

MANUFACTURING



Census of Manufacturing Activities

A census of manufacturing establishments is conducted annually by the Research and Statistics Unit, Economic Development Board. The results provide comprehensive data for the study of the structure and trends of the manufacturing sector.

The activities covered in the census include manufacturing and industrial servicing. They are classified according to the Singapore Standard Industrial Classification 2005.

The census is conducted by mail inquiry and via the internet, using two standard questionnaires. The reference period is the calendar year, except for those establishments whose financial years do not coincide with the calendar year.

Definitions

Establishment: A manufacturing establishment is defined as a manufacturing unit engaged in one manufacturing activity and generally operating at one location.

Workers: They refer to all persons engaged in the industrial activity of the establishment, that is, all employees, the self-employed and their relatives. Data generally refer to employment as at 30 June, except where establishments commence operation after June.

Remuneration: It refers to the amount expended for the whole year. For employees, total remuneration comprises salaries (including bonuses), contributions to the Central Provident Fund and pensions paid by employers, and other benefits provided. For working proprietors, it refers to the amount withdrawn for their personal use. For unpaid family workers, it refers to allowances.

Manufacturing Output: The manufacturing output of industries refers to the total value of all commodities produced (including by-products) and industrial services rendered during the year.

Total Output : Total output includes manufacturing output and other operating income.

Materials Used: Materials used cover raw or basic materials, chemicals and packing materials consumed in the production. They refer to the actual consumption during the year.

Value Added: It refers to total output less materials, utilities, fuel, transportation charges, work given out and other operating costs.

Index of Industrial Production

The index of industrial production covers all manufacturing activities classified under Section C of the Singapore Standard Industrial Classification 2005. The indices published are at the 2-digit industry division and total manufacturing level.

The base year for the index of industrial production is 2007. The value added weighting pattern is obtained from the 2006 Census of Manufacturing Activities data. The weighting pattern reflects the relative importance of the industry divisions and changing structure within the manufacturing sector. The Laspeyres' formula is used for the compilation of the index.

Indices of Business and Labour Costs

The Unit Business Cost Index (UBCI) is compiled by the Singapore Department of Statistics. It measures the relative cost of producing one unit of real output with respect to the base year. The main components of business cost are labour cost, services cost and government rates and fees. The weighting pattern for the components is derived from the input-output tables. As a fixed-weight index, the UBCI takes the reference year of input-output tables as the base year. The Laspeyres' formula is used for the compilation of the index.

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Unit labour cost is defined as the total labour cost per unit of real output. Total labour cost comprises wages and salaries, benefits, CPF contributions by employers, foreign workers' levy and skill development levy.

Investment Commitments

Investment commitments refer to investment projects in terms of fixed assets which companies commit to invest in Singapore. Projects are only recorded as

commitments if the company has made a firm undertaking to implement the project.

Other References

More detailed statistics on the manufacturing sector are available from the "Report on the Census of Manufacturing Activities". This report is published annually by the Research and Statistics Unit, Economic Development Board.

10.1 PRINCIPAL MANUFACTURING STATISTICS

	Unit	1998	2003	2004	2005	2006	2007	2008
Establishments	No	4,004	8,597	8,725	8,037	7,892	8,166	na
Workers	No	352,289	351,109	357,836	369,610	381,909	404,057	409,919
Materials	\$m	74,427	86,036	107,160	125,257	136,542	147,493	160,022
Manufacturing Output	\$m	121,433	150,779	182,579	208,652	229,541	243,442	250,211
Total Output	\$m	124,658	158,697	191,636	217,086	237,880	253,381	259,339
Value Added	\$m	28,106	37,130	46,394	49,043	54,127	56,021	47,899
Remuneration	\$m	11,768	12,961	13,476	14,301	15,255	16,597	17,108
Direct Exports	\$m	75,530	98,725	116,750	134,647	141,065	152,318	150,751

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

With effect from 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.

10.2 SELECTED AVERAGES AND RATIOS IN THE MANUFACTURING SECTOR

	Unit	1998	2003	2004	2005	2006	2007	2008
Manufacturing Output Per Worker	\$'000	344.7	429.4	510.2	564.5	601.0	602.5	610.4
Value Added Per Worker	\$'000	79.8	105.8	129.7	132.7	141.7	138.6	116.9
Value Added to Total Output	%	22.5	23.4	24.2	22.6	22.8	22.1	18.5
Remuneration to Value Added	%	41.9	34.9	29.0	29.2	28.2	29.6	35.7
Remuneration to Total Output	%	9.4	8.2	7.0	6.6	6.4	6.6	6.6
Direct Exports to Total Sales	%	62.0	65.4	66.0	65.0	62.2	62.4	60.2
Direct Exports to Manufacturing Output	%	62.2	65.5	63.9	64.5	61.5	65.6	60.2

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

With effect from 2002, data include establishments with less than 10 workers.

Data exclude rubber processing and granite quarrying.

10.3 MANUFACTURING ESTABLISHMENTS BY INDUSTRY

Code	Industry	Number						
		1997	2002	2003	2004	2005	2006	2007
15/16/17	Food, Beverages & Tobacco	323	683	681	699	677	698	738
18	Textiles & Textile Manufactures	30	112	114	124	101	91	99
19	Wearing Apparel except Footwear	177	612	596	601	514	471	497
20	Leather, Leather Products & Footwear	24	59	60	60	48	45	44
21	Wood & Wood Products except Furniture	52	111	112	114	104	99	106
22	Paper & Paper Products	98	122	128	129	124	121	119
23	Printing & Reproduction of Recorded Media	400	901	920	927	845	827	861
24	Refined Petroleum Products	19	17	17	17	17	18	16
25	Chemicals & Chemical Products	191	255	264	264	264	262	259
26	Pharmaceutical Products	20	38	40	43	43	42	45
27	Rubber & Plastic Products	349	422	422	394	353	327	341
28	Non-metallic Mineral Products	100	149	146	146	136	137	137
29	Basic Metals	26	33	25	26	21	20	24
30	Fabricated Metal Products except Machinery & Apparatus	633	1,157	1,222	1,245	1,173	1,165	1,219
31	Machinery & Equipment	596	1,677	1,552	1,610	1,502	1,540	1,625
32	Electrical Machinery & Apparatus	168	224	222	240	229	231	239
33	Electronic Products & Components	236	220	220	209	191	186	190
34	Medical, Precision & Optical Instruments, Watches & Clocks	67	126	119	123	127	137	150
35	Transport Equipment	316	573	612	647	611	592	603
36	Furniture & Other Manufacturing Industries	283	1,118	1,125	1,107	957	883	854
	Total Manufacturing	4,108	8,609	8,597	8,725	8,037	7,892	8,166

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.
With effect from 2002, data include establishments with less than 10 workers.
Data exclude rubber processing and granite quarrying.

The industries are classified according to Singapore Standard Industrial Classification (SSIC) 2005.

10.4 MANUFACTURING OUTPUT BY INDUSTRY

		Million Dollars						
Code	Industry	1998	2003	2004	2005	2006	2007	2008
15/16/17	Food, Beverages & Tobacco	3,474.4	3,743.5	4,449.0	4,605.6	4,733.7	5,289.7	6,145.2
18	Textiles & Textile Manufactures	176.8	204.6	177.7	159.4	136.6	127.2	118.9
19	Wearing Apparel except Footwear	864.7	849.0	837.6	634.8	517.4	624.6	469.8
20	Leather, Leather Products & Footwear	131.1	202.6	207.6	211.2	235.4	242.2	200.4
21	Wood & Wood Products except Furniture	300.4	243.5	263.4	247.7	253.8	234.3	222.7
22	Paper & Paper Products	819.9	838.7	880.6	964.1	956.0	999.7	1,020.8
23	Printing & Reproduction of Recorded Media	2,687.9	2,649.3	2,672.1	2,755.7	2,888.2	2,910.7	2,851.9
24	Refined Petroleum Products	12,751.9	21,239.8	28,004.8	40,030.6	45,739.9	47,862.1	60,098.3
25	Chemicals & Chemical Products	7,299.3	17,150.9	22,902.6	25,777.1	31,100.9	33,746.2	35,797.2
26	Pharmaceutical Products	2,857.3	10,120.1	14,475.4	15,565.8	21,096.5	20,683.6	16,191.6
27	Rubber & Plastic Products	2,428.4	2,693.1	2,654.0	2,648.9	2,689.2	2,514.1	2,311.1
28	Non-metallic Mineral Products	2,114.0	1,294.9	1,330.7	1,241.3	1,410.5	1,850.5	1,925.0
29	Basic Metals	531.3	493.9	748.0	984.6	1,188.6	1,332.1	1,854.5
30	Fabricated Metal Products except Machinery & Apparatus	6,368.5	6,407.0	7,153.8	7,215.5	8,159.9	8,594.3	8,831.1
31	Machinery & Equipment	5,833.0	7,780.6	9,369.7	11,349.4	13,806.3	18,430.2	18,168.1
32	Electrical Machinery & Apparatus	2,918.8	2,291.9	2,723.1	2,897.7	3,466.1	3,770.1	3,791.9
33	Electronic Products & Components	60,846.0	59,718.0	69,898.4	75,556.6	71,990.8	73,060.0	67,935.2
34	Medical, Precision & Optical Instruments, Watches & Clocks	2,109.1	3,138.8	3,333.7	3,589.6	4,154.3	5,545.4	5,448.7
35	Transport Equipment	5,813.5	8,115.8	9,327.7	10,999.0	13,801.1	14,431.8	15,537.3
36	Furniture & Other Manufacturing Industries	1,106.7	1,603.4	1,168.9	1,216.9	1,215.4	1,193.4	1,291.0
Total Manufacturing		121,433.1	150,779.3	182,578.8	208,651.5	229,540.6	243,442.1	250,210.8

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.
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Data exclude rubber processing and granite quarrying.

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10.5 TOTAL OUTPUT BY INDUSTRY

		Million Dollars						
Code	Industry	1998	2003	2004	2005	2006	2007	2008
15/16/17	Food, Beverages & Tobacco	3,696.1	3,994.0	4,740.1	4,962.4	5,160.8	5,707.7	6,598.7
18	Textiles & Textile Manufactures	186.0	212.9	185.3	175.2	139.3	134.6	124.6
19	Wearing Apparel except Footwear	914.7	878.9	907.6	708.9	607.6	728.0	539.9
20	Leather, Leather Products & Footwear	137.7	207.6	212.6	215.5	239.0	246.9	205.6
21	Wood & Wood Products except Furniture	315.6	256.1	277.5	264.1	273.7	254.8	249.9
22	Paper & Paper Products	867.8	874.7	912.7	997.4	986.4	1,036.0	1,057.2
23	Printing & Reproduction of Recorded Media	2,745.7	2,694.1	2,710.4	2,802.4	2,938.8	2,985.9	2,942.5
24	Refined Petroleum Products	13,208.5	21,969.6	28,270.1	40,302.6	46,112.1	48,040.0	60,372.7
25	Chemicals & Chemical Products	7,649.4	18,236.8	24,115.8	26,867.3	32,256.1	35,247.1	36,980.9
26	Pharmaceutical Products	2,858.8	10,216.9	15,605.8	16,208.8	21,487.8	21,206.9	16,686.4
27	Rubber & Plastic Products	2,524.5	2,845.1	2,833.2	2,833.8	2,935.6	2,650.9	2,464.8
28	Non-metallic Mineral Products	2,164.5	1,377.5	1,440.8	1,329.8	1,457.5	1,905.8	1,953.9
29	Basic Metals	562.0	508.7	762.2	1,003.2	1,209.6	1,345.0	1,835.9
30	Fabricated Metal Products except Machinery & Apparatus	6,546.5	6,596.2	7,372.1	7,500.6	8,477.7	8,892.5	9,128.9
31	Machinery & Equipment	6,154.6	8,059.7	9,699.6	11,768.9	14,326.4	18,965.1	18,758.4
32	Electrical Machinery & Apparatus	3,125.2	2,498.7	2,962.2	3,170.8	3,836.0	4,089.2	4,111.1
33	Electronic Products & Components	61,443.6	63,509.5	74,026.2	79,156.3	75,086.0	77,411.0	71,630.5
34	Medical, Precision & Optical Instruments, Watches & Clocks	2,163.9	3,418.9	3,429.9	3,849.7	4,452.6	5,915.9	5,752.1
35	Transport Equipment	6,134.0	8,604.3	9,839.1	11,610.0	14,558.8	15,275.6	16,469.3
36	Furniture & Other Manufacturing Industries	1,258.3	1,736.7	1,332.9	1,358.4	1,338.1	1,341.5	1,476.2
Total Manufacturing		124,657.6	158,696.8	191,636.2	217,086.1	237,880.1	253,380.6	259,339.2

Source : Economic Development Board

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10.6 VALUE ADDED OF MANUFACTURING ESTABLISHMENTS BY INDUSTRY

		Million Dollars						
Code	Industry	1998	2003	2004	2005	2006	2007	2008
15/16/17	Food, Beverages & Tobacco	990.9	1,004.7	1,172.8	1,125.9	1,235.7	1,269.8	1,360.5
18	Textiles & Textile Manufactures	60.8	48.1	41.0	37.8	33.4	34.6	35.6
19	Wearing Apparel except Footwear	229.1	212.2	232.0	212.1	192.0	220.6	159.4
20	Leather, Leather Products & Footwear	39.3	49.8	52.7	54.0	54.5	59.7	54.5
21	Wood & Wood Products except Furniture	86.2	59.0	59.5	59.5	56.4	69.7	72.4
22	Paper & Paper Products	356.9	202.5	214.5	257.1	254.2	249.1	216.5
23	Printing & Reproduction of Recorded Media	1,330.2	1,261.8	1,306.8	1,303.5	1,324.2	1,389.1	1,399.2
24	Refined Petroleum Products	1,116.9	1,523.1	2,551.0	2,662.9	2,623.8	1,769.6	92.2
25	Chemicals & Chemical Products	1,538.4	3,315.4	4,465.8	4,304.9	3,945.3	5,095.5	4,591.4
26	Pharmaceutical Products	2,173.4	5,746.5	8,927.9	8,110.3	11,535.1	12,633.0	9,443.0
27	Rubber & Plastic Products	858.7	1,009.4	1,011.3	958.1	954.7	825.1	764.5
28	Non-metallic Mineral Products	562.6	398.4	398.9	355.2	368.9	505.6	410.1
29	Basic Metals	142.1	93.1	106.3	330.1	342.0	318.8	479.5
30	Fabricated Metal Products except Machinery & Apparatus	1,877.6	1,889.5	1,965.5	2,069.0	2,186.3	2,368.0	2,358.8
31	Machinery & Equipment	1,972.9	2,742.9	3,262.3	3,686.6	4,062.9	4,670.6	4,531.5
32	Electrical Machinery & Apparatus	906.6	810.3	825.4	839.2	1,017.9	1,050.4	1,061.9
33	Electronic Products & Components	10,484.4	11,698.7	14,539.0	16,689.7	17,264.3	15,685.8	12,599.2
34	Medical, Precision & Optical Instruments, Watches & Clocks	882.4	1,511.4	1,347.1	1,593.0	1,724.6	2,081.8	2,021.8
35	Transport Equipment	2,146.5	3,102.1	3,557.6	4,050.9	4,645.3	5,426.6	5,913.0
36	Furniture & Other Manufacturing Industries	350.0	450.8	356.5	342.7	305.2	297.5	334.2
Total Manufacturing		28,105.8	37,129.7	46,394.0	49,042.5	54,126.7	56,021.0	47,899.0

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.

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Data exclude rubber processing and granite quarrying.

The industries are classified according to Singapore Standard Industrial Classification (SSIC) 2005.

10.7 WORKERS IN MANUFACTURING BY INDUSTRY

		Number						
Code	Industry	1998	2003	2004	2005	2006	2007	2008
15/16/17	Food, Beverages & Tobacco	14,913	19,155	19,017	19,116	20,251	21,759	22,686
18	Textiles & Textile Manufactures	1,215	1,276	1,248	1,123	959	1,000	989
19	Wearing Apparel except Footwear	8,131	9,225	9,097	7,608	7,043	7,088	6,679
20	Leather, Leather Products & Footwear	1,049	1,045	1,050	973	1,125	1,197	1,103
21	Wood & Wood Products except Furniture	1,682	1,759	1,623	1,760	1,606	1,896	1,972
22	Paper & Paper Products	4,738	4,302	4,342	4,495	4,423	4,458	4,463
23	Printing & Reproduction of Recorded Media	19,114	18,342	17,096	17,538	17,651	17,977	17,858
24	Refined Petroleum Products	3,306	3,122	3,045	3,200	3,166	3,093	3,212
25	Chemicals & Chemical Products	13,534	15,983	15,628	15,544	15,746	16,468	17,613
26	Pharmaceutical Products	1,629	3,584	3,857	3,903	3,956	4,221	4,169
27	Rubber & Plastic Products	20,064	19,822	19,698	18,221	17,148	17,279	16,442
28	Non-metallic Mineral Products	6,583	5,164	5,084	5,158	5,176	5,365	5,414
29	Basic Metals	1,831	1,407	1,385	1,853	2,040	2,200	2,539
30	Fabricated Metal Products except Machinery & Apparatus	37,107	38,129	37,564	38,250	39,264	41,403	39,859
31	Machinery & Equipment	35,874	40,714	42,165	45,510	50,728	57,567	62,128
32	Electrical Machinery & Apparatus	14,533	10,323	10,564	10,850	11,294	11,337	11,399
33	Electronic Products & Components	111,590	87,508	92,446	95,690	93,851	95,024	91,645
34	Medical, Precision & Optical Instruments, Watches & Clocks	8,993	10,406	10,492	11,433	12,708	14,575	15,439
35	Transport Equipment	37,118	48,687	51,990	57,625	64,814	72,024	75,879
36	Furniture & Other Manufacturing Industries	9,285	11,156	10,445	9,760	8,960	8,126	8,431
Total Manufacturing		352,289	351,109	357,836	369,610	381,909	404,057	409,919

Source : Economic Development Board

Notes : Prior to 2002, data refer to establishments engaging 10 or more workers.
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10.8 REMUNERATION IN MANUFACTURING BY INDUSTRY

		Million Dollars						
Code	Industry	1998	2003	2004	2005	2006	2007	2008
15/16/17	Food, Beverages & Tobacco	460.7	556.1	572.6	554.3	584.4	634.3	674.1
18	Textiles & Textile Manufactures	32.5	33.6	30.2	30.2	30.2	22.7	22.5
19	Wearing Apparel except Footwear	153.9	169.3	167.1	151.2	138.3	139.4	133.9
20	Leather, Leather Products & Footwear	25.2	30.9	31.7	30.0	33.0	35.8	32.2
21	Wood & Wood Products except Furniture	45.1	42.1	39.2	43.2	41.1	45.7	50.8
22	Paper & Paper Products	152.0	143.3	149.6	159.3	151.7	152.0	152.9
23	Printing & Reproduction of Recorded Media	707.2	695.9	635.6	690.3	717.4	767.6	801.2
24	Refined Petroleum Products	321.9	373.5	343.4	363.6	378.7	406.4	490.2
25	Chemicals & Chemical Products	837.0	1,043.2	1,074.1	1,054.3	1,106.4	1,196.8	1,318.8
26	Pharmaceutical Products	87.0	227.8	265.7	250.5	272.5	305.0	307.8
27	Rubber & Plastic Products	527.9	568.5	575.2	550.1	554.9	543.3	535.4
28	Non-metallic Mineral Products	216.8	169.8	173.8	167.3	167.7	189.0	183.5
29	Basic Metals	74.1	67.9	65.7	82.7	95.5	103.7	116.5
30	Fabricated Metal Products except Machinery & Apparatus	1,059.6	1,130.0	1,122.3	1,161.4	1,241.9	1,317.2	1,308.4
31	Machinery & Equipment	1,205.1	1,519.6	1,612.0	1,821.2	2,065.1	2,376.6	2,551.8
32	Electrical Machinery & Apparatus	494.5	371.5	380.4	386.6	414.4	443.1	447.0
33	Electronic Products & Components	3,587.7	3,450.7	3,699.9	4,009.4	4,108.6	4,475.4	4,331.8
34	Medical, Precision & Optical Instruments, Watches & Clocks	302.6	386.6	401.9	465.6	549.5	612.1	677.8
35	Transport Equipment	1,251.8	1,688.7	1,882.4	2,082.8	2,380.3	2,632.3	2,768.1
36	Furniture & Other Manufacturing Industries	225.5	292.3	253.2	246.9	223.0	198.8	203.3
Total Manufacturing		11,768.1	12,961.3	13,476.0	14,300.9	15,254.9	16,597.3	17,108.1

Source : Economic Development Board

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10.9 INDEX OF INDUSTRIAL PRODUCTION

(2007 =100)

Code	Industry	1998	2003	2004	2005	2006	2007	2008
15 /16 /17	Food, Beverages & Tobacco	78.2	79.4	80.8	86.5	89.9	100.0	107.7
18	Textiles	300.4	218.9	187.5	142.4	119.9	100.0	92.6
19	Wearing Apparel	184.4	156.1	152.8	126.9	114.5	100.0	71.8
20	Leather Products	84.1	86.3	95.4	99.9	100.3	100.0	84.7
21	Sawn Timber & Wood Products	100.2	80.5	94.9	94.5	107.1	100.0	88.8
22	Paper & Paper Products	77.6	79.9	84.4	89.6	92.5	100.0	98.8
23	Printing & Publishing	90.8	90.4	91.5	93.6	97.6	100.0	96.7
24	Petroleum	94.8	84.9	94.5	103.1	100.2	100.0	101.0
25	Chemicals & Chemical Products	48.9	85.2	89.4	89.4	93.8	100.0	95.1
26	Pharmaceuticals	21.1	55.7	72.3	80.7	102.1	100.0	92.8
27	Rubber & Plastic Products	91.2	96.7	94.1	100.4	100.1	100.0	92.2
28	Non-metallic Mineral Products	192.4	119.0	135.9	117.8	113.1	100.0	83.1
29	Basic Metals	64.7	67.2	79.9	93.2	110.0	100.0	120.9
30	Fabricated Metal Products	114.7	86.2	91.0	90.3	97.8	100.0	95.0
31	Machinery	43.3	44.8	53.7	65.6	83.9	100.0	97.4
32	Electrical Machinery	78.4	75.9	79.4	86.2	98.8	100.0	98.1
33	Electronic Products	54.7	73.4	84.2	92.0	96.1	100.0	93.0
34	Instrumentation Equipment	53.5	78.4	82.4	86.9	88.6	100.0	98.1
35	Transport Equipment	38.2	47.4	56.6	68.5	85.3	100.0	106.7
36	Furniture & Manufacturing nec	110.4	93.4	86.0	87.4	99.1	100.0	99.7
	Total Manufacturing	52.2	67.7	77.0	84.4	94.4	100.0	95.8

Source : Economic Development Board

Note : The industries are classified according to the Singapore Standard Industrial Classification (SSIC) 2005.

10.10 INDICES OF UNIT BUSINESS COST AND UNIT LABOUR COST

(2000 =100)

	Weights ¹	1998	2003	2004	2005	2006	2007	2008
Unit Business Cost Index of Manufacturing								
Total	100.0	109.6	100.9	97.5	97.9	97.9	100.4	109.8
Unit Labour Cost	44.6	122.2	102.4	93.8	92.3	89.0	92.4	102.2
Services Cost	54.2	100.8	99.9	100.5	102.6	105.3	106.8	116.0
Government Rates & Fees	1.3	109.0	86.5	95.1	96.2	97.9	105.7	111.0
Unit Labour Cost Index of Overall Economy								
		107.8	99.9	95.6	96.5	97.8	102.9	112.8

1 The weights are based on the 2000 input structure and are used in the compilation of the indices from 2000 onwards.

10.11 INVESTMENT COMMITMENTS IN MANUFACTURING ¹ AND SERVICES BY INDUSTRY

(Fixed Asset Investments) Million Dollars

Industry	1998	2003	2004	2005	2006	2007	2008
Total	8,964.0	8,223.2	10,168.2	9,402.4	10,357.1	17,187.2	18,046.0
Manufacturing	7,826.3	7,511.0	8,258.1	8,518.8	8,842.6	16,083.6	16,386.3
Food, Beverage & Tobacco	130.8	100.7	222.2	102.7	89.4	288.7	..
Petroleum & Chemical Products	2,459.8	1,392.9	1,567.6	1,821.3	2,531.8	8,553.0	11,550.0
Pharmaceutical & Biological Products	..	638.9	612.8	615.4	814.3	831.6	..
Rubber & Plastic Products	164.2	136.4	85.5	91.0	..
Fabricated Metal Products	347.3	57.4	58.9	..	100.5	131.2	..
Machinery & Equipment	445.5	274.7	202.2	280.5	245.3	318.0	339.7
Electronic Products & Components	3,047.9	4,224.1	4,571.1	4,354.2	4,336.4	5,138.6	2,942.4
Instrumentation Equipment	..	284.9	244.7	318.9	251.7	144.8	..
Transport Equipment	357.4	184.1	450.0	518.6	343.8	387.4	509.2
Other Manufacturing Industries	873.4	216.9	243.1	507.2	129.4	199.3	1,045.0
Services Industries	1,137.7	712.2	1,910.1	883.6	1,514.5	1,103.6	1,659.7

Source : Economic Development Board

Note: The industries are classified according to the Singapore Standard Industrial Classification 2005.

¹ Includes servicing, engineering and R&D.

10.12 INVESTMENT COMMITMENTS IN MANUFACTURING ¹ AND SERVICES BY COUNTRY OF ORIGIN

(Fixed Asset Investments) Million Dollars

Industry	1998	2003	2004	2005	2006	2007	2008
Total	8,964.0	8,223.2	10,168.2	9,402.4	10,357.1	17,187.2	18,046.0
Local	3,301.4	1,677.0	3,836.8	2,440.2	2,801.3	2,498.4	1,863.4
Foreign	5,662.6	6,546.2	6,331.4	6,962.2	7,555.8	14,688.8	16,182.6
United States	2,348.9	2,522.3	2,452.1	2,376.3	2,392.6	3,191.2	11,292.0
Japan	1,860.2	1,383.7	1,241.4	1,355.3	1,342.1	1,055.7	1,251.6
Europe	1,314.4	2,348.6	2,285.0	2,186.5	2,521.7	8,542.2	2,825.9
Asia Pacific & Others	139.1	291.6	352.9	1,044.1	1,299.4	1,899.7	813.1

Source : Economic Development Board

¹ Includes servicing, engineering and R&D.