputera Bumiputras	2,257	5,786	1,923	2,092	947	143	994	2,311	16,453	3,717	9,347	2,984	2,412	18,480	10,778	10,417	259	21,454	56,367
China Chinese	233	781	2,507	8,399	4,714	252	339	2,057	19,282	10	55	551	1,466	2,082	1,309	2,070	17	3,396	24,760
India Indians	1	1	53	276	94	38	1	5	469	0	0	0	2	2	0	0	0	0	471
Portugis Portuguese	0	0	0	0	0	2	80	0	82	0	0	0	0	0	0	0	0	0	82
Thai Thais	1,732	835	1	0	0	0	0	43	2,611	57	59	52	35	203	0	0	0	0	2,814
Indonesia Indonesians	0	0	0	0	0	12	143	0	155	0	0	0	0	0	0	0	0	0	155
Lain-lain Others	0	0	0	0	0	0	0	2	2	0	0	0	0	0	110	3,595	138	3,843	3,845
Jumlah Besar Grand Total	4,223	7,403	4,484	10,767	5,765	447	1,557	4,418	39,054	3,784	9,461	3,587	3,915	20,747	12,197	16,082	414	28,693	88,494

MALAYSIA
BILANGAN NELAYAN BEKERJA DI ATAS BOT-BOT BERLESEN MENGIKUT KUMPULAN PERKAKAS DAN NEGERI, 1990
NUMBER OF FISHERMEN WORKING IN LICENSED BOATS BY GEAR GROUP AND STATE, 1990

JADUAL (TABLE) 1.2

Negeri/State Kumpulan Perkakas/ Gear Group	Perlis	Kedah	P.Pinang Penang	Perak	Selangor Darul Ehsan	Negeri Sembilan	Melaka Malacca	Johor Barat West Johore	Kelantan	Terengganu	Pahang Darul Makmur	Johor Timur East Johore	Jumlah Kecil Sub- Total	Sarawak	Sabah	W.P. Labuan	Jumlah Kecil Sub- Total	Jumlah Besar Grand Total
Pukat Tunda/Trawl Nets	786	1,984	371	3,848	1,187	0	0	899	596	1,306	1,237	1,255	9,429	4,354	4,341	20	8,715	22,144
Pukat Tarik/Selne Nets:																		
Pukat Jerut Ikan	2,562	307	451	686	241	0	0	0	819	2,954	517	753	9,290	330	1,523	45	1,898	11,188
Purse Seine-Fish	0	1,883	0	244	0	0	0	0	40	390	237	0	2,794	0	0	0	0	2,794
Purse Seine-Anchovy	1	62	589	1,333	30	4	10	15	120	69	6	2	2,221	10	1,203	0	1,213	3,434
Lain-Lain/Other Seines	858	2,967	2,846	3,509	3,462	388	1,380	3,035	1,423	1,410	580	1,490	23,348	4,910	4,277	122	9,309	32,657
Pukat Hanyut Gill/Drift Nets	8	69	0	0	0	0	0	1	115	171	128	9	501	84	766	0	850	1,351
Pukat Tangkuk/Lift Nets																		
Perangkap/Traps:																		
Belat-Belat (Stationary)	0	1	1	0	3	0	4	48	0	0	0	17	74	374	196	24	594	668
Bubu (Portable)	0	4	40	163	2	31	0	117	62	513	340	49	1,321	220	558	9	787	2,108
Pancing/Hooks & Lines	28	44	89	351	175	20	151	69	605	2,532	512	257	4,833	599	2,656	157	3,412	8,245
Pukat Bekul/Bag Nets	0	31	109	163	344	0	0	120	0	0	0	15	782	724	0	0	724	1,508
Pukat Surung	0	0	5	7	0	0	0	23	0	0	0	0	35	138	0	37	175	210
Push/Scoop Nets																		
Pukat Rentang	0	35	0	0	43	0	11	53	0	0	0	6	148	394	0	0	394	542
Barrier Nets																		
Memungut Siput	0	0	0	186	15	4	0	38	0	0	0	0	243	0	30	0	30	273
Shellfish Collection																		
Pembawa Ikan	0	0	0	2	224	0	0	0	0	114	26	2	368	0	0	0	0	368
Fish Carriers																		
Rampalan/Miscellaneous	0	36	3	275	29	0	1	0	4	2	4	60	414	60	532	0	592	1,006
Jumlah/Total	4,223	7,403	4,484	10,787	5,755	447	1,557	4,418	3,784	9,461	3,587	3,915	59,801	12,197	16,082	414	28,693	88,494

JADUAL (TABLE) 1.3

MALAYSIA
BILANGAN NELAYAN YANG BEKERJA DIATAS BOT YANG DILESENKAN MENGIKUT
DAERAH-DAERAH PERIKANAN, 1990
NUMBER OF FISHERMEN WORKING IN LICENSED FISHING BOATS BY FISHERIES DISTRICTS, 1990

Daerah-Daerah Perikanan (Fisheries Districts)	Nelayan-Nelayan/Fishermen				
	Bumiputera Bumiputras	Cina Chinese	India Indians	Lain-Lain Others	Jumlah Total
SEM. MALAYSIA/PEN. MALAYSIA					
1) Kuala Perlis	2,257	233	1	1,732	4,223
2) Langkawi	1,152	17	0	817	1,986
3) Kedah Utara	2,330	656	0	15	3,001
4) Kedah Selatan	2,304	108	1	3	2,416
5) Timur Laut/P.Pinang	291	420	17	1	729
6) Barat Daya/P.Pinang	457	852	6	0	1,315
7) Seberang Prai Utara	668	212	6	0	886
8) Seberang Prai Tengah	175	71	0	0	246
9) Seberang Prai Selatan	332	952	24	0	1,308
10) Krian	488	2,174	5	0	2,667
11) Larut & Matang	343	2,193	4	0	2,540
12) Manjong	1,003	2,130	257	0	3,390
13) Hilir Perak	258	1,902	10	0	2,170
14) Selangor Utara	132	1,525	3	0	1,660
15) Selangor Tengah	280	1,029	16	0	1,325
16) Pelabuhan Klang I	11	1,133	3	0	1,147
17) Pelabuhan Klang II	247	607	9	0	863
18) Selangor Selatan	277	420	63	0	760
19) Port Dickson	143	252	38	14	447
20) Melaka	994	339	1	223	1,557
21) Muar	566	398	1	0	965
22) Batu Pahat	355	531	0	0	886
23) Pontian	548	922	1	2	1,473
24) Johor Bahru	842	206	3	43	1,094
25) Pengerang (Kota Tinggi)	453	388	2	0	843
26) Sedeli	687	355	0	0	1,042
27) Mersing	1,272	723	0	35	2,030
28) Kuantan	1,378	238	0	52	1,668
29) Pekan	1,087	75	0	0	1,162
30) Kuala Rompin	519	238	0	0	757
31) Kemaman	1,645	14	0	0	1,659
32) Dungun	1,174	4	0	7	1,185
33) Marang	941	0	0	0	941
34) Kuala Terengganu Utara	1,091	1	0	0	1,092
35) Kuala Terengganu Selatan	1,907	22	0	40	1,969
36) Besut	1,990	0	0	12	2,002
37) Setiu	599	14	0	0	613
38) Kota Bharu	1,435	2	0	51	1,488
39) Bachok & Pasir Putih	973	0	0	0	973
40) Tumpat	1,309	8	0	6	1,323
Jumlah Kecil/Sub-Total	34,913	21,364	471	3,053	59,801

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

Daerah-Daerah Perikanan (Fisheries Districts)	Nelayan-Nelayan/Fishermen				
	Bumiputera Bumiputras	Cina Chinese	India Indians	Lain-Lain Others	Jumlah Total
SARAWAK					
1) B. Kuching	1,216	432	0	0	1,648
2) Santubong	812	37	0	1	850
3) Pendam (Sadong Jaya)	794	11	0	0	805
4) Sematan	293	13	0	0	306
5) Batang Lupa	965	19	0	0	984
6) Saribas/Kalaka	741	9	0	0	750
7) Sibuligan	619	301	0	0	920
8) Sarikei/Bitangor	248	107	0	0	355
9) Mukah/Oya	1,075	32	0	0	1,107
10) Belawai	498	14	0	0	512
11) Matu Daro	1,530	57	0		1,587
12) Bintulu	571	56	0	75	702
13) Miri	841	221	0	34	1,096
14) Limbang	81	0	0	0	81
15) Lawas	494	0	0	0	494
Jumlah Kecil/Sub-Total	10,778	1,309	0	110	12,197
SABAH					
1) Tawau	714	150	0	0	864
2) Semporna	2,726	40	0	1,500	4,266
3) Kunak	254	35	0	0	289
4) Lahad Datu	276	40	0	243	559
5) Sandakan	684	1,000	0	1,222	2,906
6) Baluran	761	100	0	46	907
7) Kudat	562	200	0	228	990
8) Kota Marudu	762	25	0	40	827
9) Kota Belud	1,027	0	0	2	1,029
10) Tuaran	458	50	0	0	508
11) Kota Kinabalu	924	250	0	204	1,378
12) Papar	380	30	0	31	441
13) Beaufort	357	100	0	0	457
14) Kuala Penyu	268	50	0	74	392
15) Sipitang	264	0	0	5	269
Jumlah Kecil/Sub-Total	10,417	2,070	0	3,595	16,082
WIL. PER. LABUAN/LABUAN F.T.					
1) Kg. Bebuloh	61	9	0	0	70
2) Kg. Ranca-Ranca	24	0	0	7	31
3) Kg. Lubok Temiang	22	0	0	0	22
4) Kg. Batu Manikar	6	2	0	0	8
5) Kg. Tg. Aru	9	0	0	0	9
6) Kg. Miri/Lada/Pagar	15	0	0	0	15
7) Kg. Patau-Patau	52	0	0	18	70
8) Lain-Lain Kampong	70	6	0	113	189
Jumlah Kecil/Sub-Total	259	17	0	138	414
Jumlah Besar/Grand Total	56,367	24,760	471	6,896	88,494

MALAYSIA
BILANGAN BOT MENANGKAP IKAN YANG DILESENKAN MENGIKUT NEGERI DAN KELAS MUATAN, 1990
NUMBER OF LICENSED FISHING BOATS BY STATE AND TONNAGE CLASS, 1990

Jenis/Type Negeri/State	Jumlah Total	Bot Tiada Berjentera Non-Powered	Bot Berjentera Sangkut Outboard-Powered	BOT BERJENTERA DALAM/INBOARD-POWERED								
				Jumlah Kecil Sub-Total	0-4.9 GRT+	5-9.9 GRT	10-14.9 GRT	15-19.9 GRT	20-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & Ke atas (& Above)
Pantai Barat/West Coast:												
Perlis	775	0	174	601	158	96	53	70	40	102	50	32
Kedah	2,300	11	918	1,371	503	272	57	60	69	205	131	74
Pulau Pinang/Penang	2,151	49	1,226	876	258	454	6	4	4	108	36	6
Perak	5,019	171	947	3,901	885	1,280	583	531	152	132	271	67
Selangor	2,764	138	451	2,175	134	1,381	238	136	30	162	89	5
Negeri Sembilan	220	18	151	51	6	42	3	0	0	0	0	0
Melaka/Malacca	874	78	560	236	17	219	0	0	0	0	0	0
Johor Barat/West Johore	2,891	212	1,607	1,072	184	592	69	170	38	10	0	9
Jumlah/Total	16,994	677	6,034	10,283	2,145	4,336	1,009	971	333	719	577	193
Pantai Timur/East Coast:												
Kelantan	1,177	9	236	932	388	138	179	105	22	47	25	28
Terengganu	2,410	28	84	2,298	381	739	515	368	90	90	57	58
Pahang	1,033	18	152	863	79	359	150	41	11	74	73	76
Johor Timur/East Johore	1,520	47	523	950	118	300	132	36	19	111	165	69
Jumlah/Total	6,140	102	995	5,043	966	1,536	976	550	142	322	320	231
Malaysia:												
Semenanjung Malaysia/ Peninsular Malaysia	23,134	779	7,029	15,326	3,111	5,872	1,985	1,521	475	1,041	897	424
Sarawak	7,066	77	1,711	5,278	2,532	1,246	628	241	178	190	147	116
Sabah	9,200	800	5,000	3,400	694	1,027	765	394	255	147	74	44
W. Persekutuan Labuan/ Labuan, F.Territory	141	1	129	11	0	1	1	0	1	3	3	2
Jumlah/Total	39,541	1,657	13,869	24,015	6,337	8,146	3,379	2,156	909	1,381	1,121	586

+ GRT - Gross Relative Tonnage

JADUAL (TABLE) 2.2

MALAYSIA
BILANGAN BOT MENANGKAP IKAN YANG DILESENKAN MENGIKUT NEGERI DAN KUASA KUDA, 1990
NUMBER OF LICENSED FISHING BOATS BY STATE AND HORSEPOWER, 1990

Negeri/State Kuasa Kuda/Horsepower Of Engine	Perlis	Kedah	P.Pinang Penang	Perak	Selangor D.E.	Negeri Sembilan	Melaka Malacca	Johor Barat W.Johore	Jumlah Kecil Sub-Total	Kelantan	Terengganu	Pahang	Johor Timur E.Johore	Jumlah Kecil Sub-Total	Sarawak	Sabah	W.P. Labuan	Jumlah Kecil Sub-Total	Jumlah Besar Grand-Total
Enjin Dalam/Inboard-Powered																			
Kurang dari 5 k.k. (under 5 h.p.)	1	43	4	28	4	0	2	16	98	61	82	5	1	149	1,612	200	0	1,812	2,059
5 - 9 k.k. (h.p.)	40	174	29	93	17	0	27	75	455	268	202	14	15	529	1,246	530	0	1,776	2,760
10 - 19 "	115	321	123	295	289	15	136	216	1,510	98	483	158	203	942	869	330	1	1,200	3,652
20 - 39 "	115	228	181	538	1,035	30	71	340	2,538	312	1,082	425	297	2,116	808	630	1	1,439	6,093
40 - 59 "	64	57	234	1,929	19	2	0	53	2,358	25	158	12	19	214	202	615	1	818	3,390
60 - 99 "	16	24	149	280	54	4	0	102	629	19	100	14	35	168	247	310	3	560	1,357
100 - 149 "	41	63	12	103	312	0	0	100	631	39	41	22	32	134	61	285	1	347	1,112
150 - 249 "	151	267	120	344	167	0	0	131	1,200	42	68	73	168	351	131	380	1	512	2,063
250 k.k. ke atas (250 h.p. & above)	58	194	24	291	258	0	0	39	864	38	82	140	180	440	102	120	3	225	1,529
Jumlah Kecil (Sub-Total)	601	1,371	876	3,901	2,175	51	236	1,072	10,283	932	2,296	863	950	5,043	5,278	3,400	11	8,689	24,015
Enjin Sangkut/Outboard-Powered																			
Kurang dari 5 k.k. (under 5 h.p.)	19	176	390	475	84	42	108	520	1,814	174	28	67	121	390	327	230	1	558	2,762
5 - 9 k.k. (h.p.)	155	682	369	281	196	76	322	654	2,735	60	30	73	227	390	292	1,530	16	1,838	4,963
10 - 19 "	0	52	252	108	95	22	106	262	897	0	19	11	82	112	210	1,600	25	1,835	2,844
20 - 39 "	0	7	210	83	72	11	23	147	553	2	6	1	81	90	422	1,390	37	1,849	2,492
40 - 59 "	0	1	5	0	4	0	1	24	35	0	1	0	12	13	421	235	35	691	739
60 - 99 "	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	15	15	63	63
100 - 149 "	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	5
150 - 249 "	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
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)	174	918	1,226	947	451	151	560	1,607	6,034	236	84	152	523	995	1,711	5,000	129	6,840	13,869
Jumlah Besar (Grand Total)	775	2,289	2,102	4,848	2,626	202	796	2,679	16,317	1,168	2,382	1,015	1,473	6,038	6,989	8,400	140	15,529	37,884

MALAYSIA
 BILANGAN BOT IKAN YANG BERLESEN MENGIKUT KUMPULAN PERKAKAS, JENIS DAN KELAS MUATAN, 1990
 NUMBER OF LICENSED FISHING BOATS BY GEAR GROUP, TYPE AND TONNAGE CLASS, 1990

JADUAL (TABLE) 2.3

Jenis Dan Kelas Muatan/ Type And Tonnage Class	Jumlah Besar Grand Total	Tiada Berjentera Non-Powered	Berjentera Sangkut Out-Board Powered	BOT BERJENTERA DALAM/INBOARD-POWERED (SEM. MALAYSIA/PEN. MALAYSIA)									BILANGAN BOT/NO. OF BOATS		
				Jumlah Kecil Sub-Total	0 - 4.99 GRT+	5 - 9.99 GRT	10 - 14.99 GRT	15 - 19.99 GRT	20 - 24.99 GRT	25 - 39.99 GRT	40 - 69.99 GRT	70 GRT & ke atas (& Above)	SARAWAK	SABAH	W.P. LABUAN
Pukat Tunda/Trawl Nets	7,011	0	0	4,218	33	250	808	1,032	351	864	602	278	992	1,800	1
Pukat Tarik/Seine Nets:															
Pukat Jerut Ikan	775	0	0	598	0	6	26	47	40	136	265	78	22	152	3
Purse Seine-Fish															
Pukat Jerut Bilis	159	0	0	159	0	12	32	24	7	5	21	58	0	0	0
Purse Seine-Anchovy															
Lain-Lain/Other Seines	981	30	216	705	181	509	8	4	3	0	0	0	10	0	0
Pukat Hanyut	20,776	464	5,875	6,853	2,127	3,923	604	159	24	14	1	1	4,485	3,042	57
Gili/Drift Nets															
Pukat Tangguk/Lift Nets	833	1	29	114	23	48	36	6	0	0	1	0	12	677	0
Perangkap/Traps:															
Belat-Belat (Stationary)	485	5	32	10	3	6	1	0	0	0	0	0	187	240	11
Bubu (Portable)	707	10	95	378	28	153	114	50	23	9	1	0	219	0	5
Pancing/Hooks & Lines	4,468	65	422	1,678	389	725	335	199	23	7	0	0	179	2,073	51
Pukat Bakul/Bag Nets	1,103	6	85	349	184	164	0	0	1	0	0	0	663	0	0
Pukat Surung	83	3	26	3	3	0	0	0	0	0	0	0	38	0	13
Push/Scoop Nets															
Pukat Rentang	287	11	52	17	0	15	2	0	0	0	0	0	207	0	0
Barrier Nets															
Memungut Siput	196	23	40	133	112	21	0	0	0	0	0	0	0	0	0
Shellfish Collection															
Pembawa Ikan	221	109	23	89	27	36	19	0	3	4	0	0	0	0	0
Fish Carriers															
Rampaian/Miscellaneous	1,476	52	134	22	1	4	0	0	0	2	6	9	52	1,216	0
Jumlah/Total	39,541	779	7,029	15,326	3,111	5,872	1,985	1,521	475	1,041	897	424	7,066	9,200	141

+ GRT - Gross Relative Tonnage

JADUAL (TABLE) 2.4

MALAYSIA
BILANGAN BOT MENANGKAP IKAN YANG DILESENKAN MENGIKUT
DAERAH-DAERAH PERIKANAN, 1990
NUMBER OF LICENSED FISHING BOATS BY FISHERIES DISTRICTS, 1990

Daerah-Daerah Perikanan (Fisheries Districts)	Bot-Bot (Fishing Boats)			
	Berjentera Dalam Inboard	Berjentera Sangkut Outboard	Tidak Berjentera Non-Powered	Jumlah Total
SEM. MALAYSIA/PEN. MALAYSIA				
1) Kuala Perlis	601	174	0	775
2) Langkawi	246	276	2	524
3) Kedah Utara	841	177	4	1,022
4) Kedah Selatan	284	465	5	754
5) Timur Laut/P.Pinang	101	247	5	353
6) Barat Daya/P.Pinang	215	490	9	714
7) Seberang Prai Utara	241	156	21	418
8) Seberang Prai Tengah	25	156	5	186
9) Seberang Prai Selatan	294	177	9	480
10) Krian	1,097	245	42	1,384
11) Larut & Matang	1,145	171	40	1,356
12) Manjong	917	377	57	1,351
13) Hilir Perak	742	154	32	928
14) Selangor Utara	605	13	0	618
15) Selangor Tengah	561	69	32	662
16) Pelabuhan Klang I	556	4	3	563
17) Pelabuhan Klang II	206	213	88	507
18) Selangor Selatan	247	152	15	414
19) Port Dickson	51	151	18	220
20) Melaka	236	560	78	874
21) Muar	243	300	66	609
22) Batu Pahat	312	167	31	510
23) Pontian	489	344	25	858
24) Johor Bahru	28	796	90	914
25) Pengerang (Kota Tinggi)	132	487	42	661
26) Sedeli	289	29	4	322
27) Mersing	529	7	1	537
28) Kuantan	341	70	11	422
29) Pekan	352	56	7	415
30) Kuala Rompin	170	26	0	196
31) Kemaman	485	6	12	503
32) Dungun	356	1	3	360
33) Marang	260	7	5	272
34) Kuala Terengganu Utara	300	65	6	371
35) Kuala Terengganu Selatan	400	4	1	405
36) Besut	347	0	0	347
37) Setiu	150	1	1	152
38) Kota Bharu	223	135	6	364
39) Bachok & Pasir Putih	318	27	3	348
40) Tumpat	391	74	0	465
Jumlah Kecil/Sub-Total	15,326	7,029	779	23,134

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

Daerah-Daerah Perikanan (Fisheries Districts)	Bot-Bot (Fishing Boats)			Jumlah Total
	Berjentera Dalam Inboard	Berjentera Sangkut Outboard	Tidak Berjentera Non-Powered	
SARAWAK				
1) B. Kuching	467	38	0	505
2) Santubong	619	140	6	765
3) Pendam (Sadong Jaya)	661	7	30	698
4) Sematan	52	194	0	246
5) Batang Lupar	653	204	2	859
6) Saribas/Kalaka	778	42	2	822
7) Sibuligan	205	19	4	228
8) Sarikei/Bitangor	119	32	1	152
9) Mukah/Oya	240	159	6	405
10) Belawai	294	22	1	317
11) Matu Daro	809	173	17	999
12) Bintulu	165	70	0	235
13) Miri	216	93	8	317
14) Limbang	0	73	0	73
15) Lawas	0	445	0	445
Jumlah Kecil/Sub-Total	5,278	1,711	77	7,066
SABAH				
1) Tawau	150	431	0	581
2) Semporna	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 Belud	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
				0
Jumlah Kecil/Sub-Total	3,400	5,000	800	9,200
WIL. PER. LABUAN/LABUAN F.T.				
1) Kg. Bebuloh	0	34	1	35
2) Kg. Ranca-Ranca	1	12	0	13
3) Kg. Lubok Temiang	0	9	0	9
4) Kg. Batu Manikar	0	4	0	4
5) Kg. Tg. Aru	0	5	0	5
6) Kg. Miri/Lada/Pagar	0	7	0	7
7) Kg. Patau-Patau	0	30	0	30
8) Lain-Lain Kampong	10	28	0	38
Jumlah Kecil/Sub-Total	11	129	1	141
Jumlah Besar/Grand Total	24,015	13,869	1,657	39,541

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
BILANGAN BOT YANG DILESENKAN DAN BILANGAN NELAYAN
YANG BEKERJA DIBOT-BOT BERLESEN, 1970 - 1990
NUMBER OF FISHING BOATS LICENSED AND NUMBER OF FISHERMEN
OPERATING LICENSED BOATS, 1970 - 1990

JADUAL (TABLE) 2.5

Bilangan Bot Yang Dilesenkan Number Of Fishing Boats Licensed					Bilangan Nelayan Number of Fishermen				
Tahun Year	Berjentera Dalam Inboard	Berjentera Sangkut Outboard	Tidak Berjentera Non-Powered	Jumlah Total	Melayu Malays	Cina Chinese	India Indians	Lain-Lain Others	Jumlah Total
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
1990	15,326	7,029	779	23,134	34,719	21,364	471	3,247	59,801

MALAYSIA
BILANGAN PERKAKAS-PERKAKAS YANG DILESENKAN MENGIKUT NEGERI, 1990
NUMBER OF LICENSED FISHING GEARS BY STATE, 1990

JADUAL (TABLE) 3.1

Kumpulan Perkakas Gear Group	Pukat Tunda Trawl Nets	Pukat-Pukat Tarik Seine Nets			Pukat Hanyut Drift/Gill Nets	Pukat Tangguk Lift Nets	Perangkap-Perangkap Traps		Pancing Hooks & Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/Scoop Nets	Memungut Siput Shellfish Collection	Rampalan Miscellaneous	Jumlah Total
		Pukat Jerut Ikan Purse Seine- Fish	Pukat Jerut Bilis Purse Seine- Anchovy	Lain-Lain Other Seines			Belat-Belat Stationary	Bubu Portable							
Perlis	216	111	0	1	433	4	0	0	10	0	0	0	0	0	775
Kedah	528	18	64	30	1,546	30	1	1	29	30	18	0	0	4	2,299
Pulau Pinang/Penang	111	42	0	139	1,700	0	1	17	68	64	0	5	0	3	2,150
Perak	1,592	71	15	667	1,971	0	0	61	195	113	0	5	148	179	5,017
Selangor	438	24	0	13	1,871	0	2	1	108	158	14	0	9	141	2,779
Negeri Sembilan	0	0	0	2	195	0	0	8	11	0	0	0	2	0	218
Malaka/Malacca	0	0	0	7	782	0	2	0	78	0	4	0	0	1	874
Johor Barat/West Johore	302	0	0	15	2,230	1	32	95	54	60	38	22	37	0	2,886
Jumlah Kecil/Sub-Total	3,187	266	79	874	10,728	35	38	183	553	425	74	32	196	328	16,998
Pantai Timur/East Coast:															
Kelantan	110	46	9	55	690	33	0	11	223	0	0	0	0	0	1,177
Terengganu	310	192	55	19	497	42	0	149	1,076	0	0	0	0	68	2,408
Pahang	295	33	18	2	320	30	0	116	189	0	0	0	0	30	1,031
Johor Timur/East Johore	316	61	0	1	957	4	9	24	124	15	6	0	0	3	1,520
Jumlah Kecil/Sub-Total	1,031	332	80	77	2,464	109	9	300	1,612	15	6	0	0	101	6,136
Sarawak	992	22	0	12	4,792	0	183	229	199	804	403	98	0	69	7,803
Sabah	1,048	96	0	18	1,117	352	126	45	413	0	0	0	0	166	3,379
W.P. Labuan	1	3	0	0	57	13	11	5	51	0	0	0	0	0	141
Jumlah Kecil/Sub-Total	2,039	121	0	30	5,966	365	320	279	663	804	403	98	0	235	11,323
Jumlah Besar/Grand Total	6,257	719	159	981	19,158	509	367	762	2,828	1,244	483	130	196	664	34,457

SEMANJUNG MALAYSIA/PENINSULAR MALAYSIA
 ANGGARAN PERKAKAS-PERKAKAS MENANGKAP IKAN YANG DIUSAHAKAN MENGIKUT NEGERI, 1990
 ESTIMATED NUMBER OF FISHING GEARS IN OPERATION BY STATE, 1990

JADUAL (TABLE) 3.2

Kumpulan Perkakas Gear Group	Pukat Tunda Trawl Nets	Pukat-Pukat Tarik Seine Nets			Pukat Hanyut Drift/Gill Nets	Pukat Tangguk Lift Nets	Perangkap-Perangkap Traps		Pancing Hooks & Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/Scoop Nets	Memungut Siput Shellfish Collection	Rampaihan Miscellaneous	Jumlah Total
		Pukat Jerut Ikan Purse Seine- Fish	Pukat Jerut Bilis Purse Seine- Anchovy	Lain-Lain Other Seines			Belat-Belat Stationary	Bubu Portable							
Pantai Barat/West Coast:															
Perlis	414	94	0	11	471	0	83	0	0	0	8	10	4	17	1,112
Kedah	651	12	64	54	1,358	0	0	0	123	87	40	0	9	79	2,477
Pulau Pinang/Penang	89	32	0	147	1,802	0	0	5	54	84	83	35	5	27	2,183
Perak	1,888	50	15	478	1,721	0	0	55	0	124	74	132	46	148	4,731
Selangor Darul Ehsan	1,064	14	0	21	1,385	0	14	59	0	192	32	56	23	40	2,900
Negeri Sembilan	0	0	0	5	173	0	0	6	7	0	0	0	0	6	197
Malaka/Malacca	0	0	0	7	660	0	2	1	115	0	1	257	0	0	1,043
Johor Barat/West Johore					2,076	0									2,076
Jumlah Kecil/Sub-Total	4,106	202	79	723	9,446	0	99	126	299	487	238	490	87	317	16,699
Pantai Timur/East Coast:															
Kelantan	226	19	1	1	286	17	0	7	182	0	0	0	0	0	739
Terengganu	388	164	45	0	258	38	0	178	0	0	0	1	0	0	1,052
Pahang Darul Makmur	508	15	15	0	144	9	0	26	0	0	0	0	0	0	717
Johor Timur/East Johore	514	50	0	0	365	0	68	17	121	77	0	0	0	12	1,224
Jumlah Kecil/Sub-Total	1,616	248	61	1	1,053	64	68	228	303	77	0	1	0	12	3,732
Jumlah Besar/Grand-Total	5,722	450	140	724	10,499	64	167	354	602	564	238	491	87	329	20,431

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN KUMPULAN PERKAKAS, 1990
LANDINGS OF MARINE FISH BY STATE AND GEAR GROUP 1990

JADUAL (TABLE) 4.1

Kumpulan Perkakas Gear Group	Pukat Tunda Trawl Nets	Pukat-Pukat Tarik Seine Nets			Pukat Hanyut Drift/Gill Nets	Pukat Tangguk Lift Nets	Perangkap-Perangkap Traps		Pancing Hooks & Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/Scoop Nets	Memungut Siput Shellfish Collection	Rampaian Miscellaneous	Jumlah Tan M. Total Tonnes
		Pukat Jerut Ikan Purse Seine -Fish	Pukat Jerut Bilis Purse Seine- -Anchovy	Lain-Lain Other Seines			Belat-Belat Stationary	Bubu Portable							
Pantai Barat (West Coast):															
Perlis	18,160	18,365	0	76	8,751	0	27	0	36	0	34	13	731	13	46,206
Kedah	54,658	4,414	16,560	381	6,480	0	0	0	194	880	269	0	2,547	25	86,408
Pulau Pinang/Penang	22,556	11,173	0	3,582	12,127	0	0	1	116	2,419	201	52	24	27	52,278
Perak	160,023	15,369	8,558	14,007	14,509	0	0	906	748	2,164	297	2,060	234	169	219,044
Selangor Darul Ehsan	58,227	2,429	2	62	4,267	0	416	98	906	16,552	578	402	784	2,243	86,966
Negeri Sembilan	0	0	0	6	299	0	0	26	15	0	0	0	0	3	349
Malaka/Malacca	0	0	0	8	1,541	0	7	3	426	0	1	377	0	0	2,363
Johor Barat/West Johore	11,052	0	0	16	4,558	0	142	44	72	955	0	14	0	4	16,857
Jumlah / Total:	324,676	51,750	25,120	18,138	52,532	0	592	1,078	2,513	22,970	1,380	2,918	4,320	2,484	510,471
Pantai Timur/East Coast:															
Kelantan	11,063	9,761	7	0	4,344	1,825	0	440	4,117	0	0	0	0	0	31,557
Terengganu	27,261	48,343	3,970	0	3,024	3,263	0	4,441	6,727	0	0	207	0	0	97,236
Pahang Darul Makmur	94,320	5,668	1,648	0	661	1,292	0	535	1,246	0	0	0	0	0	105,370
Johor Timur/East Johore	59,405	8,786	0	0	1,654	0	279	63	2,215	2,813	0	0	0	54	75,269
Jumlah / Total:	192,049	72,558	5,625	0	9,683	6,380	279	5,479	14,305	2,813	0	207	0	54	309,432
Malaysia:															
Semenanjung Malaysia/ Peninsular Malaysia	516,725	124,308	30,745	18,138	62,215	6,380	871	6,557	16,818	25,783	1,380	3,125	4,320	2,538	819,903
Sarawak	42,236	4,214	0	586	15,152	0	659	16	1,246	2,985	806	10,281	145	552	78,878
Sabah	14,472	7,889	0	2,759	7,260	2,323	1,404	920	6,002	0	0	0	0	1,731	44,760
W.Persekutuan Labuan/ Labuan, Federal Territory	2,790	380	0	0	2,392	504	60	46	1,510	0	0	58	0	26	7,766
Jumlah Tan M./Total Tonnes	576,223	136,791	30,745	21,483	87,019	9,207	2,994	7,539	25,576	28,768	2,186	13,464	4,465	4,847	951,307

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN NEGERI, 1990
LANDINGS OF MARINE FISH BY MONTH AND STATE, 1990

JADUAL (TABLE) 4.2

Bulan/Month	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Jumlah Tan M. Total Tonnes
Negeri/State													
Pantai Barat/West Coast:													
Perlis	4,598	2,709	6,657	4,143	4,486	3,427	3,467	2,774	4,130	4,582	3,030	2,203	46,206
Kedah	7,975	6,623	8,724	7,214	6,355	5,802	8,123	7,553	7,345	7,377	6,987	6,330	86,408
Pulau Pinang/Penang	2,904	3,172	3,983	4,280	4,457	4,700	4,782	4,451	5,119	4,607	4,964	4,859	52,278
Perak	13,532	15,740	20,579	17,898	23,347	17,865	19,205	18,961	18,046	19,050	18,388	16,433	219,044
Selangor Darul Ehsan	4,866	6,605	6,894	6,807	7,300	7,286	9,942	7,355	6,264	6,811	8,157	8,679	86,966
Negeri Sembilan	26	27	29	36	34	30	25	32	31	29	25	25	349
Melaka	233	162	164	173	163	207	200	194	217	184	235	231	2,363
Johor Barat/West Johore	1,480	1,616	1,279	1,347	1,309	1,618	1,434	1,540	1,425	1,302	1,482	1,025	16,857
Jumlah Kecil/Sub Total	35,614	36,654	48,309	41,898	47,451	40,935	47,178	42,860	42,577	43,942	43,268	39,785	510,471
Pantai Timur/East Coast:													
Kelantan	2,265	2,356	2,381	2,214	3,487	2,488	3,300	3,518	2,875	4,571	1,653	449	31,557
Terengganu	4,050	5,289	8,466	7,887	9,310	6,313	8,693	10,609	10,757	12,527	8,678	4,657	97,236
Pahang Darul Makmur	3,811	4,436	7,425	7,283	10,615	10,978	9,951	12,184	14,370	13,371	7,185	3,761	105,370
Johor Timur/East Johore	3,625	4,008	5,114	6,316	7,480	7,098	6,749	7,345	8,231	8,073	7,656	3,574	75,269
Jumlah Kecil/Sub Total	13,751	16,089	23,386	23,700	30,892	26,877	28,693	33,656	36,233	38,542	25,172	12,441	309,432
Malaysia:													
Semenanjung Malaysia/ Peninsular Malaysia	49,365	52,743	71,695	65,598	78,343	67,812	75,871	76,516	78,810	82,484	68,440	52,226	819,903
Sarawak	5,793	8,112	9,671	9,672	6,758	7,065	5,772	5,231	5,606	4,693	7,956	2,549	78,878
Sabah	3,835	3,517	4,030	3,583	3,606	3,707	3,517	3,332	3,857	4,295	3,770	3,711	44,760
W.Persekutuan Labuan/ Labuan Federal Territory	1,274	548	744	1,006	666	704	422	332	540	544	500	486	7,766
Jumlah Tan M/Total Tonnes	60,267	64,920	86,140	79,859	89,373	79,288	85,582	85,411	88,813	92,016	80,666	58,972	951,307

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN KUMPULAN PERKAKAS, 1990
LANDINGS OF MARINE FISH BY MONTH AND GEAR GROUP, 1990
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.3

15

Bulan/Month	Januari January	Februari February	Mac- March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Jumlah Tan M. Total Tonnes
Kumpulan Perkakas Gear Group													
Pukat-Pukat Tunda Trawl Nets	32,679	34,719	45,712	41,616	48,776	42,173	44,678	47,014	49,532	50,298	44,982	34,546	516,725
P.P. Tarik/Seine Nets: Pukat Jerut Ikan P.Seine-Fish	5,551	5,965	10,032	9,623	11,995	10,108	12,632	14,708	13,371	14,677	9,961	5,685	124,308
Pukat Jerut Bills P.Seine-Anchovy	831	1,409	4,740	2,126	3,000	1,873	3,458	2,130	2,992	4,171	2,276	1,739	30,745
Lain-Lain/Other Seines	1,659	891	1,544	1,498	1,982	2,103	1,787	1,524	1,106	1,204	1,626	1,214	18,138
Pukat-Pukat Hanyut Drift/Gill Nets	5,050	4,379	4,817	5,759	6,370	5,522	4,777	5,011	5,383	5,351	5,233	4,563	62,215
Pukat-Pukat Tangguk Lift Nets	87	262	322	733	818	547	503	614	1,158	1,138	181	17	6,380
Perangkap-Perangkap/Traps: Belat-Belat (Stationary)	37	40	41	51	77	85	97	81	79	85	95	103	871
Bubu (Portable)	461	725	535	484	483	560	634	509	661	493	591	421	6,557
Pancing/Hooks & Lines	1,181	1,383	1,455	1,613	1,930	1,284	1,298	1,705	1,428	1,750	1,062	729	16,818
Pukat-Pukat Bakul Bag Nets	1,272	2,155	1,769	1,577	2,216	2,762	3,326	2,013	2,010	2,473	1,618	2,592	25,783
Pukat-Pukat Rentang Barrier Nets	150	131	103	93	140	125	125	95	107	117	120	74	1,380
Pukat-Pukat Surung Push/Scoop Nets	152	492	214	148	218	234	255	442	294	223	252	201	3,125
Memungut Siput Shellfish Collection	234	165	387	250	318	417	193	513	631	470	425	317	4,320
Rampalan/Miscellaneous	21	27	24	27	20	19	2,108	157	58	34	18	25	2,538
Jumlah Tan M./Total Tonnes	49,365	52,743	71,695	65,598	78,343	67,812	75,871	76,516	78,810	82,484	68,440	52,226	819,903

MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT NEGERI DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY STATE AND SPECIES, 1990
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.4

ISSCAAP GROUP NO.	Spesies Species	Pantai Barat West Coast								Jumlah Total	Pantai Timur East Coast				Jumlah Total	Jumlah				Jumlah Besar Grand- Total
		Perlis	Kedah	P.Pinang Penang	Perak	Selangor	Negeri Sembilan	Melaka Malacca	J.Barat W.Johore		Kelantan	Terengganu	Pahang	J.Timur/ E.Johore		Sarawak	Sabah	W. P. Labuan	Total	
24	Kebasi/Selangat	549	620	183	1,258	230	1	24	275	3,140	0	0	35	32	67	119	673	2	794	4,001
	Puput/B. Mata/Tirok	0	317	130	2,368	1,730	3	32	370	4,950	0	0	89	14	103	1,342	0	4	1,346	6,399
	Terubok	0	0	0	33	1	0	0	7	41	0	0	0	0	0	794	373	0	1,167	1,208
25	Siakap	0	1	1	32	12	1	0	1	48	1	2	17	3	23	32	0	8	40	111
31	Lidah	474	985	115	140	117	0	0	72	1,903	30	54	65	47	196	54	160	8	222	2,321
	Sebelah	9	79	0	191	67	0	0	0	346	60	131	143	183	517	3	857	56	916	1,779
33	Bayan	0	0	0	1	0	0	0	0	1	0	13	18	4	35	0	0	0	0	36
	Biji Nangka	0	6	45	2,534	19	0	0	29	2,633	420	1,341	326	146	2,233	20	0	486	506	5,372
	Daun Baharu	0	0	0	25	47	5	2	13	92	15	28	15	44	102	26	619	8	653	847
	Delah/Pinang-Pinang	0	0	0	5	0	0	0	0	5	0	289	26	48	361	18	852	72	942	1,308
	Duri/Pulutan/Utik	46	382	520	1,812	588	7	74	227	3,656	179	874	1,040	1,185	3,278	2,258	736	34	3,028	9,962
	Dengkis/Debam	0	0	0	188	5	0	0	0	193	42	216	145	97	500	0	919	152	1,071	1,784
	Gelama/Tengkerong/Selampai	707	1,655	547	2,130	2,484	4	23	707	8,257	672	348	256	740	2,016	3,190	0	68	3,258	13,531
	Gerut-Gerut	69	96	18	199	154	1	9	14	560	78	34	11	23	146	42	828	28	898	1,604
	Jenahak	26	28	19	215	97	24	90	68	567	1	6	23	9	39	38	0	10	48	654
	Kaci	0	1	0	56	2	1	3	1	64	21	151	173	177	522	8	784	54	846	1,432
	Kerapu	130	468	76	1,198	85	4	20	15	1,998	79	632	308	317	1,330	126	784	168	1,078	4,404
	Kerisi	317	2,674	120	8,934	186	0	0	0	12,231	1,666	4,569	4,533	2,737	13,505	268	1,617	390	2,275	28,011
	Kerisi Bali	2	17	0	502	0	0	0	0	521	19	243	871	111	1,244	0	0	32	32	1,797
	Kikek	2	0	0	47	0	0	0	2	51	149	117	143	77	488	5	0	30	35	572
	Malong	159	115	48	191	499	1	38	455	1,508	8	47	122	29	206	892	1,074	0	1,966	3,678
	Merah	5	56	6	1,441	79	2	10	10	1,609	322	1,506	421	599	2,848	943	0	446	1,389	5,846
	Mengkerong/Conor/Ubi-Ubi	107	135	171	3,060	278	0	0	75	3,826	16	326	189	267	798	0	0	0	0	4,624
	Remong/Kunyit-Kunyit/Tanda	0	148	0	353	4	0	3	0	508	217	374	769	374	1,734	0	0	60	60	2,302
	Semilang	11	104	29	1,079	64	2	1	4	1,294	0	0	29	3	32	31	97	2	130	1,456
	Shrumbu/Lemah	0	0	0	0	0	0	0	0	0	0	2	0	0	2	100	0	14	114	116
	Puntong Damar/Bulus	182	112	4	418	49	6	2	0	773	162	200	444	156	962	0	0	0	0	1,735
	Pasir-Pasir/Timun-Timun	0	0	0	6	31	0	0	0	37	0	246	350	56	652	0	469	18	487	1,176

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

34	Alu-Alu/Kacang-Kacang	159	270	62	890	73	0	13	37	1,504	120	153	317	231	821	89	0	66	155	2,480
	Aruan Tasik	1	21	0	68	24	0	1	2	117	16	349	124	35	524	0	508	0	508	1,149
	Bawal	198	771	808	1,650	1,417	6	12	476	5,138	48	335	108	64	555	3,102	0	246	3,348	9,041
	Belanak/Kedera	32	282	662	885	189	0	10	10	2,070	0	0	2	2	4	45	0	8	51	2,125
	Cermin/Sagai/Cupak	0	0	1	135	19	3	19	25	202	249	512	539	412	1,712	99	1,268	128	1,495	3,409
	Cincaru	511	346	25	608	1,198	7	65	301	3,061	364	551	330	1,018	2,263	1,306	866	120	2,292	7,616
	Demudok/Rambai	4	132	1	1,347	514	0	0	0	1,998	316	209	128	161	814	156	663	78	897	3,709
	Kurau/Senangin/Senohong	5	104	34	429	173	2	42	68	857	3	2	32	25	62	639	4,405	0	5,044	5,963
	Peiata/Selar	1,098	580	655	1,239	745	3	0	85	4,405	1,559	4,048	905	1,625	8,135	607	0	16	623	13,163
	Selar Kuning/Lolong	839	387	54	1,674	80	0	0	7	3,041	2,742	6,105	5,793	3,248	17,888	955	0	546	1,501	22,430
	Selayang/Curut	6,054	646	4,430	4,109	319	0	0	0	15,558	2,637	27,911	1,340	3,006	34,894	0	532	560	1,092	51,544
	Pisang-Pisang	44	64	77	2	1	0	0	0	188	0	21	27	2	50	0	605	0	605	843
	Talang	19	162	0	139	76	2	21	23	442	40	0	10	79	129	333	1,007	36	1,376	1,947
35	Bilia/Bunga Air	0	16,560	0	8,877	0	0	0	32	25,469	6	3,009	936	108	4,057	1,330	1,050	14	2,394	31,920
	Parang-Parang	423	138	49	535	499	30	295	357	2,326	653	154	289	266	1,362	514	0	14	528	4,216
	Tamban	1,252	1,364	585	1,008	623	0	3	169	5,004	227	4,749	1,767	2,366	9,109	541	1,529	292	2,362	16,475
	Bulan-Bulan	0	0	0	0	0	0	0	0	0	0	8	23	0	31	0	0	2	2	33
36	Aya/Kayu/Tongkol	891	448	921	2,168	199	0	0	1	4,626	1,366	5,349	1,958	1,341	10,014	2,451	305	416	3,172	17,812
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	29	75	13	0	117	0	542	0	542	659
37	Kembong/Temenong/Pelaling	14,337	13,315	8,601	15,279	3,748	0	1	4	55,285	644	6,227	1,474	1,820	10,165	1,533	58	880	2,471	67,921
	Tenggiri	319	520	60	1,559	1,071	39	335	352	4,255	985	828	710	686	3,209	2,221	1,113	436	3,770	11,234
	Timah/Layor/Selayor	307	139	19	921	65	0	0	147	1,598	469	278	99	65	911	629	131	6	766	3,275
38	Pari	365	527	129	1,809	926	43	401	472	4,672	429	745	1,778	1,628	4,580	2,117	1,767	84	3,968	13,220
	Yu	65	82	16	421	160	2	21	12	759	11	303	546	578	1,438	1,865	0	78	1,943	4,140
39	Ikan Baja	5,404	27,957	25,840	94,449	34,541	0	0	4,385	192,578	4,092	11,445	58,213	36,304	110,054	6,176	2,071	32	8,279	310,909
	Ikan Campur	1,428	1,891	100	8,905	1,257	98	292	1,634	15,605	7,692	2,422	4,697	2,189	17,000	12,417	1,186	284	13,887	46,492
	Jebong	1	45	6	1,356	25	0	0	0	1,433	21	667	199	255	1,142	0	82	6	88	2,683
42	Ketam	772	373	402	840	1,014	14	1	89	3,505	72	236	690	526	1,524	145	2,585	34	2,764	7,793
45	Udang Karang/Lobok	0	0	0	33	24	0	0	0	57	0	79	186	184	449	10	63	112	185	691
	Udang Putih	181	578	691	1,308	438	27	86	491	3,800	120	5	22	99	246	2,523	1,797	36	4,356	8,402
	Udang Minyak	1	0	747	11,214	5,322	0	0	1,266	18,550	8	139	133	379	659	476	1,028	0	1,504	20,713
	Udang Merah Ros	27	0	1	0	1,241	0	0	7	1,278	0	0	28	0	28	0	468	14	482	1,786
	Udang Kulit Keras	1	0	183	918	1,561	0	0	272	2,935	368	123	891	266	1,648	1,578	4,212	214	6,004	10,587
	Udang Harimau	44	82	12	76	14	0	0	0	228	5	5	131	109	250	23	449	42	514	992
	Lain-Lain Jenis Udang	4,679	3,592	4,109	15,798	13,384	11	414	3,348	45,335	344	648	556	2,582	4,130	9,608	2,433	406	12,447	61,912
56	Siput/Kepah/Kupang/Tiram	731	2,652	24	282	786	0	0	0	4,475	0	0	0	0	0	175	53	0	228	4,703
57	Sotong Kereta	255	190	51	9	0	0	0	0	505	1	0	47	17	65	0	0	0	0	570
	Sotong Katak	768	663	93	2,686	834	0	0	88	5,132	130	824	4,369	2,121	7,444	233	228	68	529	13,105
	Sotong Biasa	2,196	3,550	372	7,002	1,409	0	0	231	14,760	1,640	6,975	5,399	3,998	18,012	2,056	914	344	3,314	36,086
76	Ubur-Ubur	0	0	626	0	6,169	0	0	121	6,916	0	0	0	0	0	12,615	0	0	12,615	19,531
	Jumlah Tan M/Total Tonnes	46,206	86,408	52,278	219,044	86,986	349	2,363	16,857	510,471	31,557	97,236	105,370	75,269	309,432	78,878	44,760	7,766	131,404	951,307

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 SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1990

JADUAL (TABLE) 4.5

ISSCAAP GROUP NO.	Jenis Ikan Species	Januari	Februari	Mac	April	Mei	Jun	Julai	Ogos	September	Oktober	November	Disember	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name	January	February	March	April	May	June	July	August	September	October	November	December	
	Species													
24	Kebasi/Selangat	262	315	456	293	224	235	184	215	219	226	330	248	3,207
	Puput/B. Mata/Tirok	251	345	494	331	422	396	486	493	506	521	411	397	5,053
	Terubok	12	11	8	4	2	1	1	1	1	0	0	0	41
25	Slakap	6	4	8	12	5	7	4	4	2	10	3	6	71
31	Lidah	124	126	263	191	236	180	201	193	193	149	121	122	2,099
	Sebelah	60	54	59	59	81	80	72	83	103	78	78	56	863
33	Bayan	2	1	1	4	2	4	4	5	5	3	4	1	36
	Blji Nangka	252	186	339	246	733	290	499	734	481	458	285	363	4,866
	Daun Baharu	10	9	12	8	25	22	15	20	17	20	25	11	194
	Delah/Pinang-Pinang	3	3	7	6	8	7	18	12	11	12	277	2	366
	Duri/Pulutan/Utik	456	670	503	572	660	523	612	569	587	644	742	396	6,934
	Dengkis/Debam	60	60	79	54	58	60	44	71	54	64	37	52	693
	Gelama/Tengkerong/Selampai	603	734	888	829	898	878	903	951	958	949	952	730	10,273
	Gerut-Gerut	44	52	70	36	52	46	93	44	69	90	56	54	706
	Jenahak	33	67	56	41	43	53	40	37	95	65	42	34	606
	Kaci	37	30	38	47	63	51	59	59	58	55	55	34	586
	Kerapu	217	286	310	226	296	252	330	290	311	293	272	243	3,326
	Kerisi	1,988	1,609	2,255	2,061	2,314	1,971	2,604	2,743	2,460	2,191	2,125	1,415	25,736
	Kerisi Bali	143	154	254	167	154	121	167	181	125	135	76	88	1,765
	Kikek	36	29	37	39	89	47	54	67	28	73	26	12	537
	Malong	112	96	144	128	135	130	117	130	140	197	193	190	1,712
	Merah	316	349	379	423	494	318	387	375	391	411	319	295	4,457
	Mengkerong/Conor/Ubi-Ubi	210	276	512	463	514	370	372	433	477	342	340	315	4,624
	Remong/Kunyit-Kunyit/Tanda	112	103	150	169	194	174	242	274	238	247	245	94	2,242
	Semilang	63	69	60	50	59	184	209	320	90	64	100	58	1,326
	Shrumbu/Lemah	0	0	0	0	0	1	0	0	0	0	1	0	2
	Puntong Damar/Bulus	71	159	267	117	143	162	159	138	131	139	138	111	1,735
	Pasir-Pasir/Timun	31	54	49	31	56	77	67	81	42	94	84	23	689

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

34	Alu-Alu/Kacang-Kacang	157	167	220	174	260	233	230	230	199	176	152	127	2,325
	Aruan Tasik	26	61	31	66	80	51	83	62	64	61	29	27	641
	Bawal	267	364	538	625	359	331	396	539	531	630	613	500	5,693
	Belanak/Kedera	190	170	82	118	117	175	116	144	177	213	382	190	2,074
	Cermin/Sagai/Cupak	98	102	141	168	226	127	214	208	217	156	178	79	1,914
	Cincaru	346	268	503	502	483	470	371	579	434	573	462	333	5,324
	Demudok/Rambai	180	222	222	229	271	219	239	225	388	268	190	159	2,812
	Kurau/Senangin/Senohong	65	66	77	78	75	87	73	91	81	69	84	73	919
	Pelata/Selar	697	664	1,051	1,419	1,257	1,185	1,311	1,005	961	1,206	995	789	12,540
	Selar Kuning/Lolong	830	1,325	1,646	1,702	2,491	1,826	1,964	2,248	2,188	2,454	1,412	843	20,929
	Selayang/Curut	2,113	1,326	3,738	3,399	4,746	2,794	4,262	6,637	7,046	7,484	4,547	2,360	50,452
	Pisang-Pisang	2	1	4	8	79	15	17	58	18	24	5	7	238
	Talang	40	37	34	25	34	90	24	51	59	114	39	24	571
35	Bilis/Bunga Air	858	1,417	4,724	2,091	2,683	1,823	2,885	2,192	2,993	3,896	2,221	1,743	29,526
	Parang-Parang	266	256	323	317	353	317	368	311	339	330	295	213	3,688
	Tamban	382	661	1,292	1,181	1,956	1,489	1,963	1,520	1,247	1,109	872	441	14,113
	Bulan-Bulan	0	0	1	1	1	15	2	1	1	1	7	1	31
36	Aya/Kayu/Tongkol	456	1,063	1,313	1,108	1,912	1,112	1,841	1,725	1,593	1,283	771	463	14,640
	Layaran/Marsuji	9	9	12	12	9	29	17	7	5	3	3	2	117
37	Kembong/Temenong/Pelaling	4,705	4,337	4,977	5,668	6,249	6,053	6,085	6,202	5,553	6,229	5,075	4,317	65,450
	Tenggiri	709	558	581	548	664	555	546	651	682	673	738	559	7,464
	Timah/Layor/Selayor	201	197	265	157	256	130	158	276	375	188	182	124	2,509
38	Pari	698	511	747	750	836	828	877	818	925	722	920	620	9,252
	Yu	105	90	151	163	252	196	272	246	256	177	191	98	2,197
39	Ikan Baja	18,543	20,176	24,103	23,478	27,992	26,364	26,017	27,803	28,926	31,177	27,504	20,547	302,630
	Ikan Campur	2,243	2,411	2,903	2,720	3,781	2,901	3,177	2,904	2,703	2,817	2,519	1,526	32,605
	Jebong	200	235	311	219	244	196	204	213	245	200	184	124	2,575
42	Ketam	307	351	534	293	294	468	502	463	578	434	440	365	5,029
45	Udang Karang/Lobok	32	40	43	30	34	37	58	47	48	46	52	39	506
	Udang Putih	375	367	362	265	424	379	364	314	291	308	292	305	4,046
	Udang Minyak	1,754	1,304	1,838	1,661	1,718	1,344	1,380	1,474	1,486	1,328	2,001	1,921	19,209
	Udang Merah Ros	37	49	172	37	78	96	134	125	266	140	52	118	1,304
	Udang Kulit Keras	447	513	323	474	445	304	307	291	384	295	356	444	4,583
	Udang Harimau	44	47	58	39	29	43	36	32	35	23	37	55	478
	Lain-Lain Jenis Udang	4,009	4,567	5,407	3,760	4,772	5,377	3,399	3,462	3,689	4,247	3,540	3,236	49,465
56	Siput/Kepah/Kupang/Tiram	339	213	387	250	318	417	193	513	631	472	425	317	4,475
57	Sotong Kereta	66	41	97	59	59	32	24	32	63	45	24	28	570
	Sotong Katak	807	898	1,018	1,060	1,092	908	1,138	1,017	1,144	1,675	1,146	673	12,576
	Sotong Biasa	1,244	1,741	3,734	4,137	3,446	2,156	2,443	2,999	3,651	3,602	2,048	1,571	32,772
76	Ubur-Ubur	4	67	34	0	8	0	4,238	278	546	106	120	1,515	6,916
	Jumlah Tan M/Total Tonnes	49,365	52,743	71,695	65,598	78,343	67,812	75,871	76,516	78,810	82,484	68,440	52,226	819,903

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST OF PENINSULAR MALAYSIA JADUAL (TABLE) 4.5.1
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1990

ISSCAAP GROUP NO.	Jenis Ikan Species	Januari	Februari	Mac	April	Mei	Jun	Julai	Ogos	September	Oktober	November	Disember	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name	January	February	March	April	May	June	July	August	September	October	November	December	
	Species													
24	Kebasi/Selangat	250	306	455	290	221	232	166	213	218	226	327	236	3,140
	Puput/B. Mata/Tirok	235	319	479	320	410	386	476	493	505	521	410	396	4,950
	Terubok	12	11	8	4	2	1	1	1	1	0	0	0	41
25	Siakap	4	2	6	10	2	3	2	3	1	8	1	6	48
31	Lidah	108	115	249	178	213	154	189	172	171	138	114	102	1,903
	Sebelah	24	29	21	22	25	40	28	35	31	27	35	29	346
33	Bayan	1	0	0	0	0	0	0	0	0	0	0	0	1
	Biji Nangka	127	103	218	70	504	144	281	320	158	207	202	299	2,633
	Daun Baharu	2	6	3	2	12	5	6	9	12	12	16	7	92
	Delah/Pinang-Pinang	0	0	4	0	0	0	1	0	0	0	0	0	5
	Duri/Pulutan/Utik	308	476	281	354	298	329	276	239	268	273	264	290	3,656
	Dengkis/Debam	20	18	21	6	13	20	13	20	13	17	13	19	193
	Gelama/Tengkerong/Selampai	467	609	697	717	735	725	708	737	720	750	779	613	8,257
	Gerut-Gerut	32	49	61	28	39	37	38	39	61	75	50	51	560
	Jenahak	32	65	54	38	39	47	38	35	92	56	39	32	567
	Kaci	13	7	6	5	3	3	5	3	4	6	6	3	64
	Kerapu	129	176	214	126	168	152	179	151	184	157	170	190	1,996
	Kerisi	1,311	943	1,329	1,116	996	970	1,190	860	917	753	866	980	12,231
	Kerisi Bali	40	52	82	49	44	34	40	53	45	36	22	24	521
	Kikek	6	7	13	0	2	6	3	0	6	2	1	5	51
	Malong	100	77	123	112	115	98	102	112	124	181	182	180	1,506
	Merah	111	133	169	113	194	112	137	122	174	123	109	112	1,609
	Mengkerong/Conor/Ubi-Ubi	174	212	422	345	417	306	331	338	436	300	272	273	3,826
	Remong/Kunyit-Kunyit/Tanda	36	28	44	36	25	34	41	27	36	61	98	42	508
	Semilang	62	66	59	47	47	182	208	319	83	64	99	58	1,294
	Shrumbu/Lemah	0	0	0	0	0	0	0	0	0	0	0	0	0
	Puntong Damar/Bulus	30	56	133	56	60	52	75	53	63	67	75	53	773
	Pasir-Pasir/Timun	1	2	2	3	4	3	3	7	3	5	3	1	37

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

34	Alu-Alu/Kacang-Kacang	116	120	168	112	178	160	113	121	122	95	102	97	1,504
	Aruan Tasik	9	7	8	13	11	10	18	7	11	7	8	8	117
	Bawal	256	351	470	613	339	299	374	393	415	618	596	414	5,138
	Belanak/Kedera	190	170	82	117	117	174	115	144	177	213	382	189	2,070
	Cermin/Sagai/Cupak	16	21	9	36	38	11	10	16	5	4	20	16	202
	Cincaru	188	110	232	168	212	304	214	339	264	460	295	275	3,061
	Demudok/Rambai	147	153	180	164	180	163	138	134	282	174	134	149	1,998
	Kurau/Senangin/Senohong	62	62	67	62	67	82	71	87	74	68	82	73	857
	Pelata/Selar	251	222	223	364	399	477	742	466	275	417	315	254	4,405
	Selar Kuning/Lolong	241	239	164	206	307	262	319	230	255	269	305	244	3,041
	Selayang/Curut	1,156	455	1,345	1,729	2,372	968	1,490	1,170	1,767	1,114	890	1,102	15,558
	Pisang-Pisang	0	0	0	0	77	13	7	52	17	17	1	4	188
	Talang	34	32	28	20	20	39	19	46	50	97	34	23	442
35	Billis/Bunga Air	857	1,415	4,636	1,969	2,466	1,689	2,455	2,007	2,082	2,008	2,144	1,741	25,469
	Parang-Parang	192	173	216	173	163	176	222	199	223	202	192	195	2,326
	Tamban	320	329	537	254	226	335	488	581	416	495	636	387	5,004
	Bulan-Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	169	316	283	360	533	396	467	870	473	350	171	238	4,626
	Layaran/Marsuji	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	4,174	3,663	4,015	4,633	4,780	4,920	5,235	5,368	4,856	5,407	4,376	3,858	55,285
	Tenggiri	386	301	303	314	306	335	330	324	444	374	405	433	4,255
	Timah/Layor/Selayor	122	87	193	55	93	68	103	222	285	133	122	115	1,598
38	Pari	446	337	389	312	366	412	457	358	443	348	454	350	4,672
	Yu	52	40	67	66	67	57	70	61	105	54	73	47	759
39	Ikan Baja	13,597	14,892	17,175	16,951	18,612	15,143	16,037	15,887	14,508	16,996	17,279	15,499	192,576
	Ikan Campur	1,160	1,103	1,526	1,294	1,523	1,230	1,659	1,262	1,276	1,219	1,238	1,115	15,605
	Jebong	114	115	212	114	138	99	122	110	118	137	64	90	1,433
42	Ketam	263	315	485	240	218	273	250	261	338	272	331	259	3,505
45	Udang Karang/Lobok	4	15	2	1	1	1	24	2	2	1	2	2	57
	Udang Putih	273	342	352	260	419	376	350	310	287	276	283	272	3,800
	Udang Minyak	1,656	1,247	1,783	1,642	1,690	1,332	1,374	1,470	1,476	1,304	1,983	1,593	18,550
	Udang Merah Ros	37	49	157	37	78	83	134	125	266	140	52	118	1,276
	Udang Kulit Keras	133	162	150	253	415	200	251	245	327	229	282	288	2,935
	Udang Harimau	23	30	47	18	12	9	19	18	17	11	14	10	228
	Lain-Lain Jenis Udang	3,637	4,247	5,177	3,575	4,630	5,123	3,094	2,991	2,970	3,722	3,422	2,747	45,335
56	Siput/Kepah/Kupang/Tiram	339	213	387	250	318	417	193	513	631	472	425	317	4,475
57	Sotong Kereta	64	36	89	55	54	28	20	26	53	34	20	26	505
	Sotong Katak	383	334	496	362	405	352	410	406	521	476	584	403	5,132
	Sotong Biasa	908	1,017	1,469	1,059	1,025	844	1,008	1,400	1,874	1,558	1,280	1,318	14,760
76	Ubur-Ubur	4	67	34	0	8	0	4,238	278	546	106	120	1,515	6,916
	Jumlah Tan M/Total Tonnes	35,614	36,654	48,309	41,898	47,451	40,935	47,177	42,860	42,577	43,942	43,269	39,785	510,471

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA JADUAL (TABLE) 4.5.2
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1990

ISSCAAP GROUP NO.	Spesies Ikan Species	Januari	Februari	Mac	April	Mei	Jun	Julai	Ogos	September	Oktober	November	Disember	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name	January	February	March	April	May	June	July	August	September	October	November	December	
	Species													
24	Kebasi/Selangat	12	9	1	3	3	3	18	2	1	0	3	12	67
	Puput/B. Mata/Tirok	16	26	15	11	12	10	10	0	1	0	1	1	103
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Slakap	2	2	2	2	3	4	2	1	1	2	2	0	23
31	Lidah	16	11	14	13	23	26	12	21	22	11	7	20	196
	Sebelah	36	25	38	37	56	40	44	48	72	51	43	27	517
33	Bayan	1	1	1	4	2	4	4	5	5	3	4	1	35
	Blji Nangka	125	83	121	176	229	146	218	414	323	251	83	64	2,233
	Daun Baharu	8	3	9	6	13	17	9	11	5	8	9	4	102
	Delah/Plang-Pinang	3	3	3	6	8	7	17	12	11	12	277	2	361
	Duri/Pulutan/Utik	148	194	222	218	362	194	336	330	319	371	478	106	3,278
	Dengkis/Debam	40	42	58	48	45	40	31	51	41	47	24	33	500
	Gelama/Tengkerong/Selampai	136	125	191	112	163	153	195	214	238	199	173	117	2,016
	Gerut-Gerut	12	3	9	8	13	9	55	5	8	15	6	3	146
	Jenahak	1	2	2	3	4	6	2	2	3	9	3	2	39
	Kaci	24	23	32	42	60	48	54	56	54	49	49	31	522
	Kerapu	88	110	96	100	128	100	151	139	127	136	102	53	1,330
	Kerisi	677	666	926	945	1,318	1,001	1,414	1,883	1,543	1,438	1,259	435	13,505
	Kerisi Ball	103	102	172	118	110	87	127	128	80	99	54	64	1,244
	Kikek	30	22	24	39	87	41	51	67	22	71	25	7	486
	Malong	12	19	21	16	20	32	15	18	16	16	11	10	206
	Merah	205	216	210	310	300	206	250	253	217	288	210	183	2,848
	Mengkerong/Conor/Ubl-Ubl	36	64	90	118	97	64	41	95	41	42	68	42	798
	Remong/Kunyit-Kunyit/Tanda	76	75	106	133	169	140	201	247	202	186	147	52	1,734
	Semilang	1	3	1	3	12	2	1	1	7	0	1	0	32
	Shrumbu/Lemah	0	0	0	0	0	1	0	0	0	0	1	0	2
	Puntong Damar/Bulus	41	103	134	61	83	110	84	85	68	72	63	58	962
	Pasir-Pasir/Timun	30	52	47	28	52	74	64	74	39	89	81	22	652

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

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

34	Alu-Alu/Kacang-Kacang	41	47	52	62	82	73	117	109	77	81	50	30	821
	Aruan Tasik	17	54	23	53	69	41	65	55	53	54	21	19	524
	Bawal	11	13	68	12	20	32	22	146	116	12	17	86	555
	Belanak/Kedera	0	0	0	1	0	1	1	0	0	0	0	1	4
	Cermin/Sagai/Cupak	82	81	132	132	188	116	204	192	212	152	158	63	1,712
	Cincaru	158	158	271	334	271	166	157	240	170	113	167	58	2,263
	Demudok/Rambai	33	69	42	65	91	56	101	91	106	94	56	10	814
	Kurau/Senangin/Senohong	3	4	10	16	8	5	2	4	7	1	2	0	62
	Pelata/Selar	446	442	828	1,055	858	708	569	539	686	789	680	535	8,135
	Selar Kuning/Lolong	589	1,086	1,482	1,496	2,184	1,564	1,645	2,018	1,933	2,185	1,107	599	17,888
	Selayang/Curut	957	871	2,393	1,670	2,374	1,826	2,772	5,467	5,279	6,370	3,657	1,258	34,894
	Pisang-Pisang	2	1	4	8	2	2	10	6	1	7	4	3	50
	Talang	6	5	6	5	14	51	5	5	9	17	5	1	129
35	Billis/Bunga Air	1	2	88	122	217	134	430	185	911	1,888	77	2	4,057
	Parang-Parang	74	83	107	144	190	141	146	112	116	128	103	18	1,362
	Tamban	62	332	755	927	1,730	1,154	1,475	939	831	614	236	54	9,109
	Bulan-Bulan	0	0	1	1	1	15	2	1	1	1	7	1	31
36	Aya/Kayu/Tongkol	287	747	1,030	748	1,379	716	1,374	855	1,120	933	600	225	10,014
	Layaran/Marsuji	9	9	12	12	9	29	17	7	5	3	3	2	117
37	Kembong/Temenong/Pelaling	531	674	962	1,035	1,469	1,133	850	834	697	822	699	459	10,165
	Tenggiri	323	257	278	234	358	220	216	327	238	299	333	126	3,209
	Timah/Layor/Selayor	79	110	72	102	163	62	55	54	90	55	60	9	911
38	Pari	252	174	358	438	470	416	420	460	482	374	466	270	4,580
	Yu	53	50	84	97	185	139	202	185	151	123	118	51	1,438
39	Ikan Baja	4,946	5,284	6,928	6,527	9,380	11,221	9,980	11,916	14,418	14,181	10,225	5,048	110,054
	Ikan Campur	1,083	1,308	1,377	1,426	2,258	1,671	1,518	1,642	1,427	1,598	1,281	411	17,000
	Jebong	86	120	99	105	106	97	82	103	127	63	120	34	1,142
42	Ketam	44	36	49	53	76	195	252	202	240	162	109	106	1,524
45	Udang Karang/Lobok	28	25	41	29	33	36	34	45	46	45	50	37	449
	Udang Putih	102	25	10	5	5	3	14	4	4	32	9	33	246
	Udang Minyak	98	57	55	19	28	12	6	4	10	24	18	328	659
	Udang Merah Ros	0	0	15	0	0	13	0	0	0	0	0	0	28
	Udang Kulit Keras	314	351	173	221	30	104	56	46	57	66	74	156	1,648
	Udang Harimau	21	17	11	21	17	34	17	14	18	12	23	45	250
	Lain-Lain Jenis Udang	372	320	230	185	142	254	305	471	719	525	118	489	4,130
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Sotong Kereta	2	5	8	4	5	4	4	6	10	11	4	2	65
	Sotong Katak	424	564	522	698	687	556	728	611	623	1,199	562	270	7,444
	Sotong Biasa	336	724	2,265	3,078	2,421	1,312	1,435	1,599	1,777	2,044	768	253	18,012
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	13,751	16,089	23,386	23,700	30,892	26,877	28,694	33,656	36,233	38,542	25,171	12,441	309,432

SARAWAK
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1990
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL(TABLE) 4.5.3

ISSCAAP GROUP NO.	Bulan/Month	Januari	Februari	Mac	April	Mei	Jun	Julai	Ogos	September	Oktober	November	Disember	Jumlah (Tan M) Total
	Jenis Ikan Species	January	February	March	April	May	June	July	August	September	October	November	December	
24	Kebasi/Selangat	8	7	7	14	13	18	11	11	7	4	4	15	119
	Puput/B. Mata/Tirok	24	81	74	161	124	98	151	81	215	78	59	42	1,188
	Terubok	24	51	63	89	93	112	114	119	88	21	12	8	794
25	Siakap	0	5	5	4	3	5	4	2	2	1	1	0	32
31	Lidah	16	10	10	1	4	4	2	2	2	1	1	1	54
	Sebelah	0	0	0	0	0	0	0	0	0	3	0	0	3
33	Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biji Nangka	0	8	3	1	2	2	3	1	0	0	0	0	20
	Daun Baharu	4	7	1	5	5	1	0	1	0	2	0	0	26
	Delah/Pinang-Pinang	1	2	1	2	1	3	3	3	2	0	0	0	18
	Duri/Pulutan/Utik	111	197	175	226	290	326	217	133	258	118	118	89	2,258
	Gelama/Tengkerong/Selampai	274	208	335	339	403	375	411	169	299	185	106	86	3,190
	Gerut-Gerut	6	5	5	4	6	4	4	4	2	2	0	0	42
	Jenahak	0	7	1	1	5	1	1	5	2	3	3	9	38
	Kaci	0	0	0	0	0	0	0	0	0	7	1	0	8
	Kerapu	6	7	1	17	12	10	10	11	24	15	9	4	126
	Kerisi	0	2	22	24	45	54	21	27	21	29	15	8	268
	Kerisi Bali	0	0	0	0	0	0	0	0	0	0	0	0	0
	Kikek	0	0	0	1	0	0	0	0	0	0	4	0	5
	Lumi-Lumi	65	273	76	95	76	130	112	75	21	12	17	17	969
	Malong	120	103	108	101	95	60	43	38	35	66	88	35	892
	Merah	31	16	28	33	46	160	70	81	150	184	82	62	943
	Pelanduk	1	0	0	0	0	2	4	0	6	1	4	0	18
	Semilang	1	2	2	3	2	3	4	5	1	3	3	2	31
	Shrumbu/Lemah	10	25	17	21	2	3	9	5	0	1	1	6	100
	Kapas	1	3	6	11	11	4	13	4	2	6	2	0	63
34	Alu-Alu/Kacang-Kacang	3	2	0	7	7	7	31	5	3	16	8	0	89
	Bawal	100	117	276	533	319	279	274	251	328	100	76	56	2,709
	Belanak/Kedera	2	3	3	5	7	6	4	2	2	1	5	5	45
	Cermin/Sagai/Cupak	5	5	17	25	34	1	7	3	2	0	0	0	99
	Gerongga	4	7	18	29	41	9	23	7	26	23	13	6	206
	Cincaru	55	121	187	234	175	128	80	95	100	57	36	38	1,306
	Demudok/Rambai	2	2	27	18	17	15	11	43	6	9	3	3	156
	Kurau/Senangin/Senohong	13	31	45	61	56	120	72	70	48	25	7	12	560
	Pelata/Selar	13	18	22	28	135	21	123	109	83	13	21	21	607

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

25	Selar Kuning/Lolong	24	128	243'	292	59	70	41	44	17	16	21	0	955
	Selayang/Curut	0	0	0	0	0	0	0	0	0	0	0	0	0
	Talang	10	23	38	46	26	22	44	21	23	13	5	62	333
	Todak/Banang	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tamban	28	10	28	39	63	68	35	27	67	38	55	83	541
	35 Bilis/Bunga Air	37	17	35	42	54	67	25	5	3	2	0	66	353
	Parang-Parang	14	11	34	44	81	81	48	45	25	58	39	34	514
	Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0
	36 Aya/Kayu/Tongkol	107	198	370	308	168	210	272	326	184	195	75	38	2,451
	37 Kembong/Temenong/Pelaling	24	64	100	145	137	170	145	153	251	109	98	137	1,533
	Tenggiri	73	79	219	193	196	235	288	296	309	164	96	73	2,221
	Timah/Layor/Selayor	25	23	6	39	49	57	58	73	145	67	44	43	629
	38 Pari	184	73	169	231	280	215	183	172	204	202	111	93	2,117
	Yu	81	96	247	166	183	215	177	212	184	147	98	59	1,865
	39 Ikan Baja	559	525	944	681	1,031	406	393	256	319	612	349	101	6,176
	Ikan Campur	474	520	424	918	921	1,152	746	881	707	791	394	304	8,232
	42 Ketam	16	27	10	16	15	13	12	6	5	4	6	15	145
	45 Udang Karang/Lobok	2	1	2	2	1	1	0	0	0	1	0	0	10
	Udang Harimau	5	4	0	0	0	0	9	2	1	0	2	0	23
	Udang Putih	441	371	272	185	183	196	167	159	144	167	162	76	2,523
	Udang Sua Lor	50	36	13	3	4	11	3	3	7	21	59	15	225
	Udang Merah Ros	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Kulit Keras	251	264	155	111	102	113	112	88	104	73	90	115	1,578
	Udang Kuning	3	2	5	1	1	0	1	1	2	3	5	9	33
	Udang Cendana/Rotan	0	0	55	0	0	0	0	0	1	0	37	0	93
	Udang Merah/Payak	1,310	2,652	1,648	584	399	465	338	326	321	225	213	236	8,717
	Udang Pasir	0	0	0	0	0	0	0	0	0	8	0	0	8
	Udang Minyak	86	165	42	37	33	34	42	25	10	1	0	1	476
	Lain-Lain Jenis Udang	55	29	17	37	29	66	145	21	118	6	4	3	530
	56 Siput/Kepah/Kupang/Tiram	0	1	0	140	0	21	0	0	2	0	7	2	173
	Sotong Kereta	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sotong Katak	10	25	40	41	25	37	14	19	8	9	3	2	233
	57 Sotong Biasa	60	140	577	711	129	90	69	52	106	55	34	29	2,052
	76 Ubur-Ubur	829	908	1,850	2,029	8	478	7	219	181	576	5,161	369	12,615
	Jamah	42	175	303	240	147	258	196	138	156	51	24	12	1,742
	Perencong	2	29	11	27	49	43	25	17	13	5	3	0	224
	Panjang	4	25	24	30	16	11	18	30	16	11	8	7	200
	Pelayak	3	7	25	16	14	53	27	17	12	8	4	7	193
	Impirang	29	75	117	113	82	132	127	135	127	20	13	7	977
	Bulu Ayam	16	47	24	48	163	47	70	54	56	34	14	7	580
	Kilat	17	18	73	36	54	30	75	20	23	6	22	19	393
	Bulu	17	12	6	5	6	18	6	4	3	1	1	0	79
	Empirit	5	7	10	23	21	19	22	22	17	8	0	0	154
	Jumlah Tan M/Total Tonnes	5,793	8,112	9,671	9,672	6,758	7,065	5,772	5,231	5,606	4,693	7,956	2,549	78,878

WILAYAH PERSEKUTUAN LABUAN/LABUAN FEDERAL TERRITORY
PENDARATAN IKAN LAUT MENGIKUT BULAN DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY MONTH AND SPECIES, 1990
(Kuantiti Dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.5.4...

ISSCAAP GROUP NO	Jenis Ikan Species	Januari	Februari	Mac	April	Mei	Jun	Julai	Ogos	September	Oktober	November	Disember	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name	January	February	March	April	May	June	July	August	September	October	November	December	
24	Kebasi/Selangat	0	0	0	0	0	0	0	0	0	0	1	0	1
	Puput/B. Mata/Tirok	0	0	0	2	0	0	0	0	0	0	0	0	2
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Slakap	0	0	0	0	0	0	0	0	2	0	2	0	4
31	Lidah	1	0	0	0	0	0	0	0	2	0	1	0	4
	Sebelah	2	0	1	1	1	1	3	5	5	3	3	3	28
33	Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biji Nangka	74	0	11	15	11	11	23	34	28	36	0	0	243
	Daun Baharu	3	0	0	0	0	0	0	0	0	0	1	0	4
	Delah/Pinang-Pinang	3	10	1	4	3	0	4	5	6	0	0	0	36
	Duri/Pulutan/Utik	8	0	0	0	0	0	1	0	0	1	3	4	17
	Dengkis/Debam	13	6	4	7	6	4	6	1	13	7	3	6	76
	Gelama/Tengkerong/Selampai	10	0	2	8	3	3	0	1	1	1	4	1	34
	Gerut-Gerut	3	1	0	0	3	2	0	2	2	0	1	0	14
	Jenahak	0	0	1	0	0	0	0	0	0	4	0	0	5
	Kaci	0	0	0	0	1	1	2	1	5	14	2	1	27
	Kerapu	7	1	1	1	14	10	7	8	7	5	10	13	84
	Kerisi	28	0	13	36	18	11	16	32	21	0	6	14	195
	Kerisi Bali	0	0	0	0	0	0	0	0	0	0	4	12	16
	Kikek	10	1	0	3	0	0	0	0	0	0	0	1	15
	Malong	0	0	0	0	0	0	0	0	0	0	0	0	0
	Merah	19	2	6	38	19	33	14	6	11	18	14	43	223
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0	0	0	0	0	0	0	0
	Remong/Kunyt-Kunyt/Tanda	1	1	5	4	1	9	1	1	1	0	2	4	30
	Semilang	0	0	0	0	0	0	0	0	1	0	0	0	1
	Shrumbu/Lemah	0	6	1	0	0	0	0	0	0	0	0	0	7
	Puntong Damar/Bulus	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pasir-Pasir/Timun	3	1	1	0	0	3	0	0	0	0	1	0	9

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

34	Alu-Alu/Kacang-Kacang	4	0	0	0	0	0	2	5	1	4	12	5	33
	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	62	30	4	1	1	0	1	6	5	9	2	2	123
	Belanak/Kedera	0	0	0	0	0	0	0	0	0	0	3	0	3
	Cernin/Sagai/Cupak	9	15	4	1	9	10	2	0	1	10	1	2	64
	Cincaru	13	0	3	3	10	7	3	1	12	4	1	3	60
	Demudok/Rambai	6	2	9	8	0	3	1	1	1	0	3	5	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	0	0	2	2	3	1	8
	Selar Kuning/Lolong	24	12	27	139	10	5	8	1	4	3	38	2	273
	Selayang/Curut	12	10	81	96	37	32	0	0	9	0	0	3	280
	Pisang-Pisang	0	0	0	0	0	0	0	0	0	0	0	0	0
	Talang	3	0	4	1	1	0	0	0	5	0	1	3	18
35	Bilis/Bunga Air	0	0	7	0	0	0	0	0	0	0	0	0	7
	Parang-Parang	1	0	1	1	2	0	1	0	0	0	1	0	7
	Tamban	0	0	0	0	58	66	5	1	0	3	10	3	146
	Bulan-Bulan	1	0	0	0	0	0	0	0	0	0	0	0	1
36	Aya/Kayu/Tongkol	17	16	12	8	7	2	8	4	15	57	43	19	208
	Layaran/Marsuji	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	94	71	64	46	37	30	27	5	32	21	3	10	440
	Tenggiri	15	18	29	30	21	22	15	4	22	7	17	12	242
	Timah/Layor/Selayor	0	3	0	0	0	0	0	0	0	0	0	0	3
38	Parl	6	20	1	2	3	3	0	2	3	0	1	1	42
	Yu	6	1	0	1	2	7	0	0	14	5	0	3	39
39	Ikan Baja	0	0	0	0	0	0	0	0	0	2	0	14	16
	Ikan Campur	16	9	14	7	13	5	12	5	10	31	12	8	142
	Jebong	1	0	0	0	1	1	0	0	0	0	0	0	3
42	Ketam	2	0	1	2	3	2	0	2	1	1	2	1	17
45	Udang Karang/Lobok	1	0	0	1	0	1	21	18	8	6	0	0	56
	Udang Putih	0	0	1	1	2	2	0	0	0	0	6	6	18
	Udang Minyak	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Merah Ros	0	0	0	0	0	0	2	0	0	2	2	1	7
	Udang Kulit Keras	15	7	19	9	14	30	3	4	3	3	0	0	107
	Udang Harimau	1	0	2	1	2	2	3	3	1	3	2	1	21
	Lain-Lain Jenis Udang	15	20	24	6	14	28	16	5	9	8	29	29	203
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	11	0	6	10	2	2	1	0	2	0	0	0	34
	Sotong Blasa	117	11	12	10	4	4	3	3	5	2	0	1	172
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	637	274	372	503	333	352	211	166	270	272	250	243	3,883

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1990
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6

ISSCAAP GROUP NO.	Jenis Ikan Species	Pukat Tunda Trawl Net	Pukat-Pukat Tarik/Seines Nets			Pukat Hanyut Drift/Gill Nets	Pukat Tangguk Lift Nets	Perangkap-perangkap Traps		Pancing Hooks and Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/Scoop Nets	Memungut Sliput Shellfish Collection	Rampaihan Miscel- laneous	Jumlah (Tan) Total (Tonnes)	
	Nama Tempatan Local Name		Pukat Jerut Ikan Seine Fish	Pukat Jerut Bilis Purse Seine Anchovy	Lain Pukat Tarik Other Seines			Belat- Belat Stationary	Bubu Portable								
24	Kebasi/Selangat	670	707	18	0	1,811	0	1	0	0	0	0	0	0	0	3,207	
	Puput/B. Mata/Tirok	3,073	147	0	0	1,833	0	0	0	0	0	0	0	0	0	5,053	
	Terubok	0	0	0	0	41	0	0	0	0	0	0	0	0	0	41	
25	Slakap	29	0	0	0	14	0	1	2	6	0	19	0	0	0	71	
31	Lidah	1,868	0	0	0	224	0	0	1	0	6	0	0	0	0	2,099	
33	Sebelah	841	0	0	0	18	0	0	4	0	0	0	0	0	0	863	
	Bayan	16	0	0	0	0	0	0	20	0	0	0	0	0	0	36	
	Biji Nangka	4,768	0	0	0	8	0	0	88	2	0	0	0	0	0	4,866	
	Daun Baharu	162	0	0	0	27	0	1	4	0	0	0	0	0	0	194	
	Delah/Pinang-Pinang	308	0	0	0	0	0	1	22	2	0	0	0	0	33	366	
	Duri/Pulutan/Utik	4,538	41	7	174	1,156	49	2	7	789	23	120	28	0	0	6,934	
	Dengkis/Debam	401	0	0	0	31	16	6	237	2	0	0	0	0	0	693	
	Gelema/Tengkerong/Selampai	7,394	0	48	131	2,444	0	2	67	93	36	54	4	0	0	10,273	
	Gerut-Gerut	506	0	0	1	74	0	0	34	90	0	1	0	0	0	706	
	Jenahak	297	0	0	0	19	0	1	94	195	0	0	0	0	0	606	
	Kaci	457	0	0	0	1	0	0	113	15	0	0	0	0	0	586	
	Kerapu	2,175	0	0	0	34	0	1	622	493	1	0	0	0	0	3,326	
	Kerisi	22,334	0	0	0	731	25	0	1,032	1,614	0	0	0	0	0	25,736	
	Kerisi Bali	1,482	0	0	0	0	0	0	142	141	0	0	0	0	0	1,765	
	Kikek	428	4	72	0	30	0	1	3	1	0	0	0	0	0	537	
	Malong	1,115	0	0	2	170	0	0	10	415	0	0	0	0	0	1,712	
	Merah	2,381	2	0	0	69	0	2	1,480	523	0	0	0	0	0	4,457	
	Mengkerong/Conor/Ubi-Ubi	4,613	0	0	0	11	0	0	0	0	0	0	0	0	0	4,624	
	Remong/Kunyit-Kunyit/Tanda	1,777	13	0	0	55	0	1	321	75	0	0	0	0	0	2,242	
	Semilang	873	0	0	11	78	0	3	57	28	1	275	0	0	0	1,326	
	Shrumbu/Lemah	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
	Puntong Damar/Bulus	1,417	0	0	3	300	0	0	0	15	0	0	0	0	0	1,735	
	Pasir-Pasir/Timun-Timun	483	0	0	0	4	0	0	194	8	0	0	0	0	0	689	

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

34	Alu-Aku/Kacang-Kacang	1,895	117	0	0	188	0	10	4	110	0	0	0	0	1	2,325
	Aruan Tasik	244	10	0	0	89	0	0	28	270	0	0	0	0	0	641
	Bawal	3,447	871	0	0	1,354	0	11	0	6	4	0	0	0	0	5,693
	Belanak/Kedera	409	364	0	22	1,227	0	4	0	0	7	41	0	0	0	2,074
	Cermin/Sagai/Cupak	1,358	83	1	0	269	0	2	57	142	0	0	0	0	2	1,914
	Cincaru	2,635	1,442	1	0	631	3	0	4	608	0	0	0	0	0	5,324
	Demudok/Rambal	2,037	180	0	0	213	0	0	109	267	0	0	0	0	6	2,812
	Kurau/Senangin/Senohong	188	0	0	3	696	0	0	0	32	0	0	0	0	0	919
	Pelata/Selar	3,475	6,598	3	0	855	66	3	6	1,528	5	0	0	0	0	12,540
	Selar Kuning/Lolong	8,826	7,793	168	0	171	3,878	63	21	9	0	0	0	0	0	20,929
	Selayang/Curut	2,105	47,643	30	0	0	547	0	0	122	0	0	5	0	0	50,452
	Pisang-Pisang	17	186	0	0	4	0	0	6	23	0	0	0	0	2	238
	Talang	236	10	0	0	249	0	1	0	75	0	0	0	0	0	571
35	Blila/Bunga Air	273	193	28,973	6	0	0	81	0	0	0	0	0	0	0	29,526
	Parang-Parang	1,826	0	0	0	1,851	0	2	0	9	0	0	0	0	0	3,688
	Tamban	1,523	10,124	1,273	0	488	589	47	0	11	0	0	58	0	0	14,113
	Bulan-Bulan	8	3	0	0	7	0	0	0	13	0	0	0	0	0	31
36	Aya/Kayu/Tongkol	44	8,086	1	0	1,904	30	0	17	4,558	0	0	0	0	0	14,640
	Layaran/Mersuji	7	0	0	0	25	0	0	0	85	0	0	0	0	0	117
37	Kembong/Temenong/Pelaling	17,437	28,826	27	2	18,962	46	9	2	138	0	0	1	0	0	65,450
	Tenggiri	2,267	216	0	0	3,384	0	0	0	1,597	0	0	0	0	0	7,464
	Timah/Layor/Selayor	1,915	2	0	0	588	0	0	0	1	3	0	0	0	0	2,509
38	Pari	7,579	17	0	27	821	0	3	53	744	2	6	0	0	0	9,252
	Yu	1,727	1	2	0	294	0	0	7	166	0	0	0	0	0	2,197
39	Ikan Baja	278,654	4,357	120	7,993	5,741	0	16	0	0	4,548	378	822	0	1	302,630
	Ikan Campur	21,578	5,969	1	37	4,048	89	55	269	474	59	24	2	0	0	32,605
	Jebong	1,882	0	0	4	3	0	0	685	1	0	0	0	0	0	2,575
42	Ketam	3,402	25	0	23	797	0	22	191	0	5	306	13	0	245	5,029
45	Udang Karang/Lobok	498	0	0	0	2	0	1	5	0	0	0	0	0	0	506
	Udang Putih	1,381	0	0	34	2,605	0	1	0	0	20	0	5	0	0	4,046
	Udang Minyak	12,664	0	0	4,829	191	0	0	0	0	1,359	12	154	0	0	19,209
	Udang Merah Ros	1,280	0	0	1	7	0	0	0	0	16	0	0	0	0	1,304
	Udang Kulit Keras	4,120	0	0	228	47	0	0	0	0	149	0	39	0	0	4,583
	Udang Harimau	399	0	0	12	44	0	0	0	0	8	0	15	0	0	478
	Lain-Lain Jenis Udang	22,395	0	0	4,582	4,510	0	485	0	0	15,481	144	1,864	0	4	49,465
56	Siput/Kepah/Kupang/Tiram	155	0	0	0	0	0	0	0	0	0	0	0	4,320	0	4,475
57	Sotong Kereta	499	0	0	12	52	0	0	0	0	7	0	0	0	0	570
	Sotong Katak	12,063	0	0	1	26	0	1	470	0	15	0	0	0	0	12,576
	Sotong Blasa	29,867	278	0	0	22	1,042	30	69	1,322	27	0	115	0	0	32,772
76	Ubur-Ubur	4	0	0	0	667	0	1	0	0	4,001	0	0	0	2,243	6,916
	Jumlah Tan M/Total Tonnes	516,725	124,308	30,745	18,138	62,215	6,380	871	6,557	16,818	25,783	1,380	3,125	4,320	2,538	819,903

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST OF PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1990
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.1

ISSCAAP GROUP NO.	Spesies Species	Pukat Tunda Trawl Net	Pukat-Pukat Tarik/Seines Nets			Pukat Hanyut Drift/Gill Nets	Pukat Tangguk Lift Nets	Perangkap-perangkap Traps		Pancing Hooks and Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/Scoop Nets	Memungut Siput Shellfish Collection	Rampaihan Miscel- laneous	Jumlah (Tan M) Total (Tonnes)
	Nama Tempatan Local Name		Pukat Jerut Ikan Seine Fish	Pukat Jerut Bilis Purse Seine Anchovy	Lain Pukat Tarik Other Seines			Belat- Belat Stationary	Bubu Portable							
24	Kebasi/Selangat	623	707	0	0	1,809	0	1	0	0	0	0	0	0	0	3,140
	Puput/B. Mata/Tirok	2,970	147	0	0	1,833	0	0	0	0	0	0	0	0	0	4,950
	Terubok	0	0	0	0	41	0	0	0	0	0	0	0	0	0	41
25	Siakap	11	0	0	0	13	0	0	0	5	0	19	0	0	0	48
31	Lidah	1,685	0	0	0	212	0	0	0	0	6	0	0	0	0	1,903
	Sebelah	345	0	0	0	1	0	0	0	0	0	0	0	0	0	346
33	Bayan	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Biji Nangka	2,631	0	0	0	2	0	0	0	0	0	0	0	0	0	2,633
	Daun Baharu	72	0	0	0	20	0	0	0	0	0	0	0	0	0	92
	Delah/Pinang-Pinang	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
	Duri/Pulutan/Utik	2,006	0	0	174	916	0	2	0	416	22	120	0	0	0	3,656
	Dengkis/Debam	110	0	0	0	17	0	0	66	0	0	0	0	0	0	193
	Gelama/Tengkerong/Selampai	6,054	0	0	131	1,956	0	2	0	22	34	54	4	0	0	8,257
	Gerut-Gerut	405	0	0	1	64	0	0	5	84	0	1	0	0	0	560
	Jenahak	275	0	0	0	17	0	0	88	187	0	0	0	0	0	567
	Kaci	56	0	0	0	0	0	0	5	3	0	0	0	0	0	64
	Kerapu	1,483	0	0	0	27	0	0	276	209	1	0	0	0	0	1,996
	Kerisi	12,056	0	0	0	174	0	0	0	1	0	0	0	0	0	12,231
	Kerisi Bali	422	0	0	0	0	0	0	47	52	0	0	0	0	0	521
	Kikek	49	0	0	0	2	0	0	0	0	0	0	0	0	0	51
	Malong	926	0	0	2	170	0	0	1	407	0	0	0	0	0	1,506
	Merah	1,174	2	0	0	7	0	0	289	137	0	0	0	0	0	1,609
	Mengkerong/Conor/Ubi-Ubi	3,815	0	0	0	11	0	0	0	0	0	0	0	0	0	3,826
	Rempong/Kunyit-Kunyit/Tanda	467	0	0	0	1	0	0	1	39	0	0	0	0	0	508
	Semilang	845	0	0	11	77	0	0	57	28	1	275	0	0	0	1,294
	Shrumbu/Lemah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Puntong Damar/Bulus	606	0	0	3	149	0	0	0	15	0	0	0	0	0	773
	Pasir-Pasir/Timun-Timun	32	0	0	0	4	0	0	0	1	0	0	0	0	0	37

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

34	Alu-Alu/Kacang-Kacang	1,255	71	0	0	120	0	0	0	58	0	0	0	0	0	1,504
	Aruan Tasik	102	9	0	0	3	0	0	1	2	0	0	0	0	0	117
	Bawal	3,310	528	0	0	1,285	0	11	0	0	4	0	0	0	0	5,138
	Belanak/Kedera	408	364	0	22	1,227	0	1	0	0	7	41	0	0	0	2,070
	Cermin/Sagal/Cupak	155	0	0	0	47	0	0	0	0	0	0	0	0	0	202
	Cincaru	1,710	956	0	0	390	0	0	0	5	0	0	0	0	0	3,061
	Demudok/Rambai	1,915	0	0	0	27	0	0	10	46	0	0	0	0	0	1,998
	Kurau/Senangin/Senohong	184	0	0	3	638	0	0	0	32	0	0	0	0	0	857
	Pelata/Selar	2,171	2,041	0	0	192	0	0	0	1	0	0	0	0	0	4,405
	Selar Kuning/Lolong	2,096	945	0	0	0	0	0	0	0	0	0	0	0	0	3,041
	Selayang/Curut	1,708	13,850	0	0	0	0	0	0	0	0	0	0	0	0	15,558
	Pisang-Pisang	3	185	0	0	0	0	0	0	0	0	0	0	0	0	188
	Talang	218	1	0	0	194	0	0	0	29	0	0	0	0	0	442
35	Billie/Bunga Air	214	131	25,118	6	0	0	0	0	0	0	0	0	0	0	25,469
	Parang-Parang	1,345	0	0	0	979	0	2	0	0	0	0	0	0	0	2,326
	Tamban	1,498	3,012	2	0	488	0	4	0	0	0	0	0	0	0	5,004
	Bulan-Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	14	4,416	0	0	196	0	0	0	0	0	0	0	0	0	4,626
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	16,543	20,365	0	2	18,365	0	9	0	0	0	0	1	0	0	55,285
	Tenggiri	1,604	89	0	0	2,480	0	0	0	82	0	0	0	0	0	4,255
	Timah/Layor/Selayor	1,418	2	0	0	178	0	0	0	0	0	0	0	0	0	1,598
38	Pari	3,362	17	0	27	625	0	2	44	589	0	6	0	0	0	4,672
	Yu	642	1	0	0	75	0	0	3	38	0	0	0	0	0	759
39	Ikan Baja	170,675	3,580	0	7,993	5,740	0	16	0	0	3,371	378	823	0	0	192,576
	Ikan Campur	12,062	250	0	37	3,122	0	48	2	25	35	24	0	0	0	15,605
	Jebong	1,378	0	0	4	3	0	0	48	0	0	0	0	0	0	1,433
42	Ketam	2,099	0	0	23	745	0	0	77	0	5	306	13	0	237	3,505
45	Udang Karang/Lobok	57	0	0	0	0	0	0	0	0	0	0	0	0	0	57
	Udang Putih	1,186	0	0	34	2,549	0	1	0	0	15	0	5	0	0	3,800
	Udang Minyak	12,088	0	0	4,829	191	0	0	0	0	1,276	12	154	0	0	18,550
	Udang Merah Ros	1,252	0	0	1	7	0	0	0	0	16	0	0	0	0	1,276
	Udang Kulit Keras	2,472	0	0	228	47	0	0	0	0	149	0	39	0	0	2,935
	Udang Harimau	190	0	0	12	5	0	0	0	0	6	0	15	0	0	228
	Lain-Lain Jenis Udang	19,957	0	0	4,582	4,324	0	485	0	0	13,975	144	1,864	0	4	45,335
56	Siput/Kepah/Kupang/Tiram	155	0	0	0	0	0	0	0	0	0	0	0	4,320	0	4,475
57	Sotong Kereta	446	0	0	0	52	0	0	0	0	7	0	0	0	0	505
	Sotong Katak	5,023	0	0	12	26	0	1	58	0	12	0	0	0	0	5,132
	Sotong Biasa	14,623	81	0	1	22	0	6	0	0	27	0	0	0	0	14,760
76	Ubur-Ubur	4	0	0	0	667	0	1	0	0	4,001	0	0	0	2,243	6,916
	Jumlah Tan M/Total Tonnes	324,676	51,750	25,120	18,138	52,532	0	592	1,078	2,513	22,970	1,380	2,918	4,320	2,484	510,471

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1990
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.2

ISSCAAP GROUP NO.	Jenis Ikan Species	Pukat Tunda Trawl Net	Pukat-Pukat Tarik/Seines Nets			Pukat Hanyut Drift/Gill Nets	Pukat Tangguk Lift Nets	Perangkap-perangkap Traps		Pancing Hooks and Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/Scoop Nets	Memungut Siput Shellfish Collection	Rampaian Miscel- laneous	Jumlah (Tan) Total (Tonnes)
	Nama Tempatan Local Name		Pukat Jerut Ikan Seine Fish	Pukat Jerut Bilis Purse Seine Anchovy	Lain Pukat Tarik Other Seines			Belat- Belat Stationary	Bubu Portable							
24	Kebasi/Selangat	47	0	18	0	2	0	0	0	0	0	0	0	0	0	67
	Puput/B. Mata/Tirok	103	0	0	0	0	0	0	0	0	0	0	0	0	0	103
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Siakap	18	0	0	0	1	0	1	2	1	0	0	0	0	0	23
31	Lidah	183	0	0	0	12	0	0	1	0	0	0	0	0	0	196
	Sebelah	496	0	0	0	17	0	0	4	0	0	0	0	0	0	517
33	Bayan	15	0	0	0	0	0	0	20	0	0	0	0	0	0	35
	Biji Nangka	2,137	0	0	0	6	0	0	88	2	0	0	0	0	0	2,233
	Daun Baharu	90	0	0	0	7	0	1	4	0	0	0	0	0	0	102
	Delah/Pinang-Pinang	303	0	0	0	0	0	1	22	2	0	0	0	0	33	361
	Duri/Pulutan/Utik	2,532	41	7	0	240	49	0	7	373	1	0	28	0	0	3,278
	Dengkia/Debam	291	0	0	0	14	16	6	171	2	0	0	0	0	0	500
	Gelama/Tengkerong/Selampai	1,340	0	48	0	488	0	0	67	71	2	0	0	0	0	2,016
	Gerut-Gerut	101	0	0	0	10	0	0	29	6	0	0	0	0	0	146
	Jenahak	22	0	0	0	2	0	1	6	8	0	0	0	0	0	39
	Kaci	401	0	0	0	1	0	0	108	12	0	0	0	0	0	522
	Kerapu	692	0	0	0	7	0	1	346	284	0	0	0	0	0	1,330
	Kerisi	10,278	0	0	0	557	25	0	1,032	1,613	0	0	0	0	0	13,505
	Kerisi Bali	1,060	0	0	0	0	0	0	95	89	0	0	0	0	0	1,244
	Kikek	377	4	72	0	28	0	1	3	1	0	0	0	0	0	486
	Maiong	189	0	0	0	0	0	0	9	8	0	0	0	0	0	206
	Merah	1,207	0	0	0	62	0	2	1,191	386	0	0	0	0	0	2,848
	Mengkerong/Conor/Ubi-Ubi	798	0	0	0	0	0	0	0	0	0	0	0	0	0	798
	Remong/Kunyit-Kunyit/Tanda	1,310	13	0	0	54	0	1	320	36	0	0	0	0	0	1,734
	Semilang	28	0	0	0	1	0	3	0	0	0	0	0	0	0	32
	Shrumbu/Lemah	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Puntong Damar/Bulus	811	0	0	0	151	0	0	0	0	0	0	0	0	0	962
	Pasir-Pasir/Timun-Timun	451	0	0	0	0	0	0	194	7	0	0	0	0	0	652

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

34	Alu-Alu/Kacang-Kacang	640	46	0	0	68	0	10	4	52	0	0	0	0	1	821
	Aruan Tasik	142	1	0	0	86	0	0	27	268	0	0	0	0	0	524
	Bawal	137	343	0	0	69	0	0	0	6	0	0	0	0	0	555
	Belanak/Kedera	1	0	0	0	0	0	3	0	0	0	0	0	0	0	4
	Cermin/Sagai/Cupak	1,203	83	1	0	222	0	2	57	142	0	0	0	0	2	1,712
	Cincaru	925	486	1	0	241	3	0	4	603	0	0	0	0	0	2,263
	Demudok/Rambai	122	180	0	0	186	0	0	99	221	0	0	0	0	8	814
	Kurau/Senangin/Senohong	4	0	0	0	58	0	0	0	0	0	0	0	0	0	62
	Pelata/Selar	1,305	4,557	3	0	663	66	3	6	1,527	5	0	0	0	0	8,135
	Selar Kuning/Lolong	6,730	6,848	168	0	171	3,878	63	21	9	0	0	0	0	0	17,888
	Selayang/Curut	397	33,793	30	0	0	547	0	0	122	0	0	5	0	0	34,894
	Pisang-Pisang	14	1	0	0	4	0	0	6	23	0	0	0	0	2	50
	Talang	18	9	0	0	55	0	1	0	46	0	0	0	0	0	129
35	Billis/Bunga Air	59	62	3,855	0	0	0	81	0	0	0	0	0	0	0	4,057
	Parang-Parang	481	0	0	0	872	0	0	0	9	0	0	0	0	0	1,362
	Tamban	25	7,112	1,271	0	0	589	43	0	11	0	0	58	0	0	9,109
	Bulan-Bulan	8	3	0	0	7	0	0	0	13	0	0	0	0	0	31
36	Aya/Kayu/Tongkol	30	3,670	1	0	1,708	30	0	17	4,558	0	0	0	0	0	10,014
	Layaran/Mersuji	7	0	0	0	25	0	0	0	85	0	0	0	0	0	117
37	Kembong/Temenong/Pelaling	894	8,461	27	0	597	46	0	2	138	0	0	0	0	0	10,165
	Tenggiri	663	127	0	0	904	0	0	0	1,515	0	0	0	0	0	3,209
	Timah/Layor/Selayor	497	0	0	0	410	0	0	0	1	3	0	0	0	0	911
38	Pari	4,217	0	0	0	196	0	1	9	155	2	0	0	0	0	4,580
	Yu	1,085	0	2	0	219	0	0	4	128	0	0	0	0	0	1,438
39	Ikan Baja	107,978	777	120	0	1	0	0	0	0	1,177	0	0	0	1	110,054
	Ikan Campur	9,515	5,719	1	0	926	89	7	266	449	26	0	2	0	0	17,000
	Jebong	503	0	0	0	0	0	0	638	1	0	0	0	0	0	1,142
42	Ketam	1,303	25	0	0	52	0	22	114	0	0	0	0	0	8	1,524
45	Udang Karang/Lobok	441	0	0	0	2	0	1	5	0	0	0	0	0	0	449
	Udang Putih	185	0	0	0	56	0	0	0	0	5	0	0	0	0	246
	Udang Minyak	576	0	0	0	0	0	0	0	0	83	0	0	0	0	659
	Udang Merah Ros	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
	Udang Kulit Keras	1,648	0	0	0	0	0	0	0	0	0	0	0	0	0	1,648
	Udang Harimau	209	0	0	0	39	0	0	0	0	2	0	0	0	0	250
	Lain-Lain Jenis Udang	2,440	0	0	0	186	0	0	0	0	1,504	0	0	0	0	4,130
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Sotong Kereta	65	0	0	0	0	0	0	0	0	0	0	0	0	0	65
	Sotong Katak	7,029	0	0	0	0	0	0	412	0	3	0	0	0	0	7,444
	Sotong Biasa	15,243	197	0	0	0	1,042	24	69	1,322	0	0	114	0	0	18,011
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	192,049	72,558	5,625	0	9,683	6,380	279	5,479	14,305	2,813	0	207	0	54	309,432

SARAWAK
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1990
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL(TABLE) 4.6.3

ISSCAAP GROUP NO.	Jenis Ikan Species	Pukat Tunda	Pukat-Pukat Tarik/Seines Nets			Pukat Hanyut	Pukat Tangguk	Perangkap-perangkap Traps		Pancing	Pukat Bakul	Pukat Rentang	Pukat Surung	Memungut Siput	Rampaian	Jumlah (Tan M)
	Nama Tempatan Local Name	Trawl Net	Pukat Jerut Ikan	Pukat Jerut Bilis	Lain Pukat Tarik			Belat- Belat	Bubu							Total (Tonnes)
			Purse Seine Fish	Purse Seine Anchovy	Other Seines	Drift/Gill Nets	Lift Nets	Stationary	Portable	Hooks and Lines	Bag Nets	Barrier Nets	Push/Scoop Nets	Shellfish Collection	Miscel- laneous	
24	Kebasi/Selangat	1	0	0	0	115	0	3	0	0	0	0	0	0	0	119
	Puput/B. Mata/Tirok	532	0	0	0	643	0	13	0	0	0	0	0	0	0	1,188
	Terubok	10	0	0	0	784	0	0	0	0	0	0	0	0	0	794
25	Siakap	1	0	0	0	27	0	0	0	4	0	0	0	0	0	32
31	Lidah	52	0	0	0	0	0	2	0	0	0	0	0	0	0	54
	Sebelah	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
33	Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biji Nangka	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
	Daun Baharu	8	0	0	0	18	0	0	0	0	0	0	0	0	0	26
	Delah/Pinang-Pinang	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
	Duri/Pulutan/Utik	1,192	0	0	0	1,004	0	27	0	33	0	2	0	0	0	2,258
	Gelama/Tengkerong/Selampai	2,997	0	0	1	182	0	5	0	0	0	5	0	0	0	3,190
	Gerut-Gerut	3	0	0	0	27	0	5	0	4	0	3	0	0	0	42
	Jenahak	16	0	0	0	9	0	0	0	13	0	0	0	0	0	38
	Kaci	7	0	0	0	0	0	0	0	1	0	0	0	0	0	8
	Kerapu	19	0	0	0	1	0	0	0	104	0	2	0	0	0	126
	Kerisi	202	0	0	0	26	0	0	0	40	0	0	0	0	0	268
	Kerisi Ball	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Kikek	1	0	0	1	3	0	0	0	0	0	0	0	0	0	5
	Lumi-Lumi	287	0	0	0	237	0	50	0	0	6	389	0	0	0	969
	Malong	566	0	0	0	326	0	0	0	0	0	0	0	0	0	892
	Merah	698	0	0	0	3	0	0	0	240	0	2	0	0	0	943
	Pelanduk	0	0	0	0	0	0	0	0	18	0	0	0	0	0	18
	Semilang	0	0	0	0	3	0	13	0	11	0	4	0	0	0	31
	Shrumbu/Lemah	100	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	Kapas	62	0	0	0	0	0	0	0	1	0	0	0	0	0	63
34	Alu-Alu/Kacang-Kacang	49	0	0	0	3	0	0	0	37	0	0	0	0	0	89
	Bawal	903	539	0	109	777	0	2	0	0	0	0	379	0	0	2,709
	Belanak/Kedera	2	0	0	0	38	0	4	0	0	0	1	0	0	0	45
	Cemih/Sagai/Cupak	93	0	0	0	6	0	0	0	0	0	0	0	0	0	99
	Gerongga	58	13	0	1	125	0	0	0	0	0	0	9	0	0	206
	Cincaru	493	446	0	129	238	0	0	0	0	0	0	0	0	0	1,306
	Demudok/Rambai	87	28	0	0	26	0	0	0	15	0	0	0	0	0	156
	Kurau/Senangin/Senohong	5	67	0	0	482	0	2	0	3	0	1	0	0	0	580
	Pelata/Selar	240	233	0	120	5	0	0	0	0	0	0	9	0	0	607

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

35	Selar Kuning/Lolong	16	611	0	3	299	0	0	0	0	0	0	26	0	0	955
	Selayang/Curut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Talang	40	0	0	0	283	0	0	0	10	0	0	0	0	0	333
	Todak/Banang	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tamban	36	69	0	0	426	0	0	0	1	0	0	9	0	0	541
	35 Bills/Bunga Air	27	0	0	0	299	0	21	0	0	0	0	6	0	0	353
	Parang-Parang	154	0	0	0	359	0	0	0	0	0	0	1	0	0	514
	Bulan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	36 Aya/Kayu/Tongkol	48	786	0	87	1,100	0	0	0	430	0	0	0	0	0	2,451
	37 Kembong/Temenong/Pelaling	620	219	0	9	618	0	0	0	0	0	0	67	0	0	1,533
	Tenggiri	938	0	0	0	1,242	0	0	0	41	0	0	0	0	0	2,221
	Timah/Layor/Selayor	345	0	0	0	284	0	0	0	0	0	0	0	0	0	629
	38 Pari	1,605	0	0	0	422	0	15	0	75	0	0	0	0	0	2,117
	Yu	707	0	0	0	1,148	0	1	0	9	0	0	0	0	0	1,865
	39 Ikan Baja	5,840	0	0	0	17	0	0	0	1	314	0	0	0	4	6,176
	Ikan Campur	7,118	0	0	1	678	0	58	0	148	180	0	49	0	0	8,232
	42 Ketam	55	0	0	0	69	0	1	16	0	0	1	0	0	3	145
	45 Udang Karang/Lobok	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
	Udang Harimau	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
	Udang Putih	1,797	3	0	6	613	0	64	0	0	17	13	5	0	5	2,523
	Udang Sua Lor	225	0	0	0	0	0	0	0	0	0	0	0	0	0	225
	Udang Merah Ros	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Kulit Keras	1,502	0	0	1	0	0	4	0	0	66	0	0	0	5	1,578
	Udang Kuning	31	0	0	0	0	0	2	0	0	0	0	0	0	0	33
	Udang Cendana/Rotan	93	0	0	0	0	0	0	0	0	0	0	0	0	0	93
	Udang Merah/Payak	7,173	0	0	0	0	0	9	0	0	1,520	0	1	0	14	8,717
	Udang Pasir	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
	Udang Minyak	475	0	0	0	0	0	1	0	0	0	0	0	0	0	476
	Lain-Lain Jenis Udang	0	0	0	0	302	0	138	0	0	0	0	92	0	0	532
	56 Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0	0	0	0	21	0	0	145	9	175
	Sotong Kereta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sotong Katak	233	0	0	0	0	0	0	0	0	0	0	0	0	0	233
	57 Sotong Biasa	2,056	0	0	0	0	0	0	0	0	0	0	0	0	0	2,056
	78 Ubur-Ubur	1,933	0	0	0	0	0	0	0	0	784	25	9,361	0	512	12,615
	Jamah	146	1,200	0	118	11	0	0	0	0	0	0	267	0	0	1,742
	Perencong	1	0	0	0	224	0	1	0	3	0	0	0	0	0	229
	Panjang	0	0	0	0	201	0	2	0	2	0	0	0	0	0	205
	Pelayak	10	0	0	0	163	0	0	0	1	0	0	0	0	0	174
	Impirang	19	0	0	0	700	0	67	0	0	19	172	0	0	0	977
	Bulu Ayam	3	0	0	0	260	0	110	0	0	50	157	0	0	0	580
	Kilat	203	0	0	0	167	0	6	0	0	0	17	0	0	0	393
	Bulu	36	0	0	0	21	0	14	0	0	8	0	0	0	0	79
	Empirit	3	0	0	0	120	0	19	0	0	0	12	0	0	0	154
Jumlah Tan M/Total Tonnes		42,236	4,214	0	566	15,152	0	659	16	1,246	2,985	806	10,281	145	552	78,678

WILAYAH PERSEKUTUTAN LABUAN/LABUAN FEDERAL TERRITORY
PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN SPESIES IKAN, 1990
LANDINGS OF MARINE FISH BY GEAR GROUP AND SPECIES, 1990
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 4.6.4

ISSCAAP GROUP NO.	Jenis Ikan Species	Pukat Tunda Trawl Net	Pukat-Pukat Tarik/Seine Nets			Pukat Hanyut Drift/Gill Nets	Pukat Tangguk Lift Nets	Perangkap-perangkap Traps		Pancing Hooks and Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/Scoop Nets	Memungut Siput Shellfish Collection	Rampaian Miscel- laneous	Jumlah (Tan M)	
	Nama Tempatan Local Name		Pukat Jerut Ikan Seine Fish	Pukat Jerut Bills Purse Seine Anchovy	Lain Pukat Tarik Other Seines			Belat- Belat Stationary	Bubu Portable							Total (Tonnes)	
24	Kebasi/Selangat	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
	Puput/B. Mata/Tirok	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	
	Terubok	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Siakap	0	0	0	0	0	0	0	2	6	0	0	0	0	0	8	
31	Lidah	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
	Sebelah	48	0	0	0	8	0	0	0	0	0	0	0	0	0	56	
33	Bayan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Biji Nangka	482	0	0	0	4	0	0	0	0	0	0	0	0	0	486	
	Daun Baharu	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
	Delah/Pinang-Pinang	0	0	0	0	42	0	0	0	22	0	0	0	0	8	72	
	Duri/Pulutan/Utik	14	0	0	0	14	0	0	0	6	0	0	0	0	0	34	
	Dengkis/Debam	0	0	0	0	110	0	22	4	14	0	0	0	0	2	152	
	Gelama/Tengkerong/Selampai	60	0	0	0	6	2	0	0	0	0	0	0	0	0	68	
	Gerut-Gerut	20	0	0	0	4	0	0	0	4	0	0	0	0	0	28	
	Jenahak	0	0	0	0	2	0	0	0	8	0	0	0	0	0	10	
	Kaci	28	0	0	0	8	0	0	0	18	0	0	0	0	0	54	
	Kerapu	28	0	0	0	10	0	2	4	122	0	0	0	0	2	168	
	Kerisi	268	0	0	0	6	6	0	0	110	0	0	0	0	0	390	
	Kerisi Bali	4	0	0	0	2	0	0	0	26	0	0	0	0	0	32	
	Kkek	24	0	0	0	4	0	2	0	0	0	0	0	0	0	30	
	Malong	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Merah	72	0	0	0	2	0	0	20	352	0	0	0	0	0	446	
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Remong/Kunyit-Kunyit/Tanda	4	0	0	0	8	0	4	2	42	0	0	0	0	0	60	
	Semilang	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	
	Shrumbu/Lemah	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14	
	Puntong Damar/Bulus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Pasir-Pasir/Timun-Timun	8	0	0	0	4	0	2	0	4	0	0	0	0	0	18	

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

34	Alu-Alu/Kacang-Kacang	16	0	0	0	18	0	0	10	22	0	0	0	0	0	66
	Aruan Tasik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bawal	34	8	0	0	198	6	0	0	0	0	0	0	0	0	246
	Belanak/Kedera	0	0	0	0	4	0	2	0	0	0	0	0	0	0	6
	Cermin/Segai/Cupak	6	0	0	0	62	0	2	2	56	0	0	0	0	0	128
	Cincaru	34	4	0	0	64	2	0	0	16	0	0	0	0	0	120
	Demudok/Rambai	10	0	0	0	24	2	4	2	36	0	0	0	0	0	78
	Kurau/Senangin/Senohong	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pelata/Selar	10	0	0	0	0	6	0	0	0	0	0	0	0	0	16
	Selar Kuning/Lolong	72	124	0	0	302	48	0	0	0	0	0	0	0	0	546
	Selayang/Curut	22	12	0	0	380	142	0	0	4	0	0	0	0	0	560
	Pisang-Pisang	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Talang	0	0	0	0	24	2	0	0	10	0	0	0	0	0	36
35	Billis/Bunga Air	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
	Parang-Parang	2	0	0	0	12	0	0	0	0	0	0	0	0	0	14
	Tamban	2	0	0	0	4	286	0	0	0	0	0	0	0	0	292
	Bulan-Bulan	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
36	Aya/Kayu/Tongkol	6	38	0	0	210	0	0	0	162	0	0	0	0	0	416
	Layaran/Mersuji	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	90	190	0	0	456	2	0	0	142	0	0	0	0	0	880
	Tenggiri	30	0	0	0	170	0	0	0	236	0	0	0	0	0	436
	Timah/Layor/Selayor	2	0	0	0	4	0	0	0	0	0	0	0	0	0	6
38	Pari	40	0	0	0	42	0	2	0	0	0	0	0	0	0	84
	Yu	28	0	0	0	50	0	0	0	0	0	0	0	0	0	78
39	Ikan Baja	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
	Ikan Campur	82	0	0	0	98	0	6	0	92	0	0	0	0	6	284
	Jebong	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
42	Ketam	24	0	0	0	4	0	4	0	0	0	0	0	0	2	34
45	Udang Karang/Lobok	108	0	0	0	0	0	0	0	0	0	0	0	0	4	112
	Udang Putih	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36
	Udang Minyak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Udang Merah Ros	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
	Udang Kulit Keras	214	0	0	0	0	0	0	0	0	0	0	0	0	0	214
	Udang Harimau	42	0	0	0	0	0	0	0	0	0	0	0	0	0	42
	Lain-Lain Jenis Udang	346	0	0	0	0	0	0	0	0	0	58	0	2	0	406
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	66	0	0	0	0	0	2	0	0	0	0	0	0	0	68
	Sotong Biasa	340	0	0	0	0	0	4	0	0	0	0	0	0	0	344
76	Ubur-Ubur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jumlah Tan M/Total Tonnes	2,790	380	0	0	2,392	504	60	46	1,510	0	0	58	0	26	7,766

JADUAL (TABLE) 4.7

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1990
FISHING EFFORTS AND LANDINGS OF FISH TRAWL NETS BY TONNAGE CLASS AND SPECIES, 1990

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Total	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	Cumulative no. of fishing units	72,763	17,119	36,758	9,265	6,856	2,765
	Cumulative no. of trips	1,251,538	325,735	745,220	123,713	52,236	4,634
	Cumulative no. of days	1,431,304	335,736	762,997	188,101	138,411	6,059
	Cumulative no. of hauls	4,441,679	915,352	2,331,470	603,006	495,742	96,109
	Jenis Ikan/Species:	Tonnes:					
24	Kebasi/Selangat	670	28	284	294	45	19
	Puput/B. Mata/Tirok	3,073	22	382	1,273	1,150	246
	Terubok	0	0	0	0	0	0
25	Siakap	29	1	8	2	1	17
31	Lidah	1,868	156	839	534	301	38
	Sebelah	841	17	167	212	270	175
33	Bayan	16	3	5	3	2	3
	Biji Nangka	4,768	18	827	931	2,341	651
	Daun Baharu	162	11	38	62	40	11
	Delah/Pinang-Pinang	308	1	273	13	3	18
	Duri/Pulutan/Utik	4,538	288	527	1,284	1,474	965
	Dengkis/Debam	401	13	34	73	156	125
	Gelama/Tengkerong/Selampai	7,394	527	2,294	2,753	1,602	218
	Gerut-Gerut	506	10	73	237	149	37
	Jenahak	297	15	51	80	113	38
	Kaci	457	9	42	103	149	154
	Kerapu	2,175	62	331	458	884	440
	Kerisi	22,334	736	2,819	4,312	9,504	4,963
	Kerisi Bali	1,482	29	28	125	439	861
	Kikek	426	19	167	132	61	47
	Malong	1,115	91	541	226	133	124
	Merah	2,381	5	141	324	1,212	699
	Mengkerong/Conor/Ubi-Ubi	4,613	39	520	838	2,358	858
	Remong/Kunyit-Kunyit/Tanda	1,777	77	169	387	582	562
	Semilang	873	14	41	109	675	34
	Shrumbu/Lemah	2	0	1	0	0	1
	Puntong Damar/Bulus	1,417	202	438	345	374	58
	Pasir-Pasir/Timun-Timun	483	100	67	105	55	156

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

34	Alu-Alu/Kacang-Kacang	1,895	46	284	557	720	288
	Aruan Tasik	244	2	10	69	91	72
	Bawal	3,447	228	1,392	1,141	601	85
	Belanak/Kedera	409	49	227	94	38	1
	Cermin/Sagai/Cupak	1,358	30	232	321	336	439
	Cencaru	2,635	14	264	967	918	472
	Demudok/Rambai	2,037	3	49	511	1,208	266
	Kurau/Senangin/Senohong	188	23	29	89	40	7
	Pelata/Selar	3,475	46	342	1,110	1,240	737
	Selar Kuning/Lolong	8,826	759	803	2,332	3,056	1,876
	Selayang/Curut	2,105	0	9	579	1,041	476
	Pisang-Pisang	17	0	3	2	3	9
	Talang	236	3	75	101	56	1
35	Billis/Bunga Air	273	14	189	32	17	21
	Parang-Parang	1,826	104	506	641	476	99
	Tamban	1,523	64	336	754	346	23
	Bulan-Bulan	8	1	0	1	2	4
36	Aya/Kayu/Tongkol	44	1	2	3	3	35
	Layaran/Mersuji	7	0	0	3	2	2
37	Kembong/Temenong/Pelaling	17,437	50	2,160	8,344	5,750	1,133
	Tenggiri	2,267	76	369	747	819	256
	Timah/Layor/Selayor	1,915	98	517	377	646	277
38	Pari	7,579	695	1,917	1,627	2,398	942
	Yu	1,727	90	225	495	612	305
39	Ikan Baja	278,654	24,336	57,696	81,494	79,382	35,746
	Ikan Campur	21,578	1,013	3,646	2,754	7,184	6,981
	Jebong	1,882	4	13	169	1,204	492
42	Ketam	3,402	826	1,555	570	345	106
45	Udang Karang/Lobok	498	61	112	97	106	122
	Udang Putih/Kaki Merah	1,381	215	916	170	76	4
	Udang Minyak	12,664	3,012	9,544	89	10	9
	Udang Merah Ros	1,280	509	770	1	1	0
	Udang Kulit Keras	4,120	1,501	2,403	170	18	28
	Udang Harimau	399	99	160	87	50	3
	Lain-Lain Jenis Udang	22,395	4,032	15,514	2,276	451	122
56	Siput/Kepah/Kupang/Tiram	155	0	0	153	0	2
57	Sotong Kereta	499	33	301	102	46	17
	Sotong Katak	12,063	948	2,209	3,058	3,518	2,330
	Sotong Biasa	29,867	1,001	7,526	8,652	8,799	3,889
76	Ubur-Ubur	4	0	0	3	0	1
	Jumlah Tan M. Total Tonnes	516,725	42,479	123,412	135,957	145,682	69,196

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST OF PENINSULAR MALAYSIA
USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1990
FISHING EFFORTS AND LANDINGS OF TRAWLERS BY TONNAGE CLASS AND SPECIES, 1990

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Tan M./ Total Tonnes	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	Cumulative no. of fishing units	52,989	11,624	28,993	6,951	4,934	487
	Cumulative no. of trips	999,591	233,504	612,210	108,079	44,746	1,052
	Cumulative no. of days	1,112,342	233,777	625,935	142,235	103,494	6,901
	Cumulative no. of hauls	3,456,430	654,159	1,921,737	465,202	393,529	21,803
24	Kebasi/Selangat	623	24	276	283	35	5
	Puput/B. Mata/Tirok	2,970	21	378	1,271	1,128	172
	Terubok	0	0	0	0	0	0
25	Siakap	11	0	7	2	1	1
31	Lidah	1,685	136	768	490	282	9
	Sebelah	345	5	63	93	157	27
33	Bayan	1	0	0	0	1	0
	Biji Nangka	2,631	5	52	365	2,159	50
	Daun Baharu	72	0	9	38	21	4
	Delah/Pinang-Pinang	5	0	0	1	2	2
	Duri/Pulutan/Utik	2,006	57	173	614	946	216
	Dengkis/Debam	110	1	0	9	82	18
	Gelama/Tengkerong/Selampai	6,054	414	1,837	2,367	1,340	96
	Gerut-Gerut	405	9	48	190	135	23
	Jenahak	275	15	47	78	112	23
	Kaci	56	0	1	1	49	5
	Kerapu	1,483	35	247	298	747	156
	Kerisi	12,056	86	885	1,642	7,592	1,851
	Kerisi Bali	422	0	0	17	321	84
	Kikek	49	0	0	22	22	5
	Malong	926	75	516	187	113	35
	Merah	1,174	0	16	82	910	166
	Mengkerong/Conor/Ubi-Ubi	3,815	36	310	638	2,219	612
	Remong/Kunyit-Kunyit/Tanda	467	0	10	40	283	134
	Semilang	845	13	41	91	673	27
	Shrumbu/Lemah	0	0	0	0	0	0
	Puntong Damar/Bulus	606	41	188	106	254	17
	Pasir-Pasir/Timun-Timun	32	0	2	21	8	1

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

34	Alu-Alu/Kacang-Kacang	1,255	19	162	365	579	130
	Aruan Tasik	102	0	3	22	63	14
	Bawai	3,310	205	1,361	1,108	582	54
	Belanak/Kedera	408	47	226	94	38	3
	Cermin/Sagai/Cupak	155	3	39	34	64	15
	Cencaru	1,710	2	225	785	592	106
	Demudok/Rambai	1,915	0	41	461	1,179	234
	Kurau/Senangin/Senohong	184	23	25	88	40	8
	Pelata/Selar	2,171	6	239	817	958	151
	Selar Kuning/Lolong	2,096	0	94	394	1,386	222
	Selayang/Curut	1,708	0	9	524	1,015	160
	Pisang-Pisang	3	0	1	0	2	0
	Talang	218	2	72	93	50	1
35	Billis/Bunga Air	214	10	179	19	5	1
	Parang-Parang	1,345	27	346	533	393	46
	Tamban	1,498	64	336	744	340	14
	Bulan-Bulan	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	14	0	1	0	0	13
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	16,543	42	2,127	8,150	5,512	712
	Tenggiri	1,604	21	301	563	640	79
	Timah/Layor/Selayor	1,418	85	266	282	588	197
38	Pari	3,362	233	878	556	1,395	300
	Yu	642	13	100	173	314	42
39	Ikan Baja	170,675	8,943	36,104	58,317	55,325	11,986
	Ikan Campur	12,062	715	2,132	959	5,521	2,735
	Jebong	1,378	0	5	79	1,065	229
42	Ketam	2,099	356	1,169	375	189	10
45	Udang Karang/Lobok	57	9	29	6	10	3
	Udang Putih/Kaki Merah	1,196	196	794	145	57	4
	Udang Minyak	12,088	2,685	9,333	69	1	0
	Udang Merah Ros	1,252	480	770	1	1	0
	Udang Kulit Keras	2,472	895	1,575	2	0	0
	Udang Harimau	190	18	89	46	35	2
	Lain-Lain Jenis Udang	19,957	3,475	14,292	1,935	245	10
56	Siput/Kepah/Kupang/Tiram	155	0	0	153	0	2
57	Sotong Kereta	446	30	294	79	42	1
	Sotong Katak	5,023	180	1,162	1,217	2,088	376
	Sotong Biasa	14,623	260	2,662	5,043	5,941	717
76	Ubur-Ubur	4	0	0	3	0	1
	Jumlah Tan M./Total Tonnes	324,676	20,017	83,315	93,180	105,847	22,317

JADUAL (TABLE) 4.7.2

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA
 USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT TUNDA MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1990
 FISHING EFFORTS AND LANDINGS OF FISH TRAWL NETS BY TONNAGE CLASS AND SPECIES, 1990

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Tan M./ Total Tonnes,	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	Cumulative no. of fishing units	19,774	5,495	7,765	2,314	1,922	2,278
	Cumulative no. of trips	251,947	92,231	133,010	15,634	7,490	3,582
	Cumulative no. of days	326,638	101,959	137,062	45,866	34,917	6,834
	Cumulative no. of hauls	985,249	261,193	409,733	137,804	102,213	74,306
24	Kebasi/Selangat	47	4	8	11	10	14
	Puput/B. Mata/Tirok	103	1	4	2	22	74
	Terubok	0	0	0	0	0	0
25	Siakap	18	1	1	0	0	16
31	Lidah	183	20	71	44	19	29
	Sebelah	496	12	104	119	113	148
33	Bayan	15	3	5	3	1	3
	Biji Nangka	2,137	13	775	566	182	601
	Daun Baharu	90	11	29	24	19	7
	Delah/Pinang-Pinang	303	1	273	12	1	16
	Duri/Pulutan/Utik	2,532	231	354	670	528	749
	Dengkis/Debam	291	12	34	64	74	107
	Gelama/Tengkerong/Selampai	1,340	113	457	386	262	122
	Gerut-Gerut	101	1	25	47	14	14
	Jenahak	22	0	4	2	1	15
	Kaci	401	9	41	102	100	149
	Kerapu	692	27	84	160	137	284
	Kerisi	10,278	650	1,934	2,670	1,912	3,112
	Kerisi Bali	1,060	29	28	108	118	777
	Kikek	377	19	167	110	39	42
	Malong	189	16	25	39	20	89
	Merah	1,207	5	125	242	302	533
	Mengkerong/Conor/Ubi-Ubi	798	3	210	200	139	246
	Remong/Kunyit-Kunyit/Tanda	1,310	77	159	347	299	428
	Semilang	28	1	0	18	2	7
	Shrumbu/Lemah	2	0	1	0	0	1
	Puntong Damar/Bulus	811	161	250	236	120	41
	Pasir-Pasir/Timun-Timun	451	100	65	84	47	155

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

34	Alu-Alu/Kacang-Kacang	640	27	122	192	141	158
	Aruan Tasik	142	2	7	47	28	58
	Bawal	137	23	31	33	19	31
	Belanak/Kedera	1	0	1	0	0	0
	Cermin/Sagai/Cupak	1,203	27	193	287	272	424
	Cencaru	925	12	39	182	326	366
	Demudok/Rambai	122	3	8	50	29	32
	Kurau/Senangin/Senohong	4	0	2	1	0	1
	Pelata/Selar	1,304	40	103	293	282	586
	Selar Kuning/Lolong	6,730	759	709	1,938	1,670	1,654
	Selayang/Curut	397	0	0	55	26	316
	Pisang-Pisang	14	0	2	2	1	9
	Talang	18	1	3	8	6	0
35	Bilis/Bunga Air	59	4	10	13	12	20
	Parang-Parang	481	77	160	108	83	53
	Tamban	25	0	0	10	6	9
	Bulan-Bulan	8	1	0	1	2	4
36	Aya/Kayu/Tongkol	30	1	1	3	3	22
	Layaran/Mersuji	7	0	0	3	2	2
37	Kembong/Temenong/Pelaling	894	8	33	194	238	421
	Tenggiri	663	55	68	184	179	177
	Timah/Layor/Selayor	497	13	251	95	58	80
38	Pari	4,217	462	1,039	1,071	1,003	642
	Yu	1,085	77	125	322	298	263
39	Ikan Baja	107,979	15,393	21,592	23,177	24,057	23,760
	Ikan Campur	9,516	298	1,514	1,795	1,663	4,246
	Jebong	504	4	8	90	139	263
42	Ketam	1,303	470	386	195	156	96
45	Udang Karang/Lobok	441	52	83	91	96	119
	Udang Putih/Kaki Merah	185	19	122	25	19	0
	Udang Minyak	576	327	211	20	9	9
	Udang Merah Ros	28	28	0	0	0	0
	Udang Kulit Keras	1,648	606	828	168	18	28
	Udang Harimau	209	81	71	41	15	1
	Lain-Lain Jenis Udang	2,438	557	1,222	341	206	112
56	Siput/Kepah/Kupang/Tiram	0	0	0	0	0	0
57	Sotong Kereta	53	3	7	23	4	16
	Sotong Katak	7,040	768	1,047	1,841	1,430	1,954
	Sotong Biasa	15,244	741	4,864	3,609	2,858	3,172
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M./Total Tonnes	192,049	22,459	40,095	42,777	39,835	46,883

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
 USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1990
 FISHING EFFORTS AND LANDINGS OF FISH PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1990

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Tan M./ Total Tonnes	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70-Tons & above
	Cumulative fishing units	4,732	115	843	1,314	2,460	1,273
	Cumulative No. of trips	62,414	1,810	12,841	18,102	29,661	2,856
	Cumulative No. of days	89,035	1,810	16,088	26,431	44,706	12,805
	Cumulative No. of hauls	167,276	4,854	29,066	44,170	89,186	32,241
24	Kebasi/Selangat	707	65	0	634	8	0
	Puput/B. Mata/Tirok	147	0	0	4	141	2
	Terubok	0	0	0	0	0	0
25	Siakap	0	0	0	0	0	0
31	Lidah	0	0	0	0	0	0
	Sebelah	0	0	0	0	0	0
33	Bayan	0	0	0	0	0	0
	Biji Nangka	0	0	0	0	0	0
	Daun Baharu	0	0	0	0	0	0
	Delah/Pinang-Pinang	0	0	0	0	0	0
	Duri/Pulutan/Utik	41	0	16	0	23	2
	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	4	0	0	0	0	4
	Malong	0	0	0	0	0	0
	Merah	2	0	0	0	1	1
	Mengkerong/Conor/Upi-Ubi	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	13	0	8	3	2	0
	Semilang	0	0	0	0	0	0
	Shrumbu/Lemah	0	0	0	0	0	0
	Puntong Damar/Bulus	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0

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

34	Alu-Alu/Kacang-Kacang	117	1	16	17	76	7
	Aruan Tasik	10	0	0	0	10	0
	Bawal	871	0	4	48	570	249
	Belanak/Kedera	364	364	0	0	0	0
	Cermin/Sagai/Cupak	83	1	37	14	23	8
	Cencaru	1,442	0	24	192	942	284
	Demudok/Rambai	180	0	50	34	40	56
	Kurau/Senangin/Senohong	0	0	0	0	0	0
	Pelata/Selar	6,598	22	988	1,486	3,321	781
	Selar Kuning/Lolong	7,793	10	1,232	1,409	3,848	1,294
	Selayang/Curut	47,643	1	4,742	6,600	22,943	13,357
	Pisang-Pisang	186	0	1	75	88	22
	Talang	10	0	4	2	3	1
35	Billis/Bunga Air	193	62	0	131	0	0
	Parang-Parang	0	0	0	0	0	0
	Tamban	10,124	0	1,170	2,347	5,693	914
	Bulan-Bulan	3	0	0	3	0	0
36	Aya/Kayu/Tongkol	8,086	0	1,070	794	4,776	1,446
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	28,826	395	1,800	6,800	16,574	3,257
	Tenggiri	216	0	3	44	133	36
	Timah/Layor/Selayor	2	0	0	0	2	0
38	Pari	17	0	0	17	0	0
	Yu	1	0	0	0	0	1
39	Ikan Baja	4,357	676	238	1,340	793	1,310
	Ikan Campur	5,969	0	271	1,282	3,745	671
	Jebong	0	0	0	0	0	0
42	Ketam	25	0	0	25	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
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	277	0	77	59	113	28
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M./Total Tonnes	124,308	1,597	11,751	23,360	63,868	23,731

JADUAL (TABLE) 4.8.1

PANTAI BARAT SEMENANJUNG MALAYSIA/WEST COAST OF PENINSULAR MALAYSIA
 USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1990
 FISHING EFFORTS AND LANDINGS OF FISH PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1990

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Tan M./ Total Tonnes	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	Cumulative fishing units	2,158	96	39	680	1,343	413
	Cumulative No. of trips	28,190	1,536	794	9,664	16,196	1,488
	Cumulative No. of days	38,030	1,536	794	11,187	24,513	5,776
	Cumulative No. of hauls	71,188	4,320	2,382	20,441	44,045	9,553
24	Kebasi/Selangat	707	65	0	634	8	0
	Puput/B. Mata/Tirok	147	0	0	4	141	2
	Terubok	0	0	0	0	0	0
25	Siakap	0	0	0	0	0	0
31	Lidah	0	0	0	0	0	0
	Sebelah	0	0	0	0	0	0
33	Bayan	0	0	0	0	0	0
	Biji Nangka	0	0	0	0	0	0
	Daun Baharu	0	0	0	0	0	0
	Delah/Pinang-Pinang	0	0	0	0	0	0
	Duri/Pulutan/Utik	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	0	0	0	0	0	0
	Malong	0	0	0	0	0	0
	Merah	2	0	0	0	1	1
	Mengkerong/Conor/Ubi-Ubi	0	0	0	0	0	0
	Remong/Kunyit-Kunyit/Tanda	0	0	0	0	0	0
	Semilang	0	0	0	0	0	0
	Shrumbu/Lemah	0	0	0	0	0	0
	Puntong Damar/Bulus	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0

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

34	Alu-Alu/Kacang-Kacang	71	0	0	5	61	5
	Aruan Tasik	9	0	0	0	9	0
	Bawal	528	0	0	38	436	54
	Belanak/Kedera	364	364	0	0	0	0
	Cermin/Sagai/Cupak	0	0	0	0	0	0
	Cencaru	956	0	0	12	698	246
	Demudok/Rambai	0	0	0	0	0	0
	Kurau/Senangin/Senohong	0	0	0	0	0	0
	Pelata/Selar	2,041	0	0	266	1,440	335
	Selar Kuning/Lolong	945	0	0	54	624	267
	Selayang/Curut	13,850	0	0	1,713	8,740	3,397
	Pisang-Pisang	185	0	0	75	88	22
	Talang	1	0	0	0	0	1
35	Billis/Bunga Air	131	0	0	131	0	0
	Parang-Parang	0	0	0	0	0	0
	Tamban	3,012	0	0	881	1,723	408
	Bulan-Bulan	0	0	0	0	0	0
36	Aya/Kayu/Tongkol	4,416	0	0	283	3,653	480
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	20,365	328	216	4,844	12,765	2,212
	Tenggiri	89	0	0	13	43	33
	Timah/Layor/Selayor	2	0	0	0	2	0
38	Pari	17	0	0	17	0	0
	Yu	1	0	0	0	0	1
39	Ikan Baja	3,580	676	208	1,337	768	591
	Ikan Campur	250	0	0	129	82	39
	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
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	81	0	0	7	65	9
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M./Total Tonnes	51,750	1,433	424	10,443	31,347	8,103

JADUAL (TABLE) 4.8.2

PANTAI TIMUR SEMENANJUNG MALAYSIA/EAST COAST OF PENINSULAR MALAYSIA
 USAHA MENANGKAP IKAN DAN PENDARATAN PUKAT JERUT MENGIKUT KELAS MUATAN DAN SPESIES IKAN, 1990
 FISHING EFFORTS AND LANDINGS OF FISH PURSE SEINES BY TONNAGE CLASS AND SPECIES, 1990

ISSCAAP GROUP NO.	Usaha Menangkap Ikan Fishing Effort	Jumlah Tan M./ Total Tonnes	Kelas Muatan/Tonnage Class				
			0-9.9 Tons	10-24.9 Tons	25-39.9 Tons	40-69.9 Tons	70 Tons & above
	Cumulative fishing units	3,434	19	804	634	1,117	860
	Cumulative no. of trips	35,592	274	12,047	8,438	13,465	1,368
	Cumulative no. of days	58,034	274	15,294	15,244	20,193	7,029
	Cumulative no. of hauls	118,776	534	26,684	23,729	45,141	22,688
24	Kebasi/Selangat	0	0	0	0	0	0
	Puput/B. Mata/Tirok	0	0	0	0	0	0
	Terubok	0	0	0	0	0	0
25	Siakap	0	0	0	0	0	0
31	Lidah	0	0	0	0	0	0
	Sebelah	0	0	0	0	0	0
33	Bayan	0	0	0	0	0	0
	Biji Nangka	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	41	0	16	0	23	2
	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	4	0	0	0	0	4
	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	13	0	8	3	2	0
	Semilang	0	0	0	0	0	0
	Shrumbu/Lemah	0	0	0	0	0	0
	Puntong Damar/Bulus	0	0	0	0	0	0
	Pasir-Pasir/Timun-Timun	0	0	0	0	0	0

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

34	Alu-Alu/Kacang-Kacang	46	1	16	12	15	2
	Aruan Tasik	1	0	0	0	1	0
	Bawal	343	0	4	10	134	195
	Belanak/Kedera	0	0	0	0	0	0
	Cermin/Sagai/Cupak	83	1	37	14	23	8
	Cencaru	486	0	24	180	244	38
	Demudok/Rambai	180	0	50	34	40	56
	Kuraw/Senangin/Senohong	0	0	0	0	0	0
	Pelata/Selar	4,557	22	988	1,220	1,881	446
	Selar Kuning/Lolong	6,848	10	1,232	1,355	3,224	1,027
	Selayang/Curut	33,793	1	4,742	4,887	14,203	9,960
	Pisang-Pisang	1	0	1	0	0	0
	Talang	9	0	4	2	3	0
35	Billis/Bunga Air	62	62	0	0	0	0
	Parang-Parang	0	0	0	0	0	0
	Tamban	7,112	0	1,170	1,466	3,970	506
	Bulan-Bulan	3	0	0	3	0	0
36	Aya/Kayu/Tongkol	3,670	0	1,070	511	1,123	966
	Layaran/Mersuji	0	0	0	0	0	0
37	Kembong/Temenong/Pelaling	8,461	67	1,584	1,956	3,809	1,045
	Tenggiri	127	0	3	31	90	3
	Timah/Layor/Selayor	0	0	0	0	0	0
38	Pari	0	0	0	0	0	0
	Yu	0	0	0	0	0	0
39	Ikan Baja	777	0	30	3	25	719
	Ikan Campur	5,719	0	271	1,153	3,663	632
	Jebong	0	0	0	0	0	0
42	Ketam	25	0	0	25	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
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	197	0	77	52	48	20
76	Ubur-Ubur	0	0	0	0	0	0
	Jumlah Tan M./Total Tonnes	72,558	164	11,327	12,917	32,521	15,629

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
 Usaha Menangkap Ikan: Bilangan Trip Menangkap Ikan Mengikut Jenis Perkakas Dan Negeri, 1990
 Fishing Effort: Number Of Trips By Type Of Gear And By State In 1990

JADUAL (TABLE) 5.1

Jenis Perkakas Type of Gear	Pukat Tunda Trawl Nets					Pukat Tarik (Seine Nets)															Pukat Hanyut Drift/ Gill Nets	Pukat Tangguk Lift Nets	Perangkap- Perangkap Traps		Pancing Pukat Pukat Pukat Memungut Rampalan Hooks & Lines Bag Nets Barrier Nets Push/ Scoop Nets Shellfish Collection Miscella- neous					
						Pukat Jerut Ikan Purse Fish-Seine					Pukat Jerut Bili Purse Seine Anchovy					Lain- Lain Pukat Tarik Other Seines	Belat- Belat Station -ary	Bubu Portable												
Negeri/State	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & above				1,816	50,275			0	205						
Perlis	25,768	59,265	1,904	0	0	0	0	5,190	2,349	600	0	0	0	0	0	0	1,816	50,275	0	205	0	905	0	0	1,066	825	0			
Kedah	23,118	53,685	28,540	11,724	286	0	0	0	2,310	119	0	0	0	4,465	12,455	11,476	226,604	0	0	0	18,835	14,103	0	0	1,270	12,861				
P.Pinang/ Penang	0	0	22,100	786	62	0	794	3,338	3,142	133	0	0	0	0	0	0	45,108	413,765	0	0	360	11,037	0	45,135	6,084	1,200	4,773			
Perak	73,225	344,457	24,823	21,504	951	1,536	0	728	7,046	216	0	0	0	8,666	0	127,986	381,971	0	0	8,085	49,551	0	12,896	34,796	10,442	34,512				
Selangor	93,366	98,923	29,241	10,732	3,860	0	0	408	1,349	0	0	0	0	2	0	3,820	234,022	0	2,752	9,529	18,764	0	32,100	7,918	4,617	7,081				
N.Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	809	33,993	0	0	565	926	0	0	0	0	743				
Malaka/ Malacca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	995	130,866	0	480	38	21,309	0	0	34,971	0	0				
Johor Barat/ West Johore	18,027	55,880	1,471	0	0	0	0	0	0	0	0	0	0	0	0	574	285,057	0	5,380	903	1,165	3,237	0	11,102	0	3,657				
Kelantan	0	43,728	940	0	194	0	0	412	1,026	210	0	0	0	0	0	56	59,518	3,319	0	287	22,510	0	0	0	0	0				
Terengganu	6,146	52,134	3,534	131	3,582	130	10,975	7,209	5,824	733	621	3,534	250	0	0	0	44,362	6,249	0	23,071	138,968	0	0	252	0	0				
Pahang	70,168	23,814	5,141	2,969	961	0	69	157	2,755	144	0	1,274	364	290	0	0	28,605	2,222	0	5,920	6,416	0	0	0	0	0				
Johor Timur/ East Johore	15,632	13,334	4,269	4,335	708	144	1,003	660	3,829	59	0	0	0	0	0	0	63,834	0	11,556	1,002	15,793	17,513	0	0	0	1,139				

* GRT - Gross Relative Tonnage

JADUAL (TABLE) 5.2

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
Usaha Menangkap Ikan: Bilangan Hari Menangkap Ikan Mengikut Jenis Perkakas Dan Negeri, 1990
Fishing Effort: Number Of Fishing Days By Type Of Gear And By State In 1990

Jenis Perkakas Type of Gear	Pukat Tunda Trawl Nets					Pukat Tarik (Seine Nets)										Pukat Hanyut	Pukat Tangguk	Perangkap- Perangkap Traps		Pancing	Pukat Bekul	Pukat Rentang	Pukat Surung	Memungut Siput	Rampalan	
						Pukat Jerut Ikan Purse Seine-Fish					Pukat Jerut Bili Purse Seine Anchovy															Lain- Lain Pukat Tarik Other Seines
Negeri/State	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & above	Drift/ Gill Nets	Lift Nets	Belat- Belat Station- ary	Bubu Port- able	Hooks & Bag Lines Nets	Barrier Nets	Push/ Scoop Nets	Shellfish Collection	Miscella- neous		
Perlis	28,041	68,070	9,104	0	0	0	0	6,713	10,666	4,802	0	0	0	0	0	1,616	132,356	0	205	0	2,603	0	970	730	825	2,181
Kedah	23,118	53,685	45,452	27,204	573	0	0	0	2,310	359	0	0	0	4,465	12,455	11,478	226,604	0	0	0	18,835	14,103	6,280	0	1,270	12,861
P.Pinang/ Penang	0	0	22,100	789	171	0	794	3,338	3,142	399	0	0	0	0	0	45,108	413,765	0	0	720	11,037	15,045	22,928	5,793	1,200	4,773
Perak	73,225	349,377	27,604	61,477	5,624	1,536	0	728	7,046	216	0	0	0	4,340	0	127,986	381,971	0	0	13,145	49,677	12,896	16,650	34,010	10,442	34,512
Selangor	93,366	98,923	36,392	14,024	3,098	0	0	408	1,349	0	0	0	0	2	0	3,820	236,352	0	2,572	9,859	19,345	32,039	5,378	5,812	4,617	7,081
N.Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	809	33,993	0	0	565	926	0	0	0	0	743
Malaka/ Malacca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	995	131,742	0	480	38	21,309	0	18	28,067	0	0
Johor Barat/ West Johore	18,027	55,880	1,583	0	0	0	0	0	0	0	0	0	0	0	0	574	285,057	0	3,120	2,433	1,165	1,958	0	25,428	0	3,657
Kelantan	0	44,934	4,480	0	971	0	0	930	2,652	1,054	0	0	0	0	0	0	59,190	3,609	0	1,694	38,734	0	0	0	0	0
Terengganu	15,258	52,884	9,896	576	39,362	130	14,215	13,401	10,178	4,401	621	35,344	250	0	0	0	46,187	6,339	0	47,845	232,698	0	0	0	0	0
Pahang	70,784	23,814	14,004	10,174	7,695	0	0	165	2,785	1,159	0	1,274	362	290	0	0	26,645	2,222	0	5,780	12,399	0	0	0	0	0
Johor Timur/ East Johore	15,632	15,410	15,736	23,736	5,866	144	1,013	758	4,538	415	0	0	0	0	0	0	68,946	0	11,377	2,736	24,624	17,513	0	0	0	1,237

* GRT - Gross Relative Tonnage

SEMANAJUNG MALAYSIA/PENINSULAR MALAYSIA
Usaha Menangkap Ikan: Bilangan Kali Memukat Ikan Mengikut Jenis Perkakas Dan Negeri, 1990
Fishing Effort: Number Of Hauls By Type Of Gear And By State In 1990

JADUAL (TABLE) 5.3

Jenis Perkakas Type of Gear	Pukat Tunda Trawl Nets					Pukat Tarik (Seine Nets)										Pukat Hanyut Drift/ Gill Nets	Pukat Tangguk Lift Nets	Perangkap- Perangkap Traps		Pancing Hooks & Lines	Pukat Bakul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/ Scoop Nets	Memungut Siput Shell- fish Collec- tion	Rampelan Miscella- neous	
						Pukat Jerut Ikan Purse Seine-Fish					Pukat Jerut Bilis Purse Seine Anchovy							Lain- Lain Pukat Tarik Other Seines	Belat- Belat Station Port- -ary							Bubu Bubu able
Negeri/State	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & above	0-9.9 GRT	10-24.9 GRT	25-39.9 GRT	40-69.9 GRT	70 GRT & above											
Perlis	78,672	205,465	27,340	0	0	0	0	9,253	11,974	7,896	0	0	0	0	0	1,496	206,435	0	205	0	1,837	0	986	1,066	17,850	2,081
Kedah	60,354	180,111	159,336	90,276	901	0	0	0	4,620	563	0	0	0	8,930	24,910	103,240	453,208	0	0	0	1,238	28,206	5,400	0	109,170	884
P.Pinang/ Penang	0	0	66,300	2,367	518	0	2,382	8,734	6,224	798	0	0	0	0	0	850,920	1,062,978	0	0	450	11,037	42,645	22,928	51,330	1,200	4,773
Perak	222,458	1,130,541	100,425	261,330	19,291	4,320	0	1,596	18,537	296	0	0	0	38,066	0	347,412	1,105,454	0	0	0	0	16,466	30,266	195,922	0	0
Selangor	248,569	280,878	107,907	39,556	934	0	0	858	2,690	0	0	0	0	2	0	50,091	738,385	0	5,812	24,250	58,751	128,156	5,378	166,472	95,759	1,075
N.Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,625	95,000	0	0	3,188	926	0	0	0	0	2,223
Malaka/ Malacca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,850	215,632	0	480	198	20,734	0	18	5,766	0	0
Johor Barat/ West Johore	35,108	144,742	3,894	0	0	0	0	0	0	0	0	0	0	0	0	4,724	784,160	0	4,780	91	740	3,237	0	855	0	0
Kelantan	0	173,956	16,370	0	1,876	0	0	2,706	6,591	1,341	0	0	0	0	0	56	206,220	13,021	0	297	4,791	0	0	0	0	0
Terengganu	13,170	122,518	23,433	2,385	40,927	390	25,524	19,482	24,176	20,505	1,594	8,098	750	0	0	0	83,243	14,914	0	0	0	0	0	756	0	0
Pahang	208,543	65,160	49,173	30,882	16,809	0	222	455	7,948	3,477	0	3,822	1,150	870	0	0	65,926	6,876	0	0	0	0	0	0	0	0
Johor Timur/ East Johore	39,450	144,742	48,603	68,038	14,694	144	938	1,086	6,416	1,245	0	0	0	0	0	0	212,427	0	16,522	0	3,506	14,770	0	0	0	120

* GRT - Gross Relative Tonnage

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
HARGA PURATA IKAN DIPANTAI MENGIKUT BULAN, 1990
MONTHLY AVERAGE EX-VESSEL PRICES OF FRESH FISH, 1990
(Harga Dalam \$/Kg/Prices At \$/Kg)

JADUAL (TABLE) 6.1

Jenis-Jenis Ikan Species	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Purata 1990 Average 1990
Bawal Putih	12.59	12.41	10.42	12.21	12.36	11.90	12.67	10.79	11.54	9.73	9.95	11.79	11.53
Bawal Hitam	5.08	5.10	5.85	4.97	5.28	5.20	5.23	5.14	5.44	4.68	4.99	5.45	5.20
Kerapu	5.48	5.75	5.37	5.58	5.82	5.91	5.42	5.63	5.03	5.15	5.29	4.92	5.45
Tenggiri	5.88	5.91	6.06	5.46	5.20	5.64	5.77	5.82	5.62	5.38	5.62	5.51	5.66
Jenahak	5.01	4.87	4.93	5.50	5.16	5.68	5.12	6.04	5.04	5.69	4.90	5.45	5.28
Merah	4.04	4.05	4.00	4.36	4.00	4.17	3.82	3.71	4.04	3.69	4.26	4.50	4.05
Kaci	2.27	2.32	3.00	2.80	0.50	3.05	1.65	1.92	2.86	3.50	1.20	1.66	2.23
Cermin	3.77	3.87	3.82	3.38	3.51	3.69	3.23	3.09	3.32	2.91	2.97	3.01	3.38
Gelama	1.12	1.16	1.20	1.28	1.29	1.32	1.18	1.43	1.11	1.34	1.04	1.42	1.24
Kembong	1.48	1.43	1.79	1.70	1.83	2.07	1.63	2.05	2.42	2.25	2.15	2.23	1.92
Kerisi	2.18	1.79	1.90	2.00	2.36	2.01	2.02	2.37	1.98	1.60	1.70	1.68	1.97
Selayang	0.76	0.81	0.78	0.68	0.64	0.76	0.81	0.75	0.69	0.67	0.79	0.74	0.74
Tamban	0.19	0.59	0.49	0.56	0.40	0.25	0.32	0.50	0.49	0.35	0.25	0.21	0.38
Selar/Pelata	1.47	1.43	1.36	1.50	1.42	1.52	1.26	1.40	1.23	1.24	1.33	1.23	1.37
Sotong	2.35	2.36	2.37	2.39	2.38	2.23	2.38	2.22	2.13	1.82	1.98	2.05	2.22
Aya/Tongkol	1.23	1.39	1.52	1.06	1.24	1.27	1.19	1.01	1.04	0.95	1.10	0.99	1.17
Udang Putih	17.52	16.77	16.16	17.35	17.73	17.21	17.19	17.42	18.38	16.65	17.29	16.99	17.22
Udang Harimau	19.51	19.38	18.52	21.60	17.34	17.09	18.87	19.38	20.24	19.45	18.57	18.12	19.01
Lain-Lain Udang	2.67	2.33	2.24	2.69	2.65	2.51	2.77	2.87	2.65	3.39	2.77	2.72	2.69

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
HARGA BORONG PURATA IKAN BASAH DI PASAR MENGIKUT BULAN, 1990
MONTHLY AVERAGE WHOLESALE PRICES OF FRESH FISH AT MARKET, 1990
(Harga Dalam \$/Kg/Prices at \$/Kg)

JADUAL (TABLE) 6.2

Jenis-Jenis Ikan Species	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Purata 1990 Average 1990
Bawal Putih	11.54	10.45	11.07	11.03	12.04	12.40	14.26	11.85	12.16	10.67	11.25	12.32	11.75
Bawal Hitam	5.57	5.48	6.01	5.53	5.88	5.55	5.38	5.70	5.80	5.34	5.29	6.01	5.63
Kerapu	6.72	6.52	5.98	6.18	6.00	6.82	6.35	6.66	6.23	6.24	6.24	6.45	6.37
Tenggiri	5.96	5.96	5.58	5.77	5.25	5.72	5.82	6.46	5.83	6.16	6.15	5.95	5.88
Jenahak	6.10	6.79	5.69	6.44	6.19	6.64	7.12	6.38	5.84	6.11	7.03	7.08	6.45
Merah	4.67	4.36	4.42	4.70	4.20	4.61	4.19	4.19	4.26	4.40	4.56	5.04	4.47
Kaci	2.23	2.15	2.95	2.50	2.57	2.65	2.57	2.93	2.47	2.68	3.01	2.82	2.63
Cermin	4.44	3.70	3.48	3.63	3.32	3.78	2.82	3.07	3.01	3.21	3.09	2.84	3.37
Gelama	1.52	1.50	1.60	1.62	1.33	1.50	1.34	1.41	1.57	1.40	1.59	1.67	1.50
Kembong	1.88	1.73	1.92	2.27	2.28	2.58	2.12	2.59	2.73	2.88	2.79	2.99	2.40
Kerisi	2.31	2.18	2.24	2.25	2.32	2.29	2.10	2.39	2.15	2.14	2.09	2.13	2.22
Selayang	1.30	1.12	1.23	1.07	0.94	0.94	1.06	1.03	0.96	1.06	1.13	1.13	1.08
Tamban	0.34	0.56	0.51	0.66	0.39	0.30	0.32	4.63	0.49	0.50	0.35	0.29	0.78
Selar/Pelata	1.82	1.62	1.54	1.84	1.48	1.74	1.53	1.64	1.47	1.60	1.60	1.90	1.65
Sotong	2.57	2.57	2.44	2.45	2.44	2.33	2.41	2.33	2.22	2.22	2.41	2.48	2.41
Aya/Tongkol	1.22	1.59	1.69	1.25	1.26	1.48	1.42	1.28	1.13	1.28	1.49	1.22	1.36
Udang Putih	17.62	17.49	17.49	19.00	18.87	18.91	19.02	19.38	19.93	18.62	19.69	19.16	18.77
Udang Harimau	19.64	19.25	19.62	20.06	19.58	18.59	19.43	19.88	20.48	21.19	20.19	20.71	19.89
Lain-Lain Udang	2.92	2.94	2.70	3.08	3.08	3.16	3.16	3.23	3.11	3.27	3.45	3.38	3.12

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
HARGA RUNCIT PURATA IKAN BASAH DIPASAR MENGIKUT BULAN, 1990
MONTHLY AVERAGE RETAIL PRICES OF FRESH FISH AT MARKET, 1990
(Harga Dalam \$/Kg/Prices At \$/Kg)

JADUAL (TABLE) 6.3

Jenis-Jenis Ikan Species	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Purata 1990 Average 1990
Bawal Putih	13.37	12.72	12.84	12.58	14.25	14.52	15.99	13.90	14.16	12.30	12.76	14.24	13.64
Bawal Hitam	6.59	7.23	7.18	6.59	7.01	6.94	6.59	6.70	6.82	7.04	6.56	7.22	6.87
Kerapu	8.27	8.32	7.53	7.06	7.95	8.67	8.25	8.21	7.99	7.81	7.86	8.60	8.04
Tenggiri	7.21	7.23	7.19	7.03	6.42	7.16	7.28	7.15	7.46	7.71	7.31	7.57	7.23
Jenahak	7.24	7.45	7.76	7.38	7.36	7.93	8.37	7.73	7.18	7.58	8.13	8.71	7.74
Merah	5.73	5.38	5.77	5.74	5.22	5.69	5.28	5.08	5.51	5.62	5.75	6.47	5.60
Kaci	3.44	3.69	3.73	3.77	3.75	4.09	3.75	6.70	3.71	4.01	3.99	3.53	4.01
Cermin	5.19	4.15	4.33	4.56	3.96	4.77	3.56	3.81	3.98	3.83	3.93	4.87	4.25
Gelama	2.13	2.13	2.21	2.27	1.94	2.16	1.99	1.92	2.19	2.09	2.28	2.43	2.15
Kembong	2.76	2.16	2.57	2.96	2.96	3.30	2.81	3.51	3.64	3.71	3.93	3.88	3.18
Kerisi	3.32	3.15	3.20	3.23	3.25	3.21	3.03	3.35	3.06	3.00	3.12	3.09	3.17
Selayang	1.67	1.55	1.63	1.47	1.38	1.83	1.42	1.40	1.66	1.46	1.52	1.50	1.54
Tamban	0.58	0.89	0.74	1.02	0.65	0.47	0.47	0.72	0.73	0.74	0.52	0.46	0.67
Selar/Pelata	2.37	2.16	2.00	2.34	2.06	2.28	2.03	2.18	1.96	2.12	2.17	2.52	2.18
Sotong	3.49	3.46	3.23	3.06	3.05	2.92	3.10	3.05	2.95	2.94	3.21	3.27	3.14
Aya/Tongkol	1.55	1.94	2.04	1.65	1.68	1.95	1.87	1.75	1.63	1.76	1.95	1.60	1.78
Udang Putih	20.23	19.64	20.14	21.32	20.88	21.16	21.18	21.57	22.08	20.94	21.97	21.81	21.08
Udang Harimau	22.91	21.93	22.24	23.47	22.19	22.60	21.80	22.09	24.05	24.11	23.12	24.63	22.93
Lain-Lain Udang	3.56	3.56	3.35	3.71	3.71	3.78	3.81	3.88	3.66	3.93	4.08	4.01	3.75

SARAWAK
HARGA BORONG PURATA IKAN BASAH DI PASAR-PASAR MENGIKUT DAERAH, 1990
AVERAGE WHOLESALE PRICES OF FRESH FISH AT MARKET BY DISTRICTS, 1990

JADUAL (TABLE) 6.4

JENIS IKAN (SPECIES)	Kuching	Btg Lupar	Sarikei	Sibu	Mukah	Miri	Bintulu	Limbang	Lawas	Purata (Average)
Bawal Putih	11.02	0.00	7.22	7.52	5.00	9.00	7.14	0.00	0.00	7.82
Bawal Hitam	6.53	6.67	4.44	6.08	4.00	6.21	4.96	0.00	0.00	6.48
Kerapu	4.48	0.00	3.15	5.00	0.00	5.57	3.44	5.00	0.00	6.66
Tenggiri	3.63	6.35	3.37	3.04	4.20	4.51	3.19	5.00	0.00	5.55
Jenahak	4.28	0.00	3.33	3.50	0.00	4.18	0.00	0.00	0.00	3.82
Merah	4.68	5.10	2.94	2.00	2.67	2.93	2.40	5.00	0.00	5.54
Kaci	2.22	0.00	1.40	2.10	0.00	0.00	0.00	0.00	0.00	1.91
Cermin/Sagai/Cupak	0.00	0.00	0.00	1.10	0.00	1.25	0.00	0.00	0.00	0.78
Gelama	1.53	2.15	1.89	1.17	2.00	1.49	0.88	0.00	2.28	1.91
Kembong	2.28	2.95	2.74	1.50	2.00	4.39	2.36	4.00	4.64	3.36
Kerisi	0.00	0.00	1.00	1.00	0.00	1.12	1.76	0.00	2.00	1.38
Selayang	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00
Tamban	1.44	0.00	0.00	0.00	0.00	1.44	0.00	1.00	1.59	1.82
Pelata/Selar	2.63	3.18	1.40	2.00	1.44	1.57	1.82	2.00	0.00	2.67
Sotong	2.48	3.28	1.34	1.46	0.00	1.84	2.22	0.00	0.00	2.10
Tongkol/Kayu/Aya	2.49	3.52	1.47	1.92	2.45	2.84	2.48	3.50	3.69	4.06
Udang Putih	12.04	7.00	7.85	8.46	0.00	5.82	0.00	6.50	5.83	10.70
Udang Harimau Sedang	0.00	0.00	15.00	15.00	0.00	0.00	0.00	0.00	14.00	22.00
Udang Cendana/Rotan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lain-Lain Udang	3.94	6.18	4.16	4.44	3.50	2.84	4.79	0.00	9.00	6.48

SARAWAK
HARGA RUNCIT PURATA IKAN BASAH DI PASAR-PASAR MENGIKUT DAERAH, 1990
AVERAGE RETAIL PRICES OF FRESH FISH AT MARKET BY DISTRICTS, 1990

JADUAL (TABLE) 6.5

JENIS IKAN (SPECIES)	Kuching	Btg Lupar	Sarikei	Sibu	Mukah	Miri	Bintulu	Limbang	Lawas	Purata (Average)
Bawal Putih	16.08	9.00	10.52	9.53	7.00	13.90	10.68	0.00	0.00	12.79
Bawal Hitam	11.26	8.00	8.03	7.75	6.60	9.29	7.34	0.00	0.00	9.71
Kerapu	8.01	0.00	6	7.17	0.00	8.57	5.33	8.00	8.00	12.77
Tenggiri	5.66	7.00	5.65	5.49	6.20	7.71	5.87	8.00	6.91	9.75
Jenahak	7.09	0.00	6	5.75	0.00	7.30	0.00	0.00	0.00	6.54
Merah	8.07	6.00	4.58	3.70	4.33	5.67	4.49	8.00	8.00	10.57
Kaci	2.72	0.00	3.14	2.40	0.00	0.00	0.00	0.00	0.00	2.75
Cermin/Sagai/Cupak	0.00	0.00	0	3.50	0.00	2.50	0.00	0.00	5.50	3.83
Gelama	2.97	3.10	2.58	1.74	4.00	3.59	1.89	0.00	4.67	3.51
Kembong	4.33	4.00	3.57	3.14	4.00	5.62	2.84	5.75	5.31	4.82
Kerisi	0.00	0.00	2.72	2.20	0.00	2.50	3.27	0.00	3.50	2.84
Selayang	0.00	0.00	0	0.00	0.00	0.00	4.00	0.00	0.00	0.00
Tamban	2.65	0.00	0	0.00	0.00	3.07	0.00	3.00	3.00	3.91
Pelata/Selar	3.62	4.25	2	2.60	3.00	3.50	3.33	0.00	0.00	3.72
Sotong	3.50	4.00	3.42	3.05	0.00	3.59	3.80	0.00	0.00	3.56
Tongkol/Kayu/Aya	3.41	4.50	3.62	4.00	5.00	5.04	4.53	5.75	6.09	6.99
Udang Putih	18.65	8.00	9.22	9.59	0.00	8.99	0.00	8.00	8.00	14.09
Udang Harimau Sedang	0.00	0.00	18	18.00	0.00	0.00	0.00	0.00	17.00	26.50
Udang Cendana/Rotan	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lain-Lain Udang	5.95	7.93	6.14	5.71	5.75	4.84	7.41	0.00	0.00	7.29

MALAYSIA
NILAI HARGA BORONG PENDARATAN IKAN LAUT, 1990
WHOLESALE VALUE OF MARINE FISH LANDINGS, 1990

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. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$
Perlis	1,075	5,278,163	35	30,324	34,028	47,543,570	4,933	30,597,703	5,404	1,393,172	731	633,317	48,206	85,476,249
Kedah	2,001	17,593,820	535	549,895	49,011	69,518,286	4,252	39,857,161	27,957	7,200,896	2,652	2,865,272	86,408	137,585,130
P. Pinang/Penang	827	8,334,270	158	53,536	19,686	29,828,127	5,743	44,107,465	25,840	8,169,136	24	48,503	52,278	90,541,037
Perak	5,371	33,352,566	5,627	11,194,204	83,968	150,336,842	29,347	140,211,620	94,449	26,777,386	282	448,846	219,044	382,321,284
Selangor	3,245	22,404,987	2,454	1,401,738	23,956	42,967,188	21,984	64,354,227	34,541	10,321,277	786	681	86,966	141,450,098
Negeri Sembilan	81	820,970	34	19,351	196	255,616	38	685,171	0	0	0	0	349	1,761,108
Malaka/Malacca	704	6,830,766	154	69,692	1,005	1,837,287	500	2,943,039	0	0	0	0	2,363	11,680,784
Johor Barat/ West Johore	1,268	12,829,829	482	178,299	5,338	7,200,702	5,384	30,695,756	4,385	1,003,794	0	0	16,857	51,908,380
Jumlah Kecil	14,572	107,445,371	9,479	13,497,039	217,188	349,487,418	72,181	353,432,142	192,576	54,865,461	4,475	3,996,619	510,471	882,724,050
Kelantan	1,762	7,470,411	910	2,449,785	23,948	38,393,167	845	5,907,133	4,092	745,136	0	0	31,557	54,965,632
Terengganu	1,951	13,407,776	2,386	10,415,633	80,455	157,019,724	999	6,973,801	11,445	1,788,606	0	0	97,236	189,605,540
Pahang	1,437	8,498,992	1,390	4,939,785	42,383	90,692,659	1,947	15,126,741	58,213	12,055,532	0	0	105,370	131,313,709
Johor Timur/ East Johore	1,358	7,938,656	1,375	5,942,106	32,613	56,885,124	3,619	15,074,932	36,304	6,497,869	0	0	75,269	92,338,687
Jumlah Kecil	6,508	37,315,835	6,061	23,747,309	179,399	342,990,674	7,410	43,082,607	110,054	21,087,143	0	0	309,432	468,223,568
Sarawak	6,130	40,641,900	3,070	9,240,700	49,111	118,853,400	14,216	185,660,960	6,176	3,396,800	175	397,900	78,878	358,191,660
Sabah	6,302	27,312,260	3,088	18,792,030	22,796	78,397,320	10,450	103,577,600	2,071	1,626,474	53	329,424	44,760	230,035,108
W.P. Labuan	864	3,909,728	728	2,939,208	5,318	10,306,184	824	4,260,638	32	5,130	0	0	7,766	21,420,888
Jumlah Kecil	13,296	71,863,888	6,886	1,469,604	77,225	207,556,904	25,490	293,499,198	8,279	5,028,404	228	727,324	131,404	609,647,656
JUMLAH/TOTAL	34,376	216,625,094	22,426	38,713,952	473,812	900,034,996	105,081	690,013,947	310,909	80,981,008	4,703	4,723,943	951,307	1,980,595,274

NOTA/NOTE:

Gred I Termasuk Bawal Tambak, Bawal Putih, Bawal Hitam, Senangin/Kurau, Tenggiri, Parang dan Kerapu.

(Grade I) Includes Chinese Pomfret, Silver Pomfret, Black Pomfret, Threadfin, Spanish Mackerel, Wolf Herring and Grouper.

Gred II Termasuk Jenahak, Terubuk, Puput-puput, Merah, Kaci, Cermin, 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 Bilis, Sotong, Ketam dan Obor-Obor.

(Grade III) Other Species Including Anchovy, Squids, Crabs and Jellyfish.

MALAYSIA
NILAI HARGA RUNCIT PENDARATAN IKAN LAUT, 1990
RETAIL VALUE OF MARINE FISH LANDINGS, 1990

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. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$	Tan M. (Tonnes)	\$
Perlis	1,075	5,862,149	35	34,361	34,028	57,305,085	4,933	36,999,867	5,404	1,586,028	731	855,540	46,206	102,643,028
Kedah	2,001	23,496,599	535	863,303	49,011	102,263,345	4,252	47,729,133	27,957	8,855,408	2,652	4,976,995	86,408	188,184,783
P. Pinang/Penang	827	9,218,042	158	61,253	19,686	36,863,301	5,743	48,686,420	25,840	8,169,136	24	48,503	52,278	103,046,655
Perak	5,371	42,171,091	5,627	15,352,701	83,968	232,228,776	29,347	176,225,530	94,449	39,087,911	282	673,086	219,044	505,739,085
Selangor	3,245	25,913,059	2,454	1,916,774	23,956	57,582,088	21,984	74,890,549	34,541	15,421,151	786	1,058,669	86,966	176,782,290
Negeri Sembilan	81	913,941	34	22,471	196	336,078	38	720,682	0	0	0	0	349	1,993,172
Melaka/Malacca	704	7,615,071	154	80,854	1,005	2,473,336	500	3,258,723	0	0	0	0	2,363	13,427,984
Johor Barat/ West Johore	1,268	14,389,058	482	223,729	5,338	11,388,821	5,384	35,451,568	4,385	1,003,794	0	0	16,857	62,456,970
Jumlah Kecil	14,572	129,579,010	9,479	18,555,446	217,188	500,440,830	72,181	423,962,472	192,576	74,123,426	4,475	7,612,793	510,471	1,154,273,977
Kelantan	1,762	875,945	910	2,900,946	23,948	46,886,657	845	6,674,953	4,092	745,138	0	0	31,557	58,083,637
Terengganu	1,951	14,796,464	2,386	11,720,778	80,455	201,135,004	999	7,927,072	11,445	1,876,559	0	0	97,236	237,455,877
Pahang	1,437	12,363,388	1,390	6,724,406	42,383	135,884,563	1,947	20,739,795	58,213	12,055,532	0	0	105,370	187,767,684
Johor Timur/ East Johore	1,358	9,682,192	1,375	7,504,137	32,613	85,747,200	3,619	21,768,767	36,304	6,497,869	0	0	75,269	131,200,165
Jumlah Kecil	6,508	37,717,989	6,061	28,850,267	179,399	469,653,424	7,410	57,110,587	110,054	21,175,096	0	0	309,432	614,507,363
Sarawak	6,130	68,962,500	3,070	18,174,400	49,111	205,783,470	14,216	226,887,360	6,176	3,398,800	175	519,000	78,878	523,723,530
Sabah	6,302	31,746,280	3,088	22,130,060	22,796	95,273,880	10,450	124,540,400	2,071	1,626,474	53	1,867,943	44,760	277,185,037
W.P Labuan	864	4,752,000	728	4,069,520	5,318	16,800,880	824	6,072,880	32	5,120	0	0	7,766	31,700,400
Jumlah Kecil	13,296	105,460,780	6,886	44,451,205	77,225	317,858,230	25,490	357,500,640	8,279	5,028,394	228	2,386,943	131,404	832,608,967
JUMLAH/TOTAL	34,376	272,757,779	22,426	91,856,918	473,812	1,287,952,484	105,061	838,573,699	310,909	100,328,916	4,703	9,999,736	951,307	2,601,390,307

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 Siakap.
 (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 Obor-Obor.
 (Grade 111) Other Species Including Anchovy, Squids, Crabs and Jellyfish.

SEMANJUNG MALAYSIA/PENINSULAR MALAYSIA
NILAI PENDARATAN IKAN LAUT MENGIKUT KUMPULAN PERKAKAS DAN GRED IKAN, 1990
VALUE OF MARINE FISH LANDINGS BY GEAR GROUP AND GRADE OF FISH, 1990

JADUAL (TABLE) 7.3

Pendaratan dan Nilai Landings and Values	Pukat Tunda Trawl Nets	Pukat Tarik/Purse Seine			Pukat Hanyut Drift/Gill Nets	Pukat Tangguk Lift Nets	Perangkap/Trape		Pancing Hooks and Lines	Pukat Bekul Bag Nets	Pukat Rentang Barrier Nets	Pukat Surung Push/Scoop Nets	Memungut Stiput Shellfish Collection	Rampalan Miscellaneous	Jumlah Total
		Pukat Jerut Ikan Purse Seine- Fish	Pukat Jerut Bille Purse Seine- Anchovy	Lain Pukat Tarik Other Seines			Belat-Belat Stationary	Bubu Portable							
Gred I (Grade I)	Tonne	9,903	1,087	0	3	7,319	0	14	822	2,137	5	0	0	0	21,090
	N.B.\$	67,973,932	7,461,139	0	20,592	50,237,424	0	98,098	4,269,392	14,668,312	34,320	0	0	0	144,761,206
	N.R.\$	78,555,817	8,622,657	0	23,798	58,058,187	0	111,055	4,934,032	16,951,811	39,963	0	0	0	167,296,999
Gred II (Grade II)	Tonne	9,632	412	1	0	2,459	0	6	1,855	1,148	0	19	0	0	15,540
	N.B.\$	23,084,785	987,431	2,397	0	5,893,427	0	14,380	4,445,834	2,751,384	0	45,537	0	0	37,244,348
	N.R.\$	29,383,000	1,256,831	3,051	0	7,501,329	0	18,303	5,658,790	3,502,044	0	57,961	0	0	47,405,713
Gred III (Grade III)	Tonne	175,844	118,452	30,624	456	39,290	6,380	348	4,075	13,533	4,197	827	226	0	396,576
	N.B.\$	306,699,402	206,834,037	53,473,859	796,241	68,605,927	11,140,387	607,657	7,115,529	23,630,542	7,328,559	1,444,060	394,628	0	692,478,092
	N.R.\$	429,855,943	289,754,308	74,911,680	1,115,456	96,110,212	15,606,596	851,269	9,968,163	33,104,085	10,266,596	2,022,987	552,636	0	970,064,254
Udang (Prawn)	Tonne	42,737	0	0	9,686	7,406	0	487	5	0	17,033	156	2,077	0	79,591
	N.B.\$	212,911,646	0	0	48,254,728	36,895,984	0	2,426,187	24,910	0	84,856,777	777,177	10,347,415	0	398,514,749
	N.R.\$	258,315,881	0	0	58,545,233	44,764,195	0	2,943,581	30,222	0	102,952,814	942,913	12,554,042	0	481,073,059
Ikan Baji (Manure Fish)	Tonne	278,654	4,357	120	7,993	5,741	0	16	0	0	4,548	378	822	0	302,630
	N.B.\$	69,935,224	1,093,499	30,117	2,006,044	1,440,848	0	4,016	0	0	1,141,435	94,869	206,302	0	75,952,604
	N.R.\$	87,748,453	1,372,024	37,788	2,517,005	1,807,847	0	5,038	0	0	1,432,170	119,033	258,849	0	95,298,522
Karang- Karangan (Shellfish)	Tonne	155	0	0	0	0	0	0	0	0	0	0	4,320	0	4,475
	N.B.\$	138,430	0	0	0	0	0	0	0	0	0	0	3,858,189	0	3,996,619
	N.R.\$	263,683	0	0	0	0	0	0	0	0	0	0	7,349,110	0	7,612,793
JUMLAH TOTAL	Tonne	516,725	124,308	30,745	18,138	62,215	6,380	871	6,557	16,818	25,783	1,380	3,125	4,320	819,902
	N.B.\$	680,743,420	216,378,105	53,506,373	51,077,803	163,073,610	11,140,387	3,148,336	15,855,665	41,050,239	93,361,090	2,361,642	10,948,345	3,858,189	1,350,947,618
	N.R.\$	883,922,778	301,005,821	74,952,499	82,201,491	208,241,750	15,606,596	3,929,247	20,591,206	53,557,939	114,691,243	3,142,893	13,965,726	7,349,110	1,768,781,340

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

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

NOTA/NOTE:

- Gred 1 Termasuk Bawal Tambak, Bawal Putih, Bawal Hitam, Senangin/Kurau, Tenggil, Paarang dan Kerapu.
(Grade 1) Includes Chinese Pomfret, Silver Pomfret, Black Pomfret, Threadfin, Spanis * Harga runcit untuk ikan baji tidak ada/There is no retail price for trash fish
- Gred 11 Termasuk Jenahak, Terubuk, Puput-puput, Merah, Kad, Cermin, Demuduk dan Siakap.
(Grade 11) Includes Mangrove Snapper, Longtail Shad, Shade, Red Snapper, Sweetlip, Horse Mackerel and Giant Sea Perch.
- Gred 111 Lain-Lain Ikan Termasuk Ikan Biliis, Sotong, Ketam dan Obor-Obor.
(Grade 111) Other Species Including Anchovy, Squids, Crabs and Jellyfish.

MALAYSIA
SIRI TAHUNAN PENDARATAN IKAN LAUT DAN NILAI TAHUN 1986 - 1990
ANNUAL SERIES OF MARINE FISH LANDINGS AND VALUES FOR THE YEAR 1986 - 1990

JADUAL (TABLE) 8

Negeri/State	1986		1987		1988		1989		1990	
	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value	Kuantiti (Tan M) Quantity (Tonnes)	Nilai Value
Pantai Barat (West Coast):										
Perlis	29,065	70,816,510	66,856	69,615,500	40,731	60,302,609	42,360	63,423,110	46,206	85,476,249
Kedah	55,327	120,454,070	94,091	103,044,610	72,775	82,999,613	75,615	109,581,375	86,408	137,585,130
Pulau Pinang/Penang	20,868	58,380,270	29,752	53,409,330	22,230	33,712,136	38,624	74,742,732	52,278	90,541,037
Perak	135,889	316,887,440	203,774	251,514,600	179,982	239,564,023	198,974	355,271,992	219,044	362,321,264
Selangor	64,260	136,156,450	87,157	126,893,470	90,891	119,725,532	112,646	143,954,783	86,966	141,450,098
Negeri Sembilan	323	1,998,360	352	1,723,200	310	4,587,610	221	1,322,125	349	1,761,108
Melaka/Malacca	2,201	10,463,090	2,444	9,429,020	2,482	11,285,828	1,989	10,228,601	2,363	11,680,784
Johor Barat/West Johore	16,114	37,711,920	15,439	28,183,440	20,787	40,425,329	18,905	48,728,895	16,857	51,908,380
Jumlah Kecil/Sub-Total:	324,047	752,868,110	499,865	643,813,170	430,188	592,602,680	489,334	807,253,613	510,471	882,724,050
Pantai Timur/East Coast:										
Kelantan	10,223	21,385,490	23,166	37,313,420	18,002	35,006,988	32,982	68,109,650	31,557	54,965,632
Terengganu	52,228	132,662,080	115,016	162,157,710	83,456	114,138,454	78,815	169,676,643	97,236	189,605,540
Pahang	30,935	54,370,850	66,519	84,478,400	95,047	113,776,964	68,730	94,653,071	105,370	131,313,709
Johor Timur/East Johore	28,943	56,485,640	36,005	56,673,140	67,756	123,018,284	77,023	94,161,564	75,269	92,338,687
Jumlah Kecil/Sub-Total:	122,329	264,904,060	240,706	340,622,670	264,261	385,940,690	257,550	426,600,928	309,432	468,223,568
Sarawak	67,971	155,500,000	69,443	187,900,000	79,642	190,109,180	84,356	224,540,000	78,878	358,191,660
Sabah	46,900	163,500,000	47,640	165,500,000	48,000	197,000,000	44,000	186,231,000	44,760	230,035,108
W.P. Labuan	720	2,500,000	1,360	4,700,000	3,540	10,216,326	7,252	21,195,567	7,766	21,420,888
Jumlah Kecil/Sub-Total:	115,591	321,500,000	118,443	358,100,000	131,182	397,325,506	135,608	431,966,567	131,404	609,647,656
Jumlah Besar/Grand-Total:	561,967	1,339,272,170	859,014	1,342,535,840	825,631	1,375,868,876	882,492	1,665,821,108	951,307	1,960,595,274

MALAYSIA
PENDARATAN DAN NILAI IKAN LAUT MENGIKUT NEGERI BAGI TAHUN 1990
LANDINGS AND VALUES OF MARINE FISH BY STATE FOR THE YEAR 1990

Jadual (Table) 9

Kuantiti & Peratus Quantity & Percentage Negeri/State	Pantai Barat/West Coast								Pantai Timur/East Coast							Jumlah Besar Grand Total
	Perlis	Kedah	P.Pinang Penang	Perak	Selangor	Negeri Sembilan	Malaka Malacca	Johor Barat West Johore	Kelantan	Terengganu	Pahang	Johor Timur East Johore	Sarawak	Sabah	W.P. Labuan	
Pendaratan (Tan Metrik) Landing (Tonnes)	46,208	86,408	52,278	219,044	86,968	349	2,363	16,857	31,557	97,236	105,370	75,269	78,878	44,760	7,768	951,307
Peratus Percentage	4.86	9.08	5.50	23.03	9.14	0.04	0.25	1.77	3.32	10.22	11.08	7.91	8.29	4.71	0.82	100.00
Nilai dalam Ringgit Value in Ringgit	85,476,249	137,585,130	90,541,037	362,321,264	141,450,098	1,781,108	11,680,784	51,908,380	54,965,632	189,605,540	131,313,700	92,338,687	358,191,680	230,035,108	21,420,888	1,960,595,274
Peratus Percentage	4.36	7.02	4.62	18.48	7.21	0.09	0.60	2.65	2.80	9.87	6.70	4.71	18.27	11.73	1.09	100.00

SEMANAJUNG MALAYSIA/PENINSULAR MALAYSIA
 PENGGUNAAN PENDARATAN IKAN LAUT, 1990
 DISPOSITION OF MARINE FISH LANDINGS, 1990
 Timbangan dalam Tan Metrik/Weight in Tonnes

Jadual (Table) 10.1

Cara Penggunaan Disposition Channel	Pantai Barat/West Coast								Jumlah Kecil Sub-Total	Pantai Timur/East Coast				Jumlah Kecil Sub-Total	Jumlah Besar Grand Total
	Perlis	Kedah	Pulau Pinang Penang	Perak	Selangor Darul Ehsan	Negeri Sembilan	Melaka Malacca	Johor Barat West Johore		Kelantan	Terenggan	Pahang Darul Makmur	Johor Timur East Johore		
Diguna secara hidup Disposed alive	-	-	-	-	-	-	-	-	0.00	-	-	-	-	0	0
Diguna secara basah Disposed fresh	45,690	44,338	47,320	91,599	30,842	349	1,184	15,303	276,625	29,926	80,103	85,122	44,092	239,243	515,868
Diguna untuk dibeku Disposed for freezing	-	-	-	7,138	-	-	-	-	7,138	-	-	-	-	0	7,138
Diguna untuk mengering Disposed for canning	-	-	-	-	-	-	-	-	0	-	-	-	-	0	0
Diguna untuk diawetkan Disposed for curing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kering/Masin/Diasap Dried/Salted/Smoked	507	17,964	1,635	15,230	7,494	-	18	153	43,001	400	5,678	527	100	6,705	49,706
Rebus Steamed/Boiled	-	-	-	6,613	28	-	-	52	6,693	-	-	185	-	185	6,878
Diragikan Fermented	9	9	1,919	1,491	10,912	-	1,155	728	16,223	687	1,030	-	1,094	2,811	19,034
Lain-Lain Others	-	15	-	2,532	-	-	6	57	2,610	544	10,425	1,838	375	13,182	15,792
Diguna untuk mengubahkan Disposed for reduction	-	22,340	1,076	67,104	33,708	-	-	564	124,792	-	-	17,676	29,608	47,284	172,076
Diguna untuk lain-lain Disposed for others	-	1,742	328	27,337	3,982	-	-	-	33,389	-	-	22	-	22	33,411
Jumlah (Tan Metrik) Total (Tonnes)	46,206	86,408	52,278	219,044	86,966	349	2,363	16,857	510,471	31,557	97,236	105,370	75,269	309,432	819,903

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
HASIL IKAN LAUT YANG DIAWETKAN 1990
PROCESSED MARINE FISH PRODUCTS 1990
Timbangan dalam Tan Metrik/Weight in Tonnes

Jadual (Table) 10.2

Negeri/(State)	Ikan Masin/ Ikan Kering (Salted/ Dried Fish)	Bilis Kering (Dried Anchovies)	Ikan Rebus (Boiled Fish)	Ikan Baja (Manure Fish)	Tepung Ikan (Fish Meal)	Udang Kering (Dried Prawn)	Otak Udang (Prawn Paste)	Belacan (Shrimp Paste)	Keropok(Crackers)		Cincaluk (Pickled Prawn)	Sotong Kering (Dried Cuttle- Fish)	Budu (Fermented Anchovies)	Ubur- Ubur (Dried Jelly Fish)	Lela Kering (Dried Shell- fish)	Bebola Ikan (Fish Ball)	Sotong Beku (Frozen Cuttle- Fish)	Sotong Ikan (Frozen Fish)	Ikan Beku (Frozen Fish)	Udang Beku (Frozen Prawn)	Jumlah (Total)
									Ikan (Fish)	Udang (Prawn)											
Partai Barat/ West Coast:																					
Perlis	280	0	0	0	0	10	0	3	0	0	0	0	0	0	0	0	0	0	0	0	290
Kedah	845	4,139	0	1,045	5,585	0	0	3	7	3	0	0	0	0	0	0	0	0	0	0	11,626
Pulau Pinang	538	0	0	197	269	87	16	563	0	0	0	0	0	39	0	0	0	0	0	0	1,710
Perak	1,590	2,146	1,120	16,402	16,776	954	0	477	0	0	0	45	0	0	0	4,170	716	633	460	3,107	48,596
Selangor	420	0	0	2,389	8,427	126	0	2,728	0	0	0	5	0	617	10	22	0	0	0	0	14,744
N.Sembilan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malaka/Malacca	11	0	0	0	0	0	0	253	2	0	43	0	0	0	0	0	0	0	0	0	309
Johor Barat/ West Johore	20	0	0	0	141	0	0	182	5	13	0	0	0	12	0	41	0	0	0	0	415
Jumlah Kecil/ Sub-Total	3,705	6,286	1,120	20,033	31,198	1,178	16	4,209	14	15	43	50	0	668	10	4,233	716	633	460	3,107	77,691
Partai Timur/ East Coast:																					
Kelantan	240	0	0	0	0	0	0	0	174	0	0	0	206	0	0	0	0	0	0	0	620
Terengganu	1,074	694	0	0	0	0	0	0	3,336	0	0	278	309	0	0	0	0	0	0	0	5,691
Pahang	117	83	0	13	4,419	0	0	0	584	4	0	0	0	0	0	148	0	0	0	0	5,369
Johor Timur/ East Johore	1	22	0	0	7,402	0	0	350	120	0	0	0	0	0	0	0	0	0	0	0	7,894
Jumlah Kecil/ Sub-Total	1,432	799	0	13	11,822	0	0	350	4,214	4	0	278	515	0	0	148	0	0	0	0	19,574
Jumlah Besar/ Grand-Total	5,137	7,085	1,120	20,046	43,019	1,178	16	4,559	4,228	20	43	327	515	668	10	4,381	716	633	460	3,107	97,265

MALAYSIA
KILANG-KILANG AIR BATU DAN KEMUDAHAN-KEMUDAHAN PENYEJOKKAN SEHINGGA 31-12-1990
ICE FACTORIES AND REFRIGERATION FACILITIES AS AT 31-12-1990
(Kuantiti dalam Tan Metrik/Quantity in Tonnes)

Negeri/State	Daya Pengeluaran Harian (Daily Production Capacity)				Kemudahan Menyimpan (Storage Capacity)		
	Bil. (No.)	Kuantiti (Quantity)	Timbangan/Blok Dalam Kg. (Weight/Block In Kg.)	Harga se blok (Price/Block) \$	Bil. (No.)	Kuantiti (Quantity)	
						Ais (Ice)	Ikan (Fish)
Perlis	3	218	145	6.00	12	341	270
Kedah	5	148	100	5.18	60	589	888
P. Pinang/Penang	6	288	145	6.70	13	8,160	7,248
Perak	15	470	45 - 110	5.75	50	2,863	3,458
Selangor	5	248	40 - 165	6.54	33	323	441
Melaka/Malacca	2	46	145	10.00	28	67	372
N. Sembilan	1	28	101	6.40	18	14	28
Johor Barat/ West Johore	10	222	28 - 75	0.00	12	158	0
Johor Timur/ East Johore	2	105	28 - 30	0.00	15	326	450
Pahang	6	454	45 - 136	5.75	6	394	100
Terengganu	12	282	100 - 150	6.95	12	608	2
Kelantan	13	171	45 - 135	4.56	11	496	5,130
Sarawak	35	593	3 - 110	3.04	20	790	2,100
Sabah	38	311	50 - 64	3.72	-	1,070	1,845
Jumlah/Total:	153	3,584	-	-	290	16,199	22,332

SEMENANJUNG MALAYSIA/PENINSULAR MALAYSIA
HASIL PERIKANAN DALAM RINGGIT, 1990
(Fisheries Revenue in Ringgit, 1990)

JADUAL (TABLE) 12

Jenis Hasil (Type of Revenue)	HASIL NEGERI (STATE REVENUE)				HASIL PERIKANAN (FEDERAL REVENUE)					Jumlah Besar (Grand Total)
Negeri/State	Perahu (Boat)	Perikanan (Fishing)	Patil Perahu (Boat No. Plate)	Jumlah (Total)	Ikan (Fish)	Bayaran Pindah Milik & lain2 (Boat transfer fee & Miscel.)	Kompoun/Denda (Compound or Fine)	Jualan Pelbagai (Miscellaneous)	Jumlah (Total)	
Perlis	19,675.50	141,162.00	791.00	161,628.50	0.00	0.00	0.00	0.00	0.00	161,628.50
Kedah	48,403.50	340,305.00	2,365.00	391,073.50	0.00	0.00	210,100.00	0.00	210,100.00	601,173.50
P.Pinang/Penang	19,753.50	51,064.00	2,190.00	73,007.50	0.00	0.00	82,520.00	196.00	82,716.00	155,723.50
Perak	107,998.50	422,776.00	8,724.00	539,498.50	0.00	0.00	115,100.00	0.00	115,100.00	654,598.50
Selangor	96,829.50	120,569.00	6,356.00	223,754.50	0.00	0.00	126,634.00	234.00	126,868.00	350,622.50
Negeri Sembilan	853.00	510.00	222.00	1,585.00	0.00	0.00	0.00	60.00	60.00	1,645.00
Melaka/Malacca	2,772.00	1,883.00	883.00	5,538.00	0.00	0.00	0.00	0.00	0.00	5,538.00
Kelantan	15,467.50	116,875.00	1,943.00	134,285.50	20,686.50	0.00	46,000.00	291.00	66,977.50	201,263.00
Terengganu	39,389.50	264,561.00	2,418.00	306,368.50	74,189.00	0.00	88,500.00	10.00	162,699.00	469,067.50
Pahang	38,047.50	310,801.00	4,858.00	353,706.50	0.00	0.00	126,300.00	16,138.00	142,438.00	496,144.50
Johor/Johore	60,715.00	316,063.00	4,097.00	380,875.00	0.00	0.00	122,000.00	0.00	122,000.00	502,875.00
Jumlah Besar (Grand Total)	449,905.00	2,086,569.00	34,847.00	2,571,321.00	94,875.50	0.00	917,154.00	16,929.00	1,028,958.50	3,600,279.50

MALAYSIA
 ANGGARAN BILANGAN DAN LUAS KOLAM, BEKAS LOMBONG DAN BANGKAR YANG DIUSAHAKAN
 SERTA BILANGAN PENTERNAK MENGIKUT SISTEM PENTERNAKAN DAN NEGERI 1990
 ESTIMATED NUMBER AND AREA OF PONDS, DISUSED MINING POOLS AND CAGES
 AND NUMBER OF CULTURISTS BY CULTURE SYSTEM AND STATE, 1990

JADUAL (TABLE) 13.1

Negeri State	Airtawar/Freshwater									Airpayau/Brackishwater						Jumlah/Total					
	Kolam Ponds			Bekas Lombong Ex-Mining Pools			Bangkar Cages			Kolam Ponds			Bangkar Cages			Kolam & Bekas Lombong Ponds & Ex-Mining Pools			Bangkar 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	108	20.36	86	2	1.32	1	0	0.00	0	2	1.18	1	0	0.00	0	112	22.86	86	0	0.00	0
Kedah	982	236.84	503	3	6.25	3	20	180.72	3	154	83.71	47	170	74.12	51	1,136	326.80	553	190	254.84	54
Pulau Pinang/ Penang	225	29.77	154	0	0.00	0	0	0.00	0	3	0.34	3	10,217	61,724.80	188	228	30.11	157	10,217	61,724.80	188
Perak	2,381	419.71	1,601	154	272.00	127	366	4,853.36	36	135	64.41	36	6,383	48,456.86	157	2,670	756.12	1,764	6,749	53,310.22	192
Selangor	2,701	450.74	1,536	228	300.12	141	706	11,371.20	9	188	66.63	100	5,920	75,360.89	146	3,115	807.49	1,777	6,626	86,732.09	155
W.Persatuan/ 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	2,696	508.50	2,202	30	49.30	28	72	648.00	1	17	15.80	2	0	0.00	0	2,743	573.60	2,232	72	648.00	1
Malaka/Malacca	1,098	405.67	886	0	0.00	0	337	3,211.48	49	137	16.28	75	0	0.00	0	1,235	421.95	961	337	3,211.48	49
Johor/Johore	1,938	279.30	921	12	11.74	12	76	773.78	16	584	607.48	128	4,136	49,907.17	183	2,534	688.52	1,061	4,212	50,880.95	199
Pahang	2,112	381.86	1,514	0	0.00	0	0	0.00	0	253	242.86	9	0	0.00	0	2,365	624.72	1,523	0	0.00	0
Terengganu	623	83.85	513	0	0.00	0	0	0.00	0	76	20.69	31	230	1,950.94	23	699	104.54	544	230	1,950.94	23
Kelantan	1,544	198.14	1,091	0	0.00	0	42	374.32	11	63	20.25	41	148	5,496.48	23	1,607	218.39	1,132	190	5,870.80	34
Sarawak	1,476	210.78	1,224	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	1,476	210.78	1,224	0	0.00	0
Sabah	8,884	1,023.00	4,012	0	0.00	0	0	0.00	0	447	432.31	121	0	0.00	0	9,331	1,455.31	4,133	0	0.00	0
Jumlah/Total:	26,768	4,248.52	16,243	427	640.73	312	1,649	21,412.86	124	2,059	1,551.94	594	27,174	242,971.26	771	29,254	6,441.19	17,149	28,823	294,384.12	895

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.

MALAYSIA
 ANGGARAN BILANGAN DAN LUAS KOLAM, BEKAS LOMBONG DAN SANGKAR AIRTAWAR YANG DIBUKA
 DAN TERBIAR SERTA BILANGAN PENTERNAK MENGIKUT NEGERI, 1990
 ESTIMATED NUMBER AND AREA OF NEWLY OPENED AND ABANDONED PONDS, DISUSED MINING POOLS
 AND CAGES AND NUMBER OF CULTURISTS BY STATE, 1990

JADUAL (TABLE) 13.2

Negeri 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 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 (ha) Area (ha)	Bil. Penternak No. Of Culturists	Bil. No.	Luas (ha) Area (ha)	Bil. Penternak No. Of Culturists
Perlis	0	0.00	0	0	0.00	0	0	0.00	0	45	7.90	43	0	0.00	0	0	0.00	0
Kedah	3	0.23	2	0	0.00	0	6	45.00	2	239	98.09	123	0	0.00	0	0	0.00	0
Pulau Pinang/	6	0.97	1	0	0.00	0	5	0.00	0	78	5.78	24	0	0.00	0	0	0.00	0
Perak	34	12.09	78	4	8.90	3	3	32.98	2	0	0.00	0	0	0.00	0	0	0.00	0
Selangor	786	212.90	287	0	0.00	0	122	11,371.20	200	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	9	0.97	9	0	0.00	0	8.9	0.00	1	65	8.29	67	0	0.00	0	0	0.00	0
Melaka/Malacca	32	7.98	42	0	0.00	0	34.8	0.00	49	239	32.12	187	3	4.78	2	0	0.00	0
Johor/Johore	432	26.42	43	0	0.00	0	6.78	0.00	16	45	7.89	17	0	0.00	0	0	0.00	0
Pahang	67	24.78	36	0	0.00	0	17.8	0.00	0	89	17.98	67	2	4.78	1	0	0.00	0
Terengganu	56	7.09	42	0	0.00	0	4.23	0.00	0	78	4.67	67	0	0.00	0	0	0.00	0
Kelantan	89	6.09	32	0	0.00	0	11	0.00	11	89	10.87	89	0	0.00	0	0	0.00	0
Sarawak	1,078	208.94	675	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:	2,592	508.46	1,247	4	8.90	3	220	11,449.18	281	967	193.59	684	5	9.56	3	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 accumulative figures.

MALAYSIA
 ANGGARAN BILANGAN DAN LUAS, SERTA BILANGAN PENTERNAK
 KOLAM DAN SANGKAR AIRPAYAU YANG DI BUKA DAN TERBIAR, 1990
 ESTIMATED NUMBER AND AREA OF NEWLY OPENED AND ABANDONED BRACKISHWATER PONDS
 AND CAGES AND NUMBER OF CULTURISTS BY STATE, 1990

JADUAL (TABLE) 13.3

	Dibuka dan Beroperasi/Opened and Operation						Terbiar/Abandoned					
Negeri State	Kolam Ponds			Sangkar Cages			Kolam Ponds			Sangkar Cages		
	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	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0
Kedah	11	10.78	5	25	198.21	1	18	4.03	6	42	301.07	7
Pulau Pinang/Penang	0	0.00	0	62	512.68	7	5	0.45	3	48	423.98	6
Perak	3	0.78	2	95	908.21	2	0	0.00	0	16	215.86	1
Selangor	7	4.89	5	816	7,887.00	6	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
N.Sembilan	1	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0
Melaka/Malacca	2	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0
Johor/Johore	9	8.05	8	179	893.25	9	22	7.82	9	43	689.21	12
Pahang	0	0.00	0	0	0.00	0	31	7.08	16	0	0.00	0
Terengganu	5	0.45	3	16	201.68	1	32	4.03	14	6	63.00	2
Kelantan	0	0.00	0	4	106.29	2	21	2.81	16	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:	38.00	24.95	23	1,197	10,707.32	28	129	26.22	64	155	1,693.12	28

* 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 accumulative figures.

MALAYS..
 ANGGARAN JUMLAH PENGELUARAN IKAN TERNAKAN, KERANG DAN SIPUT SUDU MENGIKUT
 NEGERI DAN SISTEM TERNAKAN 1990
 ESTIMATED PRODUCTIONS OF FISH, COCKLE AND MUSSELS
 BY STATE AND CULTURE SYSTEM 1990
 (TAN METRIK/TONNES)

JADUAL (TABLE) 14.1

Negeri State	Air tawar/Freshwater			Air payau/Brackishwater				Jumlah Kecil/Sub-total				Jumlah Grand Total tan metrik/ tonnes
	Kolam Ponds	B.Lombong Ex-Mining Pools	Sangkar Cages	Kolam Ponds	Sangkar Cages	Kerang Cockle	Siput Sudu Mussels	Kolam/Bekas Ponds/Ex-Mining Pools	Sangkar Cages	Kerang Cockle	Siput Sudu Mussels	
Perlis	37.17	0.00	0.00	0.02	0.00	26.18	0.00	37.19	0.00	26.18	0.00	63.37
Kedah	111.60	11.60	5.30	21.46	8.27	151.60	0.20	144.66	13.57	151.60	0.20	310.03
P.Pinang/Penang	29.00	0.00	0.00	1.27	538.18	8,032.85	0.00	30.27	538.18	8,032.85	0.00	8,601.30
Perak	946.98	575.09	21.18	50.10	158.69	18,451.80	108.80	1,572.16	179.87	18,451.80	108.80	20,312.63
Selangor	645.86	258.60	80.70	46.47	1,011.59	5,456.12	6.79	950.93	1,092.29	5,456.12	6.79	7,506.13
W.Persekutuan/ F.Territory	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.16
N. Sembilan	236.75	42.20	0.10	8.37	0.00	0.00	13.27	287.32	0.10	0.00	13.27	300.69
Malaka/Malacca	186.52	0.00	29.36	6.29	1.98	0.00	180.47	192.81	31.34	0.00	180.47	404.62
Johor/Johore	165.65	17.20	341.86	1,524.50	330.67	173.44	1,272.51	1,707.35	672.53	173.44	1,272.51	3,825.84
Palang	347.43	0.00	0.00	519.88	0.00	0.00	0.00	867.31	0.00	0.00	0.00	867.31
Terengganu	19.28	0.00	36.81	4.11	3.19	0.00	0.00	23.39	39.99	0.00	0.00	63.38
Kelantan	173.35	0.00	0.95	12.22	1.95	0.00	0.00	185.57	2.89	0.00	0.00	188.47
Sarawak	168.68	0.00	0.00	50.20	0.00	0.00	0.00	218.88	0.00	0.00	0.00	218.88
Sabah	5,200.00	0.00	0.00	800.00	0.00	3,640.00	0.00	6,000.00	0.00	3,640.00	0.00	9,640.00
Jumlah/Total:	8,268.27	904.69	516.25	3,045.04	2,054.52	35,931.99	1,582.03	12,218.00	2,570.77	35,931.99	1,582.03	52,302.79

MALAYSIA
 ANGGARAN NILAI BORONG IKAN TERNAKAN, KERANG DAN SIPUT SUDU MENGIKUT
 NEGERI DAN SISTEM TERNAKAN 1990
 ESTIMATED WHOLESALE VALUE OF FISH, COCKLE AND MUSSELS
 BY STATE AND CULTURE SYSTEM 1990
 (NILAI DALAM M\$ '000/VALUE IN M\$ '000)

JADUAL (TABLE) 14.2

Negeri State	Airtawar/Freshwater			Airpayau/Brackishwater				Jumlah (M\$)/Total (M\$)				Jumlah Besar Grand Total
	Kolam Ponds	Bekas Lombong Ex-Mining Pools	Sangkar Cages	Kolam Ponds	Sangkar Cages	Kerang Cockle	Siput Sudu Mussels	Kolam & Bekas Lombong Ponds & Ex-mining Pools	Sangkar Cages	Kerang Cockle	Siput Sudu Mussels	
Pertis	311.36	0.00	0.00	0.14	0.00	7.59	0.00	311.50	0.00	7.59	0.00	319.09
Kedah	623.04	54.95	12.76	374.99	93.67	47.00	0.10	1,052.98	106.43	47.00	0.10	1,206.51
P.Pinang/Penang	47.38	0.00	0.00	10.82	4,845.50	2,409.86	0.00	58.20	4,845.50	2,409.86	0.00	7,313.56
Perak	4,597.84	1,625.64	48.78	741.97	1,422.73	5,904.58	65.28	6,965.45	1,471.51	5,904.58	65.28	14,406.82
Selangor	6,561.62	511.49	270.81	788.28	8,806.26	2,728.06	6.31	7,861.39	9,077.07	2,728.06	6.31	19,672.83
W.Persekutuan/ 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	1,364.80	315.84	0.38	163.63	0.00	0.00	11.28	1,844.27	0.38	0.00	11.28	1,855.93
Malaka/Malacca	1,091.10	0.00	119.26	110.25	19.47	0.00	79.41	1,201.35	138.73	0.00	79.41	1,419.49
Johor/Johore	632.68	68.99	1,599.18	18,460.83	3,188.49	38.16	559.90	19,162.50	4,787.67	38.16	559.90	24,548.23
Pahang	3,041.19	0.00	0.00	6,959.44	0.00	0.00	0.00	10,000.63	0.00	0.00	0.00	10,000.63
Terengganu	119.48	0.00	127.37	53.51	18.97	0.00	0.00	172.99	146.34	0.00	0.00	319.33
Kelantan	882.29	0.00	3.26	172.29	15.53	0.00	0.00	1,054.58	18.79	0.00	0.00	1,073.37
Sarawak	949.74	0.00	0.00	753.00	0.00	0.00	0.00	1,702.74	0.00	0.00	0.00	1,702.74
Sabah	33,300.00	0.00	0.00	12,000.00	0.00	3,640.00	0.00	45,300.00	0.00	3,640.00	0.00	48,940.00
Jumlah/Total:	53,522.52	2,576.91	2,181.80	40,589.15	18,410.62	14,775.25	722.28	96,688.58	20,592.42	14,775.25	722.28	132,778.53

MALAYSIA
 ANGGAHAN NILAI PUNCI IKAN TERNAKAN, KERANG DAN SIPUT SUDU
 MENGIKUT NEGERI DAN SISTEM TERNAKAN 1990
 ESTIMATED RETAIL VALUE OF FISH, COCKLE AND MUSSEL
 BY STATE AND CULTURE SYSTEM 1990
 (NILAI DALAM M\$ '000/VALUE IN M\$ '000)

JADUAL (TABLE) 14.3

Negeri State	Air tawar/Freshwater			Air payau/Brackishwater				Jumlah (M\$)/Total (M\$)				Jumlah Besar Grand Total
	Kolam Ponds	Bekas Lombong Ex-Mining Pools	Sangkar Cages	Kolam Ponds	Sangkar Cages	Kerang Cockle	Siput Sudu Mussels	Kolam & Bekas Lombong Ponds & Ex-mining Pools	Sangkar Cages	Kerang Cockle	Siput Sudu Mussels	
Perlis	358.39	0.00	0.00	0.16	0.00	8.38	0.00	358.55	0.00	8.38	0.00	366.93
Kedah	898.85	58.27	18.65	401.00	101.73	88.22	0.20	1,354.11	120.39	88.22	0.20	1,542.92
P.Pinang/Penang	60.09	0.00	0.00	12.15	5,483.22	3,052.48	0.00	72.24	5,483.22	3,052.48	0.00	8,607.94
Perak	6,175.09	2,279.45	78.13	845.91	1,794.73	9,225.90	108.80	9,300.45	1,872.88	9,225.90	108.80	20,508.01
Selangor	8,028.60	628.52	363.51	960.66	9,651.82	3,055.43	7.67	9,617.78	10,015.34	3,055.43	7.67	22,696.22
W.Persekutuan/ 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	1,798.68	177.66	0.40	181.98	0.00	0.00	13.27	2,158.32	0.40	0.00	13.27	2,169.99
Malaka/Malacca	1,388.59	0.00	137.54	120.63	21.58	0.00	15.52	1,507.22	159.12	0.00	15.52	1,681.86
Johor/Johore	780.61	71.79	1,935.27	21,861.88	3,555.33	97.13	941.66	22,714.26	5,490.59	97.13	941.66	29,243.65
Pahang	3,489.05	0.00	0.00	7,603.39	0.00	0.00	0.00	11,092.45	0.00	0.00	0.00	11,092.45
Terengganu	139.23	0.00	155.02	60.52	0.00	0.00	0.00	199.75	155.02	0.00	0.00	354.77
Kelantan	1,078.94	0.00	3.72	202.95	6.60	0.00	0.00	1,281.89	10.32	0.00	0.00	1,292.21
Sarawak	1,781.39	0.00	0.00	903.60	0.00	0.00	0.00	18,245.39	0.00	0.00	0.00	18,245.39
Sabah	36,032.80	0.00	0.00	16,464.00	0.00	0.00	0.00	52,496.80	0.00	0.00	0.00	52,496.80
Jumlah/Total:	62,004.31	3,213.69	2,692.23	49,618.83	20,615.01	15,507.54	1,087.12	130,397.22	23,307.25	15,507.54	1,087.12	170,299.13

MALAYSIA
 BILANGAN DAN LUAS KOLAM BINAAN AIRTAWAR YANG DIUSAHAKAN
 SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1990
 NUMBER AND AREA OF FRESHWATER PONDS IN OPERATION AND
 NUMBER OF CULTURISTS BY RACE AND STATE, 1990

Negeri State	Kolam Airtawar Freshwater Ponds		Bilangan Penternak Ikan Number Of Culturists				Jumlah Total
	Bilangan NUMBER	Luas (ha) Area (ha)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	
Perlis	108	20.36	83	1	0	2	86
Kedah	982	236.84	476	6	0	21	503
P.Pinang/Penang	225	29.77	126	12	6	10	154
Perak	2,381	419.71	1,312	219	22	48	1,601
Selangor	2,701	450.74	1,027	291	47	171	1,536
W.Persekutuan/ F.Territory	0	0.00	0	0	0	0	0
N. Sembilan	2,696	508.50	1,876	172	13	141	2,202
Melaka/Malacca	1,098	405.67	710	146	11	19	886
Johor/Johore	1,938	279.30	614	279	2	26	921
Pahang	2,112	381.86	1,168	209	5	132	1,514
Terengganu	623	83.85	511	2	0	0	513
Kelantan	1,544	198.14	1,055	35	1	0	1,091
Sarawak	1,476	210.78	34	144	0	1,046	1,224
Sabah	8,884	1,023.00	0	744	0	3,268	4,012
Jumlah/Total:	26,768	4,248.52	8,992	2,260	107	4,884	16,243

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI KOLAM AIRTAWAR
 MENGIKUT NEGERI DAN SPESIS IKAN, 1990
 ESTIMATED FISH PRODUCTIONS FROM FRESHWATER PONDS
 BY STATE AND SPECIES, 1990
 (Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 15.2

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Udang Galah Giant Fresh- water Prawn	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Ketutu Goby	Pelbagai Miscellaneous	Jumlah Total
Perlis	5.31	2.79	0.19	3.55	2.75	1.63	19.39	0.19	0.19	0.19	0.97	37.17
Kedah	8.93	7.12	2.15	3.38	3.21	4.86	9.24	0.00	0.57	70.41	1.72	111.60
P.Pinang/ Penang	6.00	3.00	8.00	0.00	0.00	1.50	8.00	0.00	0.00	2.50	0.00	29.00
Perak	107.33	3.90	381.87	32.11	91.59	101.03	53.36	2.18	29.29	130.65	13.66	946.98
Selangor D.E.	84.39	0.00	78.06	4.70	11.00	9.80	179.75	5.10	118.68	116.58	37.80	645.86
W.Persekutuan 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	60.74	9.08	56.90	13.82	8.53	0.10	53.59	0.00	2.95	10.59	20.46	236.75
Melaka/Malacca	35.98	7.18	21.22	11.37	2.58	15.15	25.34	1.02	6.21	41.22	19.26	186.52
Johor/Johore D.T.	4.18	0.00	156.60	0.00	0.00	2.78	0.00	0.00	0.00	1.39	0.70	165.65
Pahang D.M.	85.54	32.13	60.92	13.21	1.80	16.20	48.09	0.00	28.53	26.42	34.58	347.43
Terengganu	4.00	0.35	1.30	1.35	0.13	3.25	4.90	0.00	1.25	1.20	1.55	19.28
Kelantan	33.60	23.49	29.65	6.36	1.26	18.20	26.32	0.03	7.86	16.07	10.52	173.35
Sarawak	25.67	20.53	35.94	35.94	0.00	0.00	0.00	30.80	0.00	0.00	19.80	168.68
Sabah	1,298.00	1,038.00	156.00	104.00	0.00	0.00	0.00	0.00	0.00	0.00	2,604.00	5,200.00
Jumlah/Total:	1,759.66	1,147.56	988.81	229.79	122.85	174.50	427.99	39.33	195.54	417.22	2,765.01	8,268.27

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 IKAN DARI KOLAM AIR TAWAR
MENGIKUT NEGERI DAN SPESIS, 1990
ESTIMATED WHOLESALE VALUE OF PRODUCTIONS FROM FRESHWATER PONDS
BY STATE AND SPECIES, 1990
(Nilai Dalam M\$'000/Value In M\$'000)

JADUAL (TABLE) 15.3

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumpit Grass Carp	Kap Kepala Besar Big Head Carp	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Udang Galah Giant Fresh- water Prawn	Keli Freshwater Catfish	Ketutu Goby	Jelawat River Carp	Pelbagai Miscellaneous	Jumlah Total
Perlis	13.26	8.36	0.42	6.72	7.66	5.10	262.98	0.66	2.60	1.12	2.48	311.36
Kedah	19.31	19.09	4.88	7.38	7.52	15.06	127.27	0.00	0.00	418.56	3.96	623.04
P.Pinang/Penang	16.68	7.20	18.40	0.00	0.00	5.10	0.00	0.00	0.00	0.00	0.00	47.38
Perak	354.19	8.99	1,374.75	48.91	231.72	344.50	770.33	8.26	576.63	847.57	31.99	4,597.84
Selangor	316.09	0.00	281.48	7.33	28.16	35.97	2,617.16	20.04	1,980.86	1,177.76	96.77	6,561.62
W.Perskutuan/ 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	182.22	30.63	145.67	35.64	21.83	0.38	792.08	0.00	40.19	57.03	59.13	1,364.80
Malaka/Malacca	132.04	21.09	77.89	22.80	6.89	57.27	349.16	4.67	104.53	259.11	55.65	1,091.10
Johor/Johore	15.66	0.00	591.95	0.00	0.00	13.92	0.00	0.00	0.00	9.22	1.93	632.68
Pahang	374.24	158.76	243.68	47.40	5.64	78.71	581.71	0.00	739.36	712.53	99.18	3,041.19
Terengganu	13.00	1.21	4.49	4.68	0.33	11.57	68.06	0.00	3.81	8.03	4.31	119.48
Kelantan	100.80	98.47	98.83	22.45	4.44	78.38	282.42	0.12	54.44	111.96	29.99	882.29
Sarawak	115.52	71.86	143.76	179.70	0.00	0.00	0.00	0.00	0.00	369.60	69.30	949.74
Sabah	8,043.48	8,579.71	1,126.09	857.97	12,869.56	0.00	0.00	0.00	0.00	0.00	1,823.19	33,299.99
Jumlah/Total	9,696.49	9,005.36	4,112.27	1,240.98	13,183.75	645.93	5,851.18	33.76	3,502.43	3,972.49	2,277.88	53,522.51

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 IKAN DARI KOLAM AIRTAWAR
 MENGIKUT NEGERI DAN SPESIES 1990
 ESTIMATED RETAIL VALUE OF PRODUCTIONS FROM FRESHWATER PONDS
 BY STATE AND SPECIES, 1990
 (Nilai dalam M\$'000/Value in M\$'000)

JADUAL (TABLE) 15.4

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumpit Grass Carp	Kap Kepala Besar Big Head Carp	Tilapia Nilotika Tilapia Nilotika	Tilapia Merah Red Tilapia	Udang Galah Giant Fresh- water Prawn	Keli Freshwater Catfish	Ketutu Goby	Jelawat River Carp	Peibagai Miscellaneous	Jumlah Total
Perlis	14.86	9.75	0.60	12.44	9.80	5.82	296.34	0.80	3.10	1.32	3.57	358.39
Kedah	25.84	27.93	7.10	10.38	12.89	19.48	149.90	0.00	11.37	625.89	6.06	896.85
P.Pinang/Penang	18.60	9.36	25.60	0.00	0.00	6.53	0.00	0.00	0.00	0.00	0.00	60.09
Perak	520.55	14.40	1,737.53	76.82	421.30	464.72	986.45	11.16	725.23	1,168.89	48.04	6,175.09
Selangor	428.25	0.00	397.24	10.46	53.46	47.63	2,872.41	25.71	2,497.48	1,555.35	140.62	8,028.60
W.Persekutuan/ 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	323.94	43.83	244.11	58.49	33.94	0.40	862.82	0.00	68.83	78.88	81.43	1,796.68
Malaka/Malecca	179.89	25.12	97.63	30.12	10.63	62.42	435.81	6.15	107.03	360.15	71.63	1,386.59
Johor/Johore	20.42	0.00	746.47	0.00	0.00	0.00	0.00	0.00	0.00	11.32	2.41	780.61
Pahang	491.86	192.78	224.79	63.16	10.54	94.79	673.32	0.00	822.25	788.06	127.50	3,489.05
Terengganu	18.00	1.47	4.49	6.11	0.52	13.42	73.40	0.00	6.06	9.69	6.06	139.23
Kelantan	125.43	115.53	133.42	25.90	6.20	89.51	348.67	0.16	67.51	128.58	38.03	1,078.94
Sarawak	256.70	184.77	323.46	323.46	0.00	0.00	0.00	0.00	0.00	554.40	138.60	1,781.39
Sabah	9,660.00	9,060.00	1,216.80	936.00	13,210.00	0.00	0.00	0.00	0.00	0.00	1,950.00	36,032.80
Jumlah/Total	12,084.34	9,684.94	5,159.23	1,553.35	13,769.29	804.70	6,699.13	43.98	4,308.88	5,282.52	2,613.95	62,004.31

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

**BILANGAN DAN LUAS BEKAS LOMBONG YANG DIUSAHAKAN
SERTA BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1990
NUMBER AND AREA OF EX-MINING POOLS IN OPERATION AND
NUMBER OF CULTURISTS BY RACE AND STATE, 1990**

Negeri State	Bekas Lombong Ex Mining Pools		Bilangan Penternak Ikan Number Of Culturists				Jumlah Total
	Bilangan Number	Luas (ha) Area (ha)	Melayu Malay	Cina Chinese	India Indian	Lain-Lain Others	
Perlis	2	1.32	0	1	0	0	1
Kedah	3	6.25	2	1	0	0	3
P.Pinang/Penang	0	0.00	0	0	0	0	0
Perak	154	272.00	52	69	0	6	127
Selangor	226	300.12	66	59	1	15	141
W.Persekutuan/ F.Territory	0	0.00	0	0	0	0	0
N. Sembilan	30	49.30	3	23	0	2	28
Melaka	0	0.00	0	0	0	0	0
Johor	12	11.74	12	0	0	0	12
Pahang	0	0.00	0	0	0	0	0
Terengganu	0	0.00	0	0	0	0	0
Kelantan	0	0.00	0	0	0	0	0
Sarawak	0	0.00	0	0	0	0	0
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	427	640.73	135	153	1	23	312

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI BEKAS LOMBONG AIR TAWAR
 MENGIKUT NEGERI DAN SPESIES IKAN, 1990
 ESTIMATED FISH PRODUCTION FROM EX-MINING POOLS
 BY STATE AND SPECIES, 1990
 (Kuantiti dalam Tan Metrik/Weight in Tonnes)

JADUAL (TABLE) 16.2

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumpot Grass Carp	Kap Kepala Besar Big Head Carp	Udang Galah Giant Fresh- Water Prawn	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Ketutu Goby	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.12	0.89	0.06	3.49	1.25	0.81	0.02	0.00	0.46	0.00	4.51	11.60
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	1.04	0.00	65.21	261.90	12.60	21.61	195.35	10.89	0.00	0.00	6.50	575.08
Selangor Darul Ehsan	0.00	0.00	18.00	240.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	258.60
W.Persekutuan/ 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	0.00	0.00	10.00	26.20	0.00	0.00	6.00	0.00	0.00	0.00	0.00	42.20
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	4.75	2.20	0.95	1.79	0.00	2.93	0.00	0.00	1.45	0.46	2.68	17.20
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
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
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:	5.91	3.09	94.21	533.38	13.85	25.95	201.37	10.89	1.91	0.46	13.69	904.69

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 IKAN, 1990
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTIONS FROM EX-MINING POOLS
 BY STATE AND SPECIES, 1990
 (Nilai dalam M\$'000/Value in M\$'000)

JADUAL (TABLE) 16.3

Negeri/State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kep Rumput Grass Carp	Kep Kepala Besar Big Head Carp	Udang Galah Giant Fresh- water Prawn	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Keli Freshwater Catfish	Ketutu Goby	Jelawat River Carp	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.27	2.38	0.13	7.62	17.24	1.89	0.07	14.98	0.00	0.00	10.37	54.95
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	3.42	0.00	234.74	398.90	181.89	54.70	666.13	0.00	0.00	70.65	15.22	1,625.64
Selangor D.E.	0.00	0.00	64.91	374.40	0.00	1.54	0.00	0.00	0.00	70.65	0.00	511.49
W.Persekutuan/ 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	0.00	0.00	25.60	67.56	0.00	222.68	0.00	0.00	0.00	0.00	0.00	315.84
Malaka/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 D.T.	17.81	6.60	5.37	5.48	0.00	12.03	0.00	5.48	8.77	0.00	7.45	68.99
Pahang D.M.	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:	21.50	8.99	330.75	853.96	199.13	292.83	666.20	20.46	8.77	141.30	33.04	2,576.91

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.
MENGIKUT NEGERI DAN SPESIES IKAN, 1990
ESTIMATED RETAIL VALUE OF PRODUCTION FROM EX-MINING POOLS
BY STATE AND SPECIES, 1990
(Nilai dalam M\$'000/Value in M\$'000)

JADUAL (TABLE) 16.4

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Udang Galah Giant Fresh-water Prawn	Tilapia Nilotika Tilapia Nilotika	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Ketutu Goby	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.36	3.49	0.19	10.72	20.30	3.23	0.09	0.00	2.01	0.00	15.87	56.27
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	5.02	0.00	296.68	626.54	232.92	99.41	898.59	97.43	0.00	0.00	22.86	2,279.45
Selangor	0.00	0.00	91.60	534.00	0.00	2.92	0.00	0.00	0.00	0.00	0.00	628.52
W.Persekutuan/ 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	0.00	0.00	42.90	110.88	0.00	0.00	23.88	0.00	0.00	0.00	0.00	177.66
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	23.23	8.74	4.50	7.75	0.00	0.00	0.00	0.00	7.73	10.57	9.27	71.79
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	28.61	12.23	435.88	1,289.90	253.22	105.55	922.56	97.43	9.74	10.57	48.00	3,213.69

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

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

MALAYSIA
 BILANGAN DAN LUAS SANGKAR AIRTAWAR YANG DIUSAHAKAN SERTA
 BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1990
 NUMBER AND AREA OF FRESHWATER CAGES AND NUMBER OF CULTURISTS
 BY STATE, 1990

JADUAL (TABLE) 17.1

Negeri State	Sangkar Airtawar Freshwater Cages		Bilangan Penternak Ikan No. Of Culturists				
	Bilangan Number	Luas (m2) Area In Sq. Metres	Melayu Malay	Cina Chinese	India Indian	Lain-lain Others	Jumlah Total
Perlis	0	0.00	0	0	0	0	0
Kedah	20	180.72	3	0	0	0	3
P.Pinang/Penang	0	0.00	0	0	0	0	0
Perak	396	4,853.36	33	2	0	0	35
Selangor	706	11,371.20	5	3	0	1	9
W.Persekutuan/ F.Territory	0	0.00	0	0	0	0	0
N. Sembilan	72	648.00	1	0	0	0	1
Melaka/Malacca	337	3,211.48	24	23	0	2	49
Johor/Johore	76	773.78	15	1	0	0	16
Pahang	0	0.00	0	0	0	0	0
Terengganu	0	0.00	0	0	0	0	0
Kelantan	42	374.32	11	0	0	0	11
Sarawak	0	0.00	0	0	0	0	0
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	1,649	21,412.86	92	29	0	3	124

MALAYSIA
ANGGARAN PENGELUARAN IKAN DARI SANGKAR AIRTAWAR
MENGIKUT NEGERI DAN SPESIES IKAN, 1990.
ESTIMATED FISH PRODUCTION FROM FRESHWATER CAGES
BY STATE AND SPECIES, 1990.
 (Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 17.2

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Ketutu Goby	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Patin River Catfish	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	0.68	1.79	0.00	2.82	5.30
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
Perak	0.00	21.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.18
Selangor D.E.	0.04	65.19	0.00	0.00	0.00	0.00	15.09	0.18	0.00	0.20	80.70
W.Persekutuan/ 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	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.10
Melaka/Malacca	6.41	7.70	0.00	0.00	1.20	0.00	13.80	0.05	0.00	0.20	29.36
Johor/Johore D.T.	17.99	8.14	23.70	0.00	0.00	0.00	278.11	4.09	0.00	9.83	341.86
Pahang D.M.	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	29.89	1.23	0.00	0.00	0.00	5.60	0.00	0.00	0.08	36.81
Kelantan	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.19	0.95
Sarawak	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
Jumlah/Total	24.44	132.10	24.93	0.00	1.20	0.00	314.14	6.11	0.00	13.33	516.25

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

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

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN SANGKAR AIRTAWAR
 MENGIKUT NEGERI DAN SPESIES IKAN, 1990.
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM FRESHWATER CAGES
 BY STATE AND SPECIES, 1990.
 (Nilai dalam M\$ '000 / Value in M\$ '000)

JADUAL (TABLE) 17.3

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Ketutu Goby	Jelawat River Carp	Pelbagai Miscellaneous	Jumlah Total
Pertis	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	2.12	0.00	10.64	0.00	12.76
P.Pinang/Penang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	0.00	48.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.78
Selangor	0.15	212.95	0.00	0.00	0.00	55.38	0.00	1.82	0.51	270.81
W.Persekutuan/ 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	0.38	0.00	0.00	0.00	0.38
Melaka/Malacca	23.53	22.62	0.01	0.00	0.00	52.16	20.20	0.33	0.41	119.26
Johor/Johore	67.45	24.41	89.59	0.00	0.00	1,390.57	0.00	27.11	0.05	1,599.18
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	0.00	103.05	4.24	0.00	0.00	19.94	0.00	0.00	0.14	127.37
Kelantan	0.00	0.00	0.00	0.00	0.00	3.26	0.00	0.00	0.00	3.26
Sarawak	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
Jumlah	91.12	411.82	93.84	0.00	0.00	1,523.80	20.20	39.90	1.11	2,181.79

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

Note: Miscellaneous - Includes Goby, Snakes Head, River Catfish and Snakeskin Gauramy.

MALAYSIA
 ANGGARAN NILAI RUNCIT PENGELUARAN SANGKAR AIRTAWAR MENGIKUT NEGERI DAN SPESIES IKAN, 1990
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM FRESHWATER CAGES BY STATE AND SPECIES, 1990
 (Nilai dalam M\$ '000/Value in M\$ '000)

JADUAL (TABLE) 17.4

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumput Grass Carp	Kap Kepala Besar Big Head Carp	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jelawat River Carp	Ketutu Goby	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	2.74	15.91	0.00	0.00	18.65
P.Pinang/Penang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Perak	0.00	78.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.13
Selangor D.E.	0.20	286.83	0.00	0.00	0.00	73.34	2.40	0.00	0.74	363.51
W.Persekutuan/ 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	0.40	0.00	0.00	0.00	0.40
Melaka/Malacca	32.05	26.95	0.01	0.00	0.00	56.85	0.46	20.68	0.53	137.54
Johor/Johore D.T.	87.97	32.32	112.97	0.00	0.00	1,668.68	33.26	0.00	0.06	1,935.27
Pahang D.M.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	0.00	125.55	6.14	0.00	0.00	23.13	0.00	0.00	0.19	155.02
Kelantan	0.00	0.00	0.00	0.00	0.00	3.72	0.00	0.00	0.00	3.72
Sarawak	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
Jumlah/Total:	120.22	549.77	119.13	0.00	0.00	1,828.86	52.04	20.68	1.53	2,692.23

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

MALAYSIA
 BILANGAN DAN LUAS KOLAM BINAAN AIRPAYAU YANG DIUSAHAKAN SERTA
 BILANGAN PENTERNAK MENGIKUT KAUM DAN NEGERI, 1990
 NUMBER AND AREA OF BRACKISHWATER PONDS AND NUMBER OF
 CULTURISTS BY RACE AND STATE, 1990

Negeri State	Kolam Airpayau Brackishwater Ponds		Bilangan Penternak Ikan Number Of Culturists				Jumlah
	Bilangan Number	Luas (ha) Acreage (ha)	Melayu	Cina	India	Lain-Lain	Total
			Malay	Chinese	Indian	Others	
Perlis	2	1.18	1	0	0	0	1
Kedah	154	83.71	30	6	1	10	47
P.Pinang/Penang	3	0.34	0	0	0	3	3
Perak	135	64.41	10	20	1	5	36
Selangor	188	56.63	70	30	0	0	100
W.Persekutuan/ F.Territory	0	0.00	0	0	0	0	0
N. Sembilan	17	15.80	0	0	0	2	2
Melaka/Malacca	137	16.28	51	22	1	1	75
Johor/Johore	584	597.48	36	73	0	19	128
Pahang	253	242.86	8	0	0	1	9
Terengganu	76	20.69	31	0	0	0	31
Kelantan	63	20.25	33	3	0	5	41
Sarawak	0	0.00	0	0	0	0	0
Sabah	447	432.31	0	22	0	99	121
Jumlah/Total:	2,059	1,551.94	270	176	3	145	594

MALAYSIA
 ANGGARAN PENGELUARAN KOLAM AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIS IKAN, 1990
 ESTIMATED FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS BY STATE AND SPECIES, 1990
 (Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 18.2

Negeri State	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Udang Putih Banana Prawn	Udang Harimau Tiger Prawn	Ketam Mud Crab	Pelbagai Miscellaneous **	Jumlah Total
Perlis	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02
Kedah	0.48	0.00	0.00	0.73	20.26	0.00	0.00	21.46
P.Pinang/Penang	1.16	0.05	0.00	0.00	0.00	0.00	0.06	1.27
Perak	9.29	0.00	2.50	9.47	27.03	1.65	0.16	50.10
Selangor	7.12	1.63	0.79	0.07	36.87	0.00	0.00	46.47
W.Persekutuan/ F.Territory	0.01	0.01	0.12	0.00	0.00	0.00	0.01	0.16
N. Sembilan	0.00	0.00	0.00	0.00	8.37	0.00	0.00	8.37
Melaka/Malacca	0.31	0.00	0.01	2.72	3.25	0.00	0.00	6.29
Johor/Johore	67.89	0.00	318.76	126.78	908.98	102.09	0.00	1,524.50
Pahang	81.06	36.11	15.30	14.89	320.53	0.54	51.44	519.88
Terengganu	1.02	0.00	0.25	0.87	1.91	0.04	0.02	4.11
Kelantan	5.24	0.00	0.00	0.00	6.86	0.00	0.12	12.22
Sarawak	0.00	0.00	0.00	0.00	50.20	0.00	0.00	50.20
Sabah	0.00	0.00	0.00	0.00	800.00	0.00	0.00	800.00
Jumlah/Total:	173.69	37.80	38.795	145.53	2,184.25	104.32	51.81	3,045.04

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

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

MALAYSIA
 ANGGARAN NILAI BORONG PENGELUARAN KOLAM AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIES IKAN, 1990
 ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS
 BY STATE AND SPECIES, 1990
 (Nilai dalam M\$ '000/Value in M\$ '000)

JADUAL (TABLE) 18.3

Negeri State	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Udang Harimau Tiger Prawn	Udang Putih Banana Prawn	Ketam Mud Crab	Pelbagai Miscellaneous **	Jumlah Total
Perlis	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.14
Kedah	3.77	0.00	0.00	358.14	13.08	0.00	0.00	374.99
P.Pinang/Penang	10.09	0.73	0.00	0.00	0.00	0.00	0.00	10.82
Perak	79.27	0.00	21.50	470.95	162.79	7.46	0.00	741.97
Selangor	61.95	23.40	7.09	694.57	1.27	0.00	0.00	788.28
W.Persekutuan/ 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	163.61	0.03	0.00	0.00	163.63
Melaka/Malacca	2.77	0.00	0.05	58.84	48.59	0.00	0.00	110.25
Johor/Johore	478.62	0.00	2,240.88	12,780.25	2,268.09	692.99	0.00	18,460.83
Pahang	547.18	449.62	114.78	5,578.60	265.09	2.16	2.02	6,959.44
Terengganu	7.97	0.00	1.73	28.86	14.71	0.13	0.11	53.51
Kelantan	40.01	0.00	0.00	132.28	0.00	0.00	0.00	172.29
Sarawak	0.00	0.00	0.00	753.00	0.00	0.00	0.00	753.00
Sabah	0.00	0.00	0.00	12,000.00	0.00	0.00	0.00	12,000.00
Jumlah/Total:	1,231.64	473.74	2,386.17	33,019.08	2,773.65	702.74	2.13	40,589.15

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, 1990
 ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE PONDS
 BY STATE AND SPECIES, 1990
 (Nilai dalam M\$ '000/Value in M\$ '000)

JADUAL (TABLE) 18.4

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Negeri State	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Udang Harimau Tiger Prawn	Udang Putih Banana Prawn	Ketam Mud Crab	Pelbagai Miscellaneous **	Jumlah Total
Perlis	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.16
Kedah	4.31	0.00	0.00	382.86	13.83	0.00	0.00	401.00
P.Pinang/Penang	11.31	0.84	0.00	0.00	0.00	0.00	0.00	12.15
Perak	100.49	0.00	24.50	532.49	188.43	0.00	0.00	845.91
Selangor	70.07	25.50	7.80	856.01	1.29	0.00	0.00	960.66
W.Persekutuan/ 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	181.96	0.02	0.00	0.00	181.98
Melaka/Malacca	3.21	0.00	0.05	66.68	50.70	0.00	0.00	120.63
Johor/Johore	608.97	0.00	2,709.46	15,352.67	2,418.96	771.80	0.00	21,861.86
Pahang	632.30	505.60	133.14	6,057.98	269.41	2.48	2.48	7,603.39
Terengganu	9.50	0.00	2.23	32.91	15.59	0.15	0.13	60.52
Kelantan	52.01	0.00	0.00	150.94	0.00	0.00	0.00	202.95
Sarawak	0.00	0.00	0.00	903.60	0.00	0.00	0.00	903.60
Sabah	0.00	0.00	0.00	16,464.00	0.00	0.00	0.00	16,464.00
Jumlah/Total:	1,492.16	531.93	2,877.35	40,982.10	2,958.23	774.43	2.62	49,618.83

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, 1990
NUMBER AND AREA OF BRACKISHWATER CAGES AND NUMBER OF CULTURISTS
BY RACE AND STATE, 1990

JADUAL (TABLE) 19.1

Negeri State	Sangkar Airpayau Brackishwater Cages		Bilangan Pentermak Ikan No. Of Culturists				Jumlah Total
	Bilangan Number	Luas (m2) Area In Sq. Metres	Melayu Malay	Cina Chinese	India Indian	Lain-lain Others	
Perlis	0	0.00	0	0	0	0	0
Kedah	170	74.12	42	8	0	1	51
P.Pinang/ Penang	10,217	61,724.80	28	159	1	0	188
Perak	6,353	48,456.86	20	135	0	2	157
Selangor	5,920	75,360.89	9	137	0	0	146
W.Persekutuan/ 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	4136	49,907.17	60	116	0	7	183
Pahang	0	0.00	0	0	0	0	0
Terengganu	230	1,950.94	23	0	0	0	23
Kelantan	148	5,496.48	23	0	0	0	23
Sarawak							0
Sabah	0	0.00	0	0	0	0	0
Jumlah/Total:	27,174	242,971.26	205	555	1	10	771

MALAYSIA
 ANGGARAN PENGELUARAN IKAN DARI SANGKAR AIRPAYAU/MASIN
 MENGIKUT NEGERI DAN SPESIS IKAN, 1990
 ESTIMATED FISH PRODUCTION FROM BRACKISHWATER/MARINE CAGES
 BY STATE AND SPECIES, 1990
 (Kuantiti dalam Tan Metrik/Quantity in Tonnes)

JADUAL (TABLE) 19.2

Negeri State	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Merah Red Snapper	Udang Harimau Tiger Prawn	Ketam Mud Crab	Pelbagai Miscellaneous **	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	1.91	4.04	2.32	0.00	0.00	0.00	0.00	8.27
P.Pinang/Penang	401.12	59.87	47.60	1.18	0.00	28.43	0.00	538.18
Perak	138.27	12.27	8.15	0.00	0.00	0.00	0.00	158.69
Selangor	943.79	15.53	12.24	3.58	0.00	36.45	0.00	1,011.59
W.Persekutuan/ 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	0.79	0.66	0.37	0.16	0.00	0.00	0.00	1.98
Johor/Johore	289.74	12.63	5.38	1.73	0.00	20.68	0.52	330.67
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	2.43	0.76	0.00	0.00	0.00	0.00	0.00	3.19
Kelantan	1.75	0.19	0.00	0.00	0.00	0.00	0.00	1.95
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:	1,779.81	105.94	76.05	6.65	0.00	85.56	0.52	2,054.52

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

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

MALAYSIA
ANGGARAN NILAI BORONG PENGELUARAN SANGKAR AIRPAYAU/MASIN
MENGIKUT NEGERI DAN SPESIES IKAN, 1990
ESTIMATED WHOLESALE VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE CAGES
BY STATE AND SPECIES, 1990
(Nilai dalam M\$ '000/Value in M\$ '000)

JADUAL (TABLE) 19.3

Negeri State	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Udang Harimau Tiger Prawn	Udang Putih Banana Prawn	Ketam Mud Crab	Pelbagai Miscellaneous	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	15.03	60.55	18.09	0.00	0.00	0.00	0.00	93.67
P.Pinang/Penang	3,489.71	868.04	359.82	0.00	0.00	127.94	0.00	4,845.50
Perak	1,179.91	172.71	70.12	0.00	0.00	0.00	0.00	1,422.73
Selangor	8,211.00	223.35	110.38	0.00	0.00	261.53	0.00	8,806.26
W.Persekutuan/ 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	7.01	9.20	3.26	0.00	0.00	0.00	0.00	19.47
Johor/Johore	2,802.51	181.60	49.37	0.00	10.60	144.27	0.14	3,188.49
Pahang	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terengganu	18.97	0.00	0.00	0.00	0.00	0.00	0.00	18.97
Kelantan	13.40	2.13	0.00	0.00	0.00	0.00	0.00	15.53
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:	15,737.53	1,517.58	611.03	0.00	10.60	533.73	0.14	18,410.61

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 SANGKAR AIRPAYAU/MASIN
MENGIKUT NEGERI DAN SPESIES IKAN, 1990
ESTIMATED RETAIL VALUE OF FISH PRODUCTION FROM BRACKISHWATER/MARINE CAGES
BY STATE AND SPECIES, 1990
(Nilai dalam M\$ '000/Value in M\$ '000)

JADUAL (TABLE) 19.4

Negeri State	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Udang Harimau Tiger Prawn	Udang Putih Banana Prawn	Ketam Mud Crab	Pelbagai Miscellaneous **	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	17.20	64.58	19.95	0.00	0.00	0.00	0.00	101.73
P.Pinang/Penang	3,910.88	1,005.73	404.56	0.00	0.00	162.05	0.00	5,483.22
Perak	1,495.62	219.21	79.90	0.00	0.00	0.00	0.00	1,794.73
Selangor	9,286.92	243.39	121.51	0.00	0.00	0.00	0.00	9,651.82
W.Persekutuan/ 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	8.11	10.00	3.48	0.00	0.00	0.00	0.00	21.58
Johor/Johore	3,258.30	223.73	60.85	0.00	12.30	0.00	0.15	3,555.33
Pahang	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
Kelantan	0.00	6.60	0.00	0.00	0.00	0.00	0.00	6.60
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:	17,977.03	1,773.24	690.24	0.00	12.30	162.05	0.15	20,615.01

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 1990
NUMBER OF CULTURISTS , AREA AND SIZE
OF COCKLE CULTURE BY STATE 1990

JADUAL (TABLE) 20.1

Negeri State	Bilangan Penternak (No. of Culturist)	Bilangan Kawasan (No. of Area)	Luas Kawasan Tol (ha) Area (ha)
Perlis	1	1	15.88
Kedah	2	2	30.01
P. Pinang / Penang	58	52	1301.53
Perak	124	62	2896.28
Selangor	16	15	1111.67
W. Persekutuan/ F. Territory	0	0	0.00
N. Sembilan	0	0	0.00
Malaka/ Malacca	0	0	0.00
Johor/Johore	26	8	186.2
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	227	140	5541.57

MALAYSIA
PENGELUARAN KERANG DEWASA MENGIKUT BULAN DAN NEGERI 1990
PRODUCTION OF COCKLES BY MONTH AND STATE 1990
(TAN METRIK/TONNES)

JADUAL (TABLE) 20.2

Negeri State	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Jumlah Total
PERLIS	25.48	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.18
KEDAH	14.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.04	0.00	126.00	151.60
P.PINANG/PENANG	562.10	1,031.45	1,052.80	534.10	955.50	1,042.30	508.60	436.10	440.30	515.90	500.85	451.85	8,032.85
PERAK	0.00	882.93	1,164.00	1,550.00	1,665.00	1,730.00	1,700.00	1,996.22	1,930.00	1,849.50	1,854.15	2,130.00	18,451.80
SELANGOR	468.22	464.90	510.08	584.86	566.32	645.14	733.22	74.34	496.23	367.04	350.10	195.67	5,456.12
W.PERSEKUTUAN/ 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	78.50	29.52	26.59	8.00	8.00	1.30	1.20	2.28	1.80	1.50	14.00	0.75	173.44
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	305.00	235.00	311.00	335.00	320.00	266.00	320.00	286.00	367.00	381.00	263.00	251.00	3,640.00
Jumlah/Total:	1,453.86	2,643.80	3,065.17	3,011.96	3,514.82	3,684.74	3,264.02	2,794.94	3,235.33	3,125.98	2,962.10	3,155.27	35,931.99

MALAYSIA
PENGELUARAN BENIH KERANG MENGIKUT BULAN DAN NEGERI 1990
PRODUCTION OF COCKLE SEEDS BY MONTH AND STATE 1990
(TAN METRIK/TONNES)

JADUAL (TABLE) 20.3

Negeri State	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Jumlah Total
Perlis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kedah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P.Pinang/Penang	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	430.00	431.20
Perak	0.00	1,253.50	37.50	0.00	0.00	0.00	0.00	129.40	0.00	0.00	0.00	1,575.00	2,995.40
Selangor	432.00	0.00	1,053.00	2,700.00	0.00	0.00	447.75	0.00	0.00	0.00	0.00	0.00	4,632.75
W.Persekutuan/ 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
Malaka/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:	432.00	1,254.70	1,090.50	2,700.00	0.00	0.00	447.75	129.40	0.00	0.00	0.00	2,005.00	8,059.35

MALAYSIA
BILANGAN PENTERNAK , KAWASAN DAN LUAS KAWASAN
TERNAKAN SIPUT SUDU MENGIKUT NEGERI 1990
NUMBER OF CULTURISTS , AREA AND SIZE
OF MUSSELS CULTURE BY STATE 1990

JADUAL (TABLE) 21.1

Negeri State	Bilangan Penternak (No. of Culturist)	Bilangan Kawasan (No. of Area)	Luas Kawasan Tol (M2) Area (M2)
Perlis	1	1	17.05
Kedah	2	2	29.01
P. Pinang / Penang	2	2	493.39
Perak	10	3	39.58
Selangor	15	14	1,087.63
W. Persekutuan/ F. Territo	0	0	0.00
N. Sembilan	8	2	863.94
Melaka/ Malacca	51	9	28,001.31
Johor/Johore	53	7	24,783.21
Pahang	0	0	0.00
Terengganu	1	1	139.65
Kelantan	0	0	0.00
Sarawak	0	0	0.00
Sabah	0	0	0.00
Jumlah/Total	143	41	55,454.77

MALAYSIA
PENGELUARAN SIPUT SUDU MENGIKUT BULAN DAN NEGERI 1990
PRODUCTION OF MUSSELS BY MONTH AND STATE 1990
(TAN METRIK/TONNES)

JADUAL (TABLE) 21.2

Negeri State	Januari January	Februari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Jumlah Total
Pertis	0.00	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	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.19
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	0.00
Perak	0.00	0.00	0.52	0.29	0.15	0.01	0.00	0.21	26.40	80.53	0.63	0.06	106.80
Selangor	0.50	0.38	0.37	0.45	0.43	0.00	0.85	0.65	0.89	0.65	0.58	1.05	6.79
W.Persekutuan/ 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	13.20	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	13.27
Melaka/Malacca	138.66	0.75	1.92	26.06	8.55	0.77	3.76	0.00	0.00	0.00	0.00	0.00	180.47
Johor/Johore	0.00	3.65	1.64	1.69	0.79	0.64	0.51	0.64	0.58	0.00	706.09	556.27	1,272.51
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:	139.33	17.98	4.46	28.50	9.94	1.42	5.12	1.51	27.91	81.18	707.30	557.39	1,582.03

MALAYSIA
PENDARATAN IKAN DARAT DARI PERAIRAN UMUM MENGIKUT BULAN DAN NEGERI 1990
LANDINGS OF FRESHWATER FISH FROM PUBLIC WATERBODIES BY MONTH AND STATE 1990
(TAN METRIK/TONNES)

JADUAL (TABLE) 21.3

Negeri State	Januari January	Febuari February	Mac March	April April	Mei May	Jun June	Julai July	Ogos August	September September	Oktober October	November November	Disember December	Jumlah Total
Perlis	0.51	0.67	0.43	2.09	0.65	0.61	0.19	0.76	1.23	0.45	0.82	0.31	8.72
Kedah	2.32	2.98	2.90	1.98	3.98	7.90	1.98	2.08	6.53	6.78	5.67	5.08	50.18
P.Pinang/Penang	1.98	4.90	2.98	0.87	5.78	2.34	3.78	3.41	0.67	2.76	1.45	0.99	31.91
Perak	45.09	56.78	47.98	45.21	31.45	56.21	29.08	21.78	53.52	79.05	78.99	78.90	624.04
Selangor	9.87	6.98	9.06	4.09	8.87	4.35	8.97	5.09	7.98	17.89	7.90	23.00	114.05
W.Persekutuan 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	5.78	4.09	4.67	7.03	3.56	2.13	1.45	5.09	2.13	12.09	3.09	1.89	53.00
Melaka/Malacca	3.89	2.90	1.98	3.45	0.78	1.89	2.01	1.09	1.89	0.78	1.00	0.78	22.44
Johor/Johore	9.09	11.90	12.89	9.78	8.97	12.45	7.89	11.56	16.78	6.78	10.09	7.89	126.07
Pahang	14.89	6.67	34.90	12.90	8.09	14.89	14.89	9.09	5.09	12.90	19.07	31.09	184.47
Terengganu	5.90	0.98	2.90	3.40	0.23	1.09	0.78	1.09	0.77	1.98	2.39	2.09	23.60
Kelantan	4.90	3.07	4.98	1.89	2.98	0.78	1.98	2.09	4.78	3.98	3.98	1.98	37.39
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	104.22	101.92	125.67	92.69	75.34	104.64	73.00	63.13	101.37	145.44	134.45	154.00	1,275.87

MALAYSIA
HARGA BORONG IKAN AIRTAWAR DI PASAR-PASAR UTAMA MENGIKUT
NEGERI DAN SPESIES IKAN, 1990
WHOLESALE PRICES OF FRESHWATER FISH AT MAJOR MARKETS
BY STATE AND SPECIES, 1990
(\$/Kg)

JADUAL (TABLE) 22.1

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kep Rumpit Grass Carp	Kep Kepala Besar Big Head Carp	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Udang Galah Giant Fresh- water Prawn	Kell Freshwater Catfish	Ketutu Goby	Jelawat River Carp	Peibagai Miscellaneous
Perlis	2.50	3.00	2.17	1.89	2.78	3.12	13.56	3.40	13.40	5.80	2.56
Kedah	2.16	2.68	2.27	2.18	2.34	3.10	13.78	3.26	0.00	5.94	2.30
P.Pinang/Penang	2.78	2.40	2.30	0.00	2.67	3.40	0.00	3.23	0.00	0.00	0.00
Perak	3.30	2.30	3.60	1.52	2.53	3.41	14.44	3.79	19.69	6.49	2.34
Selangor	3.75	3.27	3.61	1.56	2.56	3.67	14.56	3.93	16.69	10.10	2.56
W.Persekutuan/ 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	3.00	3.38	2.56	2.58	2.56	3.78	14.78	4.42	13.63	5.39	2.89
Melaka/Malacca	3.67	2.94	3.67	2.01	2.67	3.78	13.78	4.58	16.83	6.29	2.89
Johor/Johore	3.75	3.00	3.78	3.06	4.10	5.00	11.00	3.78	19.19	6.63	2.78
Pahang	4.38	4.94	4.00	3.59	3.13	4.86	12.10	4.83	25.91	26.97	2.87
Terengganu	3.25	3.45	3.45	3.47	2.67	3.56	13.89	3.18	3.05	6.69	2.78
Kelantan	3.00	4.19	3.33	3.53	3.52	4.31	10.73	3.79	6.93	6.97	2.85
Sarawak	4.50	3.50	4.00	5.00	4.00	0.00	14.00	0.00	0.00	0.00	3.50
Sabah	5.00	8.00	7.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
Harga Bertimbang	3.46	3.62	3.52	3.20	3.23	3.82	13.33	3.84	15.04	8.73	3.03

-Nota: Peibagai - 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, 1990
RETAIL PRICES OF FRESHWATER FISH AT MAJOR MARKETS
BY STATE AND SPECIES, 1990
(\$/Kg)

JADUAL (TABLE) 22.2

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Kap Rumpit Grass Carp	Kap Kepala Besar Big Head Carp	Udang Galah Giant Fresh- water Prawn	Tilapia Nilotika Tilapia Nilotika	Tilapia Merah Red Tilapia	Jelawat River Carp	Keli Freshwater Catfish	Ketutu Goby	Pelbagai Miscellaneous
Perlis	2.80	3.50	3.10	3.50	15.28	3.56	3.56	6.79	4.10	15.98	3.68
Kedah	2.89	3.92	3.30	3.07	16.23	4.01	4.01	8.89	4.40	20.00	3.52
P.Pinang/Penang	3.10	3.12	3.20	0.00	0.00	4.35	4.35	0.00	4.98	0.00	0.00
Perak	4.85	3.69	4.55	2.39	18.49	4.60	4.60	8.95	5.11	24.76	3.52
Selangor	5.07	4.40	5.09	2.23	15.98	4.86	4.86	13.34	5.04	21.04	3.72
W.Persekutuan/ 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	5.33	4.83	4.29	4.23	16.10	3.98	3.98	7.45	6.18	23.33	3.98
Melaka/Malacca	5.00	3.50	4.60	2.65	17.20	4.12	4.12	8.74	6.03	17.24	3.72
Johor/Johore	4.89	3.97	4.77	4.33	15.00	0.00	0.00	8.13	5.33	23.14	3.46
Pahang	5.75	6.00	3.69	4.78	14.00	5.85	5.85	29.83	6.02	28.82	3.69
Terengganu	4.50	4.20	3.45	4.53	14.98	4.13	4.13	8.08	4.14	4.85	3.91
Kelantan	3.73	4.92	4.50	4.07	13.25	4.92	4.92	8.00	4.78	8.59	3.61
Sarawak	10.00	9.00	9.00	9.00	17.00	7.00	10.00	18.00	9.00	0.00	0.00
Sabah	7.00	10.00	9.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00
Harga Bertimbang	4.99	5.00	4.81	4.57	15.77	4.67	4.94	11.47	5.43	18.77	4.07

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, 1990
WHOLESALE PRICES OF BRACKISHWATER/MARINE FISH AT MAJOR MARKETS BY STATE AND SPECIES, 1990
(\$/Kg)

JADUAL(TABLE) 22.3

Negeri/State	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Merah Red Snapper	Udang Putih Banana Prawn	Ketam Mud Crab	Udang Harimau Tiger Prawn	Kerang Cockles	Kupang Mussels	Pelbagai Miscellaneous
Perlis	0.00	0.00	6.80	0.00	0.00	0.00	0.00	0.29	0.00	0.00
Kedah	7.85	15.00	7.80	0.00	18.03	0.00	17.68	0.31	0.50	0.00
P. Pinang/Penang	8.70	14.50	7.56	0.00	17.90	4.50	0.00	0.30	0.00	4.50
Perak	5.53	14.08	8.60	0.00	17.19	4.52	17.42	0.32	0.60	6.05
Selangor	4.35	14.38	9.02	9.50	17.89	7.18	18.84	0.50	0.93	0.00
W. Persekutuan/ 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	16.90	0.00	19.56	0.00	0.85	0.00
Melaka/Malacca	8.90	13.90	8.90	0.00	17.89	0.00	18.09	0.00	0.44	8.00
Johor/Johore	9.67	14.38	9.19	8.47	21.21	6.98	19.82	0.22	0.44	7.60
Pahang	6.75	12.45	7.50	6.80	17.80	4.01	17.09	0.00	0.00	5.60
Terengganu	7.81	0.00	6.90	0.00	16.89	3.55	15.13	0.00	0.50	4.67
Kelantan	7.64	11.09	0.00	6.67	18.18	4.00	19.28	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
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	0.00
Harga Bertimbang	7.47	13.72	8.03	7.86	17.99	4.96	17.79	0.32	0.61	6.07

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

MALAYSIA
HARGA RUNCIT IKAN AIRPAYAU/MASIN DI PASAR-PASAR UTAMA MENGIKUT NEGERI DAN SPESIES IKAN, 1990.
RETAIL PRICES OF BRACKISHWATER/MARINE FISH AT MAJOR MARKETS BY STATE AND SPECIES, 1990
(\$/KG)

JADUAL (TABLE) 22.4

Negeri/State	Jenis Ikan/Species									
	Siakap Barramundi	Kerapu Grouper	Jenahak Mangrove Snapper	Merah Red Snapper	Udang Putih Banana Prawn	Ketam Mud Crab	Udang Harimau Tiger Prawn	Kerang Cockles	Siput Sudu Mussels	Pelbagai Miscellaneous
Perlis	0.00	0.00	7.80	0.00	0.00	0.00	0.00	0.32	0.00	0.00
Kedah	8.99	16.00	8.60	0.00	19.07	0.00	18.90	0.45	1.00	0.00
P. Pinang/Penang	9.75	16.80	8.50	0.00	18.30	5.70	0.00	0.38	0.00	5.20
Perak	10.62	17.87	9.80	0.00	19.90	5.93	19.70	0.50	1.00	0.00
Selangor	9.84	15.67	9.93	10.68	18.14	5.18	23.22	0.96	1.13	6.50
W. Persekutuan/ 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	12.00	0.00	21.75	0.00	1.00	0.00
Melaka/Malacca	10.29	15.10	9.50	0.00	18.67	0.00	20.50	0.00	0.86	0.70
Johor/Johore	11.25	17.71	11.32	9.79	24.61	7.50	22.97	0.56	0.74	8.10
Pahang	7.80	14.00	8.70	0.00	18.09	4.60	19.90	0.00	0.00	6.90
Terengganu	9.19	0.00	8.90	0.00	17.90	6.50	17.25	0.00	0.71	5.60
Kelantan	8.64	34.40	0.00	7.79	22.00	4.58	22.00	0.00	0.00	0.00
Sarawak	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00
Sabah	0.00	0.00	0.00	0.00	0.00	0.00	25.00	1.50	0.00	0.00
Harga Bertimbang Weighted Price	9.59	18.44	9.23	9.42	18.87	5.71	20.84	0.67	0.92	6.83

* 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
 KERAJAAN MENGIKUT PUSAT DAN SPESIES, 1990
 PRODUCTION OF FRESHWATER FINGERLINGS FROM GOVERNMENT HATCHERIES
 BY HATCHERY AND SPECIES, 1990

JADUAL (TABLE) 23.1

Spesies (Species) Pusat Pembaiikbiak (Hatchery)	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Sepat Siam Snakeskin Gouramy	Tilapia Nilotika Tilapia Nilotica	Tilapia Merah Red Tilapia	Kap Kepala Besar Big Head Carp	Keli Freshwater Catfish	Jelawat River Carp	Kap Rumpit Grass Carp	Patin River Catfish	Lain- Lain Others	Jumlah Total
Bukit Tinggi.	7,258,474	1,200,315	5,830	0	313,454	382,356	200	0	83,036	0	0	9,252,665
Jitra, Kedah	2,275,767	692,589	9,645	140,002	321,768	143,226	0	0	0	0	0	3,582,997
Enggor, Perak	46,373	0	174,780	0	210	0	0	0	0	0	0	221,363
PPIAT Batu Berendam	0	0	0	0	0	0	0	0	0	0	0	0
Sarawak	0	0	0	0	0	0	0	0	0	0	0	0
Jumlah/Total:	9,580,614	1,901,904	190,255	140,002	635,432	525,582	200	0	83,036	0	0	13,057,025

MALAYSIA
PENGELUARAN BENIH-BENIH IKAN/UDANG AIR PAYAU DAN UDANG GALAH DARI PUSAT-PUSAT
KERAJAAN MENGIKUT PUSAT DAN SPESIES, 1990
PRODUCTION OF BRACKISH WATER FISH/PRAWN FINGERLINGS FROM
GOVERNMENT HATCHERIES BY HATCHERY AND SPECIES, 1990

JADUAL (TABLE) 23.2

Species (Species) Pusat Penetasan (Hatchery)	Udang Galah Giant Fresh- water prawn	Udang Harimau Tiger Prawn	Udang Putih Banana Prawn	Siakap Barramundi	Jumlah Total
PPUG Kg. Acheh	1,715,645	860,000	0	0	2,575,645
PPPBUK Pulau Sayak	13,491,800	78,460,000	54,170,000	0	146,121,800
PPUG Sabak	736,000	308,000	0	0	1,044,000
PPUG Tg. Demong	0	0	0	106,008,792	106,008,792
Semariang Rate	0	0	0	0	0
Jumlah/Total:	15,943,445	79,628,000	54,170,000	106,008,792	255,750,237

* PPUG - Pusat Penetasan Udang Galah
 (Giant Freshwater Prawn Hatchery Center)
 PPPBUK - 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, 1990
DISTRIBUTION OF FRESHWATER FRY FOR MISCELLANEOUS PURPOSES AND RELEASED
INTO PUBLIC WATERBODIES BY STATE AND SPECIES, 1990

JADUAL (TABLE) 23.3

Negeri State	Kegunaan Pelbagai/Miscellaneous Purposes								Pelepasan Ke Perairan Umum/Released Into Public Waterbodies							Jumlah Besar
	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Sepat Siam Snakekin Gouramy	Kap Kepala Besar Big Head Carp	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Pelbagai Others	Jumlah Kecil Sub Total	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Sepat Siam Snakekin Gouramy	Kap Kepala Besar Big Head Carp	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Jumlah Kecil Sub Total	Grand Total
Perlis	0	0	0	0	0	0	0	0	132,000	38,500	0	11,000	2,200	0	183,700	183,700
Kedah	14,084	11,154	4,500	44,110	19,250	23,483	0	116,561	1,323,300	370,400	40,880	109,450	8,855	1,780	1,854,625	1,971,186
P.Pinang/ Penang	185	55	0	0	55	5,555	0	5,830	0	0	0	0	5,445	300	5,745	11,575
Perak	1,340	1,833	390	0	8,050	110	0	9,523	584,620	86,350	0	5,500	0	0	656,470	665,993
Selangor	28,500	2,200	0	500	0	500	0	31,700	200,200	8,000	0	7,000	0	500	213,700	245,400
W.Persekutuan/ F.Territory	4,722	3,107	0	6	0	2,309	200	10,344	78,000	130,000	0	63,000	0	0	269,000	279,344
N. Sembilan	650	0	0	0	0	0	0	650	0	0	0	0	0	0	0	650
Malaka/Malecca	1,210	0	0	0	0	0	0	1,210	0	0	0	0	0	0	0	1,210
Johor/Johore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pahang	31,850	7,450	6,000	0	0	10,050	0	55,350	662,520	257,750	0	148,850	0	20,030	1,089,150	1,144,500
Terengganu	170,800	43,000	40,000	0	13,200	19,225	0	286,225	150,000	13,000	0	150	0	3,000	166,150	452,375
Kelantan	0	0	12,000	0	2,750	1,700	0	16,450	145,000	5,000	0	0	2,750	0	152,750	169,200
Sarawak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sabah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jumlah/Total:	253,321	68,599	62,890	44,616	41,305	62,912	200	533,843	3,253,640	907,000	40,880	344,950	19,250	25,590	4,591,290	5,125,133

MALAYSIA
PEMBAHAGIAN BENIH-BENIH IKAN AIRTAWAR KEPADA PENTERNAK
MENGIKUT NEGERI DAN SPESIES IKAN BAGI TAHUN 1990
DISTRIBUTION OF FRESHWATER FISH FRY TO CULTURISTS
BY STATE AND SPECIES, 1990

JADUAL (TABLE) 23.4

Negeri State	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Sepat Siam Snakeskin Gouramy	Kap Kepala Besar Big Head Carp	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Keli River Catfish	Kap Rumput Grass Carp	Jumlah Total
Perlis	0	13,310	2,200	4,620	110	56,375	0	0	76,615
Kedah	189,804	90,078	43,395	25,823	7,700	148,817	0	0	505,617
P.Pinang/ Penang	9,157	2,530	0	0	0	4,400	0	0	16,087
Perak	58,516	11,154	43,690	0	31,548	13,747	0	0	158,655
Selangor	484,147	32,775	0	12,700	0	14,998	0	4,935	549,555
W.Persekutuan/ F.Territory	3,600	1,300	0	550	0	2,250	0	500	8,200
N. Sembilan	244,360	34,436	0	5,000	0	5,000	0	35,000	323,796
Melaka/Malacca	1,879,572	421,000	0	64,460	0	0	0	250	2,365,282
Johor/Johore	22,450	0	0	0	0	0	0	0	22,450
Pahang	1,562,716	203,557	4,200	76,700	0	186,426	0	33,000	2,066,599
Terengganu	71,500	16,280	0	0	0	1,150	0	0	88,930
Kelantan	658,326	87,070	13,080	3,830	13,255	83,211	0	7,200	865,972
Sarawak	0	0	0	0	0	0	0	0	0
Sabah	0	0	0	0	0	0	0	0	0
Jumlah/Total:	5,184,148	913,490	106,565	193,683	52,613	516,374	0	80,885	7,047,758

MALAYSIA
PENGELUARAN IKAN AKUARIUM SERTA NILAI YANG
DIKELUARKAN DALAM TAHUN 1990
PRODUCTIONS AND VALUE OF ORNAMENTAL FISH 1990

JADUAL(TABLE)24.1

Negeri State	Bilangan Dikeluarkan(Ekor) (No. of Production)	Nilai (M\$) Value (M\$)
Perlis	0	0.00
Kedah	0	0.00
P.Pinang/ Penang	3,594,319	1,209,236.50
Perak	831,190	452,000.00
Selangor	866,736	819,435.20
W.Persekutuan/F.Territory	0	0.00
N.Sembilan	0	0.00
Melaka / Malacca	20,300	21,533.80
Johor	64,724,824	6,499,497.30
Pahang	0	0.00
Terengganu	0	0.00
Kelantan	0	0.00
Sarawak	0	0.00
Sabah	0	0.00
JUMLAH/TOTAL	70,037,369	9,001,702.80

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 Rumput	Grass Carp	Ctenopharyngodon idellas		
		Temperas	Carp	Cyclohelichthys apogon		
		Lee Koh	Common Carp	Cyprinus Carpio		
		Selimang Batu	Carp	Epbalzeorthynchus kalopterous		
		Sebarau	Carp	Hampala macrolepidota		
		Kap Perak	Silver Carp	Hypophthalmichthys molitrix		
		Pucuk Pisang	Carp/Barb	Labiobarbus fasciatus		
		Lomah	Carp/Barb	Labiobarbus ocellatus		
		Jelawat	River Carp	Leptobarbus hoevenii		
		Jenkua	Carp	Morulus chrysophekadion		
		Kap Hitam	Black Carp	Mylopheryngodon 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 schwaefeldii		
		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	Aplocheilus 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				
Kalui	Giant Gourami	Osphronemus goramy				
Bujuk	Snake Head	Ophicephalus lucius				
Toman	Snake Head	Ophicephalus micropeltes				
Haruan	Snake Head	Ophicephalus striatus				
Ketutu	Goby	Oxyeleotris marmoratus				
Lawang	River Catfish	Pangassius micronemus				
Patin	River Catfish	Pangassius pangassius				
Kepar, Patong	Perch	Pristigaster fasciatus				
Kelesa	Sclerapages	Scleropages formosus				
Sepat Siam	Snakeskin Gouramy	Trichogaster pectoralis				
Sepat Padi	Two-spot Gouramy	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 Beliak mata Terubok	+ Shad + Slender shad 0 Longtail shad	Pellona spp Ilisha elongata Hilsa macrura
	25 Miscellaneous diadromous fishes	Siakap	+ Giant sea perch (Barramundi)	Lates calcarifer
3 Marine fishes	31 Flounders, Halibuts, Soles, etc.	Lidah Sebelah	+ Tonguefish (Tongue sole) + Flatfish	Cynoglossus spp Pseudorhombus spp
		33 Redfishes, Basses, Congers, etc.	+ Parrotfish + Goatfish + Spotted sicklefish + Fusilier + Spinefeet (Rabbit fish) + Marine catfish	Callyodon spp./Thalassoma spp. Upeneus spp. Drepane punctata Caesio erythrogaster/C. chrysona Siganus spp. Tachysurus spp./Arius spp/ Osteogenius spp. Sciaeria spp/Johnius spp/ Otolithus spp/Otolithoides spp. Promadasys spp. Abalistes stellaris Lutianus johni Spilotichthyys picfus Gerres filamentosus/G. abbreviatus Epinephelus spp/Plectropomus spp. Nemipterus spp Pristipomoides typus Leiognathus spp/Gazz spp/ Secutor spp.
		Gelama/Tongkerong	+ Jewfish	Harpodon nehereus
		Gerut-gerut Jebong Jenahak Kaci Kapas laut Kerapu Kerisi Kerisi bali Kikek	+ Grunter + Triggerfish + Mangrove snapper + Sweetlip + Majorras (Silver biddies) + Grouper + Threadfin bream + Sharptoothed bass + Ponyfish (Slipmouth)	Muraenesox sp. Lutianus argentimaculatus/ L. malabaricus Sauride spp. Sillago sihama/S. maculuta Scolopsis spp.
		Lumi-lumi Malong Merah	+ Bombay-duck + Conger eel + Red snapper	Lutianus argentimaculatus/ L. malabaricus Sauride spp. Sillago sihama/S. maculuta Scolopsis spp.
		Mengkerong/Ubi/Conor Puntung Damar/Bulus-bulus Pasir-pasir/Timun-timun/ Puyu Laut Pelandok Pluru Remong/Kunyit-kunyit Semilang Shrumbu/Lemah Tanda	+ Lizard fish + Sillago-whittings + Monocle bream + Emperors (Scavengers) + Spadefish + Snapper + Catfish eel + False trevally + Snapper	Lethrinus spp. Ephippus orbis Lutianus vitta/L. lineolatus Plotosus spp Lactarius lactarius Lutianus russelli
34 Jacks,	34 Jacks, Mulletts, Sauries, etc.	Aji-aji Alu-alu/Kacang-kacang Aruan Tasek Bawal hitam Bawal puteh Bawal tambak Bawal selatan Belanak/Kedera Cermin/Sagai/Cupak Cincaru Demudok/Rambai Gerong-gerong Kurau/Senangin/Senohong	+ Amberjack + Barracuda + Black kingfish 0 Black pomfret 0 Silver pomfret 0 Chinese pomfret 0 Small pomfret 0 Mullet + Horse mackerel (Trevally) 0 Hardtail scad + Horse mackerel (Trevally) + Golden trevally 0 Threadfin	Seriola nigrofasciata Sphyræna jello/S. optusa Rachycentron canadus Formio niger Pampus argenteus Pampus chinensis Pampus spp. Liza spp/valamugil spp. Alectis indica/Caranx spp. Megalaspis Cordyla Carangoides spp. Caranx speciosus Polynemus spp/Eleutheronema tetradactylum
		Kerepoh Lolong Mata Besar/Selar Pisang-pisang Selar/Pelata Selar Kuning Selayang/Curut Talang	0 Horse mackerel (Trevally) 0 Ox-eye scad 0 Big-eye scad 0 Rainbow runner 0 Selar scad 0 Yellow striped trevally 0 Round scad 0 Queenfish (Leatherskin)	Caranx sexfasciatus Selar boops Selar crymenophthalmus Elagatis bipinnulatus Selar spp. Selaroides leptolepis Decapterus maruadis/D. macrosoma Scomberoides commersonianus

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