

**PENGELUARAN BENIH
IKAN/UDANG**

***FISH/PRAWN FRY
PRODUCTION***

MALAYSIA

ANGGARAN PENGELUARAN BENIH IKAN AIR TAWAR DARI PUSAT PEMBAIKBIAK IKAN KERAJAAN MENGIKUT PUSAT DAN SPESIS, 2003
ESTIMATED PRODUCTION OF FRESHWATER FINGERLINGS FROM GOVERNMENT HATCHERIES BY HATCHERY AND SPECIES, 2003
(KUANTITI DALAM EKOR/QUANTITY IN PIECES)

Spesis (Species) Pusat Pembaikbiak (Hatchery)	Rega/Hatchling Benih/Fry	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Sepat Siam Snakeskin Gouramy	Tilapia Nilotika Tilapia Nilotica	Tilapia Merah Red Tilapia	Kap Kepala Besar Big Head Carp	Jelawat River Carp	Keli Freshwater Catfish	Baung River Catfish	Lain-Lain Others	Jumlah Total
PPAT Bukit Tinggi, Pahang	Rega/Hatchling	1,500,000	0	0	0	0	0	0	700,000	0	0	2,200,000
	Benih/Fry	457,700	0	0	0	578,550	0	0	0	0	0	1,036,250
PPA Jitra, Kedah	Rega/Hatchling	0	0	0	0	0	0	0	500,000	0	0	500,000
	Benih/Fry	174,900	0	0	2,310	886,965	0	0	398,657	0	330	1,463,162
PLPD Enggor, Perak	Rega/Hatchling	0	0	700	0	0	0	0	65,000	0	0	65,700
	Benih/Fry	537,030	0	700	0	319,450	0	0	243,130	0	10,300	1,110,610
PPIAT Bt Berendam, Melaka	Rega/Hatchling	0	0	0	0	0	0	0	0	0	0	0
	Benih/Fry	0	0	0	0	0	0	0	0	0	0	0
PPA Machang, Kelantan	Rega/Hatchling	0	0	0	0	0	0	0	0	0	0	0
	Benih/Fry	0	0	0	0	453,262	0	0	214,000	0	0	667,262
PPA Tapah, Perak	Rega/Hatchling	0	0	0	0	0	0	0	0	0	0	0
	Benih/Fry	756,355	0	0	0	631,525	0	0	44,700	600	3,090	1,436,270
PPA Jerantut, Pahang	Rega/Hatchling	0	0	0	0	0	0	0	0	0	0	0
	Benih/Fry	32,000	0	0	0	704,700	0	500	0	8,200	1,278,300	2,023,700
Sarawak	Rega/Hatchling	0	0	0	0	0	0	0	0	0	0	0
	Benih/Fry	1,677,319	1,347,673	1,520	250	2,989,026	0	0	0	0	4,659,666	10,675,454
Sabah	Rega/Hatchling	0	0	0	0	0	0	0	0	0	0	0
	Benih/Fry	175,163	115,789	0	883,307	1,081,108	0	0	16,649	0	44,350	2,316,366
Jumlah/Total	Rega/Hatchling	1,500,000	0	700	0	0	0	0	1,265,000	0	0	2,765,700
	Benih/Fry	3,810,467	1,463,462	2,220	885,867	7,644,586	0	500	917,136	8,800	5,996,036	20,729,074

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ANGGARAN PENGELUARAN BENIH UDANG AIR PAYAU/MASIN DAN UDANG GALAH DARI PUSAT KERAJAAN MENGIKUT PUSAT DAN SPESIS, 2003

ESTIMATED PRODUCTION OF BRACKISHWATER AND GIANT FRESHWATER PRAWN FINGERLINGS FROM GOVERNMENT HATCHERIES BY HATCHERY AND SPECIES, 2003

(KUANTITI DALAM EKOR/QUANTITY IN PIECES)

Spesis (Species) Pusat Penetasan (Hatchery)	Pengeluaran (Ekor) Production (Pieces)							
	Udang Harimau Tiger Prawn		Udang Putih Banan Prawn		Udang Galah Giant Freshwater Prawns		Jumlah Total	
	Nauplii Nauplii	Benih Fry	Nauplii Nauplii	Benih Fry	Nauplii Nauplii	Benih Fry	Nauplii Nauplii	Benih Fry
PPUG Kg. Acheh, Perak	0	0	0	0	12,000	5,018	12,000	5,018
PPIUL Tg. Demong, Terengganu	0	0	0	0	0	0	0	0
PPPBUK Kg. Pulau Sayak, Kedah	0	3,548,500	0	125,000	0	79,000	0	3,752,500
PPTAP Gelang Patah*, Johor	0	0	0	0	0	0	0	0
Sarawak	3	6,000,000	0	0	0	2,000,000	0	6,000,000
Sabah	0	0	0	0	0	0	0	0
Jumlah/Total	3	9,548,500	0	125,000	12,000	2,084,018	12,003	11,757,518

* PPTAP Gelang Patah hanya menumpukan aktiviti kajian ikan dan udang sahaja

* PPTAP Gelang Patah only concentrates on research activities on fish and prawn.

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ANGGARAN PENGELUARAN BENIH IKAN AIR PAYAU/MASIN DARI PUSAT KERAJAAN MENGIKUT PUSAT DAN SPESIS, 2003
 ESTIMATED PRODUCTION OF BRACKISHWATER FISH FINGERLINGS FROM GOVERNMENT HATCHERIES BY HATCHERY AND SPECIES, 2003
 (KUANTITI DALAM EKOR/QUANTITY IN PIECES)

Spesis (Species) Pusat Penetasan (Hatchery)	Rega/Hatchling Benih/Fry	Pengeluaran (Ekor) Production (Pieces)						
		Kerapu Grouper	Siakap Barramundi	Siakap Merah Mangrove Red Snapper	Siput Sudu Mussels	Tiram Oyster	Lain-lain Others	Jumlah Total
PPUG Kg. Acheh, Perak	Rega/Hatchling	0	0	0	0	0	0	0
	Benih/Fry	0	0	0	0	0	0	0
PPIUL Tg. Demong, Terengganu	Rega/Hatchling	37,500,000	127,800,000	0	0	0	0	165,300,000
	Benih/Fry	0	774,600	0	0	0	52,000	826,600
PPPBUK Kg. Pulau Sayak, Kedah	Rega/Hatchling	2,500,000	2,000,000	0	0	21,425,000		25,925,000
	Benih/Fry	1,500,000	533,248	0	0	2,646,470		4,679,718
PPTAP Gelang Patah*, Johor	Rega/Hatchling	0	0	0	0	0	0	0
	Benih/Fry	0	0	0	0	0	0	0
Sarawak	Rega/Hatchling	0	1,662,145	0	0	0	0	1,662,145
	Benih/Fry	0	0	0	0	0	0	0
Sabah	Rega/Hatchling	0	0	0	0	0	0	0
	Benih/Fry	5,190	171,144	0	0	0	0	176,334
Jumlah/Total	Rega/Hatchling	40,000,000	131,462,145	0	0	21,425,000	0	192,887,145
	Benih/Fry	1,505,190	1,478,992	0	0	2,646,470	52,000	5,682,652

* PPTAP Gelang Patah hanya menumpukan aktiviti kajian ikan dan udang sahaja

* PPTAP Gelang Patah only concentrates on research activities on fish and prawn

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BILANGAN DAN ANGGARAN PENGELUARAN HACERI BENIH IKAN AIR PAYAU SWASTA MENGIKUT NEGERI, 2003
NUMBER AND ESTIMATED PRODUCTION OF PRIVATE BRACKISHWATER FISH FRY HATCHERY BY STATE, 2003

Negeri State	Bilangan Numbers	Rega/Benih Hatchling/Fry	Pengeluaran (Ekor) Production (Pieces)						
			Kerapu Grouper	Siakap Barramundi	Siakap Merah Mangrove Red Snapper	Siput Sudu Mussels	Tiram Oyster	Lain Lain Others	Jumlah Total
Perlis	0	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	0	0	0
Kedah	0	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	0	0	0
Pulau Pinang	1	Rega/Hatchling	5,000,000	15,000,000	1,000,000	0	0	3,000,000	24,000,000
		Benih/Fry	500,000	2,000,000	400,000	0	0	1,100,000	4,000,000
Perak	0	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	0	0	0
Selangor	1	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	0	29,400	0	0	0	0	29,400
Negeri Sembilan	0	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	0	0	0
Melaka	0	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	0	0	0
Johor	4	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	16,290	1,546,000	0	0	0	83,000,000	84,562,290
Pahang	2	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	42,715	0	0	0	0	0	42,715
Terengganu	49	Rega/Hatchling	17,000	753,285,000	1,500	0	0	0	753,303,500
		Benih/Fry	0	0	0	0	0	0	0
Kelantan	0	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	0	0	0
Sarawak	na	Rega/Hatchling	na	na	na	na	na	na	na
		Benih/Fry	na	na	na	na	na	na	na
Sabah	2	Rega/Hatchling	0	0	0	0	0	0	0
		Benih/Fry	183,165	500,000	0	0	0	129,122	812,287
Jumlah/Total	59	Rega/Hatchling	5,017,000	768,285,000	1,001,500	0	0	3,000,000	777,303,500
		Benih/Fry	742,170	4,075,400	400,000	0	0	84,229,122	89,446,692

na: Tiada maklumat(No information available)

MALAYSIA
BILANGAN DAN ANGGARAN PENGELUARAN HACERI BENIH UDANG SWASTA MENGIKUT NEGERI, 2003
NUMBER AND ESTIMATED PRODUCTION OF PRIVATE PRAWN FRY HATCHERY BY STATE, 2003

Negeri State	Bilangan Numbers	Pengeluaran (Juta Ekor)						
		Udang Harimau Tiger Prawn		Udang Putih Banana Prawn		Bilangan Numbers	Udang Galah Giant Freshwater prawn	
		Nauplii Nauplii	Benih Fry	Nauplii Nauplii	Benih Fry		Rega Larvae	Benih Juvenile
Perlis	0	0.00	0.00	0.00	0.00	0	0.00	0.00
Kedah	1	312.00	0.00	0.00	0.00	0	0.00	0.00
Pulau Pinang	12	705.00	328.00	0.00	0.00	0	0.00	0.00
Perak	20	1,713.17	223.14	21.60	18.00	15	0.00	8.44
Selangor	5	203.00	485.20	0.00	0.00	0	0.00	0.00
Negeri Sembilan	2	10.80	6.70	0.00	0.00	1	0.00	6.90
Melaka	0	0.00	0.00	0.00	0.00	0	0.00	0.00
Johor	5	232.52	381.68	0.00	6.00	1	0.00	0.69
Pahang	0	0.00	0.00	0.00	0.00	0	0.00	0.00
Terengganu	4	785.00	145.50	0.00	0.00	1	0.00	2.56
Kelantan	1	0.00	0.34	0.00	0.00	0	0.00	0.00
Sarawak	13	0.00	321.00	0.00	0.00	0	0.00	0.00
Sabah	11	0.00	425.00	0.00	0.00	0	0.00	0.00
Jumlah/Total	74	3961.49	2316.56	21.6	24	18	0	18.59

na: Tiada maklumat(No information available)

MALAYSIA

BILANGAN DAN ANGGARAN PENGELUARAN HACERI BENIH IKAN AIR TAWAR SWASTA MENGIKUT NEGERI, 2003

NUMBER AND ESTIMATED PRODUCTION OF PRIVATE FRESHWATER FISH FRY HATCHERIES BY STATE, 2003

Negeri State	Bilangan Numbers	Rega/Benih Hatchling/Fry	Pengeluaran (Ekor) Production (Pieces)								
			Lampam Jawa Javanese Carp	Lee Koh Common Carp	Sepat Siam Snakeskin Gouramy	Patin River Catfish	Tilapia Merah Red Tilapia	Keli River Catfish	Kap Rumput Grass Carp	Pelbagai Others	Jumlah Total
Perlis	0	Rega/Hatchling	0	0	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	0	0	0	0	0
Kedah	3	Rega/Hatchling	0	0	0	0	0	0	0	0	0
		Benih/Fry	190,000	0	0	0	40,000	18,355,000	0	0	18,585,000
Pulau Pinang	2	Rega/Hatchling	0	0	0	0	0	21,500,000	0	0	21,500,000
		Benih/Fry	0	0	0	0	0	13,000,000	0	0	13,000,000
Perak	7	Rega/Hatchling	0	0	0	0	0	950,000	0	0	950,000
		Benih/Fry	29,000	1,052,000	0	0	335,000	21,040,000	19,500	6,000	22,481,500
Selangor	14	Rega/Hatchling	0	0	0	3,000	40,000	80,000	0	60,000	183,000
		Benih/Fry	1,415,000	8,500,000	87,700	7,312,000	16,270,000	127,898,000	0	26,682,600	188,165,300
Negeri Sembilan	8	Rega/Hatchling	0	0	0	0	0	0	0	0	0
		Benih/Fry	32,000	325,000	0	0	5,317,000	3,161,000	0	3,277,000	12,112,000
Melaka	11	Rega/Hatchling	0	200,000	0	1,200,000	0	1,000,000	0	0	2,400,000
		Benih/Fry	2,705,000	8,549,000	0	4,995,000	6,099,400	15,407,000	1,215,000	5,670,000	44,640,400
Johor	5	Rega/Hatchling	0	0	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	10,000	43,400,000	0	0	43,410,000
Pahang	9	Rega/Hatchling	0	0	0	0	0	0	0	0	0
		Benih/Fry	0	12,418,198	880	653,182	3,008,960	556,350	620	1,201,768	17,839,958
Terengganu	7	Rega/Hatchling	0	0	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	448,000	250,000	0	0	698,000
Kelantan	9	Rega/Hatchling	0	20,000	0	15,000	2,015,000	408,000	0	65,000	2,523,000
		Benih/Fry	210,000	12,000	0	0	275,000	183,000	0	0	680,000
Sarawak	na	Rega/Hatchling	0	0	0	0	0	0	0	0	0
		Benih/Fry	0	0	0	0	0	0	0	0	0
Sabah	na	Rega/Hatchling	na	na	na	na	na	na	na	na	na
		Benih/Fry	na	na	na	na	na	na	na	na	na
Jumlah/Total	75	Rega/Hatchling	0	220,000	0	1,218,000	2,055,000	23,938,000	0	125,000	27,556,000
		Benih/Fry	4,581,000	30,856,198	88,580	12,960,182	31,803,360	243,250,350	1,235,120	36,837,368	361,612,158

na: Tiada maklumat (No information available)

Jadual (Table) 30.7

MALAYSIA

PEMBAHAGIAN BENIH IKAN AIR TAWAR UNTUK KEGUNAAN PELBAGAI DAN PELEPASAN KE PERAIRAN UMUM MENGIKUT NEGERI DAN SPESIS, 2003
 DISTRIBUTION OF FRESHWATER FISH FRY FOR MISCELLANEOUS PURPOSES AND RELEASED INTO PUBLIC WATERBODIES BY STATE AND SPECIES, 2003
 (KAUNTITI DALAM EKOR/QUANTITY IN PIECES)

Negeri State	Kegunaan Pelbagai/Miscellaneous							Pelepasan Ke Perairan Umum/Released Into Public Waters						Jumlah Kecil Sub Total	Jumlah Besar Grand Total
	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Keli Freshwater Catfish	Tilapia Hitam Black Tilapia	Tilapia Merah Red Tilapia	Pelbagai Others	Jumlah Kecil Sub Total	Lampam Jawa Javanese Carp	Lee Koh Common Carp	Udang Galah Giant Fresh- Water Prawn	Tilapia Merah Red Tilapia	Baung River Catfish	Pelbagai Others		
Perlis	0	0	0	0	0	0	0	26,000	0	0	0	0	0	26,000	26,000
Kedah	8,230	0	12,976	27,940	11,184	0	60,330	250,470	0	0	0	0	3,993	254,463	314,793
P. Pinang	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Perak	25,135	0	18,400	0	29,685	2,790	76,010	1,037,000	0	540,000	18,350	0	1,300	1,596,650	1,672,660
Selangor	1,500	0	0	0	0	0	1,500	0	0	50,000	0	0	0	50,000	51,500
N. Sembilan	0	0	0	0	0	0	0	15,000	0	0	5,000	0	0	20,000	20,000
Melaka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Johor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pahang	0	0	0	0	0	24,000	24,000	174,500	0	0	0	35,400	261,000	470,900	494,900
Terengganu	0	0	0	0	0	0	0	27,000	0	0	16,200	0	50,000	93,200	93,200
Kelantan	0	0	500	0	100	100	700	0	0	0	0	0	0	0	700
Sarawak	1,677,319	1,347,673	3,414,406	301,215	2,989,026	1,807,757	11,537,396	274,310	13,000	380,220	1,927,100	140,000	132,200	2,866,830	14,404,226
Sabah	0	0	0	0	0	0	0	22,550	5,450	0	0	0	2,000	30,000	30,000
Jumlah/ Total	1,712,184	1,347,673	3,446,282	329,155	3,029,995	1,834,647	11,699,936	1,826,830	18,450	970,220	1,966,650	175,400	450,493	5,408,043	17,107,979

Jadual (Table) 30.8

MALAYSIA
PEMBAHAGIAN BENIH IKAN AIR TAWAR KEPADA PENTERNAK MENGIKUT NEGERI DAN SPESIS IKAN, 2003
DISTRIBUTION OF FRESHWATER FISH FRY TO CULTURISTS BY STATE AND SPECIES, 2003
(KUANTITI DALAM EKOR/QUANTITY IN PIECES)

Negeri <i>State</i>	Lampam Jawa <i>Javanese Carp</i>	Lee Koh <i>Common Carp</i>	Sepat Siam <i>Snakeskin Gouramy</i>	Patin <i>River Catfish</i>	Udang Galah <i>Giant Fresh water Prawn</i>	Tilapia Merah <i>Red Tilapia</i>	Keli <i>River Catfish</i>	Kap Rumput <i>Grass Carp</i>	Pelbagai <i>Others</i>	Jumlah <i>Total</i>
Perlis	0	0	0	0	0	67,500	17,400	0	0	84,900
Kedah	222,731	0	0	0	0	489,212	285,895		10,551	1,008,389
Pulau Pinang	0	0	0	0	0	0	0	0	0	0
Perak	156,700	0	0	0	648,000	836,790	142,030	0	10,300	1,793,820
Selangor	35,062	0	0	0	102,000	26,000	0	0	0	163,062
Negeri Sembilan	86,000	0	0	0	0	186,500	0	0	197,000	469,500
Melaka	0	0	0	0	104,000	6,000	0	0	0	110,000
Johor	0	0	0	0	0	0	0	0	0	0
Pahang	28,700	0	0	113,800	17,000	331,165	0	0	36,800	527,465
Terengganu	32,300	0	0	242,000	226,000	331,000	0	0	2,000	833,300
Kelantan	0	0	0	0	0	0	0	0	0	0
Sarawak	1,677,319	1,347,673	1,520	0	354,800	2,989,026	0	0	5,167,058	11,537,396
Sabah	125,503	76,794	0	0	0	779,285	4,500	0	764,876	1,750,958
Jumlah/Total	2,364,315	1,424,467	1,520	355,800	1,451,800	6,042,478	449,825	0	6,188,585	18,278,790