

## MEDIA RELEASE

26 January 2012

### Monthly Manufacturing Performance – December 2011

#### Highlights

- On a year-on-year basis, Singapore's manufacturing output grew 12.6% in December 2011. Excluding biomedical manufacturing, output declined 9.0%.
- On a seasonally adjusted month-on-month basis, manufacturing output increased 7.8% in December 2011. Excluding biomedical manufacturing, output rose 6.7%.

#### (I) Total Manufacturing Performance

1. On a year-on-year basis, manufacturing output grew 12.6% in December 2011. Excluding biomedical manufacturing, output declined 9.0%. On a three-month moving average basis, manufacturing output in December 2011 increased 9.2% compared to the same period in 2010. On a seasonally adjusted month-on-month basis, manufacturing output increased 7.8% in December 2011. Excluding biomedical manufacturing, output rose 6.7%. For the whole of 2011, manufacturing output grew 7.6% compared to 2010.

## **(II) Performance by cluster**

2. Output of the biomedical manufacturing cluster surged 111.6% in December 2011 on a year-on-year basis, boosted by the 121.6% expansion in pharmaceuticals output. The strong performance in the pharmaceuticals segment was mainly due to a different mix of active pharmaceutical ingredients being produced. Output of the medical technology segment also rose 14.3% in December on higher export demand for medical devices. On a year-to-date basis, biomedical output increased 31.5% compared to the same period a year ago.
3. The transport engineering cluster's output expanded 15.1% year-on-year in December 2011, with all segments within the cluster recording higher output. Growth was led by the marine & offshore engineering segment which grew 19.2%, with higher percentage of completion in shipbuilding and oil rigs projects in December. The aerospace segment also expanded 13.1%, benefiting from healthy demand for air travel in Asia, which in turn continued to spur demand for maintenance and repair activities from commercial airlines. For the whole of 2011, output of the cluster grew 8.7% compared to 2010.
4. The output of the precision engineering cluster rose by a marginal 0.3% year-on-year in December 2011. Growth of the cluster was supported by the machinery & systems segment, which grew 11.5% as a result of higher demand for semiconductor-related equipment and mechanical engineering works. On the other hand, the precision modules & components segment declined 15.4% as demand for connectors, metal stamping work, and dies, moulds & jigs fell. On a year-to-date basis, the output of the

precision engineering cluster was 14.6% higher compared to the same period a year ago.

5. The general manufacturing cluster's output shrank 1.1% year-on-year in December 2011. Declines in the miscellaneous industries and printing segments were partially offset by output gains in the food, beverages & tobacco segment. Festive season demand for biscuits, soft drinks and confectionery products continued to support growth in the food, beverages & tobacco segment, which rose 9.2%. The miscellaneous industries and printing segments declined 3.8% and 7.8%, respectively. Output of the cluster was 2.7% lower in 2011 compared to 2010.
6. The chemicals cluster's output declined 4.6% year-on-year in December 2011. Output of the specialty chemicals segment posted a gain of 19.2% in December, primarily due to new production capacities that started earlier this year. In contrast, the petroleum segment's output fell 9.7% due to weaker refining margins, while the petrochemicals segment also contracted as a result of maintenance shutdowns. Output of the chemicals cluster grew 3.4% in 2011 compared to 2010.
7. Output of the electronics cluster was 22.8% lower in December 2011 compared to a year ago. The decline was broad-based, due to continued weakness in global electronics demand. For 2011, electronics output declined 13.3%, compared to 2010.
8. The next monthly manufacturing performance media release will be issued on 24 February 2012.

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

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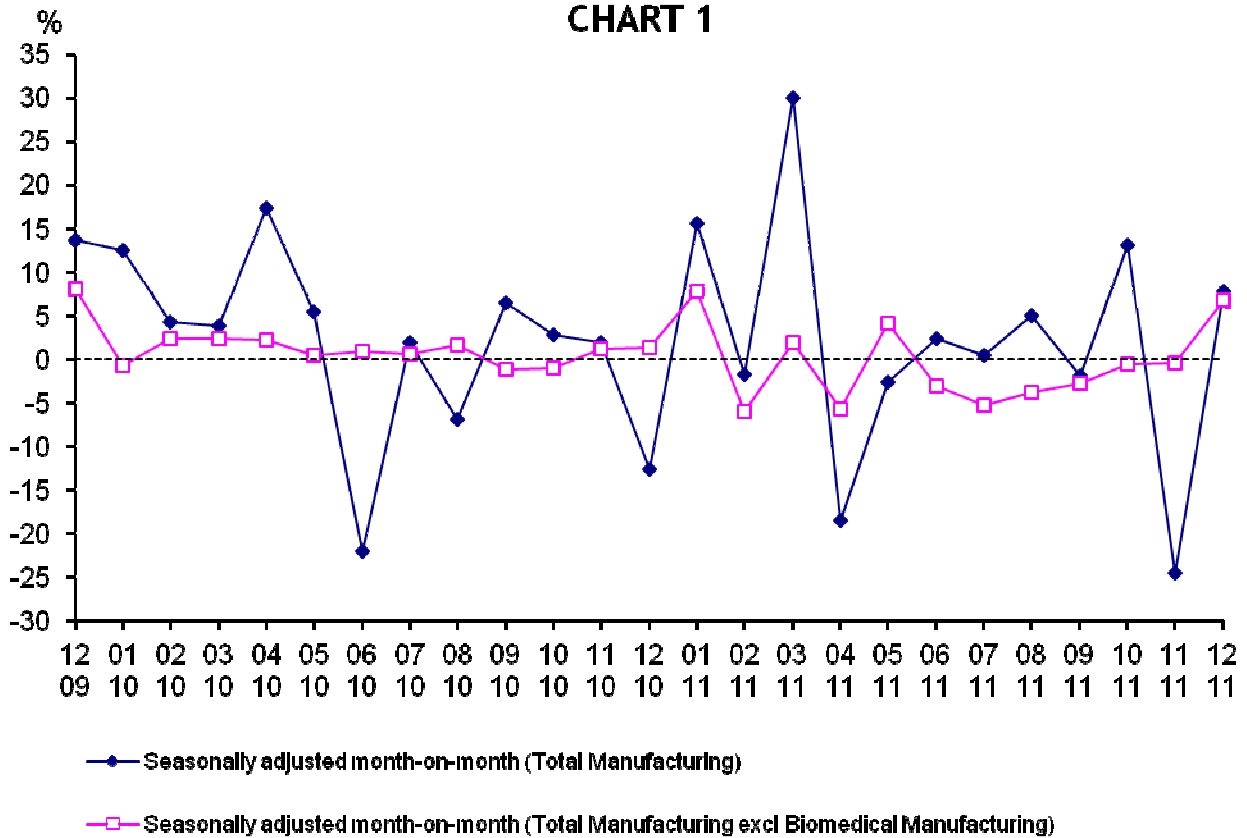
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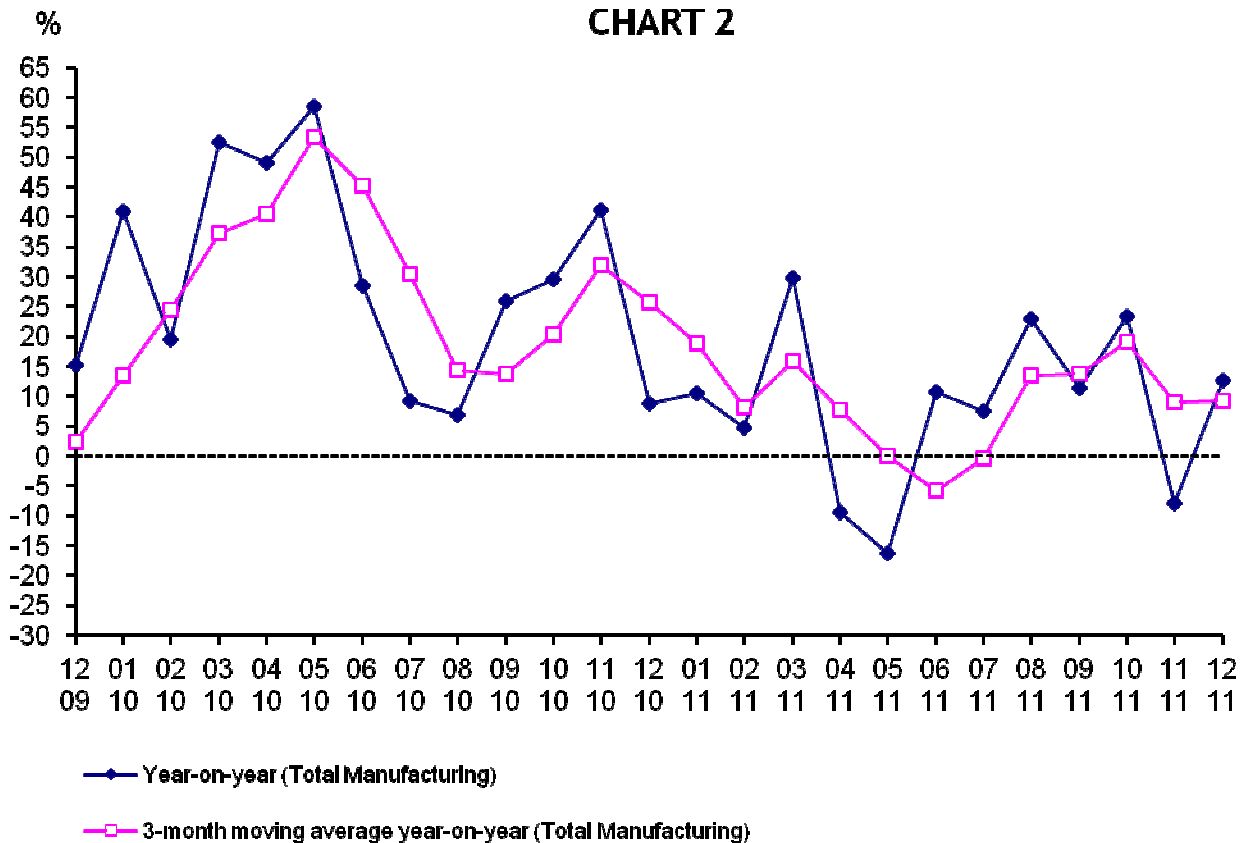
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# GROWTH OF MANUFACTURING SECTOR

## 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
2009 Dec	101.0	15.3	97.3	13.7	101.3	8.1
2010 Jan	105.5	41.0	109.4	12.4	100.6	-0.7
Feb	101.7	19.6	114.1	4.3	103.0	2.4
Mar	120.4	52.4	118.5	3.9	105.4	2.3
Apr	137.9	49.1	139.0	17.3	107.7	2.2
May	142.3	58.6	146.6	5.5	108.1	0.4
Jun	117.6	28.4	114.3	-22.0	109.0	0.8
Jul	120.3	9.3	116.5	1.9	109.6	0.6
Aug	109.7	6.9	108.4	-7.0	111.3	1.6
Sep	121.7	26.0	115.4	6.5	110.0	-1.2
Oct	120.9	29.6	118.6	2.8	108.9	-1.0
Nov	121.3	41.2	120.9	1.9	110.2	1.2
Dec	109.9	8.8	105.6	-12.7	111.7	1.4
2011 Jan	116.6	10.5	122.1	15.6	120.3	7.7
Feb	106.5	4.7	119.9	-1.8	113.0	-6.1
Mar	156.3	29.8	155.9	30.0	115.2	1.9
Apr	125.0	-9.4	127.1	-18.5	108.5	-5.8
May	119.0	-16.4	123.8	-2.6	112.9	4.1
Jun	130.3	10.8	126.6	2.3	109.4	-3.1
Jul	129.4	7.6	127.1	0.4	103.6	-5.3
Aug	134.8	22.9	133.4	5.0	99.6	-3.9
Sep	135.5	11.3	130.7	-2.0	96.8	-2.8
Oct	149.2	23.4	147.7	13.0	96.2	-0.6
Nov	111.6	-8.0	111.5	-24.5	95.7	-0.5
Dec *	123.7	12.6	120.2	7.8	102.1	6.7

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

**TABLE 2: PERFORMANCE BY CLUSTERS**

Industry Cluster	2010 Value Added Share (%)	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Oct 11	Nov 11	Dec 11*	Cum Jan - Dec 11	Oct 11	Nov 11	Dec 11*
<b>Electronics</b>	31.4	-22.5	-30.6	-22.8	-13.3	-24.8	-26.8	-25.3
Semiconductors	20.9	-26.2	-31.7	-31.0	-15.3	-26.5	-29.0	-29.6
Computer Peripherals	3.9	-21.1	-27.6	-7.0	-7.2	-25.9	-23.7	-18.2
Data Storage	3.5	-12.4	-55.8	2.4	-16.2	-15.5	-30.0	-24.2
Infocomms & Consumer Electronics	2.0	10.3	4.3	-4.1	9.9	-13.9	-7.1	2.3
Other Electronic Modules & Components	1.1	-15.8	-7.6	-11.6	-18.8	-23.7	-16.3	-11.7
<b>Biomedical Manufacturing</b>	19.6	111.8	4.9	111.6	31.5	111.9	65.3	69.2
Pharmaceuticals	17.1	116.7	4.9	121.6	32.9	117.9	68.2	72.9
Medical Technology	2.5	17.5	5.7	14.3	6.0	12.9	12.4	12.2
<b>Chemicals</b>	10.7	-10.9	-5.2	-4.6	3.4	-2.3	-3.6	-6.9
Petroleum	2.2	-21.4	-2.8	-9.7	4.6	-0.6	-4.4	-11.2
Petrochemicals	3.5	-18.0	-9.0	-15.0	-5.9	-17.9	-12.1	-14.0
Specialties	4.0	11.6	-1.3	19.2	15.9	18.8	11.1	10.0
Others	1.1	-3.0	-11.7	-7.3	-2.1	-8.4	-9.7	-7.5

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

Industry Cluster	2010 Value Added Share (%)	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Oct 11	Nov 11	Dec 11*	Cum Jan - Dec 11	Oct 11	Nov 11	Dec 11*
<b>Precision Engineering</b>	13.4	-5.8	-2.8	0.3	14.6	-2.4	-5.4	-2.7
Machinery & Systems	7.4	-0.4	2.6	11.5	32.2	4.1	-1.1	4.8
Precision Modules & Components	6.0	-13.3	-10.8	-15.4	-6.9	-11.4	-11.7	-13.2
<b>Transport Engineering</b>	14.7	14.7	17.5	15.1	8.7	9.8	12.6	15.7
Marine & Offshore Engineering	8.6	18.0	19.9	19.2	7.8	14.5	14.7	19.0
Aerospace	5.0	15.7	20.8	13.1	10.6	10.2	15.2	16.3
Land	1.1	-9.0	-6.5	3.2	1.8	-17.8	-11.0	-3.8
<b>General Manufacturing Industries</b>	10.3	-10.5	1.3	-1.1	-2.7	-7.7	-5.0	-3.6
Printing	2.4	-10.1	-6.2	-7.8	-3.4	-3.5	-6.7	-7.9
Food, Beverages & Tobacco	3.3	0.4	7.8	9.2	3.7	1.4	3.7	5.8
Miscellaneous Industries	4.6	-15.3	1.4	-3.8	-5.4	-13.0	-8.4	-6.4
<b>Total Manufacturing</b>	100.0	23.4	-8.0	12.6	7.6	19.1	8.9	9.2
<b>Manufacturing excluding Biomedical Manufacturing</b>	80.4	-12.3	-13.5	-9.0	-2.7	-11.8	-12.9	-11.6

\* Preliminary

**TABLE 3: MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, DECEMBER 2009 TO DECEMBER 2011**

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															
2009	Dec	114.0	135.7	116.3	97.7	46.3	100.0	84.3	81.0	125.8	98.9	85.5	111.9	106.9	91.0
2010	Jan	102.4	127.4	89.5	83.2	35.9	96.9	138.1	142.0	89.0	93.4	77.6	106.5	101.9	94.6
	Feb	93.6	117.0	81.2	78.9	30.7	82.2	150.8	155.4	92.9	83.2	69.3	97.8	89.2	77.8
	Mar	111.9	141.9	88.3	90.7	43.6	92.2	163.4	166.2	128.2	99.0	86.1	108.0	108.9	97.6
	Apr	116.1	157.0	76.3	82.1	35.1	93.2	243.6	255.1	99.4	100.9	84.7	115.7	112.3	89.6
	May	103.1	131.4	87.6	74.4	31.8	104.1	275.7	288.1	119.7	101.2	82.6	119.0	113.3	87.6
	Jun	121.7	160.2	101.3	72.6	44.4	99.6	133.1	134.3	116.8	98.1	78.2	112.1	112.2	98.7
	Jul	121.4	160.2	96.6	83.2	38.4	97.1	139.6	144.3	80.7	102.9	90.6	118.5	106.6	93.7
	Aug	121.9	158.3	107.7	82.1	39.4	95.4	98.2	98.4	95.3	101.1	85.3	119.2	106.4	93.6
	Sep	129.3	172.1	97.1	83.5	52.8	86.4	132.7	136.1	88.9	97.4	80.7	115.7	104.7	88.6
	Oct	118.7	159.0	91.3	80.0	36.3	83.3	151.4	155.3	100.9	102.8	93.6	118.0	105.1	84.0
	Nov	122.0	155.4	107.9	98.1	45.1	78.5	156.8	160.1	115.4	102.4	94.2	116.3	101.4	93.1
	Dec	124.0	156.3	115.4	81.5	60.2	82.5	85.5	83.8	106.6	108.2	101.8	123.4	105.3	90.9
2011	Jan	120.3	155.3	96.8	82.5	59.2	74.1	127.6	130.1	95.2	110.8	94.8	122.5	126.2	97.8
	Feb	99.0	129.7	83.2	49.8	50.3	68.3	142.4	146.5	90.9	99.0	88.4	108.8	109.9	81.2
	Mar	116.3	145.4	114.2	72.5	52.3	90.1	292.9	306.6	121.5	107.3	87.5	112.3	133.6	105.1
	Apr	106.6	138.3	92.9	67.9	41.1	81.0	189.0	195.8	103.4	95.5	75.0	101.8	121.4	92.9
	May	100.5	126.9	96.3	67.3	40.9	74.3	160.7	164.6	111.5	106.1	89.7	115.2	123.3	99.0
	Jun	100.8	123.5	89.4	87.0	45.2	77.6	184.9	190.2	118.9	108.8	97.4	114.0	127.7	88.4
	Jul	99.1	128.7	79.9	68.6	38.1	73.7	205.3	213.6	100.3	108.7	97.6	114.1	125.0	92.6
	Aug	92.0	120.3	71.6	67.7	33.1	67.2	245.9	257.4	100.9	99.8	92.9	87.9	130.1	86.1
	Sep	94.1	122.0	76.0	69.7	37.5	65.0	243.7	255.0	102.5	103.1	91.5	105.1	128.2	76.4
	Oct	92.0	117.3	72.0	70.0	40.0	70.1	320.5	336.6	118.6	91.6	73.6	96.8	117.2	81.5
	Nov	84.7	106.2	78.1	43.3	47.0	72.5	164.5	168.0	121.9	97.1	91.6	105.8	100.1	82.2
	Dec*	95.7	107.8	107.3	83.5	57.7	73.0	180.9	185.7	121.8	103.2	91.9	104.9	125.6	84.3

**TABLE 3: MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, DECEMBER 2009 TO DECEMBER 2011 (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														
2009	Dec	98.1	110.5	87.6	100.9	96.1	93.8	180.4	104.6	88.0	109.0	111.0	101.0	106.0
2010	Jan	84.7	83.2	86.0	87.0	81.1	94.5	83.1	100.5	80.8	108.8	106.7	105.5	95.8
	Feb	75.8	76.8	74.9	86.9	81.8	95.7	69.8	83.2	63.9	93.5	88.2	101.7	87.0
	Mar	113.0	129.8	98.8	97.8	88.5	108.8	97.1	108.0	88.5	112.3	115.9	120.4	107.6
	Apr	98.7	105.4	93.0	91.1	81.3	104.3	79.0	108.1	89.3	103.9	119.7	137.9	106.3
	May	99.1	111.9	88.3	97.1	91.0	102.5	107.1	112.1	87.5	107.0	127.2	142.3	102.5
	Jun	119.3	150.4	93.0	96.7	82.7	111.1	107.8	114.0	81.9	113.5	130.7	117.6	113.0
	Jul	116.1	142.2	93.9	102.5	96.9	111.3	88.3	118.6	86.7	115.4	136.5	120.3	114.5
	Aug	111.6	135.4	91.5	101.2	90.3	110.5	121.6	115.5	80.3	113.3	134.5	109.7	113.1
	Sep	131.3	176.5	92.9	102.1	96.6	105.0	123.8	113.0	85.2	111.7	127.9	121.7	118.4
	Oct	115.5	146.0	89.7	95.5	81.7	109.4	109.5	114.5	92.0	111.8	127.2	120.9	111.8
	Nov	112.1	145.7	83.7	90.5	80.2	94.5	140.5	104.5	92.6	109.7	108.0	121.3	110.7
	Dec	123.7	158.1	94.6	110.6	102.2	116.1	136.3	105.9	87.3	113.3	111.9	109.9	117.2
2011	Jan	119.6	157.8	87.3	94.3	78.7	111.0	103.1	110.4	83.1	123.8	117.6	116.6	113.3
	Feb	97.8	127.0	73.0	90.4	78.5	102.1	103.2	86.2	64.6	88.1	96.1	106.5	95.8
	Mar	132.8	178.4	94.3	106.7	99.3	114.2	114.1	115.1	87.4	118.3	127.5	156.3	115.5
	Apr	126.9	175.2	86.1	98.5	85.1	115.7	88.0	102.4	82.4	107.9	109.7	125.0	105.9
	May	138.6	201.1	85.7	95.1	81.4	110.4	99.5	102.2	82.4	111.7	107.5	119.0	106.5
	Jun	164.0	248.1	92.9	108.6	97.2	121.9	108.1	111.0	81.9	114.9	123.6	130.3	114.0
	Jul	127.9	173.5	89.4	104.3	91.0	119.2	107.5	108.9	83.9	114.9	118.5	129.4	106.7
	Aug	119.3	163.0	82.3	110.0	107.0	116.6	90.3	107.2	83.6	114.3	115.6	134.8	101.6
	Sep	121.8	168.1	82.7	108.6	104.1	115.0	101.6	106.9	82.1	115.2	115.4	135.5	103.2
	Oct	108.8	145.4	77.8	109.6	96.3	126.5	99.6	102.5	82.7	112.2	107.8	149.2	98.0
	Nov	109.0	149.5	74.7	106.3	96.1	114.1	131.4	105.9	86.9	118.3	109.5	111.6	95.8
	Dec *	124.1	176.2	80.0	127.3	121.8	131.4	140.7	104.7	80.5	123.7	107.7	123.7	106.6

\* Preliminary