

## MEDIA RELEASE

26 March 2010

### Monthly Manufacturing Performance - February 2010

#### Highlights

- On a seasonally adjusted month-on-month basis, Singapore's manufacturing output increased by 5.9% in February 2010. Excluding biomedical manufacturing, output increased 3.8% in February over January 2010.
- On a year-on-year basis, manufacturing output increased 19.1% in February 2010. Excluding biomedical manufacturing, output increased by 21.4%.

#### (I) Total Manufacturing Performance

1. Manufacturing output increased by 5.9% in February 2010 on a seasonally adjusted month-on-month basis. Excluding biomedical manufacturing, output increased 3.8%. On a year-on-year basis, manufacturing output increased 19.1% in February 2010. Excluding biomedical manufacturing, output increased 21.4%. On a three-month

moving average basis, total manufacturing output in February 2010 increased 23.8% compared to the corresponding period last year.

**(II) Performance by cluster**

2. Output of the electronics cluster grew 56.5% in February 2010 on a year-on-year basis. Within the cluster, the semiconductor segment continued to perform strongly, growing by 96.7% in February on the back of higher export demand, coupled with the low base effect in the same period last year. The other electronic modules & components and data storage segments grew 54.2% and 11.0% respectively. For the first two months of 2010, cumulative output of the electronics cluster was 68.8% higher than the same period last year.
  
3. Output of the precision engineering cluster rose 20.1% year-on-year in February 2010. The precision modules & components segment expanded 25.7% with higher level of production of metal precision components and plastic precision engineering parts. The higher output in the machinery & systems segment was led by increased demand for mechanical engineering works, while the strong performance in the semiconductor industry also boosted demand for related machineries.

For the first two months of 2010, the precision engineering cluster grew 28.1% compared to the corresponding period in 2009.

4. Output of the biomedical manufacturing cluster increased 14.8% year-on-year in February. Within the cluster, the pharmaceuticals segment grew 15.6% with higher level of production of active pharmaceutical ingredients. Output of the medical technology segment edged up 0.8% to meet export orders for surgical and medical instruments. Cumulatively, output of the cluster grew 27.9% in the first two months of 2010 compared to the same period in 2009.
5. The chemicals cluster's output expanded 10.7% year-on-year in February 2010. All segments except petroleum refining recorded output growth. The petrochemicals and specialties segments grew 41.9% and 25.4% respectively. This was due mainly to the low base in the same period last year when demand was weak. Cumulative output of the chemicals cluster for the first two months of 2010 was 14.6% higher than the same period in the previous year.
6. Output of the general manufacturing industries increased 4.1% year-on-year in February 2010. The miscellaneous industries and food,

beverages & tobacco segments recorded growth of 10.1% and 3.1% respectively while the printing segment declined 8.2%. Cumulative output of the cluster in the first two months of February 2010 increased 11.2% from the same period last year.

7. The transport engineering cluster's output declined 17.7% in February, with all segments within the cluster registering contraction. Output of the aerospace segment dipped 9.6% with lower level of activities in maintenance, repair and overhaul of aircraft. The marine & offshore engineering segment fell 24.1% in February due to fewer ship repair jobs and lower percentage of completion in projects involving construction of oil rigs and ships. The cluster's output for the first two months of 2010 was 14.8% lower compared to the same period in 2009.
8. The next monthly manufacturing performance media release will be issued on 26<sup>th</sup> April 2010.

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

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## About the Singapore Economic Development Board

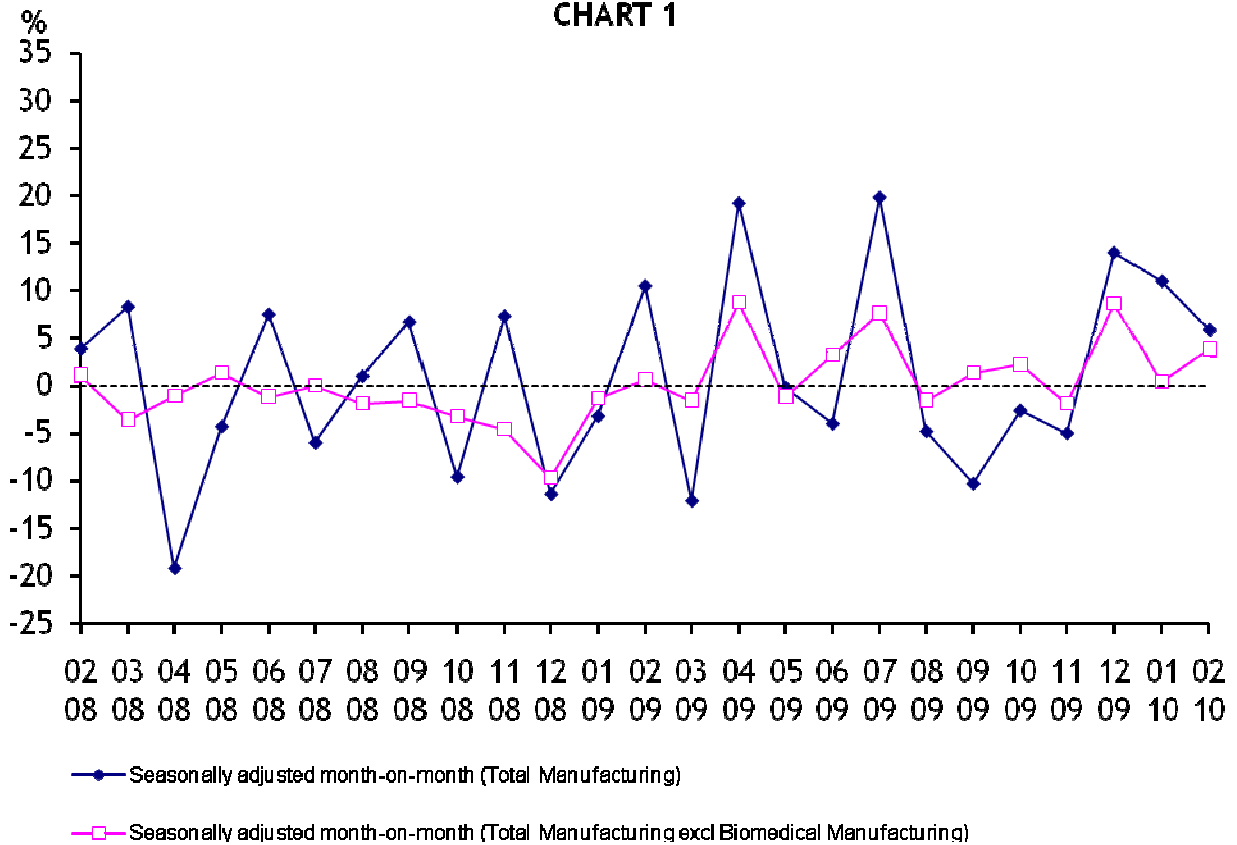
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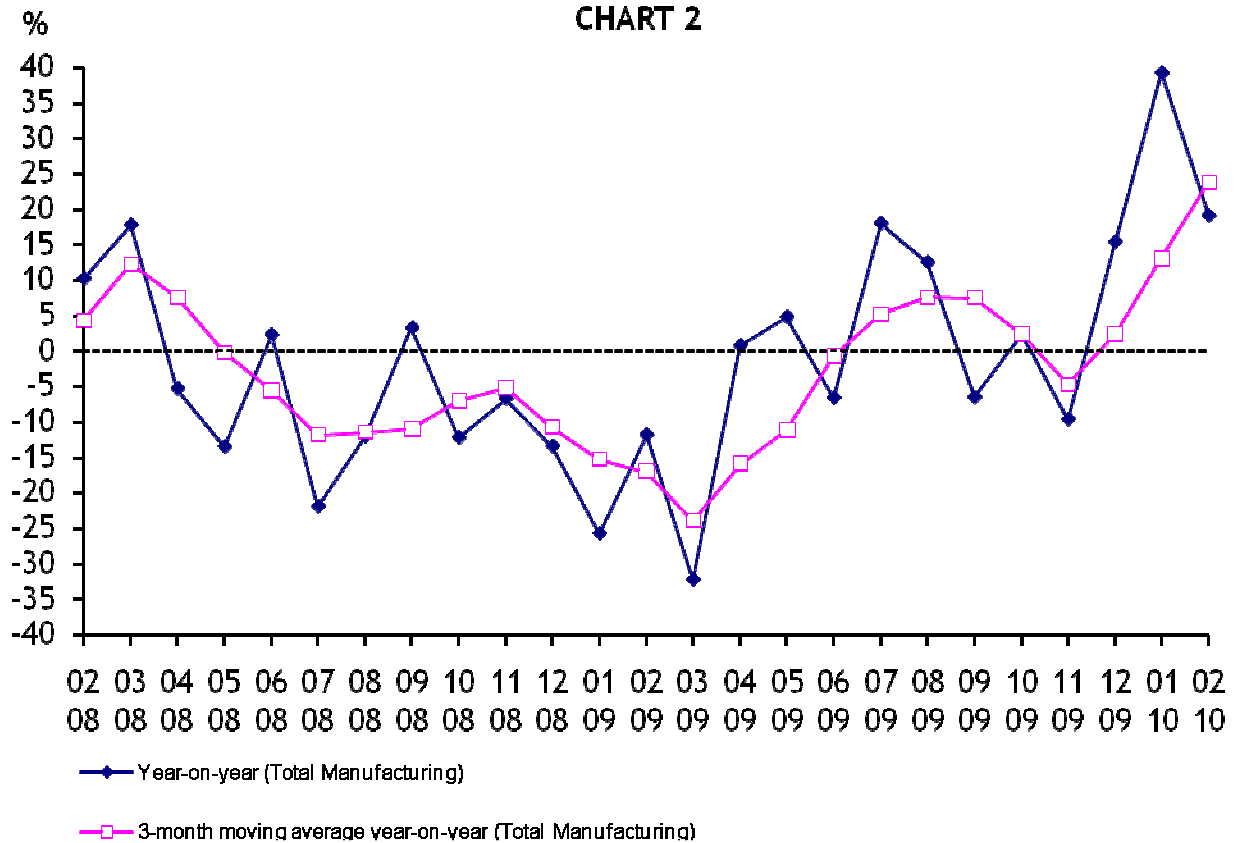
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# GROWTH OF MANUFACTURING SECTOR

## CHART 1



## CHART 2



**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
2008 Feb	96.0	10.2	106.9	3.9	104.1	1.1
Mar	116.6	17.8	115.8	8.3	100.4	-3.6
Apr	91.8	-5.3	93.6	-19.2	99.3	-1.1
May	85.5	-13.5	89.6	-4.3	100.6	1.3
Jun	98.1	2.3	96.3	7.5	99.4	-1.2
Jul	93.3	-21.9	90.5	-6.0	99.4	0.0
Aug	91.2	-12.0	91.4	1.0	97.5	-1.9
Sep	103.2	3.3	97.5	6.7	95.9	-1.6
Oct	90.9	-12.2	88.1	-9.6	92.7	-3.3
Nov	95.0	-6.7	94.5	7.3	88.4	-4.6
Dec	87.6	-13.4	83.7	-11.4	79.8	-9.7
2009 Jan	74.8	-25.7	81.0	-3.2	78.7	-1.4
Feb	84.7	-11.8	89.5	10.5	79.2	0.6
Mar	79.0	-32.2	78.7	-12.1	77.9	-1.6
Apr	92.5	0.8	93.8	19.2	84.7	8.7
May	89.6	4.8	93.6	-0.2	83.7	-1.2
Jun	91.6	-6.6	89.9	-4.0	86.4	3.2
Jul	110.1	18.0	107.7	19.8	93.0	7.6
Aug	102.6	12.5	102.5	-4.8	91.5	-1.6
Sep	96.5	-6.5	91.9	-10.3	92.7	1.3
Oct	93.2	2.5	89.5	-2.6	94.7	2.2
Nov	85.9	-9.6	85.0	-5.0	92.9	-1.9
Dec	101.1	15.4	96.9	14.0	100.9	8.6
2010 Jan	104.1	39.2	107.6	11.0	101.3	0.4
Feb*	100.9	19.1	113.9	5.9	105.2	3.8

Note:

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

**TABLE 2: PERFORMANCE BY CLUSTERS**

Industry Cluster	2009 Value Added Share (%)	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Dec 09	Jan 10	Feb 10*	Cum Jan - Feb 10	Dec 09	Jan 10	Feb 10*
<b>Electronics</b>	30.6	<b>59.6</b>	<b>82.0</b>	<b>56.5</b>	<b>68.8</b>	<b>28.1</b>	<b>47.9</b>	<b>65.4</b>
Semiconductors	19.6	93.0	105.8	96.7	101.3	40.6	72.0	98.3
Computer Peripherals	5.1	14.8	34.3	2.1	16.8	31.8	15.7	16.0
Data Storage	2.2	41.7	57.8	11.0	31.1	-0.3	20.8	34.8
Infocomms & Consumer Electronics	2.8	10.2	54.0	13.1	31.9	-3.1	17.0	22.5
Other Electronic Modules & Components	0.9	23.8	90.3	54.2	71.8	6.5	28.9	50.9
<b>Biomedical Manufacturing</b>	20.8	<b>-13.5</b>	<b>46.6</b>	<b>14.8</b>	<b>27.9</b>	<b>-24.2</b>	<b>-9.6</b>	<b>14.9</b>
Pharmaceuticals	17.8	-16.4	49.3	15.6	29.4	-27.4	-11.3	15.1
Medical Technology	3.0	21.2	8.9	0.8	4.7	14.8	14.7	10.9
<b>Chemicals</b>	4.5	<b>27.7</b>	<b>18.3</b>	<b>10.7</b>	<b>14.6</b>	<b>13.0</b>	<b>20.8</b>	<b>18.9</b>
Petroleum	-0.4	-10.3	-16.4	-17.6	-17.0	-13.3	-13.1	-14.6
Petrochemicals	0.0	62.1	45.2	41.9	43.6	38.8	52.6	49.7
Specialties	3.6	73.0	49.4	25.4	37.1	33.8	51.6	48.1
Others	1.3	28.5	52.6	17.1	33.3	18.3	34.5	31.6

**TABLE 2: PERFORMANCE BY CLUSTERS (Continued)**

Industry Cluster	2009 Value Added Share (%)	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Dec 09	Jan 10	Feb 10*	Cum Jan - Feb 10	Dec 09	Jan 10	Feb 10*
<b>Precision Engineering</b>	12.9	18.2	36.4	20.1	28.1	5.5	17.7	24.1
Machinery & Systems	5.9	14.0	24.8	14.0	19.3	5.0	12.2	17.0
Precision Modules & Components	6.9	23.1	47.0	25.7	36.1	6.0	23.2	31.3
<b>Transport Engineering</b>	19.4	-14.6	-11.6	-17.7	-14.8	-16.8	-15.4	-14.7
Marine & Offshore Engineering	12.3	-21.8	-22.9	-24.1	-23.5	-22.5	-23.2	-22.9
Aerospace	6.2	-21.1	-0.9	-9.6	-5.5	-17.4	-13.6	-11.3
Land	0.9	120.6	20.1	-20.8	-3.4	41.1	51.3	38.0
<b>General Manufacturing Industries</b>	11.8	2.8	17.9	4.1	11.2	2.0	7.1	8.0
Printing	2.8	-0.1	17.2	-8.2	4.5	-2.9	4.1	2.7
Food, Beverages & Tobacco	3.5	-6.1	7.8	3.1	5.5	-4.9	-1.8	1.2
Miscellaneous Industries	5.5	9.0	23.9	10.1	17.2	7.8	13.3	14.1
<b>Total Manufacturing</b>	100.0	15.4	39.2	19.1	28.4	2.4	13.1	23.8
<b>Manufacturing excluding Biomedical Manufacturing</b>	79.2	25.3	36.5	21.4	28.8	10.8	21.4	27.5

\* Preliminary

**TABLE 3: MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, FEBRUARY 2008 TO FEBRUARY 2010**

Period	Electronics						Biomedical Manufacturing			Chemicals					
	Total	Semi-conductors	Computer Peripherals	Data Storage	Infocomms & Consumer Electronics	Other Electronic Modules & Components	Total	Pharmaceuticals	Medical Technology	Total	Petroleum	Petrochemicals	Specialties	Others	
2007 = 100															
2008	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	168.5	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	155.9	74.7	33.9	98.2	138.5	143.0	82.0	90.5	85.0	96.0	93.2	87.9
	Sep	103.1	101.9	179.4	88.2	38.5	108.9	88.9	87.6	105.3	90.8	82.6	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	97.5	83.2
	Nov	95.7	109.5	109.8	78.7	40.2	99.3	58.8	55.4	101.5	93.5	84.5	104.4	96.4	87.4
	Dec	114.4	136.3	116.3	97.7	46.3	100.0	84.3	81.0	125.7	98.9	85.5	111.9	107.0	91.0
2010	Jan	105.9	128.7	103.7	86.6	38.6	97.1	128.0	131.1	89.4	93.6	79.1	106.0	102.6	90.1
	Feb *	96.7	118.4	93.7	81.3	33.3	82.6	142.0	146.1	91.1	84.3	70.5	97.9	90.1	82.6

**TABLE 3: MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, FEBRUARY 2008 TO FEBRUARY 2010 (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														
2008	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	60.9	63.6	58.7	98.1	104.6	95.2	69.2	85.5	71.6	100.9	85.3	74.8	71.0
	Feb	62.6	64.8	60.7	107.4	110.1	106.6	93.7	80.6	71.8	91.6	80.0	84.7	73.0
	Mar	74.3	80.7	68.9	109.7	107.5	116.0	86.1	88.0	80.1	101.7	85.6	79.0	78.1
	Apr	71.2	76.9	66.3	118.5	133.7	110.4	59.3	93.4	79.8	98.0	98.1	92.5	83.0
	May	70.1	69.7	70.4	98.2	99.1	103.3	60.9	93.8	77.3	101.3	98.7	89.6	78.5
	Jun	82.4	88.8	77.0	101.2	100.3	105.8	78.7	100.6	78.2	102.9	111.1	91.6	88.4
	Jul	77.5	75.1	79.4	102.7	109.6	99.5	73.9	104.4	86.8	107.2	112.1	110.1	96.2
	Aug	77.6	78.7	76.7	96.5	92.7	98.5	111.0	100.9	85.7	101.8	108.3	102.6	91.9
	Sep	89.0	93.4	85.2	100.7	104.3	96.5	101.6	105.1	85.8	107.6	113.8	96.5	98.8
	Oct	83.6	82.2	84.7	90.6	88.7	90.7	102.7	107.9	91.3	106.5	117.1	93.2	99.3
	Nov	84.5	86.2	83.0	89.9	90.5	88.0	98.2	105.1	94.0	103.6	111.5	85.9	94.0
	Dec	98.3	110.9	87.7	100.7	95.6	93.8	180.4	104.1	88.5	109.2	109.6	101.1	106.1
2010	Jan	83.1	79.3	86.3	86.7	80.7	94.3	83.1	100.8	83.9	108.7	105.7	104.1	97.0
	Feb *	75.2	73.9	76.2	88.4	83.6	96.3	74.2	83.9	65.9	94.4	88.0	100.9	88.6

\* Preliminary