EDB SINGAPORE

MEDIA RELEASE

26 January 2010

Monthly Manufacturing Performance – December 2009

Highlights

- On a seasonally adjusted month-on-month basis, Singapore's manufacturing output increased by 18.1% in December 2009. Excluding biomedical manufacturing, output increased 4.5% in December 2009 over November 2009.
- On a year-on-year basis, manufacturing output increased 14.4% in December 2009. Output increased 23.9% if biomedical manufacturing was excluded.
- Output for the whole of 2009 contracted 4.1% compared to the same period in 2008.

(I) Total Manufacturing Performance

1. Manufacturing output increased by 18.1% in December 2009 on a seasonally adjusted month-on-month basis. Excluding biomedical manufacturing, output increased 4.5%. On a year-on-year basis, manufacturing output increased 14.4% in December 2009. Excluding biomedical manufacturing, output increased 23.9%. On a three-month

Singapore Economic Development Board
250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
Tel 65 6832 6832 Fax 65 6832 6566

moving average basis, total manufacturing output in December 2009 increased 2.2% compared to the corresponding period last year. Output for the whole of 2009 contracted 4.1% compared to the same period in 2008.

(II) Performance by cluster

2. The electronics cluster output saw robust growth of 57.3% in December year-on-year, with all segments within the cluster recording positive growth. This was due to higher demand, coupled with the low base last year. Production of semiconductors and data storage products was particularly weak in December 2008 due to a sharp fall in demand arising from the financial crisis. For the whole of 2009, electronics cluster output contracted 8.6% compared to 2008.

3. Output of the chemicals cluster in December rose 27.7%. This was mainly driven by the specialties and petrochemicals segments, which soared 72.7% and 62.2% respectively. The strong gain was primarily due to the low base in December 2008 when production was weak amidst the financial crisis. The petroleum segment continued to be affected by weak refining margins as it contracted 10.0%. Cumulative output of the

chemicals cluster from January to December 2009 contracted 8.8% compared to the same period in 2008.

4. Output of the precision engineering cluster expanded 14.7% year-on-year in December 2009. The precision modules & components segment grew 22.4% in December due to increased demand for metal precision components and metal stampings. The machinery & systems segment also grew 8.1% due to increased orders for machinery used in the semiconductor industry. Overall, the cluster's output in 2009 was 15.0% lower than that in 2008.

5. The output of the general manufacturing industries increased by 2.1% year-on-year in December 2009. The miscellaneous industries segment grew 7.8% due to spillover effects from construction activities. However the printing and food, beverages & tobacco segments contracted by 0.1% and 6.4% respectively. Output for the whole of 2009 fell 4.8% compared to the corresponding period in 2008.

6. Output of the biomedical manufacturing cluster contracted 13.3% year-on-year in December 2009. Within the cluster, output for the medical technology segment rose 22.4%, on the back of healthy demand for

medical equipment. On the other hand, the pharmaceuticals segment contracted 16.3% due to different product mix of active pharmaceutical ingredients. Cumulative output of the biomedical manufacturing cluster from January to December 2009 increased 11.5% compared to the same period in 2008.

7. The transport engineering cluster output declined by 14.8% in December 2009 compared with the same month last year. The output of the land transport segment spiked up 117.3%, mainly due to a ramp up in production to meet delivery before year end. The aerospace and marine & offshore engineering segments contracted 21.1% and 21.8% respectively. For the whole of 2009, output of the transport engineering cluster fell 5.6% in 2009 compared to 2008.

8. The next monthly manufacturing performance media release will be issued on 26th February 2010.

Singapore Economic Development Board
250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
Tel 65 6832 6832 Fax 65 6832 6566

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Editors' Note: Updates on Monthly Manufacturing Output are available on http://www.news.gov.sg *and* http://www.sedb.com

For media enquiries, please contact Mr Alex Tan (Tel: 68326284/ Handphone: 98410392/ Email: alex_tan@edb.gov.sg)

For further information, please contact Mr Chong Tse Ming (Tel 68326677/ Handphone: 91547959/ Email quin_chong@edb.gov.sg)

Singapore Economic Development Board
250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
Tel 65 6832 6832 Fax 65 6832 6566

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'Host to Home' articulates how EDB is sharpening its economic development strategies to position Singapore for the future. It is about extending Singapore's value proposition to businesses not just in helping them improve their bottom line, but also in helping them grow their top line. EDB plans to build on existing strengths and add new layers of capabilities to enable Singapore to become a *'Home for Business', a 'Home for Innovation'* and a *'Home for Talent'*.

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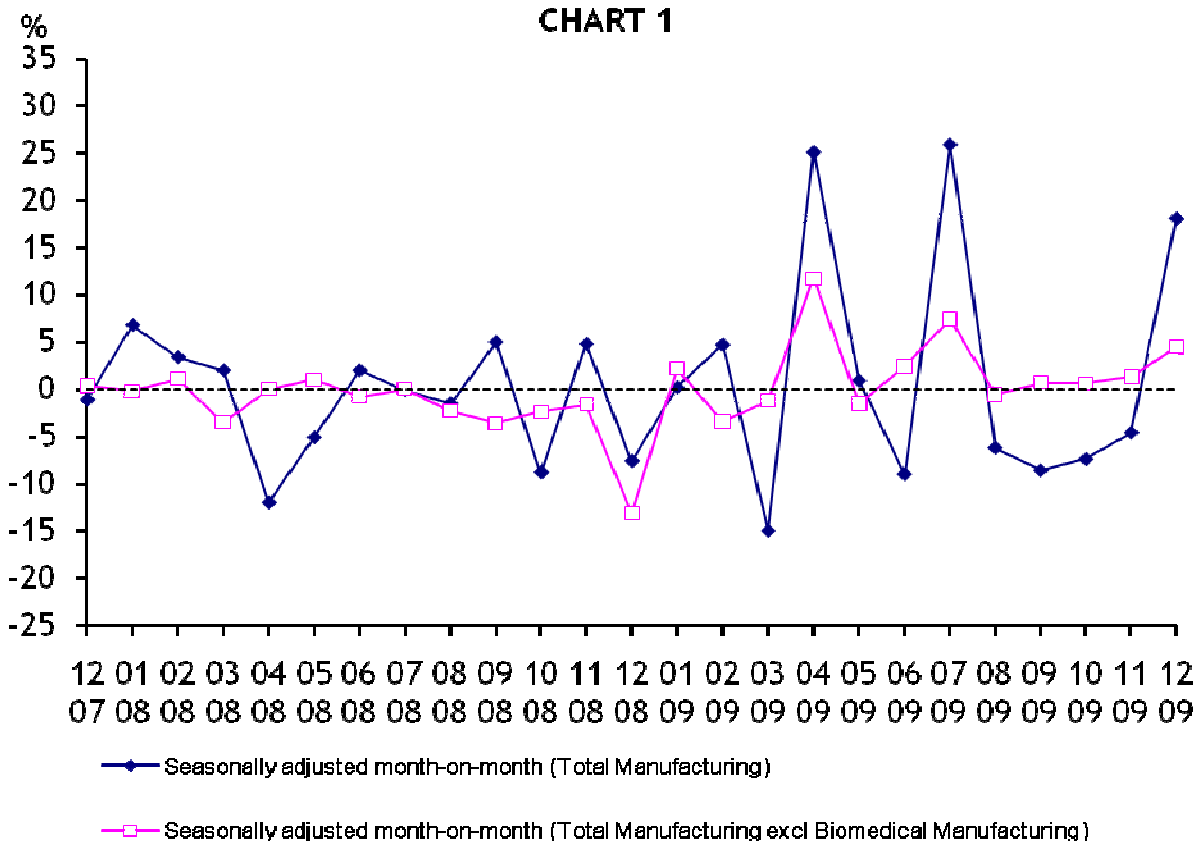
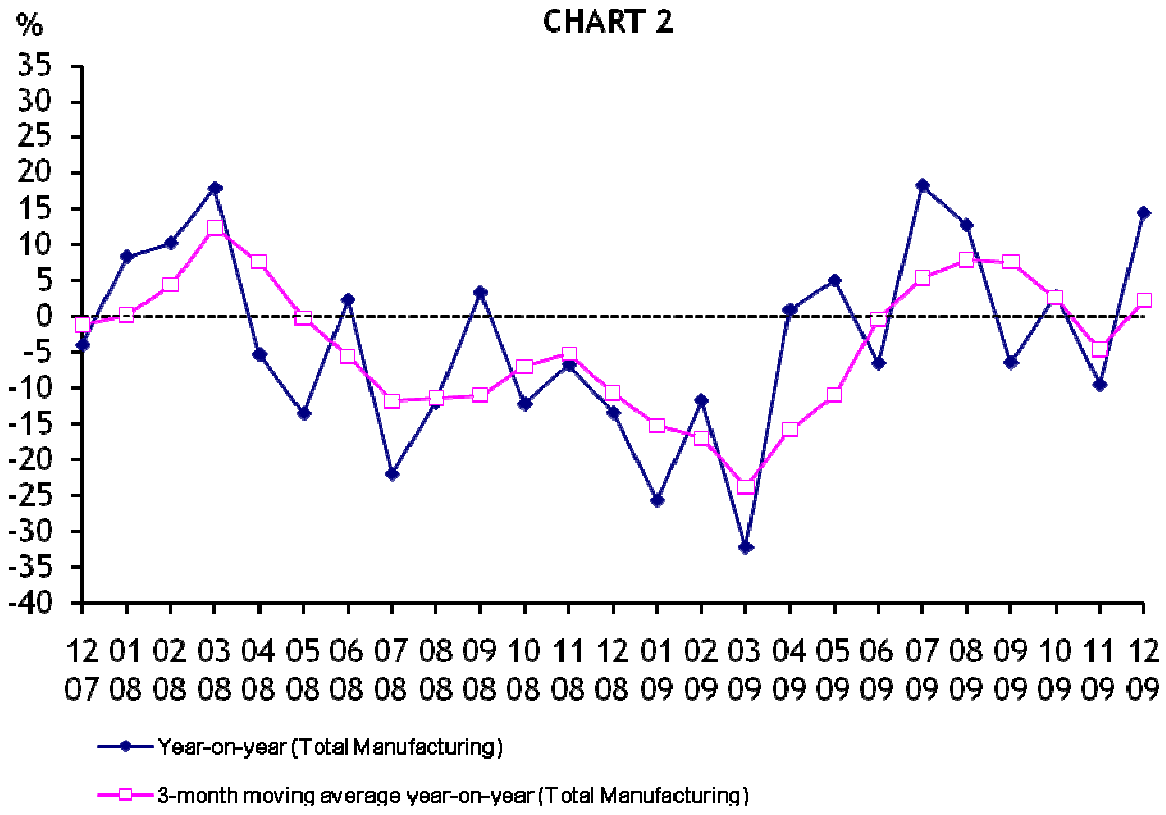
250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
Tel 65 6832 6832 Fax 65 6832 6566

GROWTH OF MANUFACTURING SECTOR





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250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
Tel 65 6832 6832 Fax 65 6832 6566

TABLE 1 : MANUFACTURING SECTOR GROWTH

Period		NSA INDEX Total Mfg (2007 = 100)	YOY GROWTH (%) Total Mfg	SA INDEX Total Mfg	SA MOM GROWTH (%) Total Mfg	SA INDEX Total Mfg excl Biomedical Mfg	SA MOM GROWTH (%) Total Mfg excl Biomedical Mfg
2007	Dec	101.1	-4.0	97.6	-1.1	102.5	0.4
2008	Jan	100.7	8.3	104.2	6.8	102.3	-0.2
	Feb	96.0	10.2	107.7	3.4	103.4	1.1
	Mar	116.6	17.8	109.9	2.0	99.8	-3.5
	Apr	91.8	-5.3	96.7	-12.0	99.8	0.0
	May	85.5	-13.5	91.8	-5.1	100.8	1.0
	Jun	98.1	2.3	93.6	2.0	100.0	-0.8
	Jul	93.3	-21.9	93.5	-0.1	100.0	0.0
	Aug	91.2	-12.0	92.1	-1.5	97.7	-2.3
	Sep	103.2	3.3	96.7	5.0	94.2	-3.6
	Oct	90.9	-12.2	88.2	-8.8	91.9	-2.4
	Nov	95.0	-6.7	92.4	4.8	90.4	-1.6
	Dec	87.6	-13.4	85.4	-7.6	78.6	-13.1
2009	Jan	74.9	-25.6	85.6	0.2	80.3	2.2
	Feb	84.8	-11.7	89.6	4.7	77.6	-3.4
	Mar	79.2	-32.1	76.2	-15.0	76.7	-1.2
	Apr	92.6	0.9	95.3	25.1	85.7	11.7
	May	89.8	5.0	96.2	0.9	84.4	-1.5
	Jun	91.7	-6.5	87.5	-9.0	86.4	2.4
	Jul	110.3	18.2	110.2	25.9	92.8	7.4
	Aug	102.8	12.7	103.4	-6.2	92.2	-0.6
	Sep	96.6	-6.4	94.5	-8.6	92.8	0.7
	Oct	93.4	2.8	87.5	-7.4	93.4	0.6
	Nov	86.0	-9.5	83.5	-4.6	94.6	1.3
	Dec*	100.2	14.4	98.6	18.1	98.9	4.5

Note:
* - Preliminary
NSA Index - Non seasonally adjusted index
MOM - Month-on-month
YOY - Year-on-year

Singapore Economic Development Board
250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
Tel 65 6832 6832 Fax 65 6832 6566

TABLE 2: PERFORMANCE BY CLUSTERS

Industry Cluster	2008 Value Added Share (%)	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Oct 09	Nov 09	Dec 09*	Cum Jan - Dec 09	Oct 09	Nov 09	Dec 09*
Electronics	26.3	**16.3**	**13.9**	**57.3**	**-8.6**	**4.8**	**10.5**	**27.3**
Semiconductors	16.4	13.5	29.7	90.8	-6.2	0.6	12.2	40.0
Computer Peripherals	2.6	82.9	-0.4	10.2	12.6	67.1	46.7	29.0
Data Storage	3.2	-14.9	-16.2	42.6	-23.2	-23.3	-17.4	-0.1
Infocomms & Consumer Electronics	2.5	-18.4	0.8	6.5	-35.1	-26.6	-19.0	-4.3
Other Electronic Modules & Components	1.6	-1.7	1.1	23.5	-19.4	-4.9	-2.5	6.4
Biomedical Manufacturing	22.2	**0.3**	**-48.9**	**-13.3**	**11.5**	**22.1**	**-24.2**	**-24.2**
Pharmaceuticals	19.7	-0.8	-52.6	-16.3	12.3	23.6	-26.9	-27.4
Medical Technology	2.5	10.0	12.7	22.4	1.7	5.3	10.6	15.2
Chemicals	10.2	**-2.2**	**16.6**	**27.7**	**-8.8**	**-5.2**	**1.0**	**13.0**
Petroleum	0.2	-17.0	-12.1	-10.0	-14.8	-16.5	-15.1	-13.1
Petrochemicals	5.3	11.5	50.9	62.2	-1.9	7.9	17.2	38.8
Specialties	3.8	6.3	35.1	72.7	-8.2	-3.8	8.3	33.7
Others	0.9	3.3	25.2	28.4	-5.0	1.7	7.7	18.2

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250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
Tel 65 6832 6832 Fax 65 6832 6566

TABLE 2: PERFORMANCE BY CLUSTERS (Continued)

Industry Cluster	2008 Value Added Share (%)	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Oct 09	Nov 09	Dec 09*	Cum Jan - Dec 09	Oct 09	Nov 09	Dec 09*
Precision Engineering	14.0	**-2.3**	**5.8**	**14.7**	**-15.0**	**-9.6**	**-3.8**	**6.0**
Machinery & Systems	6.5	-0.8	1.9	8.1	-15.1	-9.5	-5.8	3.3
Precision Modules & Components	7.5	-3.5	9.5	22.4	-14.9	-9.8	-2.1	8.4
Transport Engineering	16.1	**-16.3**	**-19.4**	**-14.8**	**-5.6**	**-10.2**	**-14.7**	**-16.8**
Marine & Offshore Engineering	9.3	-20.3	-24.6	-21.8	-6.2	-13.0	-18.5	-22.3
Aerospace	5.8	-14.2	-16.6	-21.1	-3.8	-9.3	-12.5	-17.5
Land	1.0	2.3	11.4	117.3	-12.0	7.2	3.1	40.0
General Manufacturing Industries	11.2	**0.8**	**2.4**	**2.1**	**-4.8**	**-2.3**	**0.0**	**1.7**
Printing	2.9	-6.6	-2.2	-0.1	-14.6	-11.0	-7.5	-3.1
Food, Beverages & Tobacco	2.8	-2.8	-5.8	-6.4	-4.7	-3.1	-2.9	-5.0
Miscellaneous Industries	5.4	5.8	8.7	7.8	0.0	1.9	4.7	7.4
Total Manufacturing	100.0	**2.8**	**-9.5**	**14.4**	**-4.1**	**2.6**	**-4.6**	**2.2**
Manufacturing excluding Biomedical Manufacturing	77.8	**3.3**	**5.7**	**23.9**	**-8.7**	**-2.2**	**1.4**	**10.6**

***** Preliminary

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250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
Tel 65 6832 6832 Fax 65 6832 6566

TABLE 3: MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, DECEMBER 2007 TO DECEMBER 2009

Period		Electronics						Biomedical Manufacturing			Chemicals				
		Total	Semi-conductors	Computer Peripherals	Data Storage	Infocomms & Consumer Electronics	Other Electronic Modules & Components	Total	Pharma-ceuticals	Medical Techno-logy	Total	Petroleum	Petro-chemicals	Specialties	Others
2007 = 100															
2007	Dec	111.4	107.1	118.4	123.1	110.2	112.3	80.5	79.2	97.5	100.9	103.7	103.7	96.5	90.6
2008	Jan	100.4	99.5	126.0	110.7	64.7	108.3	101.6	101.8	98.6	104.3	102.8	103.4	110.9	94.7
	Feb	94.2	103.0	93.4	95.8	57.7	96.8	115.1	116.6	96.0	96.7	98.5	94.4	101.9	80.8
	Mar	97.1	90.4	116.1	118.9	76.5	119.7	168.1	173.9	95.5	104.0	104.5	103.3	109.4	88.5
	Apr	91.7	97.3	95.3	103.4	52.0	97.1	74.5	71.8	109.2	102.4	101.8	102.4	107.4	90.4
	May	86.5	88.8	95.4	95.0	52.5	100.0	53.0	49.7	94.4	103.7	107.5	103.0	106.0	81.0
	Jun	98.6	103.7	109.9	92.0	67.2	110.1	86.6	84.5	112.5	100.8	101.2	95.8	110.1	89.7
	Jul	101.3	115.7	95.8	99.6	49.1	104.3	60.5	58.2	88.8	98.6	101.0	89.6	106.5	96.3
	Aug	96.9	105.0	98.2	112.2	46.4	105.1	70.1	68.8	85.9	94.9	101.5	83.6	101.9	84.4
	Sep	100.9	105.1	111.2	111.0	57.5	115.6	103.2	103.8	96.4	99.4	98.4	98.4	105.6	90.1
	Oct	93.1	102.2	93.3	96.6	46.6	106.6	72.6	70.6	98.3	94.3	102.7	89.4	91.7	80.6
	Nov	83.6	84.5	106.5	93.9	39.9	98.2	115.0	117.0	90.1	80.2	96.5	69.2	71.4	69.8
	Dec	71.7	70.6	101.3	69.0	42.0	80.8	97.4	96.9	103.7	77.5	95.3	69.0	61.9	70.8
2009	Jan	58.2	62.6	77.2	54.9	25.0	51.0	87.4	87.8	82.1	79.1	94.6	73.0	68.7	59.0
	Feb	61.8	60.2	91.8	73.3	29.5	53.6	123.8	126.4	90.3	76.1	85.6	69.0	71.9	70.5
	Mar	65.0	70.5	78.8	60.5	34.9	57.3	82.0	80.3	102.5	81.0	85.5	77.1	80.2	76.5
	Apr	73.2	78.5	81.1	85.0	33.9	69.6	124.2	126.2	99.3	80.5	79.0	82.8	85.4	65.5
	May	68.2	75.5	74.7	63.2	29.8	80.6	126.7	129.5	91.8	84.6	88.9	78.0	89.0	74.9
	Jun	81.7	87.1	102.8	80.6	39.2	82.3	102.2	102.4	99.5	91.1	88.7	86.5	101.4	88.9
	Jul	98.5	100.3	168.4	80.2	35.6	96.9	156.7	161.2	99.5	96.2	87.5	105.4	99.6	92.8
	Aug	93.7	96.3	155.8	74.7	33.9	98.2	138.5	143.0	82.0	90.5	85.0	96.0	93.2	87.9
	Sep	103.0	101.9	179.4	88.2	38.5	108.4	88.9	87.6	105.3	90.9	82.7	97.0	97.1	88.4
	Oct	108.3	116.0	170.6	82.2	38.0	104.8	72.8	70.0	108.1	92.3	85.2	99.7	97.4	83.2
	Nov	95.2	109.6	106.1	78.7	40.2	99.3	58.8	55.4	101.5	93.6	84.8	104.4	96.4	87.4
	Dec *	112.8	134.7	111.7	98.3	44.7	99.7	84.4	81.1	126.9	99.0	85.8	112.0	106.8	90.9

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250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
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TABLE 3: MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, DECEMBER 2007 TO DECEMBER 2009 (Continued)

Period		Precision Engineering			Transport Engineering				General Manufacturing Industries				Total Manu-facturing	Manufacturing excluding Biomedical Manufacturing
		Total	Machinery & Systems	Precision Modules & Components	Total	Marine & Offshore Engineering	Aerospace	Land	Total	Printing	Food, Beverages & Tobacco	Miscella-neous Industries		
2007 = 100														
2007	Dec	105.6	121.5	92.2	110.6	122.9	97.3	104.3	100.1	98.3	101.1	100.5	101.1	107.3
2008	Jan	97.2	94.4	99.5	93.7	89.7	99.0	90.0	107.5	101.3	120.4	104.5	100.7	100.4
	Feb	80.8	79.6	81.9	90.7	89.6	89.6	106.0	80.6	79.7	89.1	77.0	96.0	90.3
	Mar	102.9	111.9	95.2	109.7	106.7	105.1	159.2	99.5	100.6	105.2	96.2	116.6	101.2
	Apr	94.7	93.5	95.7	103.7	104.1	102.6	108.1	102.2	99.7	105.0	102.2	91.8	97.0
	May	92.5	94.2	91.0	107.4	114.1	102.2	91.2	102.0	100.9	105.5	100.9	85.5	95.2
	Jun	99.5	107.4	92.7	113.3	117.7	108.3	113.3	101.3	97.7	105.4	101.1	98.1	101.5
	Jul	96.1	93.7	98.2	116.4	123.3	105.6	133.7	108.7	100.4	110.2	112.2	93.3	103.1
	Aug	91.1	87.3	94.2	102.2	101.0	105.8	88.9	106.0	98.6	108.9	108.5	91.2	97.5
	Sep	103.3	110.2	97.5	109.7	115.7	103.5	104.8	108.3	99.0	107.4	113.6	103.2	103.2
	Oct	87.4	83.2	91.0	108.4	111.8	105.7	100.4	107.0	97.7	109.3	110.6	90.9	96.4
	Nov	81.8	85.4	78.7	111.8	120.5	105.5	88.2	102.7	95.7	110.1	102.6	95.0	89.0
	Dec	83.2	97.3	71.2	117.9	122.2	118.9	81.7	101.2	88.6	116.2	100.5	87.6	84.7
2009	Jan	62.2	63.6	61.1	98.1	104.7	95.2	69.2	85.5	71.6	100.9	85.2	74.9	71.2
	Feb	64.2	64.8	63.7	106.4	108.0	106.6	93.7	80.6	71.8	91.6	79.9	84.8	73.2
	Mar	75.3	80.7	70.8	109.9	108.0	116.0	86.1	88.0	80.1	101.6	85.5	79.2	78.4
	Apr	72.1	76.9	68.0	118.5	133.7	110.4	59.3	93.4	79.8	97.9	98.1	92.6	83.2
	May	71.0	69.7	72.2	98.3	99.2	103.3	60.9	93.7	77.3	101.2	98.6	89.8	78.8
	Jun	83.6	88.8	79.2	101.0	100.0	105.8	78.7	100.6	78.2	102.9	111.0	91.7	88.6
	Jul	78.8	75.1	82.0	102.8	109.7	99.5	73.9	104.5	86.8	107.4	112.2	110.3	96.4
	Aug	79.1	78.7	79.5	96.5	92.7	98.5	111.0	100.9	85.8	101.7	108.3	102.8	92.1
	Sep	90.1	92.9	87.7	100.4	103.7	96.5	101.6	105.1	85.8	107.4	113.8	96.6	98.9
	Oct	85.4	82.6	87.8	90.8	89.2	90.7	102.7	107.8	91.3	106.3	117.0	93.4	99.6
	Nov	86.5	87.0	86.1	90.1	90.9	88.0	98.2	105.1	93.6	103.8	111.6	86.0	94.1
	Dec *	95.4	105.1	87.2	100.5	95.6	93.7	177.6	103.4	88.5	108.8	108.4	100.2	104.9

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250 North Bridge Road #28-00 Raffles City Tower Singapore 179101
Tel 65 6832 6832 Fax 65 6832 6566