



Monthly Survey of Manufacturing

January 2004





Statistique Canada Canadä

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January 2004

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Symbols

The following symbols are used in this Statistics Canada publication:

- . not available for any reference period.
- .. not available for a specific reference period.
- ... not applicable.
- x suppressed to meet the confidentiality requirements of the Statistics Act.

Notice to users

Estimates in this publication are subject to revision to accommodate newly received information. It is advisable to always use data from the most recent issue.

In the following tables, some components may not add exactly to the total, because of rounding.

For a complete description of concepts, methodology and definitions, please refer to the "Survey Documentation" section at the end of this publication or consult Statistics Canada's Website at www.statcan.ca/english/sdds/2101.htm.

A note on CANSIM

The data published in Monthly Survey of Manufacturing (Tables 304-0014 and 304-0015) (Catalogue No. 31-001-XIE) are also available in machine-readable form through CANSIM (Canadian Socio-Economic Information Management System). Users interested in accessing data via CANSIM should contact one of Statistics Canada's regional centres at the numbers listed on the inside front cover of this Publication, or contact the Marketing Division, Statistics Canada R.H. Coats Building, Ottawa, Ontario, KIA 0T6 (613) 951-8200.

Acknowledgement

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Highlights

Although shipments edged down 0.2% to \$45.5 billion in January, manufacturers saw some positive signals during the month. New orders rose for the second consecutive month, while inventories increased for the second time in the last nine months.

Thirteen of the 21 manufacturing industries, accounting for 43% of total shipments, reported decreases in January. Although the decline was concentrated in the big-ticket, durable goods sector (-1.2%), this was largely offset by rising industrial prices and higher nondurable goods manufacturing (+1.3%).

Provincial shipments a mixed bag

Provincial movement of shipments was a mixed bag in January, as five provinces and the territories showed lower shipments while the other five provinces reported gains. The largest decline was in New Brunswick, where shipments fell 11.1% (-\$124 million) to \$996 million, following consecutive gains in November and December.

Ontario manufacturers posted a 0.4% (-\$100 million) decline in shipments to \$23.9 billion. Widespread decreases were reported in the computer, fabricated metal products and miscellaneous industries, which offset gains in petroleum and food manufacturing.

Quebec and Alberta led the five provinces reporting higher shipments in January. Increases in Quebec's food and petroleum industries contributed to a 0.8% (+\$84 million) rise in shipments to \$10.8 billion, the highest level since February 2003. Meanwhile, escalating petroleum prices boosted total shipments in Alberta by 1.4% (+\$56 million) to \$3.9 billion.

Canada's Ioonie continues to strengthen

In January, the Canadian dollar continued its ascent against the weakened value of the US greenback. Manufacturers, many of which are reliant on export markets to sell their products, seem to be holding their own in terms of manufacturing activity, despite the higher costs associated with the rising dollar.

The majority of manufacturers remained cautiously optimistic regarding the outlook for the first quarter of 2004. According to the Business Conditions Survey for January, business confidence was improving, as 30% of manufacturers anticipated that they would increase production in the first quarter.

In addition, the rate of capacity utilization in manufacturing surged by 2.1 percentage points, reaching 84.0% in the fourth guarter of 2003. This followed four consecutive guarterly declines.

On the job front, weaknesses in manufacturing have continued in recent months. According to the Labour Force Survey for February, employment was little changed (-12,000) for the third consecutive month.

Shipments by province and territory

Decemb 200	 December 2003 to January
	2004

	Seasonally adjusted						
	9	\$ millions					
Newfoundland and Labrador Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta	259 116 705 1,121 10,727 24,005 1,000 678 3,862	254 112 723 996 10,811 23,905 972 689 3,917	-1.6 -3.1 2.6 -11.1 0.8 -0.4 -2.8 1.6				
British Columbia Yukon, Northwest Territories and Nunavut	3,079	3,095	0.5 -2.8				

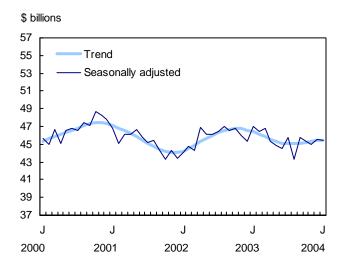
A wide range of manufacturers report lower shipments

Fabricated metal products (-5.2%), computer and electronic products (-6.4%) and miscellaneous (-12.8%) manufacturing were among the majority of industries reporting fewer shipments in January.

Manufacturers of fabricated metal products reported shipments of \$2.5 billion in January, the second decrease in the last three months. Despite the recent declines, the trend for this industry has been positive since the summer of 2003.

Shipments of computer and electronic products fell to \$1.5 billion in January, after a 0.2% decrease in December. The

Manufacturing shipments contract slightly



two consecutive declines follow a period of improved production in the latter half of 2003, and are in sharp contrast to the industry's counterparts in the United States. Computer manufacturing in the United States has been on the rebound throughout 2003 and into 2004.

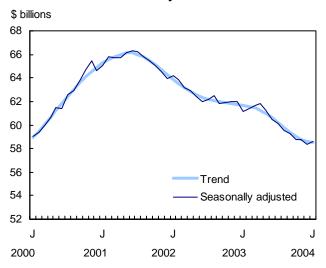
Manufacturers of medical equipment, jewellery and sporting goods contributed a 12.8% drop in miscellaneous manufacturing, wiping out December's 11.0% gain. Shipments stood at \$589 million for the month.

Meanwhile, higher petroleum prices and food shipments generally offset the declines of January. Petroleum prices soared 5.4% during the month. This largely contributed to a 6.5% jump in shipments of petroleum and coal products to \$3.2 billion, a 10-month high. Food manufacturing contributed to a 3.6% rise in shipments to \$5.6 billion.

Higher raw materials boost inventories

Manufacturers' inventories rose 0.5% to \$58.6 billion in January. This is only the second increase in inventories since their recent high of \$61.8 billion in April 2003.

Inventories rise in January



January's increase was primarily concentrated in inventories of raw materials (+1.1%), a sign manufacturers may be stocking up in anticipation of future production. Inventories of goods-in-process (\$13.2 billion) and finished-products (\$20.1 billion) both edged up 0.1%. This marked the first increase of finished-product inventories in nine months.

A number of industries contributed to January's rise in inventories, including primary metals (+2.8%), fabricated metal products (+3.1%) and chemical products (+1.7%).

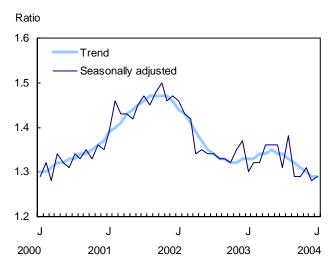
Rising inventories push up the inventory-to-shipments ratio

January's inventory-to-shipments ratio stood at 1.29, marginally up from December's 1.28. Since the spring of 2003, the ratio had been generally moving down, which coincided with manufacturers' recent efforts to reduce inventory levels. The ratio is a key measure of the time that would be required in order to exhaust inventories if shipments were to remain at their current level.

Manufacturers continue to receive new orders

New orders received in January jumped 2.5% to \$46.4 billion, following a healthy gain of 2.1% in December. An indication of future production, new orders are at the highest level since October 2002. The transportation equipment and computer industries were primarily responsible for the increase.

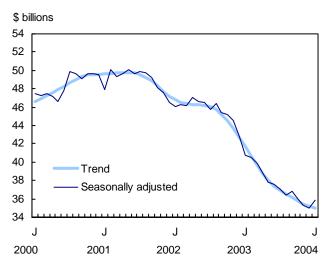
The inventory-to-shipment ratio edges up



Manufacturers' backlog of unfilled orders rose 2.6% to \$35.8 billion in January, the first increase since September. Over the last couple of years, manufacturers have been beset by weaker demand in various industries. More than \$10 billion has been cut from unfilled orders since January 2002 (\$46.0 billion).

New contracts contributed to a 2.3% boost in unfilled orders for the transportation equipment industry. Orders were \$18.3 billion, the highest since October. Computer manufacturers also rebounded in January following a weak fourth quarter of 2003, as unfilled orders jumped 8.0% to \$3.4 billion.

Unfilled orders improve in January



Note to readers

With the January 2004 release, estimates of shipments, inventories and orders have been revised back to January 1999. Although the historical month-to-month movements were preserved, there were adjustments made to the levels of the Monthly Survey of Manufacturing (MSM).

These adjustments were due to several factors: the use of new and revised data; updates to the industrial classification (NAICS); the updating of the seasonal adjustment factors; and most significantly, the benchmarking of the MSM to the 2000 and 2001 Annual Survey of Manufactures levels.

The average level of adjustment for shipments from reference year 1999 to 2003 was +5.5%.

Non-durable goods industries include food, beverage and tobacco products, textile mills, textile product mills, clothing, leather and allied products, paper, printing and related support activities, petroleum and coal products, chemicals and plastic and rubber products.

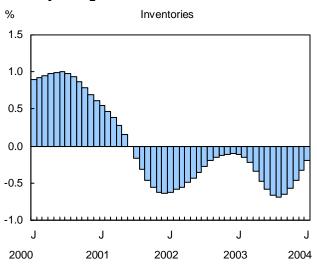
Durable goods industries include wood products, nonmetallic mineral products, primary metals, fabricated metal products, machinery, computer and electronic products, electrical equipment, appliance and components, transportation equipment, furniture and related products and miscellaneous manufacturing.

Unfilled orders are a stock of orders that will contribute to future shipments assuming that the orders are not cancelled.

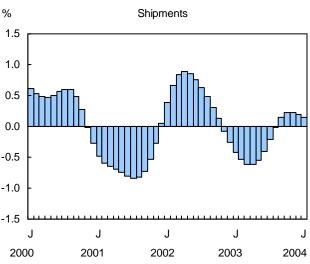
New orders are those received whether shipped in the current month or not. They are measured as the sum of shipments for the current month plus the change in unfilled orders. Some people interpret new orders as orders that will lead to future demand. This is inappropriate since the "new orders" variable includes orders that have already been shipped. Readers should take note that the month-to-month change in new orders may be volatile. This will happen particularly if the previous month's change in unfilled orders is closely related to the current month's change.

Not all orders will be translated into Canadian factory shipments because portions of large contracts can be subcontracted out to manufacturers in other countries.

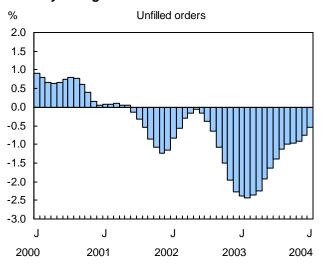
Monthly change in trend



Monthly change in trend



Monthly change in trend



Products and Services

Related Products and Data Sources

- Manufacturing Industries of Canada, 31-203-XPB
- Business Condition Survey, CANSIM (\$) tables 302-0007 and 302-0008
- Perspectives on Labour and Income, 75-001-XIE or 75-001-XPE
- Industrial Product Price Indexes, 62-011-XIE or 62-011-XPB
- Industrial Capacity Utilization Rates CANSIM II table 028-0002

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Schedule of releases	Monthly Survey of Manufacturing
Reference period	Release date
November 2003	January 21, 2004
December 2003	February 13, 2004
January 2004	March 16, 2004
February 2004	April 15, 2004
March 2004	May 14, 2004
April 2004	June 15, 2004
May 2004	July 15, 2004
June 2004	August 13, 2004
July 2004	September 15, 2004
August 2004	October 15, 2004
September 2004	November 15, 2004
October 2004	December 14, 2004

Using the above release dates as a reference, you may view the corresponding highlights (free) from the Daily www.statcan.ca/ english/dai-quo/. Just click on "Previous Issues" on the side menu bar and select the release date of your choice.

To view the MSM survey questionnaire www.statcan.ca/english/sdds/2101.htm

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Table 1
All manufacturing industries

		U	nadjusted						Seaso	nally adju	sted	
Period	Shipments	Invent		nfilled rders	New orders		Shipm	nents	Invento	ories	Unfilled orders	New orders
						\$ millio	ons					
January 2003	44,417	60),955 4	0,455	42,462		47	,018	61,	,142	40,770	44,959
February 2003	43,382	62	2,182 4	0,424	43,352		46	,450	61,	,410	40,559	46,239
March 2003	48,277	62	2,922 3	9,742	47,595		46	,832	61,	,625	39,853	46,126
April 2003	45,978	62	2,694 3	8,560	44,795		45	,287	61,	,789	38,866	44,300
May 2003	47,564	61	,680 3	8,025	47,029		44	,879	61,	,243	37,811	43,824
June 2003	46,387	60),282 3	7,581	45,943		44	,569	60,	,481	37,576	44,335
July 2003	41,706	59	9,485 3	7,357	41,482		45	,735	60,	,129	37,020	45,179
August 2003	43,610	59	9,420 30	6,817	43,069		43	,290	59,	,541	36,433	42,702
September 2003	47,961	58	3,801	7,228	48,372		45	,818	59,	,307	36,838	46,223
October 2003	48,508	58	3,199	6,008	47,288		45	,373	58,	,748	35,984	44,519
November 2003	45,000	58	3,625	5,110	44,102		45	,005	58,	,779	35,263	44,285
December 2003	43,025	57	,245 3 ₄	4,602	42,517		45	,559	58,	,333	34,936	45,232
January 2004	42,308	58	3,379 3	5,558	43,263		45	,483	58,	,632	35,831	46,379
	Mo	Month to month % change			Inventory to				Month to month % change			
	Shipmen	ts	Invento	ories	shipment		nts ratio (Unfilled orders		New or	ders
January 2003 February 2003 March 2003 April 2003 May 2003 July 2003 August 2003 September 2003 October 2003 January 2004 January 2004 January 2003 February 2003 March 2003 April 2003 May 2003 July 2003 July 2003 July 2003 August 2003 September 2003 October 2003	Seasonally adjusted	Trend	Seasonally adjusted	Trend		onally usted	Trend		sonally djusted	Trend	Seasonally adjusted	Trenc
January 2003	3.7	-0.4	-1.3	-0.1		1.30	1.33		-4.8	-2.4	3.2	-0.5
•	-1.2	-0.5	0.4			1.32	1.33		-0.5	-2.4	2.8	-0.6
-	0.8	-0.6	0.4			1.32	1.34		-1.7	-2.4	-0.2	-0.5
	-3.3	-0.6	0.3			1.36	1.34		-2.5	-2.2	-4.0	-0.5
-	-0.9	-0.5	-0.9			1.36	1.35		-2.7	-1.9	-1.1	-0.2
June 2003	-0.7	-0.4	-1.2			1.36	1.34		-0.6	-1.6	1.2	-0.1
July 2003	2.6	-0.2	-0.6	-0.7		1.31	1.34		-1.5	-1.4	1.9	0.0
=	-5.3	0.0	-1.0			1.38	1.33		-1.6	-1.1	-5.5	0.2
September 2003	5.8	0.1	-0.4			1.29	1.32		1.1	-1.0	8.2	0.3
October 2003	-1.0	0.2	-0.9			1.29	1.31		-2.3	-1.0	-3.7	0.3
November 2003	-0.8	0.2	0.1	-0.5		1.31	1.30		-2.0	-0.9	-0.5	0.3
December 2003	1.2	0.2	-0.8	-0.3		1.28	1.29		-0.9	-0.8	2.1	0.3
January 2004	-0.2	0.1	0.5	-0.2		1.29	1.29		2.6	-0.5	2.5	0.3

Table 2 Motor vehicle, and parts and accessories industries

		l	Unadjusted					Seaso	nally adju	ısted		
Period	Shipments	Inven		filled rders	New orders	S	hipments	Invento	ories	Unfilled orders	New orders	
					\$ m	nillions						
January 2003	8,689		3,180 1	,754	8,685		8,777	3	,133	1,726	8,775	
February 2003	8,805		3,214 1	,709	8,760		8,615	3	,155	1,711	8,600	
March 2003	9,594		3,210 1	,665	9,551		8,914	3	,165	1,679	8,883	
April 2003	9,175		3,236 1	,576	9,085		8,527	3	,223	1,645	8,493	
May 2003	9,387		3,223 1	,554	9,365		8,498	3	,189	1,587	8,440	
June 2003	9,004		3,079 1	,548	8,998		8,306	3	,143	1,592	8,311	
July 2003	5,724		3,055 1	,561	5,737		8,911	3	,144	1,575	8,894	
August 2003	7,339		3,005 1	,617	7,395		7,307	3	,033	1,614	7,346	
September 2003	8,696		3,167 1	,649	8,728		8,337	3	,164	1,624	8,347	
October 2003	9,022		3,082 1	,710	9,083		8,286	3	,110	1,680	8,342	
November 2003	8,116		3,166 1	,763	8,168		7,993	3	,089	1,712	8,025	
December 2003	7,139		3,001 1	,798	7,175		8,218	3	,072	1,756	8,262	
January 2004	7,796		3,089 1	,764	7,762		8,200	3	,040	1,730	8,174	
	Mo	Month to month % change				tory to		Moi	Month to month % change			
	Shipmer	nts	Invento	ries	shipme	ents ratio	nts ratio L		Unfilled orders		ders	
June 2003 July 2003 August 2003 September 2003 October 2003 November 2003 December 2004 January 2004 January 2003 February 2003 March 2003 April 2003	Seasonally adjusted	Trend	Seasonally adjusted	Trend	Seasonal adjuste			asonally adjusted	Trend	Seasonally adjusted	Trend	
January 2003	14.0	-0.8	-6.8	0.4	0.3	36 0.3	6	-0.2	-1.4	15.2	-0.9	
	-1.8	-0.8	0.7	0.3	0.3			-0.9	-1.9	-2.0	-0.9	
March 2003	3.5	-0.9	0.3	0.1	0.3			-1.8	-2.1	3.3	-0.9	
April 2003	-4.3	-1.0	1.8	0.0	0.3	38 0.3	7	-2.1	-1.9	-4.4	-0.9	
May 2003	-0.4	-1.0	-1.1	-0.1	0.3		7	-3.5	-1.4	-0.6	-0.9	
June 2003	-2.2	-1.0	-1.5	-0.1	0.3		8	0.3	-0.6	-1.5	-0.8	
July 2003	7.3	-0.8	0.1	-0.2	0.3		8	-1.1	0.2	7.0	-0.7	
August 2003	-18.0	-0.6	-3.5	-0.3	0.4	12 0.3	8	2.5	0.9	-17.4	-0.5	
September 2003	14.1	-0.4	4.3	-0.3	0.3			0.7	1.3	13.6	-0.4	
October 2003	-0.6	-0.3	-1.7	-0.4	0.3	38 0.3	8	3.5	1.4	-0.1	-0.3	
November 2003	-3.5	-0.2	-0.7	-0.4	0.3	39 0.3	8	1.9	1.2	-3.8	-0.2	
December 2003	2.8	-0.2	-0.5	-0.4	0.3			2.6	0.9	3.0	-0.2	
January 2004	-0.2	-0.1	-1.1	-0.4	0.3	37 0.3	8	-1.5	0.5	-1.1	-0.2	
•												

Table 3 All manufacturing industries except motor vehicle, parts and accessories industries

		U	nadjusted						Seaso	nally adju	sted	
Period	Shipments	Invent		filled ders	New orders		Shipm	nents	Invento	ries	Unfilled orders	New orders
						\$ millio	ons					
January 2003	35,728	57	7,775 38	,701	33,777		38	,240	58,	009	39,044	36,184
February 2003	34,577	58	3,967 38	,716	34,592		37	,835	58,	255	38,848	37,639
March 2003	38,684	59	,712 38	,077	38,045		37	,918	58,	460	38,174	37,243
April 2003	36,803	59	,458 36	,984	35,710		36	,760	58,	565	37,221	35,808
May 2003	38,176	58	,457 36	,472	37,664		36	,382	58,	053	36,223	35,383
June 2003	37,383	57	,203 36	,034	36,945		36	,263	57,	338	35,984	36,024
July 2003	35,982	56	,430 35	,796	35,745		36	,823	56,	984	35,446	36,285
August 2003	36,271	56	,416 35	,199	35,674		35	,982	56,	508	34,819	35,356
September 2003	39,265	55	,633 35	,579	39,644		37	,482	56,	143	35,213	37,876
October 2003	39,487	55	,117 34	,298	38,206		37	,087	55,	638	34,303	36,177
November 2003	36,885	55	,460 33	,347	35,934		37	,012	55,	690	33,551	36,260
December 2003	35,886	54	,244 32	,804	35,342		37	,341	55,	261	33,180	36,970
January 2004	34,511	55	,289 33	,794	35,501		37	,283	283 55,592		34,102	38,205
	Mo	Month to month % change				nventory	/ to		Month to month % change			
	Shipmen	ts	Invento	ries	shipments		ts ratio L		Unfilled orders		New orders	
February 2003 March 2003 April 2003 May 2003 June 2003 July 2003 August 2003 Detober 2003 Detober 2003 December 2003 July 2004 July 2003 July 2003 July 2003 July 2003 April 2003 July 20	Seasonally adjusted	Trend	Seasonally adjusted	Trend		onally justed	Trend		sonally djusted	Trend	Seasonally adjusted	Trend
January 2003	1.6	-0.3	-1.0	-0.1		1.52	1.56		-5.0	-2.4	0.7	-0.4
•	-1.1	-0.5	0.4	-0.2		1.54	1.56		-0.5	-2.5	4.0	-0.5
,	0.2	-0.6	0.4	-0.2		1.54	1.57		-1.7	-2.4	-1.1	-0.4
	-3.1	-0.5	0.2	-0.4		1.59	1.57		-2.5	-2.3	-3.9	-0.4
·	-1.0	-0.4	-0.9	-0.5		1.60	1.57		-2.7	-2.0	-1.2	-0.
,	-0.3	-0.3	-1.2	-0.6		1.58	1.56		-0.7	-1.7	1.8	0.0
	1.5	-0.1	-0.6	-0.7		1.55	1.55		-1.5	-1.5	0.7	0.2
-	-2.3	0.1	-0.8	-0.7		1.57	1.54		-1.8	-1.2	-2.6	0.4
September 2003	4.2	0.3	-0.6	-0.7		1.50	1.53		1.1	-1.1	7.1	0.4
October 2003	-1.1	0.3	-0.9	-0.6		1.50	1.51		-2.6	-1.1	-4.5	0.4
November 2003	-0.2	0.3	0.1	-0.5		1.50	1.50		-2.2	-1.0	0.2	0.4
December 2003	0.9	0.3	-0.8	-0.3		1.48	1.49		-1.1	-0.8	2.0	0.4
January 2004	-0.2	0.2	0.6	-0.2		1.49	1.49		2.8	-0.6	3.3	0.4

Table 4 Shipments by major group and selected industries

				Unadjusted	I		
				Curre	ent periods		
	NAICS Code 311 312 313 324 325 326 327 331 332 334 335 336 3361 3362 3363 3363 3363 3363 3364 3365 337 339	January 2004	De	ecember 2003	November 2003		October 2003
				\$ millions			
Food manufacturing		5,014 731		5,412 1,063	5,450 976		5,783 1.013
Beverage and tobacco product manufacturing Textile mills	313	252		248	279		295
Textile product mills Clothing manufacturing		167 485		162 472	183 611		202 689
Leather and allied product manufacturing Wood product manufacturing		44 2,255		53 2,211	63 2.640		82 2,942
Paper manufacturing	322	2,548		2,528	2,625		2,772
Printing and related support activities Petroleum and coal products manufacturing		852 3,171		951 3,006	1,038 2,932		1,028 2,955
Chemical manufacturing	325	3,255		3,285	3,215		3,468
Plastics and rubber products manufacturing Non-metallic mineral product manufacturing		1,804 652		1,759 776	2,048 1,014		2,279 1,229
Primary metal manufacturing Fabricated metal product manufacturing		3,242 2,282		3,222 2,346	3,093 2,650		3,407 2,913
Machinery manufacturing	333	2,000		2,170	2,133		2,275
Computer and electronic product manufacturing Electrical equipment, appliance and component manufacturing		1,356 761		1,910 789	1,696 859		1,532 864
Transportation equipment manufacturing		9,800 5,259		8,933	9,702 5,477		10,840
Motor vehicle manufacturing Motor vehicle body and trailer manufacturing	3362	286		4,818 286	284		6,028 329
Motor vehicle parts manufacturing Aerospace product and parts manufacturing		2,538 1,245		2,322 1,087	2,639 849		2,994 1,098
Railroad rolling stock manufacturing	3365	171		205	216		178
Ship and boat building Furniture and related product manufacturing		90 1,142		95 1,096	82 1,161		82 1,244
Miscellaneous manufacturing	339	496		633	632		697
Non-durable goods industries Durable goods industries		18,323 23,985	23,985 24,087		19,422 25,579		20,566 27,942
Manufacturing			us year	43,025 Year-to-dat	45,000	Annual	48,508
		January	December	% Change		% Change	
		2003	2002	from 2003	2004	from 2002	2003
				\$ millions			
Food manufacturing Beverage and tobacco product manufacturing		4,781 734	5,276 1,049	4.9 -0.4	5,014 731	1.7 3.2	63,439 12,031
Textile mills	313	277	262	-9.3	252	-11.0	3,419
Textile product mills Clothing manufacturing		181 556	181 490	-7.9 -12.7	167 485	-10.4 -6.3	2,297 7,075
Leather and allied product manufacturing Wood product manufacturing	316 321	52 2,355	60 2,236	-16.1 -4.3	44 2,255	-13.8 -3.3	742 31,259
Paper manufacturing	322	2,830	2,765	-10.0	2,548	-3.6	33,201
Printing and related support activities Petroleum and coal products manufacturing	323 324	914 3,323	965 3,211	-6.8 -4.6	852 3,171	-0.7 9.0	11,590 37,355
Chemical manufacturing	325	3,477 1,990	3,259 1,691	-6.4 -9.4	3,255 1,804	3.6 1.0	41,180 24,723
Plastics and rubber products manufacturing Non-metallic mineral product manufacturing	326 327	700	746	-6.8	652	5.3	11,991
Primary metal manufacturing Fabricated metal product manufacturing	331 332	3,331 2,400	3,020 2,137	-2.7 -4.9	3,242 2,282	2.4 0.4	37,662 31,030
Machinery manufacturing	333	2,015	2,176	-0.7	2,000	-2.9	25,593
Computer and electronic product manufacturing Electrical equipment, appliance and component manufacturing	334 335	1,411 788	1,850 764	-3.9 -3.5	1,356 761	-13.1 -5.7	18,795 9,980
Transportation equipment manufacturing Motor vehicle manufacturing	336 3361	10,621 5,989	8,276 4,465	-7.7 -12.2	9,800 5,259	-3.8 -6.4	120,960 69,258
Motor vehicle body and trailer manufacturing	3362	306	288	-6.4	286	0.1	3,695
Motor vehicle parts manufacturing Aerospace product and parts manufacturing	3363 3364	2,700 1,091	2,091 1,035	-6.0 14.1	2,538 1,245	-0.1 1.5	31,433 11,589
Railroad rolling stock manufacturing Ship and boat building	3365 3366	286 78	190 62	-40.2 15.6	171 90	-7.4 -5.4	2,378 1,101
Sinp and boat building Furniture and related product manufacturing Miscellaneous manufacturing	337 339	1,133 547	1,043 606	0.7 -9.4	1,142 496	-5.4 1.3 3.0	1,101 14,039 7,456
Non-durable goods industries	555	19,116	19,208	-4.1	18,323	1.5	237,051
Durable goods industries Manufacturing		25,301 44,417	22,853 42,061	-5.2 -4.7	23,985 42,308	-2.6 -0.8	308,764 545,816

Table 4 Shipments by major group and selected industries - concluded

Table 5 Inventories by major group and selected industries

				Unadjuste	d		
				Curr	ent periods		
	NAICS Code	January 2004	С	ecember 2003	November 2003		October 2003
				\$ millions	3		
Food manufacturing Beverage and tobacco product manufacturing Textile mills Textile product mills Clothing manufacturing Leather and allied product manufacturing Wood product manufacturing	311 312 313 314 315 316 321	4,565 1,607 468 346 1,342 116 4,464		4,530 1,546 472 341 1,334 117 4,178	4,736 1,639 484 355 1,340 118 3,953		4,716 1,618 499 358 1,406 126 3,930
Paper manufacturing Printing and related support activities Petroleum and coal products manufacturing Chemical manufacturing Plastics and rubber products manufacturing Non-metallic mineral product manufacturing	322 323 324 325 326 327	3,503 852 1,996 6,018 2,283 1,157		3,488 849 1,840 5,759 2,209 1,102	3,549 864 1,900 5,728 2,233 1,090		3,521 866 1,891 5,561 2,229 1,062
Primary metal manufacturing Fabricated metal product manufacturing Machinery manufacturing Computer and electronic product manufacturing Electrical equipment, appliance and component manufacturing Transportation equipment manufacturing Motor vehicle manufacturing Motor vehicle body and trailer manufacturing	331 332 333 334 335 336 3361 3362	4,704 3,538 4,477 4,230 1,778 8,542 1,277 408		4,668 3,391 4,420 4,095 1,721 8,864 1,183 414 1,818	4,766 3,474 4,539 4,309 1,800 9,370 1,258 456		4,686 3,504 4,526 4,305 1,806 9,210 1,254 443
Motor vehicle parts manufacturing Aerospace product and parts manufacturing Railroad rolling stock manufacturing Ship and boat building Furniture and related product manufacturing Miscellaneous manufacturing	3363 3364 3365 3366 337 339	1,812 4,028 746 131 1,189 1,201		1,818 4,397 740 128 1,181 1,138	1,908 4,668 774 137 1,196 1,183		1,828 4,585 795 131 1,202 1,175
Non-durable goods industries Durable goods industries Manufacturing		23,097 35,281 58,379		22,486 34,759 57,245	22,947 35,679 58,625		22,792 35,407 58,199
		Previo	us year	Year-to-da	te	Annual	
		January 2003	December 2002	% Change from 2003	Average 2004	% Change from 2002	2003
				\$ millions	3		
Food manufacturing Beverage and tobacco product manufacturing Textile mills Textile product mills Clothing manufacturing Leather and allied product manufacturing Wood product manufacturing Paper manufacturing Printing and related support activities Petroleum and coal products manufacturing Chemical manufacturing Plastics and rubber products manufacturing Non-metallic mineral product manufacturing Primary metal manufacturing Fabricated metal product manufacturing Machinery manufacturing Computer and electronic product manufacturing Electrical equipment, appliance and component manufacturing Transportation equipment manufacturing Motor vehicle manufacturing Motor vehicle body and trailer manufacturing Motor vehicle parts manufacturing Aerospace product and parts manufacturing Railroad rolling stock manufacturing Ship and boat building Furniture and related product manufacturing Miscellaneous manufacturing	311 312 313 314 315 316 321 322 323 324 325 326 327 331 332 333 334 335 336 3363 3364 3363 3363 336	4,564 1,636 529 360 1,429 132 4,849 3,549 822 2,013 5,325 2,263 1,134 5,100 3,684 4,579 4,667 1,895 9,951 1,318 463 1,862 5,089 930 147 1,244 1,231	4,545 1,547 517 365 1,400 129 4,466 3,509 843 1,882 5,291 2,247 1,106 5,156 3,543 4,495 4,589 1,904 10,968 1,433 444 1,841 5,932 997 148 1,229 1,181	0.0 -1.8 -11.5 -3.8 -6.1 -12.6 -7.9 -1.3 3.8 -0.8 13.0 0.9 2.1 -7.8 -4.0 -2.2 -9.4 -6.2 -14.2 -3.1 -11.9 -2.7 -20.8 -19.7 -10.7 -4.4 -2.4	4,565 1,607 468 346 1,342 116 4,464 3,503 852 1,996 6,018 2,283 1,157 4,704 3,538 4,477 4,230 1,778 8,542 1,277 408 1,812 4,028 746 131 1,189 1,201	0.2 2.7 -8.1 -4.4 1.0 -9.8 -0.9 -1.1 -2.4 0.8 9.3 4.4 -0.1 -1.4 1.3 -3.1 -11.1 -2.8 -17.9 -8.6 12.3 13.1 -30.5 -7.5 -1.8 2.7 3.2	4,565 1,650 519 365 1,451 141 4,534 3,589 870 2,009 5,653 2,278 1,126 4,902 3,676 4,525 4,406 1,870 9,637 1,288 466 1,874 4,874 876 1,29 1,238 1,206
Non-durable goods industries Durable goods industries Manufacturing		22,622 38,333 60,955	22,275 38,638 60,913	2.1 -8.0 -4.2	23,097 35,281 58,379	2.3 -7.1 -3.7	23,087 37,120 60,207

Table 5
Inventories by major group and selected industries - concluded

Table 6 Unfilled orders by selected major group and industries

	_			Seasonally adj	usted		
				Curr	ent periods		
	NAICS Code	January 2004	D	December 2003	November 2003		October 2003
				\$	millions		
Textile mills	313	219		208	206		211
Textile product mills	314	82		74	83		85
Clothing manufacturing	315	168		158	165		170
Leather and allied product manufacturing	316	23		25	25		24 378
Plastics and rubber products manufacturing	326	353 1,736		335 1,706	373 1,758		1,758
Primary metal manufacturing	331 332	3,502		3,467	3,481		3,571
Fabricated metal product manufacturing Machinery manufacturing	332	4,470		4,365	4,295		4,290
Computer and electronic product manufacturing	334	3,437		3,184	3,269		3,363
Electrical equipment, appliance and component manufacturing	335	860		830	878		866
Transportation equipment manufacturing	336	18,163		17,837	18,047		18,513
Motor vehicle manufacturing	3361	595		593	554		564
Motor vehicle body and trailer manufacturing	3362	375		377	393		405
Motor vehicle parts manufacturing	3363	1,169		1,205	1,209		1,146
Aerospace product and parts manufacturing	3364	11,588		11,440	11,411		11,863
Ship and boat building	3366	57		62	76		78
Miscellaneous manufacturing	339	157		158	160		185
Non-durable goods industries		1,840		1,742	1,872		2,015
Durable goods industries Manufacturing		33,718 35,558		32,860 34,602	33,238 35,110		33,993 36,008
	-	Previous year		Year-to-da	ate	Average per	month
	_	January 2003	December 2002	% Change from 2003	Average 2004	% Change from 2002	2003
	-			\$ millions	;		
Textile mills	313	276	273	-20.6	219	-20.6	233
Textile product mills	314	100	81	-18.2	82	6.6	86
Clothing manufacturing	315	175	166	-4.1	168	3.6	199
Leather and allied product manufacturing	316	20	20	15.5	23	-2.2	28
Plastics and rubber products manufacturing	326	388	392	-9.0	353	1.9	366
Primary metal manufacturing	331	1,806	1,789	-3.8	1,736	-2.8	1,757
Fabricated metal product manufacturing	332	3,485	3,400	0.5	3,502	-1.8	3,521
Machinery manufacturing	333	4,537	4,588	-1.5	4,470	-14.3	4,392
Computer and electronic product manufacturing	334	3,862 973	3,798 957	-11.0 -11.6	3,437 860	-5.5 -3.3	3,484 903
Electrical equipment, appliance and component manufacturing	335 336	22,447	24,684	-11.0	18,163	-3.3 -26.7	20,061
Transportation equipment manufacturing Motor vehicle manufacturing	3361	633	678	-6.0	595	-25.2	566
Motor vehicle body and trailer manufacturing	3362	492	434	-23.9	375	-1.6	430
Motor vehicle parts manufacturing	3363	1,121	1,080	4.3	1,169	25.4	1,093
Aerospace product and parts manufacturing	3364	15,360	17,435	-24.6	11,588	-34.2	13,156
Ship and boat building	3366	35	31	63.3	57	228.9	82
Miscellaneous manufacturing	339	162	155	-3.0	157	-13.4	162
Non-durable goods industries		1,984	1,863	-7.3	1,840	7.2	2,029
Durable goods industries		38,470	40,547	-12.4	33,718 35,558	-18.7	35,630
Manufacturing		40,455	42,409	-12.1	ან,მეგ	-17.7	37,659

Table 6
Unfilled orders by selected major group and industries - concluded

					Unadjusted			
				С	urrent periods			
	NAICS Code	Change from December	Ja	anuary 2004	December 2003	No	vember 2003	October 2003
					\$ millions			
Textile mills	313	-1		217	217		219	220
Textile product mills	314	-1		83	83		86	86
Clothing manufacturing	315	-2		182	184		189	192
Leather and allied product manufacturing	316	-1		32	33		31	29
Plastics and rubber products manufacturing	326	-1		357	357		366	355
Primary metal manufacturing	331	-15		1,753	1,768		1,819	1,849
Fabricated metal product manufacturing	332	35		3,502	3,467		3,481	3,571
Machinery manufacturing	333	105		4,470	4,365		4,295	4,290
Computer and electronic product manufacturing	334	254		3,437	3,184		3,269	3,363
Electrical equipment, appliance and component manufacturing	335	30		860	830		878	866
Transportation equipment manufacturing	336	406	1	18,336	17,930		18,047	18,426
Motor vehicle manufacturing	3361	2		595	593		554	564
Motor vehicle body and trailer manufacturing	3362	-16		368	385		404	419
Motor vehicle parts manufacturing	3363	-29		1,135	1,164		1,159	1,116
Aerospace product and parts manufacturing	3364	235	1	11,792	11,557		11,447	11,794
Ship and boat building	3366	-6		67	72		79	76
Miscellaneous manufacturing	339	-7		161	168		162	168
Non-durable goods industries		49		1,682	1,633		1,721	1,838
Durable goods industries Manufacturing		846 895		34,149 35,831	33,303 34,936		33,542 35,263	34,146 35,984
		Chang	e from previou	us month	Trei	nd change fro	m previous mo	nth
		January	December	November	January	December	November	October
		2004	2003	2003	2004	2003	2003	2003
					\$ millions			
Textile mills	313	-0.4	-0.6	-0.5	0.6	0.2	-0.1	-0.4
Textile product mills	314	-1.1	-2.6	-0.9	0.6	0.6	0.6	0.4
Clothing manufacturing	315	-1.3	-2.8	-1.5	-1.2	-1.4	-1.6	-1.7
Leather and allied product manufacturing	316	-3.1	5.8	4.9	1.3	2.3	3.3	3.9
Plastics and rubber products manufacturing	326	-0.2	-2.3	3.1	-0.3	-0.2	0.0	0.1
Primary metal manufacturing	331	-0.8	-2.8	-1.6	-0.2	0.1	0.5	0.9
Fabricated metal product manufacturing	332	1.0	-0.4	-2.5	0.3	0.2	-0.1	-0.2
Machinery manufacturing	333	2.4	1.6	0.1	0.3	0.3	0.3	0.4
Computer and electronic product manufacturing	334	8.0	-2.6	-2.8	-0.2	-0.3	-0.4	-0.5
Electrical equipment, appliance and component manufacturing	335	3.6	-5.5	1.4	0.0	-0.3	-0.5	-0.8
Transportation equipment manufacturing	336	2.3	-0.6	-2.1	-1.0	-1.3	-1.5	-1.7
Motor vehicle manufacturing	3361	0.4	7.1	-1.8	0.9	1.4	1.7	1.8
Motor vehicle body and trailer manufacturing	3362	-4.3	-4.8	-3.5	-2.2	-2.3	-2.1	-1.8
Motor vehicle parts manufacturing	3363	-2.5	0.4	3.8	0.3	0.6	1.0	1.2
Aerospace product and parts manufacturing	3364	2.0	1.0	-2.9	-1.4	-1.7	-2.0	-2.2
Ship and boat building Miscellaneous manufacturing	3366 339	-7.7 -3.9	-8.1 3.7	3.3 -3.5	-4.4 -0.8	-4.9 -0.7	-5.2 -0.3	-5.1 0.4
· ·		3.0	-5.1	-6.4	-1.5	-2.5	-2.8	-1.9
Non-durable goods industries Durable goods industries		3.0 2.5	-0.7	-0.4 -1.8	-1.5 -0.5	-2.5 -0.7	-2.0 -0.8	-0.9
Manufacturing		2.6	-0.9	-2.0	-0.5	-0.8	-0.9	-1.0

Table 7 New orders by selected major group and industries

	_			Seasonally	adjusted		
				(Current periods		
	NAICS Code	January 2004	D	ecember 2003	November 2003		October 2003
					\$ millions		
Textile mills	313	262		250	275		288
Textile product mills	314	175		153	180		211
Clothing manufacturing	315	495		464	607		675
Leather and allied product manufacturing	316	42		53	65		82
Plastics and rubber products manufacturing	326	1,821		1,722	2,043		2,269
Primary metal manufacturing	331	3,273		3,169	3,092		3,428
Fabricated metal product manufacturing	332	2,318		2,332	2,560		2,909
Machinery manufacturing	333	2,105		2,239	2,138		2,201
Computer and electronic product manufacturing	334	1,610		1,824	1,603		1,369
Electrical equipment, appliance and component manufacturing	335	790		741 8,723	871 9,235		868 9,957
Transportation equipment manufacturing	336	10,125 5,261		4,857	5,467		6,053
Motor vehicle manufacturing Motor vehicle body and trailer manufacturing	3361	284		270	272		327
,	3362 3363	2,501		2,318	2,701		3,029
Motor vehicle parts manufacturing Aerospace product and parts manufacturing	3364	1,393		1,116	396		366
Ship and boat building	3366	85		81	80		71
Miscellaneous manufacturing	339	494		631	607		686
Non-durable goods industries Durable goods industries		18,420 24,843		18,808 23,708	19,278 24,824		20,423 26,865
Juranie goods industries Manufacturing		43,263		42,517	44,102		47,288
		Previo	us year	year Year-to-da		Average per	r month
		January 2003	December 2002	% Chang from 200		% Change from 2002	2003
	-			\$ mill	ions		
Textile mills	313	280	252	-6.	3 262	-13.7	3,354
Textile product mills	314	200	180	-12.	5 175	-11.2	2,289
Clothing manufacturing	315	565	492	-12.	3 495	-6.4	7,067
Leather and allied product manufacturing	316	52	59	-18.		-12.7	746
Plastics and rubber products manufacturing	326	1,986	1,690	-8.		0.1	24,666
Primary metal manufacturing	331	3,347	2,984	-2.		1.0	37,579
Fabricated metal product manufacturing	332	2,485	1,957	-6.		0.7	31,097
Machinery manufacturing	333	1,964	2,010	7.		-0.6	25,370
Computer and electronic product manufacturing	334	1,475	1,782	9.		-17.1	18,180
Electrical equipment, appliance and component manufacturing	335	803	762	-1.		-6.6	9,852
Transportation equipment manufacturing	336	8,384	6,918	20.	,	-6.4	114,114
Motor vehicle manufacturing	3361	5,944	4,441	-11.		-6.5	69,172
Motor vehicle body and trailer manufacturing	3362	364	296	-21.		-2.2	3,638
Motor vehicle parts manufacturing	3363	2,741	2,028 223	-8. -241.		-1.0 -18.2	31,558 5,594
Aerospace product and parts manufacturing Ship and boat building	3364 3366	-984 82	65	-241. 3.		-18.2	1,132
Miscellaneous manufacturing	3366	554	592	-10.		3.6	7,459
Non-durable goods industries		19,237	19,090	-4.		1.4	236,931
Durable goods industries Manufacturing		23,225 42,462	21,001 40,091	7. 1.		-3.8 -1.6	301,077 538,008

Table 7 New orders by selected major group and industries - concluded

				Unadjusted		
				Current periods		
	NAICS Code	Change from December	January 2004	December 2003 \$ millions	November 2003	October 2003
Textile mills Textile product mills Clothing manufacturing Leather and allied product manufacturing Plastics and rubber products manufacturing Primary metal manufacturing Fabricated metal product manufacturing Machinery manufacturing Computer and electronic product manufacturing Electrical equipment, appliance and component manufacturing Transportation equipment manufacturing Motor vehicle manufacturing	313	-7	274	281	276	273
	314	8	186	178	184	193
	315	-19	562	581	570	564
	316	-11	56	67	58	62
	326	-40	2,036	2,076	2,083	2,048
	331	3	3,222	3,219	3,148	3,301
	332	-88	2,546	2,634	2,504	2,631
	333	79	2,257	2,179	2,171	2,084
	334	234	1,797	1,562	1,558	1,392
	335	64	860	796	860	828
	336	585	10,426	9,841	9,168	9,461
	3361	22	5,581	5,559	5,336	5,585
Motor vehicle body and trailer manufacturing	3362	-5	286	291	279	302
Motor vehicle parts manufacturing	3363	-110	2,593	2,702	2,689	2,757
Aerospace product and parts manufacturing	3364	168	1,263	1,095	461	621
Ship and boat building	3366	-8	96	103	97	80
Miscellaneous manufacturing	339	-99	582	681	602	612
Non-durable goods industries		382	19,302	18,920	18,819	18,731
Durable goods industries		765	27,077	26,312	25,466	25,788
Manufacturing		1,147	46,379	45,232	44,285	44,519

	_	Change from previous month			Tre	nd change froi	m previous moi	nth
		January 2004	December 2003	November 2003	January 2004	December 2003	November 2003	October 2003
					\$ millions			
Textile mills	313	-2.4	1.8	1.1	0.1	0.1	0.1	0.2
Textile product mills	314	4.7	-3.1	-5.1	0.0	-0.3	-0.6	-0.6
Clothing manufacturing	315	-3.3	1.9	1.0	0.2	0.1	-0.1	-0.3
Leather and allied product manufacturing	316	-16.6	16.4	-7.1	-1.0	-0.7	-0.3	0.1
Plastics and rubber products manufacturing	326	-1.9	-0.3	1.7	-0.3	-0.2	0.0	0.2
Primary metal manufacturing	331	0.1	2.3	-4.6	0.4	0.6	0.9	1.1
Fabricated metal product manufacturing	332	-3.3	5.2	-4.8	0.5	0.8	0.7	0.6
Machinery manufacturing	333	3.6	0.3	4.2	-0.2	-0.1	0.0	0.4
Computer and electronic product manufacturing	334	15.0	0.3	11.9	0.1	0.6	1.3	2.2
Electrical equipment, appliance and component manufacturing	335	8.1	-7.5	3.8	0.2	0.3	0.5	0.7
Transportation equipment manufacturing	336	5.9	7.3	-3.1	0.6	0.5	0.3	0.2
Motor vehicle manufacturing	3361	0.4	4.2	-4.5	-0.1	-0.3	-0.5	-0.7
Motor vehicle body and trailer manufacturing	3362	-1.7	4.2	-7.7	0.1	-0.3	-0.6	-0.8
Motor vehicle parts manufacturing	3363	-4.1	0.5	-2.5	-0.3	-0.1	0.2	0.5
Aerospace product and parts manufacturing	3364	15.3	137.6	-25.8	5.5	4.9	4.6	5.4
Ship and boat building	3366	-7.4	6.6	21.2	2.7	3.1	3.0	1.6
Miscellaneous manufacturing	339	-14.6	13.1	-1.5	-0.9	-0.8	-0.7	-0.4
Non-durable goods industries		2.0	0.5	0.5	0.4	0.3	0.1	0.0
Durable goods industries		2.9	3.3	-1.2	0.3	0.3	0.4	0.5
Manufacturing		2.5	2.1	-0.5	0.3	0.3	0.3	0.3

Table 8a Shipments for selected industries, unadjusted

			Current p	eriods	
	NAICS Code	January 2004	December 2003	November 2003	October 2003
			\$ milli	ons	
Food manufacturing	311				
Animal food manufacturing	3111	434	442	430	468
Starch and vegetable fat and oil manufacturing	31122	268	278	276	294
Sugar and confectionery product manufacturing	3113	262	320	339	390
Fruit and vegetable preserving and specialty food manufacturing	3114	516	526	519	547
Dairy product manufacturing	3115	872	940	930	965
Meat product manufacturing Cookie, cracker and pasta manufacturing	3116 31182	1,464 125	1,472 131	1,503 139	1,523 154
Other food manufacturing	3119	357	438	433	456
Beverage and tobacco product manufacturing	312				
Soft drink and ice manufacturing	31211	189	295	234	259
Breweries	31212	237	391	300	330
Wineries	31213	45	62	70	67
Distilleries	31214	42	57	77	80
Tobacco manufacturing	3122	218	259	294	276
Textile mills	313				
Fibre, yarn and thread mills	3131	41	40	43	48
Fabric mills	3132	156	158	177	186
Textile and fabric finishing and fabric coating Textile product mills	3133 314	54	50	60	62
Carpet and rug mills	31411	56	59	65	70
Textile bag and canvas mills	31491	15	15	19	23
Clothing manufacturing	315				
Hosiery and sock mills	31511	36	40	52	50
Other clothing knitting mills	31519	40	47	64	65
Men's and boys' cut and sew clothing manufacturing	31522	143	153	205	206
Women's and girls' cut and sew clothing manufacturing	31523	152	134	181	231
Clothing accessories and other clothing manufacturing	3159	21	21	24	32
Leather and allied product manufacturing Footwear manufacturing	316 3162	23	24	35	53
·	321	20		00	
Wood product manufacturing Sawmills and wood preservation	321	1,078	1,012	1,140	1,317
Veneer, plywood and engineered wood product manufacturing	3212	619	617	796	873
Other wood product manufacturing	3219	558	582	704	752
Paper manufacturing	322				
Pulp, paper and paperboard mills	3221	1,750	1,756	1,777	1,842
Paperboard container manufacturing	32221	400	395	445	476
Paper bag and coated and treated paper manufacturing	32222	224	210	232	270
Other converted paper product manufacturing	32229	135	127	130	140
Printing and related support activities	323	700	200	007	0.57
Printing Support activities for printing	32311 32312	793 59	889 61	967 72	957 71
		39	01	12	/ 1
Petroleum and coal products manufacturing Petroleum refineries	324 32411	2,985	2,824	2,710	2,685
	325	2,000	2,02 .	_,	2,000
Chemical manufacturing Other basic inorganic chemical manufacturing	32518	258	255	252	256
Other basic organic chemical manufacturing	32519	269	289	281	277
Resin, synthetic rubber, and artificial and synthetic fibres and					
filaments manufacturing	3252	594	603	577	614
Pesticide and other agricultural chemical manufacturing	32532	45	9	6	6
Pharmaceutical and medicine manufacturing	3254	719	775	704	706
Paint and coating manufacturing	32551	138	136	156	176
Adhesive manufacturing Soap and cleaning compound manufacturing	32552 32561	58 120	51 121	57 118	70 122
Toilet preparation manufacturing	32562	100	109	101	118
TOTAL PROPERTION INCHINICULATING					
Printing ink manufacturing	32591	38	36	41	45

Table 8a Shipments for selected industries, unadjusted - continued

			Current p	eriods	
	NAICS Code	January 2004	December 2003	November 2003	October 2003
			\$ milli	ons	
Plastics and rubber products manufacturing	326				
Plastic pipe, pipe fitting and unsupported profile shape manufacturing	32612	110	106	138	173
Polystyrene foam product manufacturing	32614	37	41	49	54
Other plastic product manufacturing	32619	825	834	1,003	1,113
Other rubber product manufacturing	32629	138	130	140	170
Non-metallic mineral product manufacturing	327	40	40		
Clay product and refractory manufacturing	3271	42	48	60	60
Glass and glass product manufacturing	3272 32731	146 58	128 84	173 125	195 169
Cement manufacturing Ready-mix concrete manufacturing	32732	109	162	238	316
Other concrete product manufacturing	32739	54	89	119	132
Abrasive product manufacturing	32791	18	19	20	21
All other non-metallic mineral product manufacturing	32799	124	136	146	175
Primary metal manufacturing	331				
Iron and steel mills and ferro-alloy manufacturing Iron and steel pipes and tubes manufacturing from	3311	835	753	817	878
purchased steel	33121	295	243	260	283
Foundries	3315	263	257	264	305
Fabricated metal product manufacturing	332				
Cutlery and hand tool manufacturing	3322	49	46	52	52
Plate work and fabricated structural product manufacturing	33231	333	410	436	484
Power boiler and heat exchanger manufacturing	33241	78	79	116	109
Spring and wire product manufacturing	3326	114	102	118	130
Coating, engraving, heat treating and allied activities	3328	235	224	250	282
Other fabricated metal product manufacturing	3329	247	241	277	306
Machinery manufacturing	333	474	450		450
Agricultural implement manufacturing Ventilation, heating, air-conditioning and commercial	33311	171	159	141	150
refrigeration equipment manufacturing	3334	195	192	227	252
All other general-purpose machinery manufacturing	33399	174	182	194	257
Computer and electronic product manufacturing	334				
Computer and peripheral equipment manufacturing	3341	175	322	258	210
Communications equipment manufacturing	3342	412	722	544	471
Audio and video equipment manufacturing	3343	14	20	20	19
Electrical equipment, appliance and component manufacturing	335				
Lighting fixture manufacturing	33512	66	70	83	90
Small electrical appliance manufacturing	33521	25	21	27	26
Major appliance manufacturing Battery manufacturing	33522 33591	135 18	119 17	149 21	154 19
Communication and energy wire and cable manufacturing	33592	163	168	193	195
All other electrical equipment and component manufacturing	33599	40	39	37	35
Transportation equipment manufacturing	336				
Motor vehicle manufacturing	3361	5,259	4,818	5,477	6,028
Motor vehicle parts manufacturing	3363	2,538	2,322	2,639	2,994
Aerospace product and parts manufacturing	3364	1,245	1,087	849	1,098
Railroad rolling stock manufacturing Ship and boat building	3365 3366	171 90	205 95	216 82	178 82
Furniture and related product manufacturing	337			32	32
Household and institutional furniture and kitchen cabinet manufacturing	3371	650	627	645	704
Office furniture (including fixtures) manufacturing	3372	406	388	424	438
Miscellaneous manufacturing	339	100	000	121	.00
Medical equipment and supplies manufacturing	3391	174	198	192	202
Other miscellaneous manufacturing	3399	321	435	440	495

Table 8a Shipments for selected industries, unadjusted - continued

		Previo	us year	Year-to-d	ate	Annual	
	NAICS Code	January 2003	December 2002	% Change from 2003	2004	% Change from 2002	2003
				\$ millior	ıs		
Food manufacturing	311						
Animal food manufacturing	3111	439	440	-1.0	434	-1.8	5,102
Starch and vegetable fat and oil manufacturing	31122	230	234	16.9	268	11.4	3,117
Sugar and confectionery product manufacturing	3113	243	318	7.7	262	10.0	3,764
Fruit and vegetable preserving and specialty food manufacturing	3114	488	512	5.8	516	-0.9	5,975
Dairy product manufacturing	3115	808	851	7.9	872	9.8	10,958
Meat product manufacturing	3116	1,391	1,547	5.3	1,464	-3.9	17,026
Cookie, cracker and pasta manufacturing Other food manufacturing	31182 3119	119 344	135 406	4.9 3.9	125 357	-2.1 4.1	1,578 4,937
·	312	011	100	0.0	007		1,007
Beverage and tobacco product manufacturing Soft drink and ice manufacturing	31211	193	256	-1.9	189	12.7	3,336
Breweries	31211	210	347	12.9	237	1.0	3,858
Wineries	31213	38	69	17.7	45	-2.6	706
Distilleries	31214	65	82	-35.3	42	-18.1	831
Tobacco manufacturing	3122	228	295	-4.5	218	5.1	3,301
Textile mills	313						
Fibre, yarn and thread mills	3131	44	40	-5.4	41	-12.6	547
Fabric mills	3132	179	168	-12.7	156	-10.7	2,177
Textile and fabric finishing and fabric coating	3133	54	55	-0.9	54	-10.8	694
Textile product mills	314						
Carpet and rug mills	31411	68	66	-17.5	56	-8.6	824
Textile bag and canvas mills	31491	16	22	-5.7	15	-30.9	267
Clothing manufacturing	315						
Hosiery and sock mills	31511	42	41	-13.7	36	-5.1	511
Other clothing knitting mills	31519	42	46	-5.1	40	-0.4	587
Men's and boys' cut and sew clothing manufacturing	31522	170	163	-15.8	143	-4.4	2,083
Women's and girls' cut and sew clothing manufacturing	31523	191	144	-20.5	152	-3.6	2,467
Clothing accessories and other clothing manufacturing	3159	21	19	-2.9	21	-4.1	289
Leather and allied product manufacturing Footwear manufacturing	316 3162	25	26	-8.9	23	-18.0	399
Wood product manufacturing	321						
Sawmills and wood preservation	3211	1,228	1,177	-12.2	1,078	-16.0	14,971
Veneer, plywood and engineered wood product manufacturing	3212	539	490	14.8	619	19.5	7,927
Other wood product manufacturing	3219	589	570	-5.2	558	6.2	8,360
Paper manufacturing	322						
Pulp, paper and paperboard mills	3221	1,948	1,954	-10.2	1,750	-6.6	22,489
Paperboard container manufacturing	32221	449	407	-10.9	400	6.6	5,536
Paper bag and coated and treated paper manufacturing	32222	260	230	-13.7	224	0.8	3,033
Other converted paper product manufacturing	32229	134	134	0.5	135	-2.7	1,624
Printing and related support activities	323						
Printing	32311	844	896	-6.0	793	-1.5	10,732
Support activities for printing	32312	71	69	-17.1	59	10.3	858
Petroleum and coal products manufacturing	324						
Petroleum refineries	32411	3,139	3,022	-4.9	2,985	10.6	34,729
Chemical manufacturing	325						
Other basic inorganic chemical manufacturing	32518	250	220	3.3	258	12.7	3,021
Other basic organic chemical manufacturing	32519	322	321	-16.4	269	-6.8	3,419
Resin, synthetic rubber, and artificial and synthetic fibres and	2050	640	E00	0.5	E0.4	٥٢	7 457
filaments manufacturing Pesticide and other agricultural chemical manufacturing	3252 32532	649 34	563 11	-8.5 30.3	594 45	0.5 21.2	7,457 444
Pesticide and other agricultural chemical manufacturing Pharmaceutical and medicine manufacturing	32532 3254	699	820	2.8	719	4.9	8,506
Paint and coating manufacturing	32551	145	111	-5.0	138	3.6	2,030
Adhesive manufacturing	32552	52	42	11.3	58	8.4	772
Soap and cleaning compound manufacturing	32561	160	143	-25.0	120	-16.2	1,689
Toilet preparation manufacturing	32562	107	95	-5.9	100	2.3	1,289
Printing ink manufacturing	32591	36	32	5.7	38	1.6	467
All other chemical product manufacturing	32599	330	310	-1.9	324	2.9	3,990
•							

Table 8a Shipments for selected industries, unadjusted - continued

		Previo	us year	Year-to-da	ate	Annual	
	NAICS Code	January 2003	December 2002	% Change from 2003	2004	% Change from 2002	2003
				\$ million	1S		
Plastics and rubber products manufacturing	326						
Plastic pipe, pipe fitting and unsupported profile shape							
manufacturing	32612	131	105	-15.9	110	2.5	1,836
Polystyrene foam product manufacturing	32614	36	42	1.7	37	7.3	561 11.882
Other plastic product manufacturing Other rubber product manufacturing	32619 32629	939 140	814 112	-12.1 -1.5	825 138	2.5 -11.6	1,750
Non-metallic mineral product manufacturing	327						
Clay product and refractory manufacturing	3271	52	46	-18.9	42	5.4	722
Glass and glass product manufacturing	3272	157	125	-6.7	146	0.0	2,084
Cement manufacturing	32731	61	78	-5.3	58	1.2	1,479
Ready-mix concrete manufacturing	32732	105	150	3.3	109	5.1	2,760
Other concrete product manufacturing	32739	50	76	7.4	54	9.6	1,143
Abrasive product manufacturing	32791	29	31	-38.6	18	-13.5	294
All other non-metallic mineral product manufacturing	32799	130	127	-4.0	124	12.3	1,683
Primary metal manufacturing	331						
Iron and steel mills and ferro-alloy manufacturing Iron and steel pipes and tubes manufacturing from	3311	965	760	-13.4	835	-1.3	9,877
purchased steel	33121	271	212	9.0	295	6.2	2,908
Foundries	3315	275	217	-4.5	263	3.0	3,271
Fabricated metal product manufacturing	332						
Cutlery and hand tool manufacturing	3322	48	43	3.0	49	4.1	581
Plate work and fabricated structural product manufacturing	33231	376	341	-11.4	333	4.7	4,935
Power boiler and heat exchanger manufacturing	33241	69	78	12.5	78	31.7	1,273
Spring and wire product manufacturing	3326	146	117	-21.6	114	-12.0	1,573
Coating, engraving, heat treating and allied activities	3328	262	225	-10.5	235	-0.6	3,043
Other fabricated metal product manufacturing	3329	274	219	-10.1	247	-6.6	3,484
Machinery manufacturing	333						
Agricultural implement manufacturing	33311	148	157	15.2	171	-11.9	1,957
Ventilation, heating, air-conditioning and commercial		186	176	5.0	195	-7.2	2,465
refrigeration equipment manufacturing	3334	190	227	-8.1	174	-1.9	2,337
All other general-purpose machinery manufacturing	33399						
Computer and electronic product manufacturing	334						
Computer and peripheral equipment manufacturing	3341	203	321	-13.7	175	-22.1	3,070
Communications equipment manufacturing	3342	460	815	-10.3	412	-20.5	6,161
Audio and video equipment manufacturing	3343	18	23	-20.8	14	-12.2	211
Electrical equipment, appliance and component manufacturing	335						
Lighting fixture manufacturing	33512	82	76	-20.3	66	-9.3	968
Small electrical appliance manufacturing	33521	22	20	16.3	25	-1.7	263
Major appliance manufacturing	33522	143	124	-5.4	135	-3.4	1,754
Battery manufacturing	33591 33592	18 154	17 165	-0.6 6.1	18 163	19.0	217
Communication and energy wire and cable manufacturing All other electrical equipment and component manufacturing	33599	35	32	14.4	40	-14.6 -0.1	2,168 429
	336	00	02		10	0.1	120
Transportation equipment manufacturing Motor vehicle manufacturing	3361	5,989	4,465	-12.2	5,259	-6.4	69,258
Motor vehicle manufacturing Motor vehicle parts manufacturing	3363	2,700	2,091	-6.0	2,538	-0.4	31,433
Aerospace product and parts manufacturing	3364	1,091	1,035	14.1	1,245	1.5	11,589
Railroad rolling stock manufacturing	3365	286	190	-40.2	171	-7.4	2,378
Ship and boat building	3366	78	62	15.6	90	-5.4	1,101
Furniture and related product manufacturing	337						
Household and institutional furniture and kitchen cabinet	0074	225		2.2	050		7 755
manufacturing Office furniture (including fixtures) manufacturing	3371	635	575	2.3	650	-1.3	7,752
Office furniture (including fixtures) manufacturing	3372	410	389	-1.1	406	5.4	5,110
Miscellaneous manufacturing Modical equipment and expelies manufacturing	339	107	474	4.6	174	0.5	0.040
Medical equipment and supplies manufacturing Other miscellaneous manufacturing	3391 3399	167 381	171 435	4.6 -15.6	174 321	8.5 0.8	2,242 5,214
- misoonanoous manutaotuting	5555	301	400	- 10.0	JEI	0.0	J, Z 14

Table 8b Inventory owned for selected industries, unadjusted

			Current p	eriods	
	NAICS Code	January 2004	December 2003	November 2003	October 2003
			\$ milli	ons	
Food manufacturing	311				
Animal food manufacturing	3111	284	281	290	282
Starch and vegetable fat and oil manufacturing	31122	234	213	185	191
Sugar and confectionery product manufacturing	3113	294	308	329	300
Fruit and vegetable preserving and specialty food manufacturing	3114	889	909	954	946
Dairy product manufacturing	3115	836	800	805	806
Meat product manufacturing	3116	742	712	795	804
Cookie, cracker and pasta manufacturing Other food manufacturing	31182 3119	123 466	123 469	124 488	123 490
Julier 1000 manufacturing	3119	400	403	400	490
Beverage and tobacco product manufacturing	312				
Soft drink and ice manufacturing	31211	222	207	244	246
Breweries	31212	185	182	192	184
Wineries	31213	251	247	255	260
Distilleries	31214	476	471	483	489
Tobacco manufacturing	3122	473	439	463	439
Textile mills	313				
Fibre, yarn and thread mills	3131	66	67	68	68
Fabric mills	3132	332	336	347	363
Textile and fabric finishing and fabric coating	3133	71	68	69	68
Textile product mills	314				
Carpet and rug mills	31411	86	86	94	99
Textile bag and canvas mills	31491	39	38	39	39
Clothing manufacturing	315				
Clothing manufacturing Hosiery and sock mills	31511	134	136	134	146
Other clothing knitting mills	31519	134	139	147	157
Men's and boys' cut and sew clothing manufacturing	31522	466	458	461	498
Women's and girls' cut and sew clothing manufacturing	31523	406	400	401	410
Clothing accessories and other clothing manufacturing	3159	61	61	61	61
Loothay and allied avaduat manufacturing	316				
Leather and allied product manufacturing Footwear manufacturing	3162	69	70	74	80
Wood product manufacturing	321	03	70	77	00
Sawmills and wood preservation	3211	2,723	2,509	2,284	2,278
Veneer, plywood and engineered wood product manufacturing	3212	770	725	694	666
Other wood product manufacturing	3219	971	944	975	986
Danax manufacturing	222				
Paper manufacturing Pulp, paper and paperboard mills	322 3221	2,445	2,449	2,482	2,473
Paperboard container manufacturing	32221	2,445 465	456	479	464
Paper bag and coated and treated paper manufacturing	32222	396	383	378	377
Other converted paper product manufacturing	32229	137	137	144	141
Printing and related support activities	323	046	015	000	001
Printing	32311 32312	816 36	815 35	829 35	831 35
Support activities for printing Petroleum and coal products manufacturing	324	30	30	33	33
Petroleum refineries	32411	1,691	1,545	1,607	1,598
		.,00.	.,0.0	1,001	.,000
Chemical manufacturing	325	0.44	0.50	050	0.40
Other basic inorganic chemical manufacturing	32518	241	250 309	250 325	248
Other basic organic chemical manufacturing Resin, synthetic rubber, and artificial and synthetic fibres and	32519	298	309	323	347
filaments manufacturing	3252	570	542	559	560
Pesticide and other agricultural chemical manufacturing	32532	93	88	87	84
Pharmaceutical and medicine manufacturing	3254	2,891	2,739	2,717	2,591
Paint and coating manufacturing	32551	267	249	261	263
Adhesive manufacturing	32552	99	100	99	95
Soap and cleaning compound manufacturing	32561	97	95	99	98
Toilet preparation manufacturing	32562	189	183	191	183
Printing ink manufacturing	32591	78	83	71	72
All other chemical product manufacturing	32599	371	377	370	378

Table 8b Inventory owned for selected industries, unadjusted - continued

			Current p	eriods	
	NAICS Code	January 2004	December 2003	November 2003	October 2003
			\$ milli	ons	
Plastics and rubber products manufacturing	326				
Plastic pipe, pipe fitting and unsupported profile shape	22242	202	005	224	000
manufacturing	32612	322	295	304	299
Polystyrene foam product manufacturing	32614	55	51	51	53
Other plastic product manufacturing Other rubber product manufacturing	32619 32629	955 132	914 128	945 133	939 130
Non-metallic mineral product manufacturing	327				
Clay product and refractory manufacturing	3271	68	67	71	71
Glass and glass product manufacturing	3272	250	245	250	249
Cement manufacturing	32731	197	174	151	145
Ready-mix concrete manufacturing	32732	86	85	83	81
Other concrete product manufacturing	32739	140	124	124	119
Abrasive product manufacturing	32791	50	48	52	51
All other non-metallic mineral product manufacturing	32799	133	130	129	126
Primary metal manufacturing	331				
Iron and steel mills and ferro-alloy manufacturing	3311	1,834	1,856	1,859	1,862
Iron and steel pipes and tubes manufacturing from purchased steel	33121	542	478	499	470
Foundries	3315	273	273	289	277
Fabricated metal product manufacturing	332				
Cutlery and hand tool manufacturing	3322	81	80	82	82
Plate work and fabricated structural product manufacturing	33231	647	614	634	638
Power boiler and heat exchanger manufacturing	33241	88	83	86	89
Spring and wire product manufacturing	3326	139	138	141	146
Coating, engraving, heat treating and allied activities	3328	163	165	159	153
Other fabricated metal product manufacturing	3329	619	575	571	576
Machinery manufacturing	333	400	450	400	101
Agricultural implement manufacturing	33311	460	450	469	461
Ventilation, heating, air-conditioning and commercial	0004	007	004	040	040
refrigeration equipment manufacturing	3334	297	301	310	318
All other general-purpose machinery manufacturing	33399	545	560	580	594
Computer and electronic product manufacturing	334				
Computer and peripheral equipment manufacturing	3341	631	613	671	688
Communications equipment manufacturing	3342	2,314	2,220	2,318	2,309
Audio and video equipment manufacturing	3343	59	57	58	56
Electrical equipment, appliance and component manufacturing	335				
Lighting fixture manufacturing	33512	136	134	131	133
Small electrical appliance manufacturing	33521	40	44	42	43
Major appliance manufacturing	33522	180	173	184	180
Battery manufacturing	33591	42	40	42	41
Communication and energy wire and cable manufacturing All other electrical equipment and component manufacturing	33592 33599	765 101	729 98	765 101	766 103
Transportation equipment manufacturing	336				
Motor vehicle manufacturing	3361	1,277	1,183	1,258	1,254
Motor vehicle parts manufacturing	3363	1,812	1,818	1,908	1,828
Aerospace product and parts manufacturing	3364	4,028	4,397	4,668	4,585
Railroad rolling stock manufacturing	3365	746	740	774	795
Ship and boat building	3366	131	128	137	131
Furniture and related product manufacturing Household and institutional furniture and kitchen cabinet	337	_	_	_	
manufacturing	3371	768	750	748	746
Office furniture (including fixtures) manufacturing	3372	318	327	342	343
Miscellaneous manufacturing	339	2.42	207	242	2:-
Medical equipment and supplies manufacturing	3391	249	237	246	246
Other miscellaneous manufacturing	3399	952	901	937	929

Table 8b Inventory owned for selected industries, unadjusted - continued

		Previo	us year	Year-to-	date	Average per mo	onth
	NAICS Code	January 2003	December 2002	% Change from 2003	Average 2004	% Change from 2002	2003
				\$ millio	ins		
Food manufacturing	311						
Animal food manufacturing	3111	266	267	6.6	284	4.4	282
Starch and vegetable fat and oil manufacturing	31122	205	200	14.2	234	4.6	180
Sugar and confectionery product manufacturing	3113	307	302	-4.0	294	5.0	310
Fruit and vegetable preserving and specialty food manufacturing	3114	861	886	3.2	889	5.3	853
Dairy product manufacturing	3115	823	823	1.6	836	-3.7	813
Meat product manufacturing	3116	818	787	-9.3	742	-5.4	797
Cookie, cracker and pasta manufacturing	31182	132	131	-6.8	123	7.1	128
Other food manufacturing	3119	424	414	9.9	466	2.9	455
Beverage and tobacco product manufacturing	312	0.47	400			7.0	054
Soft drink and ice manufacturing	31211	217	196	2.0	222	7.9	251
Breweries	31212	174	164	6.4	185	0.8	185
Wineries Distilleries	31213 31214	252 557	247 530	-0.6 -14.5	251 476	4.8 3.3	251 528
Tobacco manufacturing	31214	435	409	8.7	473	-1.1	434
		400	400	0.7	470		707
Textile mills	313						
Fibre, yarn and thread mills	3131	64	64	3.2	66	0.3	69
Fabric mills	3132 3133	391 74	384 69	-15.2 -4.8	332 71	-12.3 11.7	377 73
Textile and fabric finishing and fabric coating		74	09	-4.0	/ 1	11.7	73
Textile product mills	314						
Carpet and rug mills	31411	103	102	-16.6	86	2.2	101
Textile bag and canvas mills	31491	45	44	-13.8	39	-32.1	42
Clothing manufacturing	315						
Hosiery and sock mills	31511	120	121	11.7	134	6.8	142
Other clothing knitting mills	31519	138	140	-3.4	134	6.1	164
Men's and boys' cut and sew clothing manufacturing	31522	493	492	-5.5	466	6.2	507
Women's and girls' cut and sew clothing manufacturing	31523	446	422	-9.0	406	1.0	416
Clothing accessories and other clothing manufacturing	3159	54	52	14.0	61	8.0	62
Leather and allied product manufacturing Footwear manufacturing	316 3162	80	78	-12.8	69	-7.3	92
·			. •				02
Wood product manufacturing	321	2.054	2,731	10.0	2,723	F 0	0.771
Sawmills and wood preservation Veneer, plywood and engineered wood product manufacturing	3211 3212	3,054 799	750	-10.8 -3.6	770	-5.2 5.4	2,771 761
Other wood product manufacturing	3212	996	986	-2.6	971	8.0	1,002
·				2.0	• • • • • • • • • • • • • • • • • • • •	0.0	.,002
Paper manufacturing	322 3221	0.400	0.400	0.1	0.445	0.1	0.500
Pulp, paper and paperboard mills Paperboard container manufacturing	3221	2,499 463	2,480 445	-2.1 0.3	2,445 465	-3.1 2.8	2,508 479
Paper bag and coated and treated paper manufacturing	32222	392	399	0.9	396	4.9	391
Other converted paper product manufacturing	32229	140	137	-2.6	137	0.9	146
Printing and related support activities Printing	323 32311	772	794	5.7	816	-0.5	833
Support activities for printing	32311	50	794 50	-26.6	36	-0.5 -31.9	37
		00	00	20.0	00	01.0	01
Petroleum and coal products manufacturing	324	4 700	4 500	0.0	4 004		4 700
Petroleum refineries	32411	1,706	1,580	-0.9	1,691	1.4	1,703
Chemical manufacturing	325						
Other basic inorganic chemical manufacturing	32518	223	229	8.2	241	8.7	243
Other basic organic chemical manufacturing	32519	322	336	-7.6	298	8.6	346
Resin, synthetic rubber, and artificial and synthetic fibres and	2050	E00	E0.4	7.0	E70	0.4	ECE
filaments manufacturing Pesticide and other agricultural chemical manufacturing	3252 32532	532 82	534 78	7.0 12.9	570 93	3.1 29.1	565 84
Pharmaceutical and medicine manufacturing	32532 3254	2,330	2,317	24.1	2,891	29.1 14.5	2,545
Paint and coating manufacturing	32551	2,330	2,317	5.5	2,091	2.8	2,343
Adhesive manufacturing	32552	88	85	12.4	99	12.8	95
Soap and cleaning compound manufacturing	32561	115	105	-15.5	97	-29.0	106
Toilet preparation manufacturing	32562	195	189	-3.0	189	8.7	194
Printing ink manufacturing	32591	75	69	3.8	78	12.0	74
All other chemical product manufacturing	32599	409	408	-9.4	371	1.4	399
•							

Table 8b Inventory owned for selected industries, unadjusted - concluded

	NAICS Code	Previo	us year	Year-to-	date	Average per mo	onth
		January 2003	December 2002	% Change from 2003	Average 2004	% Change from 2002	2003
				\$ millio	ons		
Plastics and rubber products manufacturing	326						
Plastic pipe, pipe fitting and unsupported profile shape							
manufacturing	32612	363	368	-11.3	322	-8.5	340
Polystyrene foam product manufacturing	32614	56	50	-1.7	55	16.6	54
Other plastic product manufacturing Other rubber product manufacturing	32619 32629	926 143	914 146	3.1 -8.3	955 132	7.4 -13.0	938 138
Non-metallic mineral product manufacturing	327						
Clay product and refractory manufacturing	3271	81	80	-15.5	68	-8.1	76
Glass and glass product manufacturing	3272	252	241	-0.7	250	-2.2	252
Cement manufacturing	32731	208	191	-5.4	197	-6.8	182
Ready-mix concrete manufacturing	32732	89	95	-3.2	86	-7.4	87
Other concrete product manufacturing	32739	101	95	38.7	140	12.0	117
Abrasive product manufacturing	32791	70	69	-29.1	50	-19.4	61
All other non-metallic mineral product manufacturing	32799	127	125	4.3	133	8.3	131
Primary metal manufacturing	331						
Iron and steel mills and ferro-alloy manufacturing	3311	2,123	2,200	-13.6	1,834	-1.8	1,950
Iron and steel pipes and tubes manufacturing from purchased steel	33121	494	555	9.8	542	2.3	495
Foundries	3315	289	293	-5.6	273	1.6	291
Fabricated metal product manufacturing	332						
Cutlery and hand tool manufacturing	3322	87	77	-7.3	81	2.2	83
Plate work and fabricated structural product manufacturing	33231	638	636	1.3	647	-1.7	678
Power boiler and heat exchanger manufacturing	33241	101	92	-13.0	88	4.1	96
Spring and wire product manufacturing	3326	205	192	-31.9	139	-11.6	172
Coating, engraving, heat treating and allied activities	3328	188	191	-13.0	163	-2.0	169
Other fabricated metal product manufacturing	3329	573	552	8.1	619	6.5	580
Machinery manufacturing	333						
Agricultural implement manufacturing Ventilation, heating, air-conditioning and commercial	33311	527	507	-12.8	460	1.5	476
refrigeration equipment manufacturing	3334	307	312	-3.2	297	-7.1	324
All other general-purpose machinery manufacturing	33399	514	512	6.1	545	15.0	529
Computer and electronic product manufacturing	334						
Computer and peripheral equipment manufacturing	3341	695	676	-9.2	631	2.3	677
Communications equipment manufacturing	3342	2,607	2,536	-11.2	2,314	-12.2	2,387
Audio and video equipment manufacturing	3343	62	61	-5.5	59	5.0	59
Electrical equipment, appliance and component manufacturing	335						
Lighting fixture manufacturing	33512	156	160	-13.0	136	-9.1	141
Small electrical appliance manufacturing	33521	38	38	5.2	40	9.3	40
Major appliance manufacturing	33522	178	171	1.6	180	12.0	186
Battery manufacturing	33591	33	31	27.3	42	-10.8	37
Communication and energy wire and cable manufacturing	33592	812	821	-5.9	765	-0.2	807
All other electrical equipment and component manufacturing	33599	104	100	-3.1	101	-2.0	103
Transportation equipment manufacturing Motor vehicle manufacturing	336 3361	1,318	1,433	-3.1	1,277	-8.6	1,288
Motor vehicle manufacturing Motor vehicle parts manufacturing	3363	1,862	1,841	-2.7	1,812	13.1	1,847
Aerospace product and parts manufacturing	3364	5,089	5,932	-20.8	4,028	-30.5	4,874
Railroad rolling stock manufacturing	3365	930	997	-19.7	746	-7.5	876
Ship and boat building	3366	147	148	-10.7	131	-1.8	129
Furniture and related product manufacturing Household and institutional furniture and kitchen cabinet	337						
manufacturing	3371	805	798	-4.6	768	1.4	790
Office furniture (including fixtures) manufacturing	3372	323	318	-1.6	318	8.9	335
Miscellaneous manufacturing	339						
Medical equipment and supplies manufacturing	3391	243	231	2.7	249	8.5	245
Other miscellaneous manufacturing	3399	988	950	-3.6	952	2.0	961

Table 9 Inventories owned by stage of fabrication

		Unadju	sted					
Period covered	Raw materials	Goods in process	Finished products	Total inventories				
January 2003	26,435	14,326	20,194	60,955				
February 2003	26,805	14,658	20,719	62,182				
March 2003	27,171	14,471	21,280	62,922				
April 2003	26,694	14,530	21,469	62,694				
May 2003	25,843	14,491	21,346	61,680				
June 2003	25,401	13,943	20,938	60,282				
July 2003	25,574	13,406	20,505	59,485				
August 2003	25,520	13,515	20,386	59,420				
September 2003	25,155	13,396	20,250	58,801				
October 2003	25,049	13,296	19,853	58,199				
November 2003	24,933	13,567	20,126	58,625				
December 2003	24,932	12,890	19,424	57,245				
January 2004	25,581	12,962	19,835	58,379				
		Seasonally adjusted						
	Raw materials	Goods in process	Finished products	Total inventories				
January 2003	26,098	14,586	20,458	61,142				
February 2003	26,193	14,643	20,575	61,410				
March 2003	26,484	14,341	20,801	61,625				
April 2003	26,396	14,438	20,954	61,789				
May 2003	26,047	14,259	20,937	61,243				
June 2003	25,824	13,870	20,788	60,481				
July 2003	25,873	13,602	20,654	60,129				
August 2003	25,705	13,443	20,393	59,541				
September 2003	25,527	13,401	20,379	59,307				
October 2003	25,208	13,313	20,227	58,748				
November 2003	25,091	13,484	20,204	58,779				
December 2003	25,027	13,207	20,100	58,333				
January 2004	25,300	13,221	20,111	58,632				

Table 10 Shipments by major group and province, unadjusted

way da aa	Current year						
Province	January 2004	December 2003	November 2003	October 2003			
		\$ millions					
otal	400	205	207	054			
ewfoundland and Labrador	189	235	227	258			
rince Edward Island ova Scotia	93 665	105 697	119 712	12 ⁴ 75			
ew Brunswick	878	1,056	1,062	1,054			
uebec	10,006	10,461	10,725	11,49			
ntario	22,426	22,087	23,831	25,82			
lanitoba	911	954	935	1,038			
askatchewan	666	636	629	719			
lberta ritish Columbia	3,688 2,780	3,865 2,924	3,796 2,960	4,052 3,193			
11 Food manufacturing	_,,	_,	_,,	0,100			
ewfoundland and Labrador	53	66	77	73			
rince Edward Island	63	72	76	84			
ova Scotia	150	178	165	189			
ew Brunswick	123	152	175	220			
uebec	1,197	1,262	1,330	1,389			
ntario	2,012	2,203	2,166	2,305			
lanitoba	210	223	214	229			
askatchewan	156	175	167	173			
lberta	699	680	695	706			
ritish Columbia	352	400	384	415			
12 Beverage and tobacco product manufacturing ova Scotia	11	22	16	20			
uebec	246	362	329	326			
ntario	325	448	442	460			
askatchewan	2	3	2	3			
ritish Columbia	64	99	81	90			
13 Textile mills							
uebec	145	147	167	172			
ntario	84	77	85	94			
14 Textile product mills	00	0.0	77	0.0			
uebec	63	63	77 76	82			
ntario Iberta	78 5	72 5	76 5	90 5			
ritish Columbia	7	9	10	10			
15 Clothing manufacturing	·	-					
uebec	275	261	338	404			
ntario	143	143	187	189			
lanitoba	21	20	25	30			
askatchewan	2	3	3	4			
Iberta	10	9	18	15			
ritish Columbia	28	29	30	37			
16 Leather and allied product manufacturing							
uebec	23	22	32	47			
ntario	14	24	23	25			
21 Wood product manufacturing ova Scotia	41	34	46	49			
ova Scotta uebec	611	586	761	853			
ntario	385	405	513	560			
	53	50	59	74			
lanitoha							
lanitoba askatchewan							
lanitoba askatchewan Iberta	37 237	40 248	50 284	58 299			

Table 10 Shipments by major group and province, unadjusted - continued

	Current year						
Province	January 2004	December 2003	November 2003	October 2003			
		\$	millions				
322 Paper manufacturing							
Nova Scotia	74	64	81	71			
Quebec Ontario	807 815	794 788	821 862	885 926			
Alberta	131	149	135	149			
British Columbia	437	458	448	443			
323 Printing and related support activities							
Quebec	214	220	238	252			
Ontario	466	530	587	558			
Manitoba	35	45	45	46			
Saskatchewan Alberta	12 48	12 55	11 58	14 60			
British Columbia	55	63	69	66			
324 Petroleum and coal products manufacturing							
Quebec	714	657	656	654			
Ontario	1,050	896	936	1,022			
Alberta	693	638	602	628			
British Columbia	96	94	98	105			
325 Chemical manufacturing							
Quebec	626	669	684	700			
Ontario Manitoba	1,750 71	1,728 74	1,667 66	1,812 69			
Saskatchewan	7 T	74 35	40	58			
Alberta	641	680	656	724			
British Columbia	76	82	84	85			
326 Plastics and rubber products manufacturing							
Nova Scotia	79	78	85	94			
Quebec	442	435	508	576			
Ontario Manitoba	1,098 38	1,041 42	1,227 46	1,347 54			
Saskatchewan	8	6	8	9			
Alberta	53	61	68	78			
British Columbia	74	81	91	102			
327 Non-metallic mineral product manufacturing							
Nova Scotia	5	9	16	17			
Quebec	131	148	235	274			
Ontario Saskatchewan	305 2	386 2	487 3	577 9			
Alberta	90	100	111	165			
British Columbia	93	99	116	131			
331 Primary metal manufacturing							
Quebec	1,264	1,325	1,172	1,318			
Ontario	1,435	1,327	1,413	1,519			
Alberta	162	158	163	171			
332 Fabricated metal product manufacturing							
Newfoundland and Labrador	14	10	15	15			
Prince Edward Island Nova Scotia	1 21	3 28	4 27	2 34			
New Brunswick	25	23	31	36			
Quebec	466	517	595	648			
Ontario	1,297	1,257	1,456	1,623			
Manitoba	45	49	48	58			
Saskatchewan Alberta	28 260	27 303	32 309	37 309			
British Columbia	125	128	132	149			

Table 10
Shipments by major group and province, unadjusted - continued

	Current year					
Province	January 2004	December 2003	November 2003	October 2003		
		\$ r	nillions			
333 Machinery manufacturing						
Quebec	356	445	469	408		
Ontario Manitoba	1,051 72	1,089 72	1,096 64	1,209 60		
Saskatchewan	47	48	42	54		
Alberta	305	331	267	336		
British Columbia	142	152	162	173		
334 Computer and electronic product manufacturing						
Quebec	427	619	480	444		
Ontario	716	982	913	819		
Saskatchewan Alberta	20 85	16 171	14 153	16 116		
British Columbia	83	91	104	104		
335 Electrical equipment, appliance and component manufacturing Quebec	259	267	296	307		
Ontario	411	433	462	456		
Manitoba	12	13	14	15		
Saskatchewan	11	12	12	15		
Alberta British Columbia	36 26	33 26	36 31	33 29		
DITUSTI COTUITION	20	20	31	29		
336 Transportation equipment manufacturing						
Nova Scotia	55	65	61	65		
Quebec Ontario	1,302 8,101	1,158 7,384	985 8,341	1,180 9,254		
Manitoba	122	131	122	135		
Saskatchewan	19	19	17	19		
Alberta	71	58	60	67		
British Columbia	78	75	74	76		
337 Furniture and related product manufacturing						
Quebec	302	300	331	356		
Ontario Manitoba	660 38	601 41	625 45	668 49		
Saskatchewan	50 5	5	45 5	6		
Alberta	63	70	69	75		
British Columbia	57	64	63	69		
339 Miscellaneous manufacturing						
Newfoundland and Labrador	1	1	1	1		
Quebec	135	205	221	219		
Ontario Manitoba	231 13	272 15	265 17	309 20		
Saskatchewan	4	5	5	5		
Alberta	46	43	42	47		
British Columbia	44	64	57	68		

Table 10 Shipments by major group and province, unadjusted - continued

	Previou	s year	Year-to-da	ate	Annual	
	January 2003	December 2002	% Change from 2003	2004	% Change from 2002	2003
			\$ millio	ns		-
Total						
Newfoundland and Labrador	163	187	15.8	189	14.5	2,877
Prince Edward Island Nova Scotia	90	107	3.2	93	2.2	1,356
New Brunswick	677	703	-1.8	665	2.8	8,525
Quebec	1,011	1,063	-13.2	878	2.7	12,865
Ontario Manitoba	10,153 24,109	10,310 21,444	-1.5 -7.0	10,006 22,426	-1.4 -1.7	128,473 289,254
Saskatchewan	895	901	1.7	911	1.3	11,412
Alberta	637	597	4.6	666	3.7	7,917
British Columbia	3,781 2,895	3,764 2,982	-2.5 -4.0	3,688 2,780	4.9 -3.3	45,831 37,228
311 Food manufacturing		_,00_				01,220
Newfoundland and Labrador	45	71	17.4	53	-9.3	1,056
Prince Edward Island Nova Scotia	63 145	73 184	-0.3 3.8	63 150	-1.0 -0.7	902 2,000
New Brunswick	114	133	7.9	123	0.5	2,033
Quebec	1,129	1,265	6.1	1,197	5.2	15,170
Ontario	1,897 193	2,091 213	6.0 8.4	2,012 210	1.9 1.0	25,009 2,457
Manitoba Saskatchewan	158	168	-1.2	156	4.0	1,947
Alberta	676	672	3.5	699	-3.5	7,976
British Columbia	361	404	-2.6	352	3.5	4,889
312 Beverage and tobacco product manufacturing	11	18	-3.2	11	17.5	223
Nova Scotia	250	328	-1.5	246	9.4	3,965
Quebec Ontario	325 2	474 3	0.0 14.9	325 2	0.6 -48.8	5,316 33
Saskatchewan	65	102	-1.4	64	0.4	1,091
British Columbia						
313 Textile mills Quebec	162 87	167 71	-10.1 -3.1	145 84	-13.7 -10.0	2,044 1,028
Ontario	01	7 1	0.1	04	10.0	1,020
24.4 Tavtila avadust milla	69	72	-8.1	63	-11.0	912
314 Textile product mills Quebec	87 4	78 4	-10.9 7.1	78 5	-9.7 6.2	1,038 58
Ontario	8	13	-10.8	7	-26.9	117
Alberta						
British Columbia 315 Clothing manufacturing	327 158	277 147	-15.9 -9.5	275 143	-7.1 -5.9	4,243 1,926
Quebec	19	19	9.6	21	-5.1	263
Ontario	2	2	-9.5	2	6.5	28
Manitoba Saskatchewan	11 33	12 26	-7.9 -15.0	10 28	0.4 -2.4	142 384
Alberta	33	20	-13.0	20	-2.4	304
British Columbia	24	24	-5.4	23	-9.5	389
316 Leather and allied product manufacturing	17	26	-20.8	14	-15.5	239
Quebec	39	38	5.4	41	-1.6	544
Ontario	670	603	-8.8	611	-0.8	8,855
321 Wood product manufacturing						
Nova Scotia	449	426	-14.1	385	-2.0	6,060
Quebec Ontario	49	45	6.6	53	4.5	697
Manitoba	30 205	29 186	25.1 15.6	37 237	15.2 11.3	471 2,930
Saskatchewan	798	787	-2.9	775	-12.0	9,913
Alberta British Columbia	64	77	15.1	74	1.3	875
DITUDIT COMMINING						

Table 10
Shipments by major group and province, unadjusted - continued

	Previous year		Year-to-date		Annual		
	January 2003	December 2002	% Change from 2003	2004	% Change from 2002	2003	
			\$ millions	S			
322 Paper manufacturing							
Nova Scotia Quebec	920 935	913 860	-12.2 -12.8	807 815	-8.4 -1.9	10,620 10,824	
Ontario	139	152	-5.8	131	1.4	1,788	
Alberta	474	470	-7.9	437	2.8	5,651	
British Columbia	216	221	-0.9	214	-3.7	2,758	
323 Printing and related support activities							
Quebec Ontario	513 36	552 40	-9.2 -3.5	466 35	0.4 -1.2	6,421 510	
Manitoba	10	12	-3.5 13.4	12	-1.2 5.4	147	
Saskatchewan	54	54	-10.7	48	-5.6	662	
Alberta	59	58	-7.2	55	-8.3	760	
British Columbia							
324 Petroleum and coal products manufacturing							
Quebec Ontario	727 1,029	702 1,018	-1.8 2.1	714 1,050	12.2 6.8	8,007 11,670	
Alberta	702	636	-1.3	693	10.2	8,200	
British Columbia	107	96	-10.5	96	-0.3	1,257	
325 Chemical manufacturing							
Quebec	648	664	-3.4	626	0.0	8,556	
Ontario	1,830	1,684	-4.4	1,750	3.1	21,357	
Manitoba Saskatchewan	67	60	6.4	71	28.5	816	
Alberta	67 765	29 734	14.1 -16.2	77 641	16.5 5.3	799 8,276	
British Columbia	81	74	-5.6	76	6.8	1,085	
326 Plastics and rubber products manufacturing							
Nova Scotia	86	67	-7.8	79	-7.4	1,028	
Quebec	449	403	-1.7	442	5.8	6,038	
Ontario Manitoba	1,254	1,030	-12.5	1,098	-0.9	14,790	
Saskatchewan	43 7	38 6	-12.7 8.5	38 8	5.8 3.5	569 107	
Alberta	56	57	-5.8	53	0.9	836	
British Columbia	80	77	-7.5	74	9.6	1,156	
327 Non-metallic mineral product manufacturing							
Nova Scotia Quebec	8	9	-37.7	5	12.6	163	
Ontario	134 329	138 368	-2.6 -7.3	131 305	4.2 5.5	2,677 5,559	
Saskatchewan	2	2	-9.1	2	-7.4	71	
Alberta	104	109	-13.4	90	-0.7	1,556	
British Columbia	95	89	-1.7	93	11.7	1,417	
331 Primary metal manufacturing							
Quebec Ontario	1,245	1,215	1.5	1,264	3.1	14,769	
Alberta	1,576 158	1,314 144	-8.9 2.8	1,435 162	-2.8 41.3	16,912 1,812	
332 Fabricated metal product manufacturing	100	, , ,	2.0		11.0	.,	
Newfoundland and Labrador	8	7	71.4	14	49.4	153	
Prince Edward Island	o 1	2	-7.3	14	49.4 19.2	27	
Nova Scotia	18	25	18.1	21	23.7	318	
New Brunswick Quebec	22	24	15.0	25	-3.4	330	
Ontario	485 1,408	467 1,202	-3.9 -7.9	466 1,297	0.5 -3.9	6,598 17,463	
Manitoba	47	46	-3.5	45	6.1	621	
Saskatchewan	26	26	5.9	28	4.9	389	
Alberta British Columbia	254 130	221	2.3	260 125	22.6	3,408	
2 Gotalium	130	116	-4.5	125	0.5	1,722	

Table 10 Shipments by major group and province, unadjusted - concluded

	Previous year		Year-to-date		Annual		
	January 2003	December 2002	% Change from 2003	2004	% Change from 2002	2003	
			\$ millior	ıs			
333 Machinery manufacturing							
Quebec Ontario	370 1,102	429 1,181	-3.7 -4.6	356 1,051	-3.7 -6.7	4,919 13,704	
Manitoba	1,102	1,101	-4.6 9.5	72	-0.7 -9.0	802	
Saskatchewan	47	48	0.2	47	-10.6	611	
Alberta	267	256	14.3	305	13.0	3,308	
British Columbia	135	163	5.5	142	9.1	1,837	
334 Computer and electronic product manufacturing							
Quebec Ontario	447 710	588 850	-4.4 0.8	427 716	-17.3 -7.5	5,856 9,780	
Saskatchewan	13	14	50.9	20	32.3	167	
Alberta	133	271	-35.6	85	-31.8	1,520	
British Columbia	75	96	9.9	83	-10.0	1,101	
335 Electrical equipment, appliance and component manufacturing							
Quebec	277	253	-6.6	259	-1.4	3,402	
Ontario Manitoba	425 14	423 17	-3.3 -13.8	411 12	-8.0 -22.0	5,456 166	
Saskatchewan	10	11	4.3	11	-22.0 -31.9	145	
Alberta	24	22	53.8	36	10.3	358	
British Columbia	30	31	-13.7	26	1.6	368	
336 Transportation equipment manufacturing							
Nova Scotia	55	47	-0.7	55	-10.6	707	
Quebec Ontario	1,162 9,071	1,123 6,789	12.0 -10.7	1,302 8,101	-7.1 -3.3	12,575 103,514	
Manitoba	134	135	-10.7 -9.1	122	-3.5 3.6	1,697	
Saskatchewan	23	18	-16.6	19	-11.5	240	
Alberta	64	58	9.9	71	9.0	780	
British Columbia	80	81	-2.8	78	-36.6	992	
337 Furniture and related product manufacturing							
Quebec Ontario	298 637	281 564	1.5 3.7	302 660	-5.6 6.2	3,941 7,627	
Manitoba	40	40	-5.4	38	-1.1	543	
Saskatchewan	5	5	-9.7	5	8.7	68	
Alberta	73	72	-14.5	63	-10.3	853	
British Columbia	67	68	-14.3	57	5.8	801	
339 Miscellaneous manufacturing		a a	4.0		100	4.4	
Newfoundland and Labrador Quebec	1 144	1 177	-4.8 -6.2	1 135	-10.9 -3.0	11 2,178	
Ontario	272	296	-15.1	231	2.6	3,560	
Manitoba	13	15	-0.5	13	-2.1	175	
Saskatchewan	4	4	-8.5	4	13.6	55	
Alberta British Columbia	44 48	35 56	4.2 -9.7	46 44	44.3 2.0	534 653	
- Communication	- UT		5.1		2.0		

Survey documentation

- About the Monthly Survey of Manufacturing
- Concepts and definitions
- Survey Design and Methodology
- **Data Quality**

About the Monthly Survey of Manufacturing

The statistics contained in this publication are based on information obtained through a sample survey of 11,000 representative manufacturing establishments across Canada. The Monthly Survey of Manufacturers started in 1947 and although its content has remained essentially the same, it underwent a major redesign with respect to the frame in 1999.

The values (in Canadian dollars) of shipments, inventories and orders are used as indicators of the economic condition of manufacturing industries; as inputs to Canada's Gross Domestic Product; as two components in the Statistics Canada composite indicator; as input to macro- and microeconomic studies and in econometric models (e.g. to determine market share, apparent domestic availability, etc.).

Since 1999, Statistics Canada's Business Register provides the sampling frame for the Monthly Survey of Manufacturing (MSM). The target population for the MSM consists of all statistical establishments on the business register that are classified to the manufacturing sector. The sampling frame for the MSM is determined from the target population after subtracting establishments that represent the bottom 2% of the total manufacturing shipments estimate for each province. These establishments are excluded from the frame so that the sample size can be reduced without significantly affecting quality.

Concepts and Definitions

The Monthly Survey of Manufacturing (MSM) publishes statistical series for manufacturers – shipments, inventories. unfilled orders and new orders. The values of these characteristics represent current monthly estimates of the more complete Annual Survey of Manufactures (ASM) data.

The MSM is a sample survey of approximately 11,000 Canadian manufacturing establishments, which are categorized into over 200 industries. Industries are classified according to the 1997 North American Industrial Classification System (NAICS), which replaced the 1980 Standard Industrial Classification (SIC) system. Reference year 2000 is the last year for which data are released on a SIC basis. The MSM adopted the NAICS for its 2001 reference, while previous years' data have been re-calculated to the new classification system back to 1992. Seasonally adjusted series are available for the main aggregates.

An establishment comprises the smallest manufacturing unit capable of reporting the variables of interest. Data collected by the MSM provides a current 'snapshot' of shipment values by the Canadian manufacturing sector, enabling analysis of the state of the Canadian economy, as well as the health of specific industries in the short- to medium-term. The information is used by both private and public sectors including Statistics Canada, federal and provincial governments, business and trade entities, international and domestic nongovernmental organizations, consultants, the business press and private citizens. The data are used for analyzing market share, trends, corporate benchmarking, policy analysis, program development, tax policy and trade policy.

1. Shipments

Shipments are defined as the value of goods manufactured by establishments that have been shipped to a customer. Shipments exclude any wholesaling activity, and any revenues from the rental of equipment or the sale of electricity. Note that in practice, some respondents report financial trans-actions rather than payments for work done. Shipments are available by 3-digit NAICS, broken down by province.

For the aerospace product and parts, and shipbuilding industries, the value of production is used instead of shipments. This value is calculated by adjusting monthly shipments by the monthly change in goods in process and finished product inventories. Raw materials are not included in the calculation since production tries to measure "work done" during the month. This is done in order to reduce distortions caused by the shipment of high value items as completed sales.

2. Inventories

Measurement of component values of inventory is important for economic studies as well as for derivation of production values. Respondents are asked to report their book values (at cost), of raw materials, any goods in process, and finished product inventories separate-ly. In some cases, respondents estimate a total inventory figure, which is allocated on the basis of proportions reported on the ASM. Inventory levels are calculated on a Canadawide basis, not by province.

3. Orders

a) Unfilled Orders

Unfilled orders represent a backlog or stock of orders that will generate future shipments assuming that they are not cancelled. As with inventories, unfilled orders and new orders levels are calculated on a Canadawide basis, not by province.

The MSM produces estimates for unfilled orders for all industries except for those industries where orders are customarily filled from stocks on hand and order books are not gen-erally maintained. In the case of the aircraft companies, options to purchase are not treated as orders until they are entered into the account-ing system.

b) New Orders

New orders represent current demand for manufactured products. Estimates of new orders are derived from shipments and unfilled orders data. All shipments within a month result from either an order received during the month or at some earlier time. New orders can be calculated as the sum of shipments adjusted for the monthly change in unfilled orders.

4. Non-Durable / Durable goods

a) Non-durable goods industries

Non-durable goods industries include Food (NAICS 311), Beverage and Tobacco Products (312), Textile Mills (313), Textile Product Mills (314), Clothing (315), Leather and Allied Products (316), Paper (322), Printing and Related Support Activities (323), Petroleum and Coal Products (324), Chemicals (325) and Plastic and Rubber Products (326).

b) Durable goods industries

Durable goods industries include Wood Products (NAICS 321), Non-Metallic Mineral Products (327), Primary Metals (331), Fabricated Metal Products (332), Machinery (333), Computer and Electronic Products (334), Electrical Equipment, Appliance and Components (335), Transportation Equipment (336), Furniture and Related Products (337) and Miscellaneous Manufacturing (339).

Survey Design and Methodology

Beginning with the August 1999 reference month, the Monthly Survey of Manufacturing (MSM) has undergone an extensive redesign.

Concept Review

It was decided that before any redesign work could begin the basic concepts and definitions of the program would be confirmed.

This was done in two ways: First, a review of user requirements was initiated. This involved revisiting an internal report to ensure that the user requirements from that exercise were being satisfied. As well, another round of internal review with the major users in the National Accounts was undertaken. This was to specifically focus on any data gaps that could be identified.

Secondly, with these gaps or requirements in hand, a survey was conducted in order to ascertain respondent's ability to report existing and new data. The study was also to confirm that respondents understood the definitions, which were being asked by survey analysts.

The result of the concept review was a reduction of the number of questions for the survey from sixteen to seven. Most of the questions that were dropped had to do with the reporting of shipments for work that was partially completed.

Methodology

The new sample design incorporates the 1997 North American Industrial Classification Standard (NAICS) and gives a much higher profile to provincial estimates. Stratification is done by province with equal quality requirements for each province. Large size units are selected with certainty and small units are selected with a probability based on the desired quality of the estimate within a cell.

The opportunity was also taken at this time to allow for the introduction of sample rotation into the survey design. Most of the smaller companies who are asked to participate in the survey will do so only for a set period.

The estimation system generates estimates using the NAICS. The estimates will also continue to be reconciled to the ASM. Provincial estimates for all variables will be produced. A measure of quality (CV) will also be produced.

Components of the Redesigned Survey

Target Population and Sampling Frame

Statistics Canada's business register provides the sampling frame for the MSM. The target population for the MSM consists of all statistical establishments on the business register that are classified to the manufacturing sector (by NAICS). The sampling frame for the MSM is determined from the target population after subtracting establishments that represent the bottom 2% of the total manufacturing shipments estimate for each province. These establishments were excluded from the frame so that the sample size could be reduced without significantly affecting quality.

The Sample

The MSM sample is a probability sample comprised of approximately 11,000 establishments.

Prior to selection, the sampling frame is subdivided into industry-province cells. For the most part, NAICS codes were used. Depending upon the number of establishments within each cell, further subdivisions were made to group similar sized establishments' together (called stratum). An establishment's size was based on its most recently available annual shipments or sales value.

Each industry by province cell has a 'take-all' stratum composed of establishments sampled each month with certainty. This 'take-all' stratum is composed of establishments that are the largest statistical enterprises, and have the largest impact on estimates within a particular industry by province cell. These large statistical enterprises comprise 45% of the national manufacturing shipment estimates.

Each industry - province cell can have at most three 'takesome' strata. Not all establishments within these stratums need to be sampled with certainty. A random sample is drawn from the remaining strata. The responses from these sampled establishments are weighted according to the inverse of their probability of selection.

The initial sample was selected in late 1998 and has been refreshed each month by including a sample of new entrants in the frame.

Data Collection

Data collection, data capture, preliminary edit and follow-up of non-respondents are all performed in Statistics Canada regional offices. Sampled establishments are contacted by mail or telephone according to the preference of the respondent. Data capture and preliminary editing are performed simultaneously to ensure the validity of the data.

In some cases, combined reports are received from enterprises or companies with more than one establishment in the sample where respondents prefer not to provide individual establishment reports. Businesses, which do not report or whose reports contain errors, are followed up immediately.

Data Quality

Statistical Edit and Imputation

Data are analyzed within each industry-province cell. Extreme values are listed for inspection by the magnitude of the deviation from average behavior. Respondents are contacted to verify extreme values. Records that fail statistical edits are considered outliers and are not used for imputation.

Values are imputed for the non-responses, for establishments that do not report or only partially complete the survey form. A number of imputation methods are used depending on the variable requiring treatment. Methods include using industryprovince cell trends, historical responses, or reference to the ASM. Following imputation, the MSM staff performs a final verification of the responses that have been imputed.

Revisions

In conjunction with preliminary estimates for the current month, estimates for the previous three months are revised to account for any late returns. Data are revised when late responses are received or if an incorrect response was reported earlier.

Estimation

Estimates are calculated by multiplying an estimation weight to an establishment's reported responses. The estimation weight is the inverse of the sampled establishment's probability of selection. Take all units are self-representative.

Benchmarking

As of January 2004, the Monthly Survey of Manufacturing (MSM) data were revised back to January 1999. Although the historical month-to-month movements were preserved. there were adjustments made to the levels.

The adjustments made to the MSM data were the result of several factors: the use of new and revised data; updates to the industrial classification (NAICS); the updating of the seasonal adjustment factors; and most significantly, the benchmarking of the MSM to the 2000 and 2001 ASM levels.

Starting with reference year 2000, the ASM incorporated some significant conceptual and methodological changes. The most important change was the expansion to include all manufacturing establishments in Canada. Previously only incorporated establishments that had employees and had sales greater than \$30,000 were covered by the ASM. Consequently, by benchmarking to the 2000 and 2001 ASM, the previously released MSM shipments data (which had been benchmarked to the 1998 ASM levels) were revised upwards by about 5.5% at the Canada level.

Sampling and Non-sampling Errors

The statistics in this publication are estimates derived from a sample survey and, as such, can be subject to errors. The following material is provided to assist the reader in the interpretation of the estimates published.

Estimates derived from a sample survey are subject to a number of different kinds of errors. These errors can be broken down into two major types: sampling and nonsampling.

1. Sampling Errors

Sampling errors are an inherent risk of sample surveys. They result from the difference between the value of a variable if it is randomly sampled and its value if a census is taken (or the average of all possible random values). These errors are present because observations are made only on a sample and not on the entire population.

The sampling error depends on factors such as the size of the sample, variability in the population, sampling design and method of estimation. For example, for a given sample size, the sampling error will depend on the stratification procedure employed, allocation of the sample, choice of the sampling units and method of selection. (Further, even for the same sampling design, we can make different calculations to arrive at the most efficient estimation procedure.) The most important feature of probability sampling is that the sampling error can be measured from the sample itself.

2. Non-sampling Errors

Non-sampling errors result from a systematic flaw in the structure of the data-collection procedure or design of any or all variables examined. They create a difference between the value of a variable obtained by sampling or census methods and the variable's true value. These errors are present whether a sample or a complete census of the population is taken. Non-sampling errors can be attributed to one or more of the following sources:

- a) Coverage error: This error can result from incomplete listing and inadequate coverage of the population of interest.
- b) Data response error: This error may be due to questionnaire design, the characteristics of a question, inability or unwillingness of the respondent to provide correct information, misinterpretation of the questions or definitional problems.
- c) Non-response error: Some respondents may refuse to answer questions, some may be unable to respond, and others may be too late in responding. Data for the non-responding

units can be imputed using the data from responding units or some earlier data on the non-responding units if available.

The extent of error due to imputation is usually unknown and is very much dependent on any characteristic differences between the respondent group and the non-respondent group in the survey. This error generally decreases with increases in the response rate and attempts are therefore made to obtain as high a response rate as possible.

d) Processing error: These errors may occur at various stages of processing such as coding, data entry, verification, editing, weighting, and tabulation, etc. Non-sampling errors are difficult to measure. More important, non-sampling errors require control at the level at which their presence does not impair the use and interpretation of the results.

Measures have been undertaken to minimize the nonsampling errors. For example, units have been defined in a most precise manner and the most up-to-date listings have been used. Questionnaires have been carefully designed to minimize different interpretations. As well, detailed acceptance testing has been carried out for the different stages of editing and processing and every possible effort has been made to reduce the non-response rate as well as the response burden.

Measures of Sampling and Non-sampling Errors

1. Sampling Error Measures

The sample used in this survey is one of a large number of all possible samples of the same size that could have been selected using the same sample design under the same general conditions. If it was possible that each one of these samples could be surveyed under essentially the same conditions, with an estimate calculated from each sample, it would be expected that the sample estimates would differ from each other.

The average estimate derived from all these possible sample estimates is termed the expected value. The expected value can also be expressed as the value that would be obtained if a census enumeration were taken under identical conditions of collection and processing. An estimate calculated from a sample survey is said to be precise if it is near the expected value.

Sample estimates may differ from this expected value of the estimates. However, since the estimate is based on a probability sample, the variability of the sample estimate with respect to its expected value can be measured. The variance of an estimate is a measure of the precision of the sample estimate and is defined as the average, over all possible samples, of the squared difference of the estimate from its expected value.

The standard error is a measure of precision in absolute terms. The coefficient of variation, defined as the standard error divided by the sample estimate, is a measure of precision in relative terms. For comparison purposes, one may more readily compare the sampling error of one estimate to the sampling error of another estimate by using the coefficient of variation.

In this publication, the coefficient of variation is used to measure the sampling error of the estimates. However, since the coefficient of variation published for this survey is calculated from the responses of individual units, it also measures some non-sampling error.

The formula used to calculate the published coefficients of variation (CV) in Table 1 is:

$$CV(X) = \frac{S(X)}{X}$$

where X denotes the estimate and S(X) denotes the standard error of X.

In this publication, the coefficient of variation is expressed as a percentage.

Confidence intervals can be constructed around the estimate using the estimate and the coefficient of variation. Thus, for our sample, it is possible to state with a given level of confidence that the expected value will fall within the confidence interval constructed around the estimate. For example, if an estimate of \$12,000,000 has a coefficient of variation of 10%, the standard error will be \$1,200,000 or the estimate multiplied by the coefficient of variation. It can then be stated with 68% confidence that the expected value will fall within the interval whose length equals the standard deviation about the estimate, i.e., between \$10,800,000 and \$13,200,000. Alternatively, it can be stated with 95% confidence that the expected value will fall within the interval whose length equals two standard deviations about the estimate, i.e., between \$9,600,000 and \$14,400,000.

The table below contains the national level CVs, expressed as a percentage, for all manufacturing for the MSM characteristics. For CVs at other aggregate levels, contact the Marketing and Dissemination Section at (613) 951-9497, toll free: 1-866-873-8789 or by e-mail at manufact@statcan.ca.

National Level CVs by Characteristic

Month	Shipments	Raw Material Inven- tories	Goods in Process Inven- tories	Finished Product Inven- tories	Unfilled Orders
			%		
January 2003 February 2003 March 2003 April 2003 May 2003 June 2003 July 2003 August 2003 September 2003 October 2003 November 2003 December 2003 January 2004	0.52 0.51 0.53 0.55 0.56 0.55 0.62 0.53 0.57 0.57 0.57 0.59 0.58 0.58	0.91 0.89 0.94 0.94 0.94 0.97 0.98 0.99 1.01 1.03 1.07	0.78 0.78 0.82 0.83 0.81 0.85 0.85 0.91 1.00 0.98 1.06	1.21 1.20 1.23 1.26 1.28 1.33 1.42 1.36 1.42 1.39 1.31 1.31	2.09 2.20 2.19 2.17 2.14 2.23 2.23 2.24 2.07 2.08 2.03 2.00 1.93

2. Non-sampling Error Measures

The exact population value is aimed at or desired by both a sample survey as well as a census. We say the estimate is accurate if it is near this value. Although this value is desired, we cannot assume that the exact value of every unit in the population or sample can be obtained and processed without error. Any difference between the expected value and the exact population value is termed the bias. Systematic biases in the data cannot be measured by the probability measures of sampling error as previously described. The accuracy of a survey estimate is determined by the joint effect of sampling and non-sampling errors.

Three sources of non-sampling error in the MSM are nonresponse error, imputation error and the error due to editing. To assist users in evaluating these errors, weighted rates that are related to these three types of error are given in Table 2. The following is an example of what is meant by a weighted rate. A cell with a sample of 20 units in which five respond for a particular month would have a response rate of 25%. If these five reporting units represented \$8 million out of a total estimate of \$10 million, the weighted response rate would be 80%.

The definitions of the three weighted rates noted in Table 2 follow. The weighted response rate is the proportion of a characteristic's total estimate that is based upon reported data (excluding data that has been edited). The weighted imputation rate is the proportion of a characteristic's total estimate that is based upon imputed data. The weighted editing rate is the proportion of a characteristic's total estimate that is based upon data that was edited (edited data may have been originally reported or imputed).

The table below contains the three types of weighted rates for each of the characteristics at the national level for all of manufacturing. In the table, the rates (expressed as percentages) are averages over the last thirteen months.

Average National Weighted Rates by Characteristic

Characteristic	Response	Imputation	Editing
		%	
Shipments Raw Materials Goods in Process Finished Products Unfilled Orders	91.81 79.10 66.71 79.09 84.93	5.59 17.54 10.13 13.87 7.12	2.60 3.36 23.16 7.04 7.95

Joint Interpretation of Measures of Error

The measure of non-response error as well as the coefficient of variation must be considered jointly to have an overview of the quality of the estimates. The lower the coefficient of variation and the higher the weighted response rate, the better will be the published estimate.

Seasonal Adjustment

Economic time series contain the elements essential to the description, explanation and forecasting of the behavior of an economic phenomenon. They are statistical records of

the evolution of economic processes through time. In using time series to observe economic activity, economists and statisticians have identified four characteristic behavioral components: the long-term movement or trend, the cycle, the seasonal variations and the irregular fluctuations. These movements are caused by various economic, climatic or institutional factors. The seasonal variations occur periodically on a more or less regular basis over the course of a year. These variations occur as a result of seasonal changes in weather, statutory holidays and other events that occur at fairly regular intervals and thus have a significant impact on the rate of economic activity.

In the interest of accurately interpreting the fundamental evolution of an economic phenomenon and producing forecasts of superior quality, Statistics Canada uses the X11ARIMA/88 seasonal adjustment method to seasonally adjust its time series. This method minimizes the impact of seasonal variations on the series and essentially consists of adding one year of estimated raw data to the end of the original series before it is seasonally adjusted per se. The estimated data are derived from forecasts using ARIMA (Auto Regressive Integrated Moving Average) models of the Box-Jenkins type.

The X-11 part of the X11ARIMA/88 program uses primarily a ratio-to-moving average method. It is used to smooth the modified series and obtain a preliminary estimate of the trendcycle. It also calculates the ratios of the original series (fitted) to the estimates of the trend-cycle and estimates the seasonal factors from these ratios. The final seasonal factors are produced only after these operations have been repeated several times.

The procedures to determine the seasonal factors necessary to calculate the final seasonally adjusted data are executed every month. This approach ensures that the estimated seasonal factors are derived from an unadjusted series that includes all the available information about the series, i.e. the current month's unadjusted data as well as the previous month's revised unadjusted data.

While seasonal adjustment permits a better understanding of the underlying trend-cycle of a series, the seasonally adjusted series still contains an irregular component. Slight month-to-month variations in the seasonally adjusted series may be simple irregular movements. To get a better idea of the underlying trend, users should examine several months of the seasonally adjusted series.

The Canada seasonally adjusted total is derived indirectly by the summation of the individually seasonally adjusted kinds of business.

Trend

A seasonally adjusted series may contain the effects of irregular influences and special circumstances and these can mask the trend. The short term trend shows the underlying direction in seasonally adjusted series by averaging across months, thus smoothing out the effects of irregular influences. The result is a more stable series. The trend for the last month may be, subject to significant revision as values in future months are included in the averaging process.



Manufacturing, Construction and Energy Division

Monthly Survey of Manufacturing

Division de la fabrication, de la construction et de l'énergie

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Enquête mensuelle sur les industries manufacturières

Confidential when completed

Collected under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19.

Confidentiel une fois rempli

Y–A	М

Renseignements recueillis en vertu de La Loi sur la statistique, Lois révisées du Canada, 1985, chapitre S19.

If you need assistance, please call telephone No. below. Si vous avez besoin d'aide, veuillez téléphoner au n° suivant.

Telephone/Téléphone:

Toll Free/Numéro sans frais:

Fax/Télécopieur:

Toll Free Fax/Télécopieur sans frais:



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INFORMATION SHARING AGREEMENTS:

To reduce response burden and to ensure more uniform statistics, Statistics Canada has entered into agreements with government departments and agencies for the sharing of data. See the second page for details of the agreements concerning this survey.

ENTENTES DE PARTAGE DES DONNÉES:

Pour alléger le fardeau de réponse et assurer des statistiques plus uniformes, Statistique Canada a conclu des ententes avec des ministères et organismes publics en vue d'un échange de données. Voir la deuxième page pour détails sur les accords concernant cette enquête.

Please correct name, address and establishment coverage if necessary - Veuillez corriger le nom, l'adresse et le regroupement d'établissements s'il y a lieu.

- When values are not available by the due date, estimates are acceptable.
- Do not report cumulative or year-to-date values.
- Lorsque les valeurs ne sont pas disponibles à la date d'échéance, on peut accepter un estimé de ces valeurs.
- Ne donnez pas des chiffres cumulatifs.

reported.	alues are not normally	ne sont pas normalement rapportées.	ii ou i	ies vaieui	S	
1. Shipments – Livraisons		2. Inventories – Stocks manufact	turie	ers		
Goods of own manufacture Produits de propre fabrication	Omit cents – Omettre les cents	a) Raw materials, fuel, supplies, Matières premières, combustible, fournitures	04			
b) Goods purchased for resale Produits achetés pour la revente	02	b) Goods in Process (gross value) Produits en cours (valeur brute)	05			
TOTAL		c) Finished products of own manufacture Produits finis de propre fabrication	07			
		d) Goods purchased for resale Produits achetés pour la revente	08			
3. Orders – Commandes		TOTAL 4. Period – Période				
Unfilled orders at month end Commandes non remplies à la fin du mois	09	Closing date of accounting period covered Date de clôture de la période comptable		ith – Mois	Day -	– Jour
Name of contact – Nom de la personne–	ressource	Tel. No. – N° de tél. Area code. Ind. rég.		Date Y-A	M	D–J
Position – Fonction						

Thank you for your cooperation – Merci de votre collaboration

5-3100-1054:2002-05-14 STC/MCE 310-60194 - SQC/MCE 310-60194



Statistics Canada

Statistique Canada



INFORMATION SHARING AGREEMENTS:

Section 11 of the federal Statistics Act provides for the joint collection and sharing of information with provincial statistical agencies which (1) have been established under provincial legis—lation providing substantially the same provisions for confidentiality and penalties for disclosure of confidential information as the federal Statistics Act, and (2) have the provincial or territorial legislative authority to collect this information on their own. Section 11 therefore was designed to reduce response burden and to facilitate the production of consistent and high quality national and provincial statistics.

A Section 11 agreement is in effect with the Institut de la statistique du Québec with respect to establishments located within the boundaries of that province.

ACCORDS DE PARTAGE DES DONNÉES:

L'article 11 de la Loi fédérale sur la statistique prévoit la collecte conjointe et le partage des données avec les organismes statistiques provinciaux qui 1) ont été établis en vertu d'une loi provinciale prévoyant essentiellement le même degré de protection de la confidentialité et les mêmes sanctions relatives à la divulgation d'information confidentielle que la Loi fédérale sur la statistique, et 2) sont autorisés légalement, par leur province ou leur territoire à recueillir eux-mêmes l'information. L'article 11 vise donc à réduire le fardeau de réponse et à faciliter la production de statistiques cohérentes et de bonne qualité aux niveaux fédéral et provincial.

L'accord en vertu de l'article 11 a été conclu avec l'Institut de la statistique du Québec en ce qui a trait aux établissements situés à l'intérieur des limites de cette province.

Comments - Commentaires	
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