

# Penang Statistics

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by

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## PHYSICAL ATTRIBUTES

### Area:

<i>State of Penang</i>	1031 sq km
Penang Island	293 sq km
Seberang Perai	738 sq km

### Location:

Latitudes	5°8' - 5°35'
Longitudes	100°8' - 100°32'

### Climate:

<i>Tropical Monsoon</i>	
Temperature (Day)	27°C - 30°C
Temperature (Night)	22°C - 24°C
Mean Annual Rainfall	267 cm
Relative Humidity	70% - 90%

## DEMOGRAPHY

### Penang: Estimated Population (in '000) and Distribution by Districts

<i>District</i>	1991	1997	1998	2000
	(census)	(estimated)	(estimated)	(census)
Timur Laut	395.7	433.8	443.7	414.1
Barat Daya	122.8	147.4	151.6	159.0
Seberang Perai Utara	224.6	254.9	256.3	243.3
Seberang Perai Tengah	236.3	278.9	284.9	291.9
Seberang Perai Selatan	84.8	96.9	97.9	117.2
<b>State of Penang</b>	<b>1,064.2</b>	<b>1,221.9</b>	<b>1,234.4</b>	<b>1,225.5</b>

Source: State Population Report, Penang, 1991, Department of Statistics, Malaysia; State/District Data Bank, 1997, 1998, Department of Statistics, Malaysia & Population & Housing Census of Malaysia 2000: Preliminary Count Report, Department of Statistics, Malaysia.

### Penang: Estimated Population by Sex (in '000)

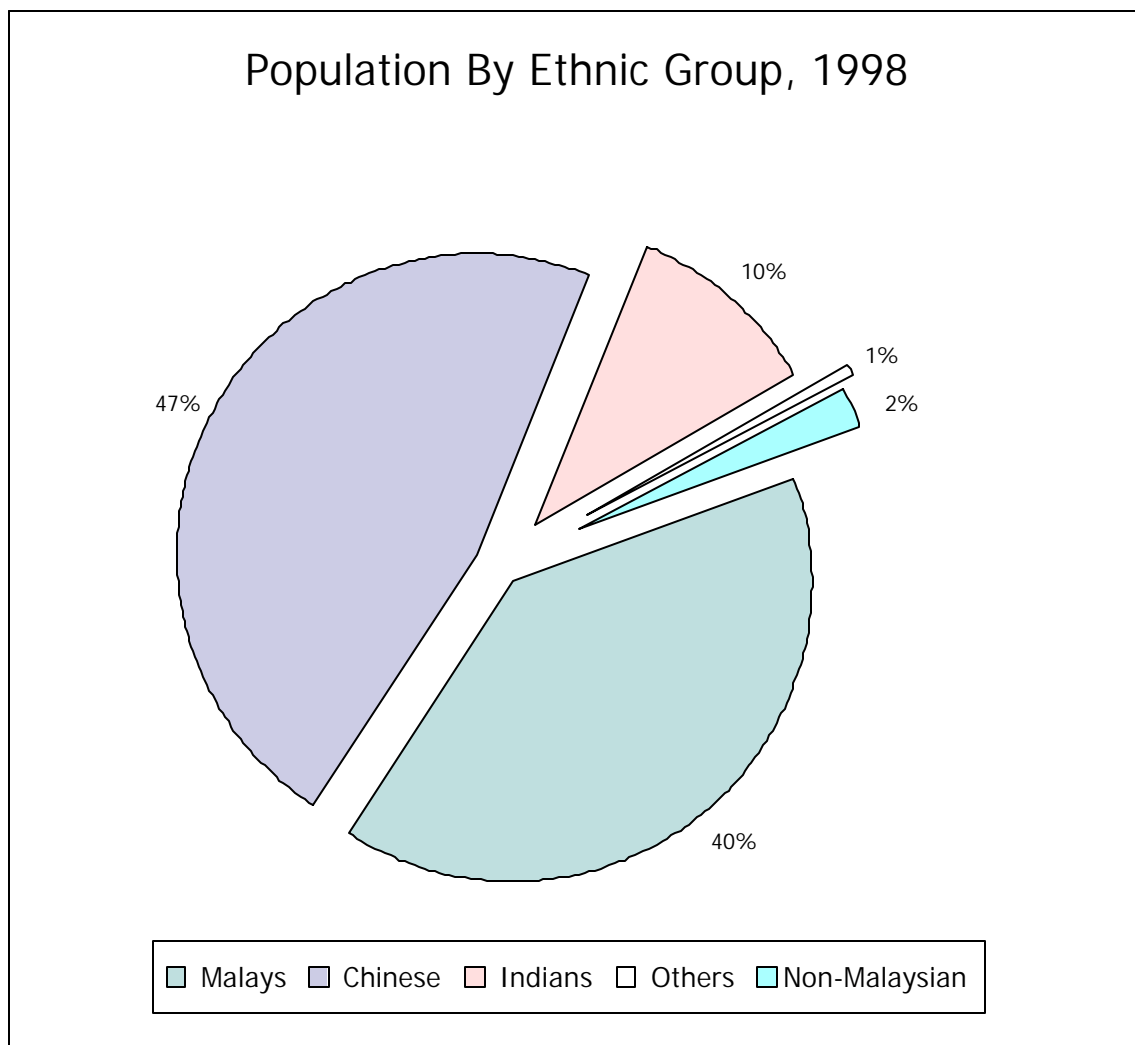
<i>Gender</i>	1991	1997	1998	2000
	(census)	(estimated)	(estimated)	(census)
Male	526.0	607.2	613.3	605.5
Female	538.1	614.7	621.1	620.0
<b>Total</b>	<b>1,064.2</b>	<b>1,221.9</b>	<b>1,234.4</b>	<b>1225.5</b>

Source: State Population Report, Penang, 1991, Department of Statistics, Malaysia; State/District Data Bank, 1997, 1998, Department of Statistics, Malaysia; Malaysia & Population & Housing Census of Malaysia 2000: Preliminary Count Report, Department of Statistics, Malaysia.

**Penang: Estimated Population by Ethnic Group (in '000)**

<b><i>Ethnic Group</i></b>	<b>1991</b>	<b>1997</b>	<b>1998</b>
	(census)	(estimated)	(estimated)
Malaysian:	526.0	607.2	613.3
Malays	405.4	465.5	486.7
Other Bumiputera	1.1	1.3	1.9
Chinese	523.2	600.8	581.9
Indians	112.8	129.5	129.5
Others	5.8	6.6	6.6
Non-Malaysian Citizens	15.9	18.2	27.7
<b>Total</b>	<b>1,064.2</b>	<b>1,221.9</b>	<b>1,234.4</b>

Source: State Population Report, Penang, 1991, Department of Statistics, Malaysia; State/District Data Bank, 1997, 1998, Department of Statistics, Malaysia; Malaysia & Population & Housing Census of Malaysia 2000: Preliminary Count Report, Department of Statistics, Malaysia.



## ECONOMIC

### Penang: Gross Domestic Product (In 1987 – Constant Prices)

(RM Million)	1990	1995	2000
Agri, forestry, fishing	228.4	216.3	227.7
M&Q	23.4	162.6	191.1
Manufacturing	3,394.3	5935.0	7860.0
Construction	249.5	439.0	418.2
Tertiary	3,987.0	6761.4	8510.8
Total (@ producers' value)	7,882.2	13,515.1	17,207.8
Total (@ purchasers' value)	7,685.4	13,293.6	16,620.0

Source: Penang Strategic Development Plan 2 (PSPD2)

### Penang: Gross Domestic Product Per Capita and Ratio of State to National Per Capita GDP

(RM)	1990	1995	2000
GDP per capita	6,904.00	11,015.00	13,296.00
Ratio of State to national per capita GDP	1.2	1.4	1.47

Source: PSDP2

### Penang: Sectoral Share of Gross Domestic Product (%)

	1990	1995	2000
Agri, forestry, fishing	2.9	1.6	1.3
M&Q	0.3	1.2	1.1
Manufacturing	43.1	43.9	45.7
Construction	3.1	3.3	2.4
Tertiary	50.6	50.0	49.5
Total	100.0	100.0	100.0

Source: PSDP2

## EMPLOYMENT

### Penang: Labour Force Participation Rate by Gender and Ethnic Group (%)

	1996			1997		
	Male	Female	Total	Male	Female	Total
Total Malaysian	81.0	38.5	59.7	83.0	51.0	66.9
Malay	81.3	41.4	61.5	83.3	53.5	68.3
Other Bumiputera	100.0	100.0	100.0	100.0	100.0	100.0
Chinese	80.7	35.4	58.1	83.4	50.2	66.6
Indian	81.5	40.2	60.0	83.6	44.2	64.0
Others	73.1	42.8	57.4	60.9	50.2	56.4
Non-Malaysian	97.8	88.1	92.8	99.4	82.0	92.0
Total	81.4	39.9	60.6	84.0	52.4	68.2

Source: State/District Data Bank, Malaysia, 1997 & 1998

### Penang: Employment by Gender and Economic Sectors (%)

	1996			1997		
	Male	Female	Total	Male	Female	Total
Agri, Forestry & Fishing	4.4	0.9	3.2	2.9	0.5	2.0
M&Q	0.2	0.0	0.1	0.2	0.0	0.1
Manufacturing	33.8	50.8	39.4	37.5	47.9	41.1
Construction	6.7	0.4	4.7	9.3	1.4	6.2
Utilities	1.0	0.1	0.7	1.2	0.3	0.9
Transport, Storage, Comm.	8.1	1.8	6.0	7.5	1.5	5.2
WRHR	22.6	18.3	21.1	20.0	20.4	20.1
FIREBS	5.4	5.1	5.3	4.2	5.7	4.8
Community & Soc Services	17.9	22.7	19.5	17.3	22.4	19.2
Total	100.0	100.0	100.0	100.0	100.0	100.0

Source: State/District Data Bank, Malaysia, 1997 & 1998

Note: Slight discrepancies may occur due to rounding.

### Penang: Employed Persons by Industry

	1990	1992	1993	1995	1996	1997	1998	1999
Agri, Forestry & Fishing	24.8	18.4	18.2	12.0	14.4	11.0	19.7	15.9
M&Q	0.5	0.4	0.3	0.4	0.6	0.8	1.1	0.9
Manufacturing	172.8	218.8	222.5	215.3	177.0	228.7	237.7	237.7
Construction	34.1	32.3	28.6	27.4	20.9	34.4	39.0	38.6
Utilities	4.1	3.5	4.4	3.5	3.0	4.7	3.8	3.4
Transport, Storage, Comm.	25.5	28.7	32.9	27.6	27.1	28.6	32.6	27.3
WRHR	103.4	94.7	81.7	94.7	95.0	111.2	112.5	119.8
FIREBS	14.4	20.8	20.2	23.7	23.9	26.5	29.3	40.3
Community & Soc Services	77.8	95.0	122.1	81.1	87.5	106.1	109.5	119.0
Total	457.2	512.6	531.0	485.8	449.4	552.0	585.2	602.9

Source: Labour Force Survey, Department of Statistics, Malaysia

Note: Slight discrepancies may occur due to rounding.

## PRIMARY SECTOR

### AGRICULTURE

#### Penang: Agriculture Areas (hectares)

Type	Year						
	1985	1990	1995	1997	1998	1999	2000
Rubber	27,210	19,000	13,487	13,487	13,487	13,097	13,013
Oil Palm	4,685	11,179	16,444	15,158	15,158	13,182	13,018
Padi	17,610	24,889	14,351	14,351	14,351	28,125	28,125
Coconut	14,137	5,674	2,479	2,479	2,479	2,481	2,364
Cocoa	1,114	1,751	1,683	143	143	141	104
Vegetables	510	1,014	1,314	1,216	1,778	1,711	1,566
Fruits	2,520	5,740	7,110	7,096	6,929	7397	7,283
Cloves	408	237	224	224	69	87	67
Nutmeg	612	181	168	168	86	81	82
Cash Crops	1,086	239	199	234	474	416	197
Others	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	438
<b>Total</b>	<b>69,892</b>	<b>69,904</b>	<b>57,459</b>	<b>54,556</b>	<b>54,954</b>	<b>66,718</b>	<b>66,257</b>

Source: Derived from data from the Jabatan Pertanian Negeri Pulau Pinang

## SECONDARY SECTOR

### MANUFACTURING

#### Penang: Approved Manufacturing Projects, Employment and Capital Investment

Year	Approved Projects			Employment Generated	Capital Investment (RM Million)
	Malaysia	Penang	% of national		
1987	333	59	17.7	16,662	635.74
1988	732	73	10.0	17,833	729.56
1989	792	115	14.5	27,032	1,183.07
1990	906	132	14.6	24,952	1,867.26
1991	973	125	12.8	22,455	1,525.13
1992	874	119	13.6	14,295	1,096.05
1993	686	87	12.7	10,378	516.82
1994	870	95	10.9	15,203	934.49
1995	898	89	9.9	13,779	1,606.65
1996	782	97	12.4	11,993	3,185.40
1997	759	90	11.9	9,736	1,449.10
1998	844	104	12.3	10,911	2,666.52
1999	725	95	13.1	14,928	4,777.80
2000	798	131	16.5	15,057	4,442.80
2000 (Jan-Jul)		53		7,078	1,487.29
2001 (Jan-Jul)		65		5,987	2,155.31

Source: Derived from data provided by MIDA Penang



## Penang: Approved Manufacturing Projects by Industry

Industry	No. of Projects				Investment (RM Million)			
	1998	1999	2000	2001 (Jan-Jul)	1998	1999	2000	2001 (Jan-Jul)
Electrical & Electronic	49	46	57	39	674.5	4,609.6	3,307.1	1,906.0
Chemicals & Chemical Prod.	4	3	6	1	79.6	8.9	387.9	4.2
Fabricated Metal Products	7	5	7	3	32.4	11.8	55.4	19.3
Basic Metal Products	8	4	7	-	1,478.9	33.4	79.4	-
Machinery Manufacturing	11	5	8	4	66.8	3.3	51.0	42.5
Non-Metallic Mineral Prod.	3	4	-	1	-	-	-	4.5
Plastic Products	2	8	7	2	45.3	14.2	129.6	5.3
Paper, Printing & Publishing	4	3	7	2	173.3	3.6	163.8	68.9
Rubber Products	2	-	-	3	7.8	-	-	26.4
Textile & Garments	1	6	6	-	7.5	29.7	47.8	-
Food Manufacturing	6	1	15	3	62.8	3.5	132.7	33.7
Wood & Wood Products	1	2	3	-	1.1	26.2	33.0	-
Transport Equipment	4	3	4	1	21.3	6.4	22.6	9.5
Others	2	3	4	3	15.2	11.6	32.3	41.8
<b>Total</b>	<b>104</b>	<b>93</b>	<b>131</b>	<b>47</b>	<b>2,666.5</b>	<b>4,762.2</b>	<b>4442.6</b>	<b>2,166.3</b>

Source: Derived from data provided by MIDA Penang

## Approved Manufacturing Projects and Investment by State

State	No. of Projects				Investment (RM Million)			
	1998	1999	2000	2001 (Jan-Jul)	1998	1999	2000	2001 (Jan-Jul)
Wilayah Persekutuan								
Kuala Lumpur	17	30	16	13	74.2	277.7	157.2	182.9
Labuan	-	-	1	1	-	-	27.0	9.0
Terengganu	28	15	7	4	7,165.3	1,336.4	93.8	12.0
Johor	159	172	178	113	4,513.5	2,312.0	2,420.2	2,076.4
Selangor	221	187	220	168	3,832.5	2,572.2	7,797.8	4,013.3
<b>Pulau Pinang</b>	<b>104</b>	<b>93</b>	<b>131</b>	<b>65</b>	<b>2,666.5</b>	<b>4,777.8</b>	<b>4,442.8</b>	<b>2,166.3</b>
Sarawak	62	23	30	15	1,549.5	261.3	8,113.9	568.2
Pahang	31	14	25	13	2,472.5	287.2	2,830.4	242.6
Negeri Sembilan	34	32	29	18	934.7	228.2	2,172.0	236.5
Sabah	43	5	14	7	926.0	27.3	369.3	4,634.4
Kedah	44	43	45	36	747.1	567.8	988.9	372.7
Melaka	34	35	37	25	903.1	2,871.0	1,001.7	2,912.6
Perak	52	55	57	22	510.9	1,293.2	3,058.5	640.5
Kelantan	12	4	5	6	54.2	16.6	33.3	101.9
Perlis	3	-	1	3	20.1	-	-	14.0
Location Unconfirmed	1	-	2	-	35.5	-	37.0	-
<b>Total</b>	<b>844</b>	<b>708</b>	<b>500</b>	<b>509</b>	<b>26,405.6</b>	<b>17,020.2</b>	<b>33,543.8</b>	<b>18,183.4</b>

Source: Derived from data provided by MIDA Penang

**Penang: Manufacturing Industry – Principal Statistics**

Industry Description	No. of Establishments			Total Employees		
	1995	1996	1997	1995	1996	1997
Food Products	130	270	104	8,254	8,683	7,851
Oil & Fats	17	16	12	1,236	1,128	952
Textile & Apparel	98	197	65	22,701	20,004	17,984
Wood Products excluding furniture	27	67	19	2,882	2,913	2,058
Wood-based furniture	9	61	8	725	675	1,126
Paper Products	42	152	52	8,482	9,131	9,286
Chemical Products	47	58	32	4,741	4,248	4,439
Rubber Products	20	32	16	8,248	7,390	9,206
Plastic Products	21	108	35	10,168	10,070	10,973
Non-metallic Mineral Products	30	40	14	1,143	1,482	845
Basic Iron & Steel Industry	22	84	26	5,145	5,870	4,919
Non-Ferrous Metal Products	8	10	8	2,257	2,230	2,044
Fabricated Metal Products	58	165	42	6,169	5,744	7,039
Non-electrical Machinery	43	113	47	14,058	17,192	22,251
Electrical Machinery	64	132	64	103,906	117,038	116,845
Motor Vehicles & Other Transport	27	26	16	3,252	3,498	3,166
Scientific & Optical Equipment	10	9	10	4,636	4,288	4,403
Others	41	72	39	6,852	7,161	6,553
<b>TOTAL</b>	<b>714</b>	<b>1612</b>	<b>609</b>	<b>214,855</b>	<b>228,745</b>	<b>231,940</b>

Source: Derived from data provided by DOS, Penang

Industry Description	Value Added (RM '000)			Value Added per Employee (RM)		
	1995	1996	1997	1995	1996	1997
Food Products	389,350	449,794	502,584	47,171	51,802	64,015
Oil & Fats	69,815	84,013	99,709	56,485	74,480	104,736
Textile & Apparel	670,087	540,001	636,663	29,518	26,995	35,402
Wood Products excluding furniture	54,298	74,462	54,197	18,840	25,562	26,335
Wood-based furniture	17,625	18,351	27,919	24,310	27,187	24,795
Paper Products	333,920	360,418	415,627	39,368	39,472	44,758
Chemical Products	473,106	410,719	470,238	99,790	96,685	105,933
Rubber Products	345,321	359,762	615,850	41,867	48,682	66,897
Plastic Products	327,794	347,122	429,905	32,238	34,471	39,178
Non-metallic Mineral Products	55,004	71,413	58,627	48,122	48,187	69,381
Basic Iron & Steel Industry	400,078	531,305	443,918	77,761	90,512	90,246
Non-Ferrous Metal Products	118,592	71,446	100,363	52,544	32,039	49,101
Fabricated Metal Products	199,868	281,155	318,476	32,399	48,948	45,244
Non-electrical Machinery	493,885	1,075,660	1,889,346	35,132	62,567	84,911
Electrical Machinery	4,574,690	5,797,228	6,945,405	44,027	49,533	59,441
Motor Vehicles & Other Transport	268,269	251,036	302,918	82,494	71,766	95,678
Scientific & Optical Equipment	163,667	144,224	127,978	35,303	33,634	29,066
Others	167,501	190,716	177,179	24,446	26,633	27,038
<b>TOTAL</b>	<b>9,122,870</b>	<b>11,058,825</b>	<b>13,596,902</b>	<b>42,461</b>	<b>48,346</b>	<b>58,622</b>

Source: Derived from data provided by DOS, Penang

Industry Description	Fixed Assets (RM '000)			Salaries/Wages (RM'000)		
	1995	1996	1997	1995	1996	1997
Food Products	412,048	480,079	603,470	98,546	109,617	118,391
Oil & Fats	122,691	109,714	184,952	20,133	18,925	18,246
Textile & Apparel	719,554	627,836	518,318	266,931	264,245	243,811
Wood Products excluding furniture	49,118	98,772	83,569	27,408	33,892	24,374
Wood-based furniture	11,552	12,136	34,981	5,970	5,640	12,218
Paper Products	630,770	753,580	815,447	105,611	131,499	145,972
Chemical Products	1,218,710	1,179,135	1,234,920	89,030	87,424	98,121
Rubber Products	261,714	364,477	485,947	93,712	99,216	139,511
Plastic Products	340,235	433,543	727,924	107,049	120,826	145,153
Non-metallic Mineral Products	98,998	121,160	93,703	15,933	21,959	16,110
Basic Iron & Steel Industry	1,079,877	1,207,705	1,554,768	88,823	107,147	100,411
Non-Ferrous Metal Products	128,503	133,676	127,456	35,168	39,402	39,290
Fabricated Metal Products	384,050	499,129	515,000	61,888	68,542	92,627
Non-electrical Machinery	596,604	996,904	1,509,561	158,706	254,953	372,526
Electrical Machinery	5,222,943	4,814,563	6,900,095	1,410,659	1,698,672	1,853,198
Motor Vehicles & Other Transport	208,092	162,632	167,354	53,391	58,319	60,443
Scientific & Optical Equipment	169,814	156,939	153,980	73,687	73,872	79,969
Others	154,809	161,055	198,008	71,394	82,089	86,525
<b>TOTAL</b>	<b>11,810,082</b>	<b>12,313,035</b>	<b>15,909,453</b>	<b>2,784,039</b>	<b>3,276,239</b>	<b>3,646,896</b>

Source: Derived from data provided by DOS, Penang

Industry Description	Tech. Coef. Of Labour			Capital Intensity (RM)		
	1995	1996	1997	1995	1996	1997
Food Products	0.0491	0.0515	0.050788	49,921	55,290	76,865
Oil & Fats	0.0125	0.0180	0.010606	99,265	97,264	194,277
Textile & Apparel	0.1311	0.1412	0.121092	31,697	31,386	28,821
Wood Products excluding furniture	0.1109	0.1229	0.115312	17,043	33,907	40,607
Wood-based furniture	0.1184	0.1054	0.132739	15,934	17,979	31,067
Paper Products	0.1129	0.1207	0.132671	74,366	82,530	87,815
Chemical Products	0.0491	0.0542	0.048993	257,058	277,574	278,198
Rubber Products	0.0915	0.0993	0.105401	31,731	49,320	52,786
Plastic Products	0.1294	0.1345	0.137378	33,461	43,053	66,338
Non-metallic Mineral Products	0.1037	0.1053	0.080703	86,612	81,754	110,891
Basic Iron & Steel Industry	0.0459	0.0475	0.049095	209,889	205,742	316,074
Non-Ferrous Metal Products	0.0412	0.0434	0.040056	56,935	59,944	62,356
Fabricated Metal Products	0.0810	0.0868	0.090061	62,255	86,896	73,164
Non-electrical Machinery	0.0513	0.0514	0.047616	42,439	57,987	67,842
Electrical Machinery	0.0714	0.0724	0.074678	50,266	41,137	59,053
Motor Vehicles & Other Transport	0.0668	0.0642	0.069487	63,989	46,493	52,860
Scientific & Optical Equipment	0.1988	0.2173	0.245376	36,629	36,600	34,972
Others	0.0815	0.1179	0.072871	22,593	22,491	30,216
<b>TOTAL</b>	<b>0.0711</b>	<b>0.0736</b>	<b>0.071328</b>	<b>54,968</b>	<b>53,829</b>	<b>68,593</b>

Source: Derived from data provided by DOS, Penang

## TERTIARY SECTOR

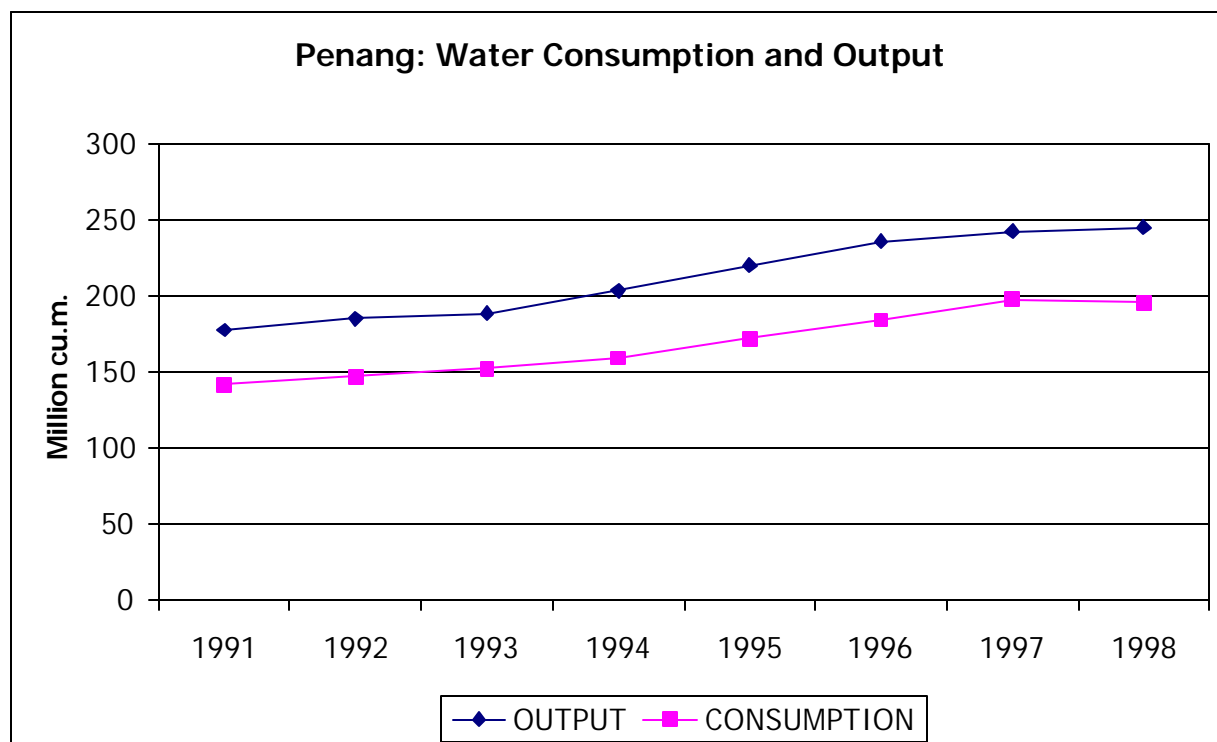
### UTILITIES

#### WATER

#### Penang: Water Output And Consumption ('000 cubic Metres)

Year	Output	% Increase	Consumption	% Increase
1991	177,829	-	141,866	-
1992	185,413	4.3	147,424	3.9
1993	188,685	1.8	152,477	3.4
1994	204,006	8.1	159,598	3.4
1995	220,550	8.1	172,321	8.0
1996	236,124	7.0	184,541	7.1
1997	242,531	2.8	198,038	7.3
1998	245,425	1.2	195,668	-1.2
1999	257,307	4.8	195,801	0.1
2000	271,257	5.4%	208,183	6.3

Source: Derived from data provided by the Penang Water Authority



Source: Derived from data provided by the Penang Water Authority

**Penang: Daily Water Supply and Consumption**

	1998			1999			2000		
	Penang Island	Seberang Perai	Penang State	Penang Island	Seberang Perai	Penang State	Penang Island	Seberang Perai	Penang State
No. of Treatment Plants	6	4	10	6	4	10	6	4	10
Max. Capacity of Treatment Plants (cu.m/day)	168,182	704,545	872,727	204,545	843,181	1,047,726	204,545	843,181	1,047,726
Average Daily Production (cu.m)	336,556	335,843	672,399	336,820	368,142	704,952	348,315	392,826	741,141
Average Daily Consumption (cu.m)	269,745	266,333	536,078	270,546	265,896	536,442	283,835	284,971	568,806
No. of Services (consumers)	161,096	153,826	314,921	173,337	165,186	338,523	182,364	174,433	356,797
Daily Consumption (cu.m)									
Per Consumer	1.67	1.73	1.70	1.56	1.61	1.58	1.56	1.63	1.59
Per Industrial Consumer	7.16	6.16	6.63	6.47	5.51	5.96	6.48	5.44	5.91
Per Domestic Consumer	1.09	1.16	1.12	1.03	1.08	1.05	1.02	1.10	1.06

Source: Derived from data provided by the Penang Water Authority

**ELECTRICITY****Penang: Power Demand & Supply**

Year	Maximum Demand (MW)	Installed Capacity (MW)	Excess Capacity (%)
1992	593	800	34.9
1993	637	800	25.6
1994	715	800	11.9
1995	784	800	2.0
1996	869	1442	65.9
1997	970	2186	56.0
1998	954	2014	111.0
1999*	987	2091	112.0
2000*	1022	2244	120.0

Note: \* Projected Figures

Source: TNB, Penang.

## TRANSPORT

### ROAD TRANSPORT

#### Motor Vehicle Re-registration (2001)

Month	Region	Motorcycle	Private Passenger Car	Taxi	Bus	Lorry & Van	Hire Car	Others	Total
January	Penang	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Malaysia	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
February	Penang	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Malaysia	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
March	Penang	682589	402729	3908	2462	364	37204	12145	1,141,401
	Malaysia	5426002	4237385	48889	56119	9956	671304	318770	10,768,425
April	Penang	684998	406180	3909	2475	374	37283	12192	1,147,411
	Malaysia	5447764	4269656	48977	56151	9943	673394	319771	10,825,656
May	Penang	687517	409590	3919	2483	383	37473	12286	1,153,651
	Malaysia	5469128	4303978	49083	56230	9971	675738	320771	10,884,899
June	Penang	690281	413197	3926	2486	379	37703	12361	1,160,333
	Malaysia	5490504	4336767	49168	56247	9989	677845	321684	10,942,204
July	Penang	693224	416893	3932	2496	377	37897	12411	1,167,230
	Malaysia	5512916	4372962	49256	56280	10023	680170	322626	11,004,233
August	Penang	697461	420863	3940	2513	376	38112	12501	1,175,766
	Malaysia	5535070	4411700	49395	56285	10118	682634	323821	11,069,023

#### New Motor Vehicle Registration (2001)

Month	Region	Motorcycle	Private Passenger Car	Taxi	Bus	Lorry & Van	Hire Car	Others	Total
January	Penang	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Malaysia	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
February	Penang	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Malaysia	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
March	Penang	2904	3383	1	7	1	181	116	6,593
	Malaysia	20846	30796	38	320	116	2328	1007	55,451
April	Penang	2340	3388	2	18	9	111	51	5,919
	Malaysia	19337	31012	56	265	85	2194	942	53,891
May	Penang	2470	3405	5	9	2	205	91	6,187
	Malaysia	19991	32776	63	298	129	2243	1052	56,552
June	Penang	2422	3416	0	12	1	247	85	6,183
	Malaysia	19213	30562	42	225	122	2270	931	53,365
July	Penang	2663	3638	2	17	3	214	66	6,603
	Malaysia	21513	34948	57	251	179	2521	992	60,461
August	Penang	2426	3773	2	16	0	179	68	6,464
	Malaysia	19898	37448	90	272	162	2671	1209	61,750

Source: Derived from the statistics provided by Jabatan Pengangkutan Jalan, Malaysia

## TRADE

### PENANG AIRPORT

#### Aircraft Movements per annum

Year	No. of Movement
1991	30,818
1992	36,826
1993	35,034
1994	35,950
1995	35,556
1996	36,956
1997	35,445
1998	31,816
1999	27,465
2000	27,951
2000 (Jan-Sep)	20,506
2001 (Jan-Sep)	22,117

Source: Derived from series of Airport Statistics, Malaysia Airports Berhad

#### Number of Passengers (Domestic & International) per annum

Year	No. of Passengers (millions)		
	Domestic	International	Total
1991	1.27	0.90	2.17
1992	1.56	1.08	2.64
1993	1.65	1.13	2.78
1994	1.58	1.20	2.78
1995	1.60	1.25	2.85
1996	1.70	1.18	2.88
1997	1.68	1.23	2.91
1998	1.35	1.10	2.45
1999	1.35	1.10	2.45
2000	1.27	1.48	2.74
2000 (Jan-Sep)	1.10	0.94	2.04
2001 (Jan-Sep)	1.08	0.93	2.01*

\*Note: Slight discrepancies may arise due to rounding.

Source: Derived from series of Airport Statistics, Malaysia Airports Berhad

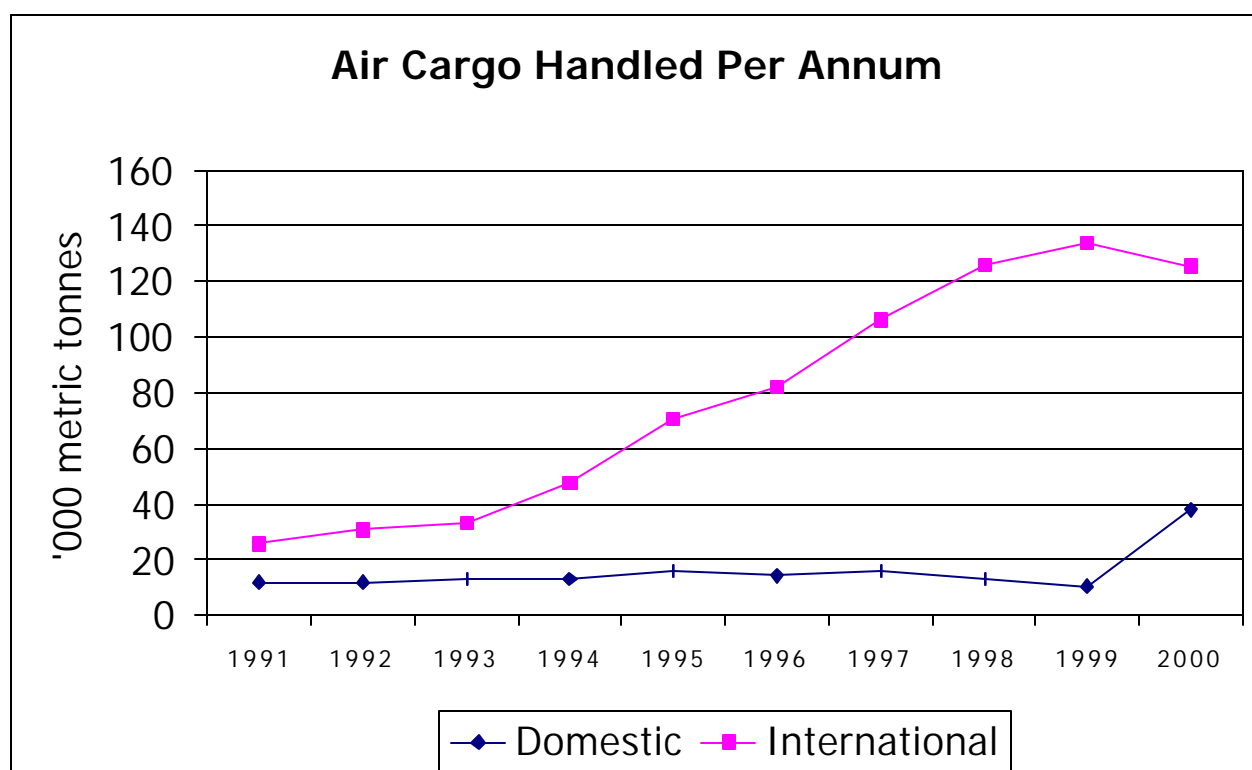
**Cargo Handled (Domestic & International) per annum**

Year	Cargo Handled (in '000 metric tonnes)*		
	Domestic	International	Total
1991	12.06	25.72	37.78
1992	11.84	30.78	42.62
1993	13.21	33.42	46.63
1994	13.38	47.58	60.96
1995	16.13	70.70	86.83
1996	14.16	82.37	96.53
1997	15.96	106.21	122.17
1998	12.32	124.74	137.06
1999	10.62	133.89	144.51
2000	37.87	125.43	163.30
2000 (Jan-Sep)	29.08	91.36	120.44
2001 (Jan-Sep)	25.06	94.66	119.72

\*The figures from 1993 onwards are based on new categorization method.

\*Note: Slight discrepancies may arise due to rounding.

Source: Derived from series of Airport Statistics, Malaysia Airports Berhad.





## PENANG PORT

### Annual Number of Shipcalls

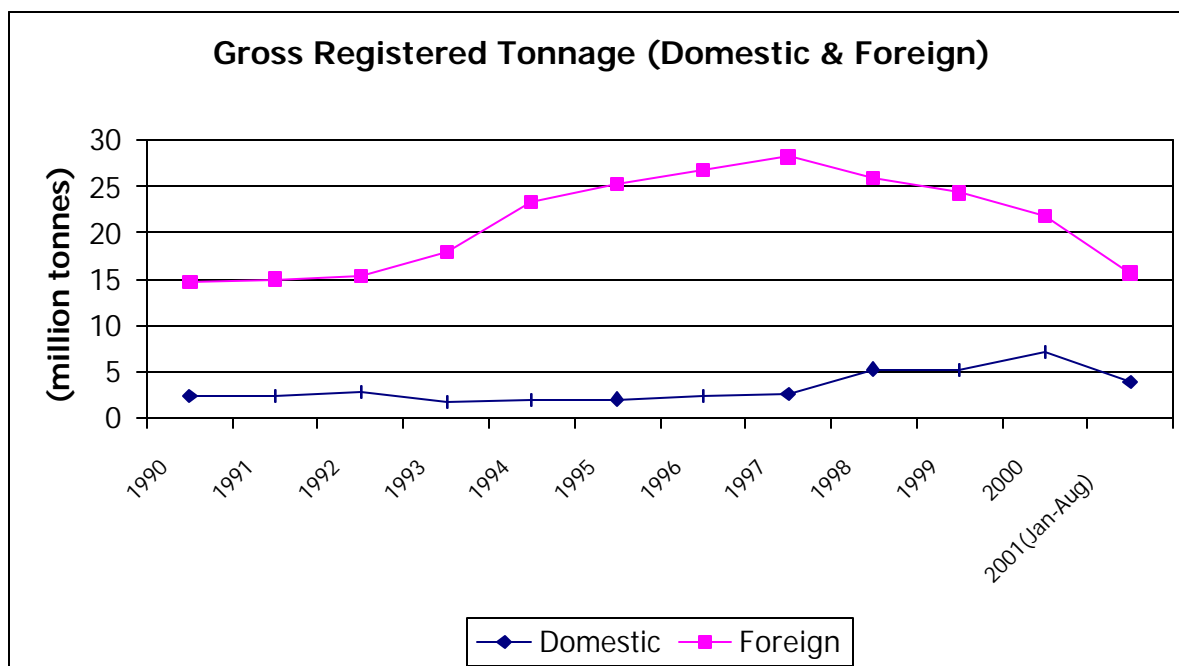
Year	Domestic	Foreign	Total
1990	2,437	3,091	5,528
1991	2,750	3,051	5,801
1992	3,058	3,208	6,266
1993	1,327	4,716	6,043
1994	1,379	4,820	6,199
1995	1,443	5,022	6,465
1996	1,416	5,117	6,533
1997	1,725	5,346	7,071
1998	2,553	5,072	7,625
1999	2,635	4,736	7,371
2000	3,250	4,013	7,263
2000 (Jan-Aug)	2,125	2,634	4,759
2001 (Jan-Aug)	1,918	3,000	4,918

Source: Derived from the statistics provided by Penang Port Sdn Bhd

### Gross Registered Tonnage (Domestic & Foreign) in Million

Year	Domestic	Foreign	Total
1990	2.38	14.78	17.16
1991	2.41	15.05	17.46
1992	2.81	15.33	18.14
1993	1.75	18.02	19.77
1994	1.95	23.40	25.35
1995	2.06	25.26	27.32
1996	2.43	26.76	29.19
1997	2.59	28.23	30.82
1998	5.29	25.93	31.22
1999	5.19	24.35	29.54
2000	7.09	21.87	28.96
2000 (Jan-Aug)	4.77	14.27	19.05
2001 (Jan-Aug)	3.90	15.67	19.57

Source: Derived from the statistics provided by Penang Port Sdn Bhd



Source: Derived from the statistics provided by Penang Port Sdn Bhd

### Type of Cargo Handled, 1990-2000

Year	General Cargo	Dry Bulk	Liquid Bulk	Containerised	Total	Container
		(million freight tonnes)				
1990	2.21	2.06	2.73	3.85	10.85	222,441
1991	2.02	2.31	2.94	4.79	12.06	251,849
1992	1.99	2.46	3.14	5.63	13.22	303,367
1993	1.96	2.90	3.28	6.22	14.36	330,915
1994	1.93	2.60	3.31	7.29	15.14	386,182
1995	2.12	2.99	3.46	8.10	16.67	433,474
1996	2.11	3.20	3.52	8.67	17.50	454,765
1997	2.59	3.37	4.11	9.62	19.69	506,863
1998	1.67	2.23	3.86	8.69	16.45	510,307
1999	1.85	2.77	3.99	10.15	18.76	566,409
2000	1.84	3.46	4.11	11.06	20.47	635,423
2000 (Jan-Aug)	1.23	2.16	2.64	7.27	13.30	416,704
2001 (Jan-Aug)	1.37	2.38	2.55	6.98	13.28	403,790

Source: Derived from the statistics provided by Penang Port Sdn Bhd

## TOURISM

### Penang: Average Occupancy Rate, Number of Registered Guests and Estimated Total Visitor Arrivals

	1996	1997	1998	1999	2000	2001 (Jan-Jul)
Average Occupancy Rate	61.64%	59.40%	60.35%	59.66%	57.4%	54.3%
Average Occupancy Rate for Beach Hotels	59.61%	56.93%	66.07%	62.90%	66.7%	56.9%
Average Occupancy for City Hotels	64.98%	63.29%	52.35%	56.26%	50.8%	52.6%
Number of Registered Guests Recorded	1,966,942	1,923,781	1,738,385	2,169,871	n.a.	n.a.
Estimated Total Visitor Arrivals for the State	3,444,148	3,167,239	3,251,141	3,519,660	3,780,000	1,676,191
Estimated Domestic Share	44.24%	47.80%	39.10%	41.48%	37.9%	42.0%
Estimated International Share	55.76%	52.20%	60.90%	58.52%	62.1%	58.0%

Source: Tourism Development Division, PDC

## PROPERTY

### Penang: Average House Prices (Jul-Dec 1999) (Average Prices RM/Unit)

	Terraced		Semi-Detached		Detached		High-Rise	
	Single Storey	Double Storey	Single Storey	Double Storey	Single Storey	Double Storey	Flat	Condo./ Apt.
Penang Island	106,859	192,023	175,517	308,030	323,509	570,359	99,567	233,888
Barat Daya	159,895	120,893	258,379	279,571	184,347	492,000	93,438	153,391
S Perai Selatan	74,291	103,805	104,826	171,263	167,104	418,605	ND	ND
S Perai Tengah	96,667	88,000	133,774	202,011	125,835	262,977	55,584	73,786
S Perai Utara	121,765	120,000	170,839	255,667	174,439	417,667	74,005	115,280
Timur Laut	259,699	250,000	385,217	452,651	984,418	1,094,884	107,591	256,348

Source: Derived from Malaysia House Price Indices

### Penang: Average House Prices (Jan-Jun 2000) (Average Prices RM/Unit)

	Terraced		Semi-Detached		Detached		High-Rise	
	Single Storey	Double Storey	Single Storey	Double Storey	Single Storey	Double Storey	Flat	Condo./ Apt.
Penang Island	115,330	210,668	184,077	413,379	375,127	814,162	107,389	224,604
Barat Daya	211,415	309,074	360,000	521,533	148,500	498,400	88,269	171,094
S Perai Selatan	77,135	125,841	98,420	215,900	122,964	443,100	37,500	ND
S Perai Tengah	103,619	159,414	144,714	253,454	145,500	350,000	56,093	ND
S Perai Utara	113,259	159,881	186,250	294,187	197,000	135,000	74,083	116,000
Timur Laut	280,850	372,892	381,818	541,464	767,375	1,177,158	114,822	240,476

Source: Derived from Malaysia House Price Indices

### Penang: Number of Transactions by Price Range for the Principal Property Sectors

	Residential		Commercial		Industrial		Agriculture		Development Land		Others		Total	
	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
0-25,000	247	203	14	10	0	2	398	364	64	61	2	0	725	640
25,001-50,000	594	581	11	8	1	1	195	198	73	51	2	0	876	839
50,001-75,000	1435	1458	22	33	2	0	119	128	72	26	4	0	1654	1645
75,001-100,000	1364	1430	33	40	0	1	90	94	40	9	3	1	1530	1575
100,001-150,000	1236	1548	83	77	7	6	91	72	41	29	3	3	1461	1735
150,001-200,000	643	854	110	178	41	20	50	61	30	24	2	0	876	1137
200,001-250,000	338	351	131	107	57	38	36	29	20	14	0	0	582	539
250,001-500,000	507	780	328	254	205	127	55	57	62	52	8	1	1165	1271
500,001-1,000,000	126	159	106	97	35	47	23	19	42	34	3	0	335	356
1,000,000 & above	16	29	11	19	17	23	23	9	95	32	6	0	168	112
Total	6506	7393	849	823	365	265	1080	1031	539	332	33	5	9372	9849
(% Breakdown)	69.4	75.1	9.1	8.4	3.9	2.7	11.5	10.5	5.8	3.4	0.4	0.1	100.0	100.0

Source: Derived from Malaysia House Price Indices, Jan-Jun 1998, Jul-Dec 1999, and series of Property Market Reports

### Penang: House Price Indices

Index 1990 = 100

Year	Indices				
	Terraced	Semi-Detached	Detached	High-Rise	All Houses
1988	90.0	87.2	72.9	77.9	87.7
1989	92.0	92.5	77.5	88.1	92.2
1990	100.0	100.0	100.0	100.0	100.0
1991	110.6	111.3	118.2	117.6	111.7
1992	113.9	116.0	135.1	125.5	115.7
1993	118.5	125.3	145.2	132.7	124.3
1994	126.0	143.3	162.5	145.0	132.5
1995	149.7	151.1	180.9	160.0	145.0
1996	153.7	170.0	197.2	156.4	152.1
1997	165.7	184.6	206.1	170.8	169.2
1998	157.7	167.3	179.2	162.7	159.4
1999	161.0	169.3	173.4	163.4	165.4
2000 (Jan-Jun)	177.4	186.5	186.9	164.6	171.5

Source: Derived from Malaysia House Price Indices, Jan-Jun 1998, Jul-Dec 1999, and series of Property Market Reports

## EDUCATION

### Penang: Number of Schools, Students and Teachers at the Primary Level

Type of School	No. of Schools			No. of Students			No. of Teachers		
	1998	2000	2001	1998	2000	2001	1998	2000	2001
SK/SRK	123	123	127	77,733	80,642	80,230	4,051	4,221	4,200
SRJK(C)	90	90	90	54,124	55,329	53,808	2,504	2,538	2,607
SRJK(T)	28	28	28	4,815	4,761	4,848	343	342	346
SR Khas	3	3	3	199	200	164	54	53	45
<b>Total</b>	<b>244</b>	<b>244</b>	<b>248</b>	<b>136,871</b>	<b>140,932</b>	<b>139,050</b>	<b>6,952</b>	<b>7,154</b>	<b>7,198</b>

Source: Jabatan Pendidikan Pulau Pinang

### Penang: Number of Schools, Students and Teachers at the Secondary Level

Type of School	No. of Schools			No. of Students			No. of Teachers		
	1998	2000	2001	1998	2000	2001	1998	2000	2001
SM Biasa	71	71	75	101,889	103,308	104,295	5,536	5,669	5,837
SM (Asrama Penuh)	1	1	1	525	668	624	72	75	72
SM Khas	1	1	1	246	215	197	43	198	44
SM Vokasional & Teknik	5	5	5	2,827	3,434	2,299	311	44	343
SM Agama	4	4	4	2,252	2,586	2,958	186	318	206
<b>Total</b>	<b>82</b>	<b>82</b>	<b>86</b>	<b>107,739</b>	<b>110,211</b>	<b>110,373</b>	<b>6,148</b>	<b>6,304</b>	<b>6,502</b>

Source: Jabatan Pendidikan Pulau Pinang

## HEALTH

### Life Expectancy (Peninsula Malaysia):

Male	69.6 years
Female	74.6 years

### Vital Statistics of Penang (per thousand):

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000(f)
Crude Birth Rate	22.3	21.9	21.5	22.8	24.9	23.6	21.8	20.8	20.9	19.00
Crude Death Rate	5.5	4.5	5.3	6.3	5.9	6.4	6.2	6.2	6.09	6.00
Infant Mortality Rate	8.2	8.7	9.0	8.7	7.2	7.5	7.0	6.2	5.55	5.31
Prenatal Mortality Rate	12.6	13.9	12.8	12.5	9.9	9.5	8.6	8.3	8.97	7.35
Neonatal Mortality Rate	6.3	6.2	6.8	6.3	5.0	5.3	4.9	4.1	3.98	4.90
Toddler Mortality Rate	0.4	0.5	0.4	0.3	0.4	0.4	0.3	0.4	0.19	0.15
Maternal Mortality Rate	0.5	0.4	0.3	0.6	0.3	0.3	0.4	0.5	0.16	0.16

(f): Forecast

Source: Penang State Health Department, series of Penang Health Information and from unpublished sources

### Penang: Ratio of Medical Professionals – Population

	1993	1994	1995	1996	1997	1998	1999	2000(f)
Doctor	1:1435	1:1514	1:1482	1:1432	1:1353	1:1244	1:1194	1:1145
Dentist	1:11932	1:9365	1:9576	1:8882	1:9258	1:9425	1:8203	1:7871
Nurse	1:606	1:713	1:669	1:677	1:728	1:689	1:633	1:600

(f): Forecast

Source: Penang State Health Department, series of Penang Health Information and from unpublished sources

### Penang: Health Facilities 1996-2000

	1996	1997	1998	1999	2000
Government Hospital	5	5	5	5	5
Private Hospital	10	11	11	11	11
Private Maternity Home	8	7	7	8	8
Polyclinic	6	6	6	6	6
Mother & Child Health Care	12	12	12	12	12
Health Centre	16	16	16	16	16
Rural Clinics	28	28	61	61	61
Midwives-quarters-cum-clinics	38	38	3	3	3

Source: Penang State Health Department, series of Penang Health Information and from unpublished sources

**Penang: No. of Hospital Beds (Government & Private) According to Administrative District**

District	1998			1999			2000		
	Govt	Private	Total	Govt	Private	Total	Govt	Private	Total
Timur Laut	1276	1523	<b>2799</b>	1236	1394	<b>2630</b>	1236	n.a	<b>n.a</b>
Barat Daya	71	50	<b>121</b>	71	50	<b>121</b>	314	n.a	<b>n.a</b>
S. Perai Utara	0	200	<b>200</b>	314	198	<b>198</b>	260	n.a	<b>n.a</b>
S. Perai Tengah	546	115	<b>661</b>	260	115	<b>689</b>	130	n.a	<b>n.a</b>
S. Perai Selatan	130	0	<b>130</b>	130	0	<b>130</b>	71	n.a	<b>n.a</b>
<b>Total</b>	<b>2023</b>	<b>1888</b>	<b>3911</b>	<b>2011</b>	<b>1757</b>	<b>3768</b>	<b>2011</b>	n.a	<b>n.a</b>

Source: Penang State Health Department, series of Penang Health Information and from unpublished sources

**Penang: HIV/AIDS (Total Identified Cases)**

	1995	1996	1997	1998	1999	2000 (Jan-Jun)
HIV	174	194	215	187	225	88
AIDS	14(13)	24(24)	27(27)	52(35)	105(55)	33(24)

Note: ( ) = deaths

Source: Penang State Health Department