

KANDUNGAN

CONTENTS

KANDUNGAN (CONTENTS)

		Muka surat (Page)
A.	ANALISA KEDUDUKAN SEKTOR PERIKANAN DI MALAYSIA, 1998 <i>(Analysis on the Status of the Fisheries Sector In Malaysia, 1998)</i>	1 - 30
B.	PETA, CARTA DAN GRAF <i>(Maps, Charts and Graphs)</i>	
	PETA (MAP) I Daerah-Daerah Perikanan- Semenanjung Malaysia, Sabah, Wilayah Persekutuan Labuan dan Sarawak <i>(Fisheries Districts-Peninsular Malaysia, Sabah, Federal Territory Labuan and Sarawak)</i>	31 - 35
	CARTA (CHART) I Bilangan Vesel Menangkap Ikan Yang Dilesenkan, Malaysia, 1994-1998 <i>(Number Of Fishing Vessels Licensed, Malaysia, 1994-1998)</i>	36
	CARTA (CHART) II Bilangan Vesel-Vesel Laut Dalam Yang Dilesenkan, Malaysia, 1994-1998 <i>(Number of Deep Sea Vessels Licensed, Malaysia, 1994-1998)</i>	37
	CARTA (CHART) III Arah Aliran Pendaratan Ikan Laut, Malaysia, 1994-1998 <i>(Trend Of Marine Fish Landings, Malaysia, 1994-1998)</i>	38
	CARTA (CHART) IV Arah Aliran Pendaratan Udang, Malaysia, 1994-1998 <i>(Trend Of Prawn Landings, Malaysia, 1994-1998)</i>	39
	CARTA (CHART) V Pendaratan Udang, Malaysia, 1998 <i>(Prawn Landings, Malaysia, 1998)</i>	40

		Muka surat (Page)
CARTA (CHART) VI	Pendaratan Pukat Tunda, Malaysia, 1994-1998 <i>(Trawl Landings, Malaysia, 1994-1998)</i>	41
CARTA (CHART) VII	Pendaratan Ikan Laut Mengikut Spesies Utama, Malaysia, 1998 <i>(Landings of Fish Marine By Main Species, Malaysia, 1998)</i>	42
CARTA (CHART) VIII	Pendaratan Pukat Jerut Ikan Mengikut Spesies Utama, Malaysia, 1998 <i>(Purse-Seine Landings By Main Species, Malaysia, 1998)</i>	43
CARTA (CHART) IX	Pendaratan Ikan Laut Mengikut Kumpulan Perkakas, Malaysia, 1998 <i>(Landings of Marine Fish By Gear Group, Malaysia, 1998)</i>	44
CARTA (CHART) X	Arah Aliran Nilai Pasaran Ikan Laut, Malaysia, 1994-1998 <i>(Trend Of Market Values Of Marine Fish, Malaysia, 1994-1998)</i>	45
CARTA (CHART) XI	Arah Aliran Pengeluaran Ternakair, Malaysia, 1994-1998 <i>(Trend Of Aquaculture Production, Malaysia, 1994-1998)</i>	46
CARTA (CHART) XII	Pengeluaran Ternakair Mengikut Jenis Ternakan, Malaysia, 1998 <i>(Production Of Aquaculture By Type Of Culture, Malaysia, 1998)</i>	47

C. JADUAL (Tables)

PERIKANAN LAUT (Marine Fisheries)

JADUAL 1.1 (TABLE)	Bilangan Nelayan Yang Bekerja Di Atas Vesel-Vesel Berlesen, Malaysia, 1998 <i>(Number Of Fishermen Working in Licensed Vessels, Malaysia, 1998)</i>	53
-----------------------	---	----

		Muka surat (Page)
JADUAL 1.2 (TABLE)	Bilangan Nelayan Yang Bekerja Di Atas Vesel-Vesel Berlesen Mengikut Kumpulan Perkakas Dan Negeri, Malaysia, 1998 <i>(Number Of Fishermen Working in Licensed Vessels By Gear Group And State, Malaysia, 1998)</i>	54
JADUAL 1.3 (TABLE)	Bilangan Nelayan Yang Bekerja Di Atas Vesel Yang Dilesenkan Mengikut Daerah-Daerah Perikanan, Malaysia, 1998 <i>(Number Of Fishermen Working In Licensed Fishing Vessels By Fisheries Districts, Malaysia, 1998)</i>	55 - 56
JADUAL 1.4 (TABLE)	Bilangan Nelayan Asing Yang Diluluskan Mengikut Negeri, Semenanjung Malaysia, 1998 <i>(Number Of Approved Foreign Fishermen By State, Peninsular Malaysia, 1998)</i>	57
JADUAL 2.1 (TABLE)	Bilangan Vesel Menangkap Ikan Yang Dilesenkan Mengikut Negeri Dan Kelas Muatan, Malaysia, 1998 <i>(Number Of Licensed Fishing Vessels By State And Tonnage Class, Malaysia, 1998)</i>	58
JADUAL 2.2 (TABLE)	Bilangan Vesel Menangkap Ikan Yang Dilesenkan Mengikut Negeri Dan Kuasa Kuda, Malaysia, 1998 <i>(Number Of Licensed Fishing Vessels By State And Horsepower, Malaysia, 1998)</i>	59
JADUAL 2.3 (TABLE)	Bilangan Vesel Menangkap Ikan Berlesen Mengikut Kumpulan Perkakas, Jenis Dan Kelas Muatan, Malaysia, 1998 <i>(Number Of Licensed Fishing Vessels By Gear Group, Type And Tonnage Class, Malaysia, 1998)</i>	60
JADUAL 2.4 (TABLE)	Bilangan Vesel Menangkap Ikan Yang Dilesenkan Mengikut Daerah-Daerah Perikanan, Malaysia, 1998 <i>(Number Of Licensed Fishing Vessels By Fisheries Districts, Malaysia, 1998)</i>	61 - 62

		Muka surat (Page)
JADUAL 2.5 (TABLE)	Bilangan Vesel Menangkap Ikan Yang Dilesenkan Dan Bilangan Nelayan Yang Bekerja Di Vesel-Vesel Berlesen, Semenanjung Malaysia, 1977-1998 (<i>Number Of Fishing Vessels Licensed And Number Of Fishermen Operating Licensed Vessels, Peninsular Malaysia, 1977-1998</i>)	63
JADUAL 3.1 (TABLE)	Bilangan Perkakas Yang Dilesenkan Mengikut Negeri, Malaysia, 1998 (<i>Number Of Licensed Fishing Gears, By State, Malaysia, 1998</i>)	64
JADUAL 3.2 (TABLE)	Anggaran Bilangan Kumulatif Perkakas Menangkap Ikan Yang Diusahakan Mengikut Negeri, Semenanjung Malaysia, 1998 (<i>Estimated Cumulative Number Of Fishing Gears In Operation By State, Peninsular Malaysia, 1998</i>)	65
JADUAL 4.1 (TABLE)	Pendaratan Ikan Laut Mengikut Negeri Dan Kumpulan Perkakas, Malaysia, 1998 (<i>Landings Of Marine Fish By State And Gear Group, Malaysia, 1998</i>)	66
JADUAL 4.2 (TABLE)	Pendaratan Ikan Laut Mengikut Bulan Dan Negeri, Malaysia, 1998 (<i>Landings Of Marine Fish By Month And State, Malaysia, 1998</i>)	67
JADUAL 4.3 (TABLE)	Pendaratan Ikan Laut Mengikut Bulan Dan Kumpulan Perkakas, Semenanjung Malaysia, 1998 (<i>Landings Of Marine Fish By Month And Gear Group, Peninsular Malaysia, 1998</i>)	68
JADUAL 4.4 (TABLE)	Pendaratan Ikan Laut Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 (<i>Landings Of Marine Fish By State And Species, Malaysia, 1998</i>)	69 - 70
JADUAL 4.5 (TABLE)	Pendaratan Ikan Laut Mengikut Bulan Dan Spesies Ikan, Malaysia, 1998 (<i>Landings Of Marine Fish By Month And Species, Malaysia, 1998</i>)	71 - 72

		Muka surat (Page)
JADUAL 4.5.1 (TABLE)	Pendaratan Ikan Laut Mengikut Bulan Dan Spesies Ikan, Semenanjung Malaysia, 1998 <i>(Landings Of Marine Fish By Month And Species, Peninsular Malaysia, 1998)</i>	73 - 74
JADUAL 4.5.2 (TABLE)	Pendaratan Ikan Laut Mengikut Bulan Dan Spesies Ikan, Pantai Barat, Semenanjung Malaysia, 1998 <i>(Landings Of Marine Fish By Month And Species, West Coast Of Peninsular Malaysia, 1998)</i>	75 - 76
JADUAL 4.5.3 (TABLE)	Pendaratan Ikan Laut Mengikut Bulan Dan Spesies Ikan, Pantai Timur, Semenanjung Malaysia, 1998 <i>(Landings Of Marine Fish By Month And Species, East Coast Of Peninsular Malaysia, 1998)</i>	77 - 78
JADUAL 4.5.4 (TABLE)	Pendaratan Ikan Laut Mengikut Bulan Dan Spesies Ikan, Sarawak, 1998 <i>(Landings Of Marine Fish By Month And Species, Sarawak, 1998)</i>	79 - 80
JADUAL 4.5.5 (TABLE)	Pendaratan Ikan Laut Mengikut Bulan Dan Spesies Ikan, Sabah, 1998 <i>(Landings Of Marine Fish By Month And Species, Sabah, 1998)</i>	81 - 82
JADUAL 4.5.6 (TABLE)	Pendaratan Ikan Laut Mengikut Bulan Dan Spesies Ikan, Labuan, 1998 <i>(Landings Of Marine Fish By Month And Species, Labuan, 1998)</i>	83 - 84
JADUAL 4.6 (TABLE)	Pendaratan Ikan Laut Mengikut Kumpulan Perkakas Dan Spesies Ikan, Malaysia, 1998 <i>(Landings Of Marine Fish By Gear Group And Species, Malaysia, 1998)</i>	85 - 86
JADUAL 4.6.1 (TABLE)	Pendaratan Ikan Laut Mengikut Kumpulan Perkakas Dan Spesies Ikan, Semenanjung Malaysia, 1998 <i>(Landings Of Marine Fish By Gear Group And Species, Peninsular Malaysia, 1998)</i>	87 - 88

		Muka surat (Page)
JADUAL 4.6.2 (TABLE)	Pendaratan Ikan Laut Mengikut Kumpulan Perkakas Dan Spesies Ikan, Pantai Barat, Semenanjung Malaysia, 1998 <i>(Landings Of Marine Fish By Gear Group And Species, West Coast Of Peninsular Malaysia, 1998)</i>	89 - 90
JADUAL 4.6.3 (TABLE)	Pendaratan Ikan Laut Mengikut Kumpulan Perkakas Dan Spesies Ikan, Pantai Timur, Semenanjung Malaysia, 1998 <i>(Landings Of Marine Fish By Gear Group And Species, East Coast Of Peninsular Malaysia, 1998)</i>	91 - 92
JADUAL 4.6.4 (TABLE)	Pendaratan Ikan Laut Mengikut Kumpulan Perkakas Dan Spesies Ikan, Sarawak, 1998 <i>(Landings Of Marine Fish By Gear Group And Species, Sarawak, 1998)</i>	93 - 94
JADUAL 4.6.5 (TABLE)	Pendaratan Ikan Laut Mengikut Kumpulan Perkakas Dan Spesies Ikan, Sabah, 1998 <i>(Landings Of Marine Fish By Gear Group And Species, Sabah, 1998)</i>	95 - 96
JADUAL 4.6.6 (TABLE)	Pendaratan Ikan Laut Mengikut Kumpulan Perkakas Dan Spesies Ikan, Labuan, 1998 <i>(Landings Of Marine Fish By Gear Group And Species, Labuan, 1998)</i>	97 - 98
JADUAL 4.7 (TABLE)	Usaha Menangkap Ikan Dan Pendaratan Pukat Tunda Mengikut Kelas Muatan Dan Spesies Ikan, Semenanjung Malaysia, 1998 <i>(Fishing Effort And Landings Of Trawlers By Tonnage Class And Species, Peninsular Malaysia, 1998)</i>	99 - 100
JADUAL 4.7.1 (TABLE)	Usaha Menangkap Ikan Dan Pendaratan Pukat Tunda Mengikut Kelas Muatan Dan Spesies Ikan, Pantai Barat, Semenanjung Malaysia, 1998 <i>(Fishing Effort And Landings Of Trawlers By Tonnage Class And Species, West Coast Of Peninsular Malaysia, 1998)</i>	101 - 102

		Muka surat (Page)
JADUAL 4.7.2 (TABLE)	Usaha Menangkap Ikan Dan Pendaratan Pukat Tunda Mengikut Kelas Muatan Dan Spesies Ikan, Pantai Timur, Semenanjung Malaysia, 1998 <i>(Fishing Effort And Landings Of Trawlers By Tonnage Class And Species, East Coast Of Peninsular Malaysia, 1998)</i>	103 - 104
JADUAL 4.8 (TABLE)	Usaha Menangkap Ikan Dan Pendaratan Pukat Jerut Mengikut Kelas Muatan Dan Spesies Ikan, Semenanjung Malaysia, 1998 <i>(Fishing Effort And Landings Of Fish Purse Seiners By Tonnage Class And Species, Peninsular Malaysia, 1998)</i>	105 - 106
JADUAL 4.8.1 (TABLE)	Pantai Barat Semenanjung Malaysia/West Coast Peninsular Malaysia Usaha Menangkap Ikan Dan Pendaratan Pukat Jerut Mengikut Kelas Muatan Dan Spesies Ikan, 1998 <i>(Fishing Effort And Landings Of Fish Purse Seiners By Tonnage Class And Species, 1998)</i>	107 - 108
JADUAL 4.8.2 (TABLE)	Pantai Timur Semenanjung Malaysia/East Coast of Peninsular Malaysia Usaha Menangkap Ikan Dan Pendaratan Pukat Jerut Mengikut Kelas Muatan Dan Spesies Ikan, 1998 <i>(Fishing Effort And Landings Of Fish Purse Seiners By Tonnage Class And Species, 1998)</i>	109 - 110
JADUAL 5.1 (TABLE)	Usaha Menangkap Ikan : Bilangan Trip Menangkap Ikan Mengikut Jenis Perkakas Dan Negeri, Semenanjung Malaysia, 1998 <i>(Fishing Effort: Number Of Trips By Type Of Gear And State, Peninsular Malaysia, 1998)</i>	111
JADUAL 5.2 (TABLE)	Usaha Menangkap Ikan : Bilangan Hari Menangkap Ikan Mengikut Jenis Perkakas Dan Negeri, Semenanjung Malaysia, 1998 <i>(Fishing Effort : Number Of Fishing Days, Type Of Gear And State, Peninsular Malaysia, 1998)</i>	112

		Muka surat (Page)
JADUAL 5.3 (TABLE)	Usaha Menangkap Ikan : Bilangan Kali Memukat Menangkap Ikan Mengikut Jenis Perkakas Dan Negeri, Semenanjung Malaysia, 1998 <i>(Fishing Effort : Number Of Hauls By Type Of Gear And State, Peninsular Malaysia, 1998)</i>	113
JADUAL 6.1 (TABLE)	Harga Purata Ikan Di Pantai Mengikut Bulan, Semenanjung Malaysia, 1998 <i>(Monthly Average Ex-Vessel Prices Of Fresh Fish, Peninsular Malaysia, 1998)</i>	114
JADUAL 7.1 (TABLE)	Nilai Harga Borong Pendaratan Ikan Laut, Malaysia, 1998 <i>(Wholesale Value Of Marine Fish Landings, Malaysia, 1998)</i>	115
JADUAL 7.2 (TABLE)	Nilai Harga Runcit Pendaratan Ikan Laut, Malaysia, 1998 <i>(Retail Value Of Marine Fish Landings, Malaysia, 1998)</i>	116
JADUAL 7.3 (TABLE)	Nilai Pendaratan Ikan Laut Mengikut Kumpulan Perkakas Dan Gred Ikan, Semenanjung Malaysia, 1998 <i>(Value Of Marine Fish Landings By Gear Group And Grade Of Fish, Peninsular Malaysia, 1998)</i>	117
JADUAL 8.1 (TABLE)	Siri Tahunan Pendaratan Ikan Laut Dan Nilai, Malaysia, 1994-1998 <i>(Annual Series Of Marine Fish Landings And Values, Malaysia, 1994-1998)</i>	118
JADUAL 9.1 (TABLE)	Kuantiti Dan Peratus Pendaratan Serta Nilai Ikan Laut Mengikut Negeri, Malaysia, 1998 <i>(Quantity And Percentage Of Landings And Values Of Marine Fish By State, Malaysia, 1998)</i>	119
JADUAL 10.1 (TABLE)	Penggunaan Pendaratan Ikan Laut, Semenanjung Malaysia, 1998 <i>(Disposition Of Marine Fish Landings, Peninsular Malaysia, 1998)</i>	120

		Muka surat (Page)
JADUAL 10.2 (TABLE)	Hasil Laut Yang Diawetkan, Semenanjung Malaysia, 1998 <i>(Processed Marine Fish Products, Peninsular Malaysia, 1998)</i>	121
JADUAL 11.1 (TABLE)	Kilang-Kilang Air Batu Dan Kemudahan-Kemudahan Penyejukan Sehingga 31.12.1998, Malaysia <i>(Ice Factories And Refrigeration Facilities As At 31.12.1998, Malaysia)</i>	122
JADUAL 12.1 (TABLE)	Hasil Perikanan Dalam Ringgit Malaysia, Semenanjung Malaysia, 1998 <i>(Fisheries Revenue in Malaysian Ringgit, Peninsular Malaysia, 1998)</i>	123
TERNAKAIR (AQUACULTURE)		
JADUAL 13.1 (TABLE)	Anggaran Bilangan Dan Luas, Kolam, Bekas Lombong Sangkar Dan Tangki Simen Yang Diusahakan Serta Bilangan Penternak Mengikut Sistem Ternakan Dan Negeri, Malaysia, 1998 <i>(Estimated Number And Area Of Ponds, Disused Mining Pools Cages And Cement Tanks And Number Of Culturists By Culture System And State, Malaysia, 1998)</i>	126
JADUAL 14.1 (TABLE)	Anggaran Jumlah Pengeluaran Ikan Ternakan, Kerang, Siput Sudu Dan Tiram Mengikut Negeri Dan Sistem Ternakan, Malaysia, 1998 <i>(Estimated Productions Of Fish, Cockles Mussels And Oysters By State And Culture System, Malaysia, 1998)</i>	127
JADUAL 14.2 (TABLE)	Anggaran Nilai Borong Ikan Ternakan, Kerang, Siput Sudu Dan Tiram Mengikut Negeri Dan Sistem Ternakan, Malaysia, 1998 <i>(Estimated Wholesale Value Of Fish, Cockles, Mussels And Oysters By State And Culture System, Malaysia, 1998)</i>	128

JADUAL 14.3 (TABLE)	Anggaran Nilai Runcit Ikan Ternakan, Kerang, Siput Sudu Dan Tiram Mengikut Negeri Dan Sistem Ternakan, Malaysia, 1998 <i>(Estimated Retail Value Of Fish, Cockles, Mussels And Oysters By State And Culture System, Malaysia, 1998)</i>	129
JADUAL 14.4 (TABLE)	Anggaran Pengeluaran Ikan Dari Kolam Airtawar, Sangkar Airtawar, Bekas Lombong Tangki Simen Dan Kandang Mengikut Spesies Ikan, Malaysia, 1998 <i>(Estimated Fish Production From Freshwater Ponds, Freshwater Cages, Ex-Mining Pools Cement Tanks and Pen Culture By Species, Malaysia, 1998)</i>	130
JADUAL 14.5 (TABLE)	Anggaran Nilai Borong Ikan Dari Kolam Airtawar, Sangkar Airtawar, Bekas Lombong Tangki Simen Dan Kandang Mengikut Spesies Ikan, Malaysia, 1998 <i>(Estimated Wholesale Value of Fish From Freshwater Ponds, Freshwater Cages, Ex-Mining Pools, Cement Tanks and Pen Culture By Species, Malaysia, 1998)</i>	131
JADUAL 14.6 (TABLE)	Anggaran Nilai Runcit Ikan Dari Kolam Airtawar, Sangkar Airtawar, Bekas Lombong Tangki Simen Dan Kandang Mengikut Spesies Ikan, Malaysia, 1998 <i>(Estimated Retail Value of Fish From Freshwater Ponds, Freshwater Cages, Ex-Mining Pools, Cement Tanks and Pen Culture By Species, Malaysia, 1998)</i>	132
JADUAL 14.7 (TABLE)	Anggaran Pengeluaran Ikan Dari Kolam Airpayau, Sangkar Airpayau, Ternakan Kerang, Ternakan Siput Sudu Dan Ternakan Tiram Mengikut Spesies Ikan, Malaysia, 1998 <i>(Estimated Fish Production From Brackishwater Ponds, Brackishwater Cages, Cockle Culture, Mussel Culture And Oyster Culture By Species, Malaysia, 1998)</i>	133

		Muka surat (Page)
JADUAL 14.8 (TABLE)	Anggaran Nilai Borong Ikan Dari Kolam Airpayau, Sangkar Airpayau, Ternakan Kerang, Ternakan Siput Sudu Dan Ternakan Tiram Mengikut Spesies Ikan, Malaysia, 1998 <i>(Estimated Wholesale Value of Fish From Brackishwater Ponds, Brackishwater Cages, Cockle Culture, Mussel Culture And Oyster Culture By Species, Malaysia, 1998)</i>	134
JADUAL 14.9 (TABLE)	Anggaran Nilai Runcit Ikan Dari Kolam Airpayau, Sangkar Airpayau, Ternakan Kerang, Ternakan Siput Sudu Dan Ternakan Tiram Mengikut Spesies Ikan, Malaysia, 1998 <i>(Estimated Retail Value of Fish From Brackishwater Ponds, Brackishwater Cages, Cockle Culture, Mussel Culture And Oyster Culture By Species, Malaysia, 1998)</i>	135
JADUAL 15.1 (TABLE)	Bilangan Dan Luas Kolam Airtawar Yang Diusahakan Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area Of Freshwater Ponds In Operation And Number Of Culturists By Race And State, Malaysia, 1998)</i>	136
JADUAL 15.2 (TABLE)	Anggaran Pengeluaran Ikan Dari Kolam Airtawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Fish Production From Freshwater Ponds By State And Fish Species, Malaysia, 1998)</i>	137
JADUAL 15.3 (TABLE)	Anggaran Nilai Borong Pengeluaran Ikan Dari Kolam Airtawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Wholesale Value Of Fish Production From Freshwater Ponds By State And Species, Malaysia, 1998)</i>	138
JADUAL 15.4 (TABLE)	Anggaran Nilai Runcit Pengeluaran Ikan Dari Kolam Airtawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Retail Value Of Fish Production From Freshwater Ponds By State And Fish Species, Malaysia, 1998)</i>	139

**Muka surat
(Page)**

JADUAL 16.1 (TABLE)	Bilangan Dan Luas Bekas Lombong Yang Diusahakan Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area Of Ex-Mining Pools In Operation And Number Of Culturists By Race And State, Malaysia, 1998)</i>	140
JADUAL 16.2 (TABLE)	Anggaran Pengeluaran Ikan Dari Bekas Lombong Airtawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Fish Production From Ex- Mining Pools By State And Fish Species, Malaysia, 1998)</i>	141
JADUAL 16.3 (TABLE)	Anggaran Nilai Borong Pengeluaran Bekas Ikan Dari Lombong Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Wholesale Value Of Fish Production From Ex-Mining Pools By State And Fish Species, Malaysia, 1998)</i>	142
JADUAL 16.4 (TABLE)	Anggaran Nilai Runcit Pengeluaran Bekas Ikan Dari Lombong Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Retail Value Of Fish Production From Ex-Mining Pools By State And Fish Species, Malaysia, 1998)</i>	143
JADUAL 17.1 (TABLE)	Bilangan Dan Luas Sangkar Airtawar Yang Diusahakan Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area Of Freshwater Cages And Number Of Culturists By State, Malaysia, 1998)</i>	144
JADUAL 17.2 (TABLE)	Anggaran Pengeluaran Ikan Dari Sangkar Airtawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Fish Production From Freshwater Cages By State And Species, Malaysia, 1998)</i>	145

		Muka surat (Page)
JADUAL 17.3 (TABLE)	Anggaran Nilai Borong Pengeluaran Ikan Dari Sangkar Airtawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Wholesale Value Of Fish Production From Freshwater Cages By State And Fish Species, Malaysia, 1998)</i>	146
JADUAL 17.4 (TABLE)	Anggaran Nilai Runcit Pengeluaran Ikan Dari Sangkar Airtawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Retail Value Of Fish Production From Freshwater Cages By State And Fish Species, Malaysia, 1998)</i>	147
JADUAL 18.1 (TABLE)	Bilangan Dan Luas Tangki Simen Yang Diusahakan Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area of Cement Tank in Operation And Number of Culturists By Race And State, Malaysia, 1998)</i>	148
JADUAL 18.2 (TABLE)	Anggaran Pengeluaran Ikan Dari Tangki Simen Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Fish Production From Cement Tank By State And Fish Species, Malaysia, 1998)</i>	149
JADUAL 18.3 (TABLE)	Anggaran Nilai Borong Pengeluaran Ikan Dari Tangki Simen Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Wholesale Value of Fish Production From Cement Tank By State And Fish Species, Malaysia, 1998)</i>	150
JADUAL 18.4 (TABLE)	Anggaran Nilai Runcit Pengeluaran Ikan Dari Tangki Simen Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Retail Value of Fish Production From Cement Tank By State And Fish Species, Malaysia, 1998)</i>	151
JADUAL 19.1 (TABLE)	Bilangan Dan Luas Kandang Ikan Yang Diusahakan Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area Of Pen Culture In Operation And Number Of Culturists By Race And State, Malaysia, 1998)</i>	152

JADUAL 19.2 (TABLE)	Anggaran Pengeluaran Ikan Dari Kandang Air Tawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Fish Production From Freshwater Pen Culture By State And Fish Species, Malaysia, 1998)</i>	153
JADUAL 19.3 (TABLE)	Anggaran Nilai Borong Pengeluaran Ikan Dari Kandang Air Tawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Wholesale Value Of Fish Production From Freshwater Pen Culture By State And Fish Species, Malaysia, 1998)</i>	154
JADUAL 19.4 (TABLE)	Anggaran Nilai Runcit Pengeluaran Ikan Dari Kandang Air Tawar Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Retail Value Of Fish Production From Freshwater Pen Culture By State And Species, Malaysia, 1998)</i>	155
JADUAL 20.1 (TABLE)	Bilangan Dan Luas Kolam Airpayau Yang Diusahakan Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area Of Brackishwater Ponds In Operation And Number Of Culturists By Race And State, Malaysia, 1998)</i>	156
JADUAL 20.2 (TABLE)	Anggaran Pengeluaran Ikan Dari Kolam Airpayau/Masin Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Fish Production From Brackishwater/Marine Ponds By State And Fish Species, Malaysia, 1998)</i>	157
JADUAL 20.3 (TABLE)	Anggaran Nilai Borong Pengeluaran Ikan Dari Kolam Airpayau/Masin Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Wholesale Value Fish Production From Brackishwater/Marine Ponds By State And Fish Species, Malaysia, 1998)</i>	158

		Muka surat (Page)
JADUAL 20.4 (TABLE)	Anggaran Nilai Runcit Pengeluaran Ikan Dari Kolam Airpayau/Masin Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Estimated Retail Value Of Fish Production From Brackishwater/Marine Ponds By State And Fish Species, Malaysia, 1998)</i>	159
JADUAL 21.1 (TABLE)	Bilangan Dan Luas Sangkar Air Payau Yang Di Usahakan Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area Of Brackishwater Cage In Operation And Number Of Culturist By Race And State Malaysia, 1998)</i>	160
JADUAL 21.2 (TABLE)	Anggaran Pengeluaran Ikan Dari Sangkar Mengikut Negeri Dan Spesis Ikan, Malaysia, 1998 <i>(Estimated Fish Production From Brackishwater/ Marine Cages By State And Fish Species, Malaysia, 1998)</i>	161
JADUAL 21.3 (TABLE)	Anggaran Nilai Borang Pengeluaran Ikan Dari Sangkar Airpayau/Masin Mengikut Negeri Dan Spesis Ikan, Malaysia, 1998 <i>(Estimated Wholesale Value Of Fish Production From Brackishwater/Marine Cages By State And Fish Species, Malaysia, 1998)</i>	162
JADUAL 21.4 (TABLE)	Anggaran Nilai Runcit Pengeluaran Ikan Dari Sangkar Air Payau/Masin Mengikut Negeri Dan Spesis Ikan, Malaysia, 1998 <i>(Estimated Retail Value Of Fish Production From Brackishwater/Marine Cages By State And Fish Species, Malaysia, 1998)</i>	163
JADUAL 22.1 (TABLE)	Bilangan Dan Luas Kawasan Ternakan Kerang Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area Of Cockle Culture In Operation And Number Of Culturists By Race And State, Malaysia, 1998)</i>	164
JADUAL 22.2 (TABLE)	Pengeluaran Kerang Dewasa Mengikut Bulan Dan Negeri, Malaysia, 1998	165

		Muka surat (Page)
JADUAL 22.3 (TABLE)	Pengeluaran Benih Kerang Mengikut Bulan Dan Negeri, Malaysia, 1998 <i>(Production Of Cockles Seeds By Month And State, Malaysia, 1998)</i>	166
JADUAL 23.1 (TABLE)	Bilangan Dan Luas Kawasan Ternakan Siput Sudu Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area Of Mussel Culture And Number Of Culturist By Race And State, Malaysia, 1998)</i>	167
JADUAL 23.2 (TABLE)	Pengeluaran Siput Sudu Mengikut Bulan Dan Negeri, Malaysia, 1998 <i>(Production Of Mussels By Month And State, Malaysia, 1998)</i>	168
JADUAL 24.1 (TABLE)	Bilangan Dan Luas Kawasan Ternakan Tiram Serta Bilangan Penternak Mengikut Kaum Dan Negeri, Malaysia, 1998 <i>(Number And Area Of Oyster Culture And Number Of Culturists By Race And State, Malaysia, 1998)</i>	169
JADUAL 24.2 (TABLE)	Pengeluaran Tiram Mengikut Bulan Dan Negeri, Malaysia, 1998 <i>(Production Of Oyster By Month And State, Malaysia, 1998)</i>	170
JADUAL 25.1 (TABLE)	Harga Borong Ikan Airtawar Di Pasar-Pasar Utama Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Wholesale Prices Of Freshwater Fish At Major Markets By State And Fish Species, Malaysia, 1998)</i>	171
JADUAL 25.2 (TABLE)	Harga Runcit Ikan Airtawar Di Pasar-Pasar Utama Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Retail Prices Of Freshwater Fish At Major Markets By State And Fish Species, Malaysia, 1998)</i>	172

		Muka surat (Page)
JADUAL 26.1 (TABLE)	Harga Borong Ikan Airpayau/Masin Di Pasar-Pasar Utama Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Wholesale Prices Of Brackishwater/ Marine Fish At Major Markets By State And Fish Species, Malaysia, 1998)</i>	173
JADUAL 26.2 (TABLE)	Harga Runcit Ikan Airpayau/Masin Di Pasar-Pasar Utama Mengikut Negeri Dan Spesies Ikan, Malaysia, 1998 <i>(Retail Prices Of Brackishwater/ Marine Fish At Major Markets By State And Fish Species, Malaysia, 1998)</i>	174
JADUAL 27.1 (TABLE)	Pengeluaran Hasil Ikan Hiasan Mengikut Negeri, Malaysia, 1998 <i>(Production Of Ornamental Fish By State, Malaysia, 1998)</i>	175
JADUAL 27.2 (TABLE)	Pengeluaran Dan Nilai Ikan Hiasan Mengikut Negeri, Malaysia, 1998 <i>(Production And Value Of Ornamental Fish By State, Malaysia, 1998)</i>	176
JADUAL 28.1 (TABLE)	Bilangan Dan Pengeluaran Pusat Pengeluaran Benih Ikan/Udang Swasta Mengikut Negeri, Malaysia, 1998 <i>(Number And Production Of Private Fish/Prawn Fry Hatchery Centre By State, Malaysia, 1998)</i>	177
JADUAL 29.1 (TABLE)	Bilangan Dan Pengeluaran Kilang "Feedmill" Mengikut Negeri, Malaysia, 1998 <i>(Number And Production Of Feedmills By State, Malaysia, 1998)</i>	178

**PERAIRAN UMUM
(Public Waterbodies)**

JADUAL 30.1 (TABLE)	Pendaratan Ikan Airtawar Dari Perairan Umum Mengikut Bulan Dan Negeri, Malaysia, 1998 <i>(Landings Of Freshwater Fish From Public Waterbodies By Month And State, Malaysia, 1998)</i>	181
JADUAL 31.1 (TABLE)	Pengeluaran Benih Ikan Air Tawar Dari Pusat-Pusat Pembaikbiak Ikan Kerajaan Mengikut Pusat dan Spesis, 1998 <i>(Production of Freshwater Fingerlings From Government Hatcheries By Hatchery and Species, 1998)</i>	182
JADUAL 31.2 (TABLE)	Pengeluaran Benih-Benih Ikan/Udang Air Payau Dan Udang Galah Dari Pusat-Pusat Kerajaan Mengikut Pusat dan Spesis, 1998 <i>(Production of Brackishwater Fish/Prawn Fingerlings From Government Hatcheries By Hatchery and Species, 1998)</i>	183
JADUAL 31.3 (TABLE)	Pembahagian Benih-Benih Ikan Untuk Kegunaan Pelbagai dan Pelepasan ke Perairan Umum Mengikut Negeri dan Species Ikan, 1998 <i>(Distribution of Freshwater Fry for Miscellaneous Purposes and Released into Public Waterbodies By State and Species, 1998)</i>	184
JADUAL 31.4 (TABLE)	Pembahagian Benih-Benih Ikan Airtawar Kepada Penternak Mengikut Negeri dan Spesies Ikan, 1998 <i>(Distribution of Freshwater Fish Fry to Culturists By State and Species, 1998)</i>	185

**D. KLASIFIKASI PERANGKAAN PIAWAIAN
IKAN-IKAN AIRTAWAR MALAYSIA
(Standard Statistical Classification
Of Common Malaysian Freshwater Fishes)**

DAN (AND)

**KLASIFIKASI PERANGKAAN PIAWAIAN
IKAN-IKAN LAUT MALAYSIA
(Standard Statistical Classification
Of Malaysian Marine Fishes)**

186 - 193