



Monthly Survey of Manufacturing

August 2003





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Monthly Survey of Manufacturing

August 2003

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- . 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

The lights dimmed on manufacturers in August. Shipments fell 4.5% to \$40.9 billion, the lowest level since December 2001. The aftermath of the electrical blackout in mid-August, which cloaked much of Ontario in darkness, was one of several factors contributing to the decline.

Power blackout hits hard in Ontario

Shipments in Ontario plunged 7.8% (-\$1.8 billion) to \$21.2 billion in August. The decrease was notably due to the electrical blackout of August 14 and its lingering impact. In the week that followed, Ontarians were requested to conserve power because of low energy supplies. Large decreases in shipments were reported by several industries, including motor vehicles, chemical products and food manufacturing.

Ontario led the six provinces reporting lower shipments in August. Excluding the significant influence of Ontario from the Canada total, manufacturing shipments decreased 0.8%. Quebec manufacturers posted a 2.6% drop (-\$260.0 million) in August, the first since May. The transportation equipment and primary metals industries contributed to the decrease.

Manufacturers hit by many extenuating factors in 2003

The Ontario blackout aside, manufacturers continued to cope with the effects of several short-range but significant shocks in recent months. The Canadian dollar began its ascent at the start of the year. Although the dollar has abated somewhat since the spring, it remains high and continues to jeopardize the profit margins of many Canadian manufacturers reliant on the export market.

In August, Canadian beef remained stalled at the border, as the international ban on exports of beef products continued. The ban was first imposed in late May following the discovery of a single case of bovine spongiform encephalopathy (BSE) in Alberta. In early September, the first shipments of some low-risk cuts of boneless beef crossed the border, as the United States agreed to a partial lifting of the ban.

In addition to these obstacles, market uncertainty remains in the motor vehicle industry. Manufacturers continue to partly gauge production and inventory levels through incentiveinduced retail sales. Meanwhile, aerospace manufacturers continue to endure a very depressed global marketplace for new aircraft.

Shipments by province and territory

	July 2003	August 2003	July to August 2003
	Seas	ed	
	\$ 1	% change	
Newfoundland and Labrador	213	200	-6.1
Prince Edward Island	110	97	-11.8
Nova Scotia	723	716	-1.0
New Brunswick	1,019	1,094	7.4
Quebec	9,959	9,699	-2.6
Ontario	23,029	21,238	-7.8
Manitoba	969	971	0.2
Saskatchewan	616	601	-2.6
Alberta	3,482	3,513	0.9
British Columbia	2,748	2,793	1.6
Yukon, Northwest Territories			
and Nunavut	5	6	28.5

Factory jobs decline in 2003

On the job front, manufacturing employment edged down 15,000 in September, bringing jobs losses so far in 2003 to 77,000 (-3.3%), according to the latest report of the Labour Force Survey. This contrasts with 2002, when manufacturing was the engine of job growth.

Majority of manufacturers report lower shipments

In August, 15 of 21 manufacturing industries, accounting for 68% of total shipments, reported decreases. Manufacturers of both durable and non-durable goods posted declines. Shipments of big-ticket durable goods fell 7.1% to \$22.8 billion, the sixth decrease thus far in 2003. Nondurable goods shipments fell back 1.1%, wiping out July's 0.5% gain.

Motor vehicle manufacturing plummets

Motor vehicle manufacturers suffered a major setback in August. Shipments plummeted 23.1% to \$4.4 billion, following a healthy gain in July (+10.5%). Meanwhile, year-to-date shipments are down 4.7% from the same period of 2002.

August marked the largest monthly shipment decline in motor vehicles, in terms of percent change, since October 1996's 29.7% decrease, the result of a three-week strike at General Motors. In June and July of 1998, another GM strike in the United States contributed to a two-month decline in shipments of 31%.

In 2003, production activity in the motor vehicle industry has been volatile. The August 14 blackout, which encompassed much of the manufacturing belt of southern Ontario, resulted in numerous plant closures and production slowdowns. Additionally, some assembly plants were already operating at a reduced capacity for inventory-control measures and for re-tooling purposes, as new models will be launched shortly. Meanwhile, the retail side of the auto sector remains laden with incentives, as manufacturers try to entice consumers to their product.

Other industries report sharp decreases in August

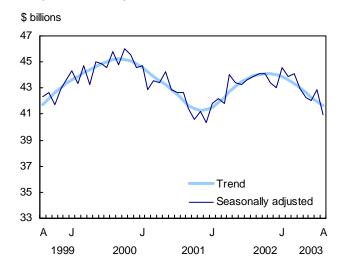
Excluding the motor vehicle and parts industries, shipments fell a sizable 1.6% in August. The chemical products industry reported shipments of \$3.1 billion, down 5.3% from July. The electricity blackout reduced shipment levels at many Ontariobased plants. In addition, some manufacturers had already curtailed production as a result of high input costs of recent months.

The primary metals and aerospace products and parts industries also reported sharp declines in August. Shipments of primary metals fell 4.8% to \$2.6 billion, a 19-month low. Meanwhile, production in the beleaguered aerospace industry decreased 9.6% to \$924 million, the lowest level since March.

Rising industrial prices slightly offset the overall decline in shipments

Higher shipments of wood products and petroleum and coal products partly offset the overall decrease in August. The increases were less related to production volumes, and more to rising industrial prices for these industries. Shipments of wood products rose 3.6% to \$2.4 billion, the highest level in 2003. A sharp upturn in prices since June, the result of continuing strong demand in the North American housing market, and supply concerns due to the forest fire situation in British Columbia have contributed to a significant rise in the value of shipments in recent months.

Shipments slump to a 20-month low



Shipments of petroleum and coal products rose 2.5% to \$2.9 billion in August, entirely the result of a 5.2% jump in petroleum prices. Shipments are at the highest level since April.

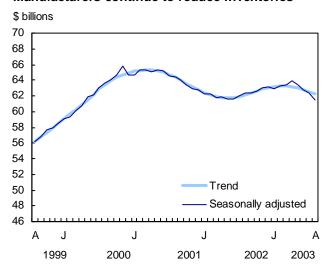
Manufacturers continue to reduce inventories

In August, manufacturers sliced another 1.4% from inventories, the fourth consecutive decline. Inventories were \$61.5 billion, the lowest level in more than three years. August's decrease, which was concentrated in finishedproducts, was largely attributable to manufacturers drawing down their finished-product inventories to meet product demand. As a result of the blackout, many manufacturers curtailed production activity during the month.

Manufacturers reduced finished-product inventories by 2.4% to \$19.1 billion in August, the lowest level in one year, and the fourth decrease in a row. Meanwhile, raw material (-0.6%) and goods-in-process (-1.6%) inventories were also scaled down during the month.

The primary contributors to the lower inventories in August were the aerospace products and parts (-2.8%), wood products (-3.3%) and motor vehicles (-7.0%) industries.

Manufacturers continue to reduce inventories



August's slide in shipments drives up the inventoryto-shipment ratio

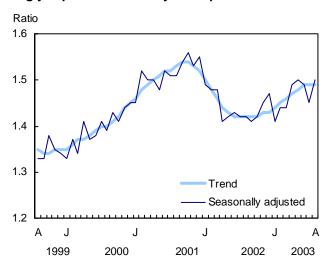
The inventory-to-shipment ratio jumped to 1.50 in August from July's recent low (1.45). The steep drop in manufacturing shipments was responsible for the sizable gain in the ratio. August's level matches that of last May, and is the highest since December 2001 (1.55), a time of stubbornly high inventories relative to weak demand.

The inventory-to-shipment ratio has been inching upwards over the last year. In August 2002, the ratio stood at 1.42.

The finished-product inventory-to-shipment ratio edged up in August to 0.47 from July's 0.46. August's significant decline in finished-product inventories was outpaced by the 4.5% drop in shipments, contributing to the rise in the ratio. The ratio has been on an upward trend since mid-2002.

The finished-product inventory-to-shipment ratio is a measure of the time that would be required in order to exhaust finished-products if shipments were to remain at their current level.

Big jump in the inventory-to-shipment ratio



Reduced levels of unfilled orders persist

Cancelled orders contributed to an already weakened state for unfilled orders. In August, manufacturers' backlog of unfilled orders fell 1.5% to \$38.4 billion, the lowest level since October 1997. Unfilled orders are often considered a key determinant of future shipments.

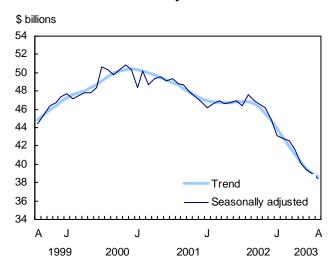
August's decline marked the twelfth straight decrease in unfilled orders. The longest string of consecutive declines was the 14 reported during the 1990-1991 recession.

The global slump in the aviation sector and the subsequent lack of new contracts continued to erode the level of unfilled orders overall. The aerospace products and parts industry reported a 3.8% decrease in orders to \$11.3 billion in August,

marking the twenty-third decline in a row for the beleaguered industry. Excluding the aerospace industry, unfilled orders remained down 0.5%.

Also reporting fewer orders on the books were machinery manufacturers. Unfilled orders fell 1.1% to \$6.0 billion, partly offsetting July's 1.6% gain. Orders for heavy machinery have been slowing since the recent peak of \$7.2 billion in March.

Unfilled orders near a six year low



New orders lose ground

New orders decreased a sizable 4.9% to \$40.3 billion in August, wiping out gains of June (+1.9%) and July (+2.3%). New orders are at their lowest level since December 2001. Widespread decreases were reported in August, including in motor vehicle, machinery and primary metals manufacturing.

Note to readers

In addition to current-month estimates, data for the previous three months are regularly revised. Factors influencing revisions include late receipt of company data, incorrect information reported earlier, replacement of estimates with actual figures (once available), and seasonal adjustments. Consult the appropriate CANSIM tables for revised data.

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

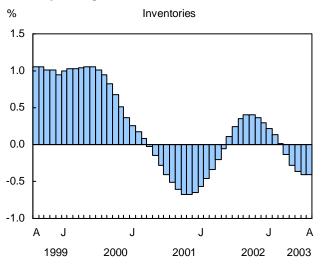
Durable goods industries include clothing, wood products, non-metallic mineral products, primary metals, fabricated metal products, machinery, computer and electronic products, electrical equipment, appliance and components, transportation equipment, furniture and related products and miscellaneous manufacturing.

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

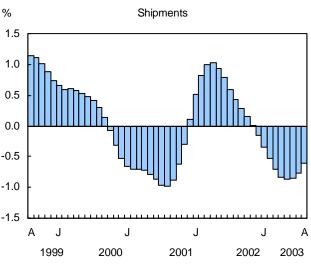
New orders are those received whether shipped in the current month or not. They are measured as the sum of shipments for the current month plus the change in unfilled orders. Some people interpret new orders as orders that will lead to future demand. This is inappropriate since the "new orders" variable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

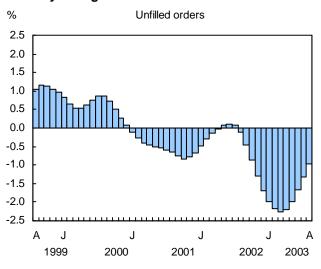
Monthly change in trend



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 2002	January 22, 2003
December 2002	February 18, 2003
January 2003	March 18, 2003
February 2003	April 16, 2003
March 2003	May 15, 2003
April 2003	June 13, 2003
May 2003	July 16, 2003
June 2003	August 14, 2003
July 2003	September 16, 2003
August 2003	October 15, 2003
September 2003	November 14, 2003
October 2003	December 16, 2003
November 2003	January 21, 2004
December 2003	February 13, 2004

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Table 1 All manufacturing industries

		υ	nadjusted					S	easo	nally adju	sted	
Period	Shipments	Invento		filled ders	New orders		Shipments		Inventories		Unfilled orders	New orders
						\$ millio	ons					
August 2002	45,110	62	,231 48	,159	46,122		43	,851	62,	407	47,556	44,968
September 2002	45,149	62	,193 47	,324	44,308		44	,134	62,	320	46,963	43,541
October 2002	47,191	62	,295 46	,773	46,640		44	,132	62,	580	46,491	43,660
November 2002	44,305	63	,129 46	,202	43,734		43	,385	62,	989	46,127	43,021
December 2002	39,721	62	,389 44	,536	38,054		42	,998	63,	161	44,820	41,690
January 2003	41,879	62	,601 42	,643	39,986		44	,520	62,	929	43,123	42,823
February 2003	40,817	63	,980 42	,588	40,762		43	,901	63,	307	42,807	43,584
March 2003	45,280	64	,512 42	,467	45,159		44	,070	63,	368	42,616	43,879
April 2003	43,482	64	,595 41	,315	42,330		42	,953	63,	898	41,630	41,967
May 2003	44,714	63	,666 40	,096	43,495		42	,285	63,	358	40,057	40,711
June 2003	43,789	62	,322 39	,254	42,946		42	,063	62,	702	39,461	41,468
July 2003	39,413	61	,558 39	,197	39,357		42	,874	62,	349	39,009	42,422
August 2003	41,417	61	,224 38	,751	40,970		40	,928	61,	458	38,423	40,341
	Mo	onth to mo	onth % change		In	ventory	v to		Mon	ith to moi	nth % change	
	Shipmen	ts	Invento	shipments ratio		Unfille	Unfilled orders		New or	ders		
	Seasonally adjusted	Trend	Seasonally adjusted	Trend	Seaso adju	onally usted	Trend	Seasona adjus		Trend	Seasonally adjusted	Trend
August 2002	0.5	0.4	0.7	0.3		1.42	1.42		2.4	-0.1	4.2	0.2
September 2002	0.6	0.3	-0.1	0.4		1.41	1.42		1.2	-0.4	-3.2	-0.1
October 2002	0.0	0.2	0.4	0.4		1.42	1.42		1.0	-0.9	0.3	-0.3
November 2002	-1.7	0.0	0.7	0.4		1.45	1.43		0.8	-1.3	-1.5	-0.4
December 2002	-0.9	-0.2	0.3	0.3		1.47	1.43		2.8	-1.7	-3.1	-0.5
January 2003	3.5	-0.3	-0.4	0.2		1.41	1.44		3.8	-2.0	2.7	-0.6
February 2003	-1.4	-0.5	0.6	0.1		1.44	1.45		0.7	-2.2	1.8	-0.7
March 2003	0.4	-0.7	0.1	0.0		1.44	1.46		0.4	-2.3	0.7	-0.7
April 2003	-2.5	-0.8	0.8	-0.1		1.49	1.47		2.3	-2.2	-4.4	-0.7
May 2003	-1.6	-0.9	-0.8	-0.3		1.50	1.48		3.8	-2.0	-3.0	-0.6
June 2003	-0.5	-0.9	-1.0	-0.4		1.49	1.49		1.5	-1.7	1.9	-0.5
July 2003	1.9	-0.8	-0.6	-0.4		1.45	1.49		1.1	-1.3	2.3	-0.4

Table 2
Motor vehicle, and parts and accessories industries

		l	Jnadjusted			Seasonally adjusted						
Period	Shipments	Inven		ifilled rders	New orders	Shi	pments	Invento	ories	Unfilled orders	New orders	
					\$ m	illions						
August 2002	8,832		3,490	1,939	8,995		8,590	3	,493	1,894	8,750	
September 2002	8,417		3,525	2,060	8,537		8,347	3	,512	2,031	8,485	
October 2002	9,054		3,445	1,968	8,962		8,298	3	,450	1,959	8,226	
November 2002	8,695		3,660	1,933	8,660		8,124	3	,586	1,932	8,097	
December 2002	6,157		3,689	1,855	6,079		7,258	3	,751	1,853	7,179	
January 2003	8,166		3,585	1,834	8,145		8,236	3	,552	1,816	8,199	
February 2003	8,211		3,630	1,787	8,164		8,076	3	,580	1,779	8,039	
March 2003	8,926		3,529	1,724	8,863		8,335	3	,495	1,730	8,286	
April 2003	8,538		3,500	1,630	8,443		8,039	3	,489	1,680	7,989	
May 2003	8,733		3,420	1,581	8,684		7,935	3	,395	1,606	7,861	
June 2003	8,403		3,238	1,583	8,405		7,776	3	,307	1,605	7,776	
July 2003	5,318		3,156	1,607	5,342		8,296	3	,235	1,600	8,290	
August 2003	6,930		3,053	1,601	6,924		6,908	3	,068	1,611	6,920	
	Mo	onth to m	nonth % change		Inven	tory to		Moi	nth to mo	nth % change		
	Shipmen	ts	Invento	ories	shipme	nts ratio	U	nfilled or	ders	New ord	ders	
	Seasonally adjusted	Trend	Seasonally adjusted	Trend	Seasonall adjuste		Sea a	asonally idjusted	Trend	Seasonally adjusted	Trenc	
August 2002	-2.4	-0.1	-2.3	0.6	0.4	1 0.41		9.2	2.7	-1.0	-0.2	
September 2002	-2.8	-0.4	0.6	0.5	0.4			7.3	1.9	-3.0	-0.6	
October 2002	-0.6	-0.6	-1.8	0.5	0.4			-3.5	0.7	-3.1	-0.9	
November 2002	-2.1	-0.7	3.9	0.4	0.4			-1.4	-0.5	-1.6	-1.0	
December 2002	-10.7	-0.7	4.6	0.2	0.5			-4.1	-1.6	-11.3	-0.9	
January 2003	13.5	-0.6	-5.3	-0.2	0.4			-2.0	-2.4	14.2	-0.8	
February 2003	-1.9	-0.7	0.8	-0.6	0.4			-2.1	-2.8	-2.0	-0.7	
March 2003	3.2	-0.9	-2.4	-1.1	0.4			-2.8	-2.9	3.1	-0.9	
April 2003	-3.5	-1.2	-0.2	-1.4	0.4			-2.9	-2.7	-3.6	-1.2	
May 2003	-1.3	-1.7	-2.7	-1.5	0.4			-4.4	-2.2	-1.6	-1.5	
June 2003	-2.0	-2.1	-2.6	-1.5	0.4			0.0	-1.4	-1.1	-1.9	
July 2003	6.7	-2.3	-2.2	-1.4	0.3			-0.4	-0.8	6.6	-2.2	
-												

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

		U	nadjusted					Sea	sonally adj	ısted	
Period	Shipments	Invent		filled ders	New orders		Shipm	ents Inver	tories	Unfilled orders	New orders
					\$	millic	ons				
August 2002	36,279	58	3,740 46	,220	37,127		35	,261 5	8,914	45,663	36,218
September 2002	36,732	58	3,668 45	,264	35,771		35	787 5	8,808	44,932	35,056
October 2002	38,137	58	3,850 44	,804	37,678		35	,834 5	9,130	44,532	35,434
November 2002	35,610	59	9,468 44	,269	35,075		35	260 5	9,403	44,195	34,923
December 2002	33,564	58	3,700 42	,681	31,975		35	,740 5	9,410	42,967	34,511
January 2003	33,713	59	9,016 40	,809	31,841		36	,284 5	9,376	41,307	34,624
February 2003	32,607	60),350 40	,801	32,598		35	,825 5	9,728	41,027	35,546
March 2003	36,354	60),983 40	,743	36,296		35	735 5	9,873	40,886	35,593
April 2003	34,945	61	,095 39	,685	33,887		34	,914 6	0,409	39,950	33,979
May 2003	35,981	60),246 38	,515	34,811		34	,350 5	9,963	38,451	32,850
June 2003	35,385	59	9,084 37	,671	34,541		34	.287 5	9,395	37,855	33,692
July 2003	34,096	58	3,402 37	,590	34,015		34	578 5	9,114	37,409	34,132
August 2003	34,487	58	3,171 37	,149	34,046		34	,020 5	8,390	36,811	33,422
	Mo	nth to mo	onth % change		Inve	entory	/ to	M	onth to mo	nth % change	
	Shipmen	ts	Invento	shipments ratio		Unfilled orders		New or	ders		
	Seasonally adjusted	Trend	Seasonally adjusted	Trend	Season adjus	,	Trend	Seasonally adjusted		Seasonally adjusted	Trend
August 2002	1.2	0.6	0.9	0.3	1	.67	1.65	2.1	-0.2	5.5	0.3
September 2002	1.5	0.5	-0.2	0.4		.64	1.65	-1.6		-3.2	0.1
October 2002	0.1	0.3	0.5	0.4		.65	1.65	-0.9		1.1	-0.1
November 2002	-1.6	0.2	0.5	0.4		.68	1.66	-0.8		-1.4	-0.3
December 2002	1.4	0.0	0.0	0.3		.66	1.66	-2.8		-1.2	-0.5
January 2003	1.5	-0.3	-0.1	0.2		.64	1.67	-3.9		0.3	-0.6
February 2003	-1.3	-0.5	0.6	0.2		.67	1.68	-0.7		2.7	-0.7
March 2003	-0.3	-0.7	0.2	0.1		.68	1.70	-0.3		0.1	-0.7
April 2003	-2.3	-0.7	0.9	-0.1		.73	1.71	-2.3		-4.5	-0.6
May 2003	-1.6	-0.7	-0.7	-0.2		.75	1.72	-3.8		-3.3	-0.4
June 2003	-0.2	-0.6	-0.9	-0.3		.73	1.72	-1.5		2.6	-0.2
54115 £000	0.2		0.0		'	., 0	1.12	1.0			
July 2003	0.8	-0.4	-0.5	-0.4	1	.71	1.72	-1.2	-1.3	1.3	0.0

Table 4 Shipments by major group and selected industries

				Unadjuste	d			
				Curr	ent periods			
	NAICS Code	August 2003		July 2003	June 2003		May 2003	
				\$ millions	;			
rable goods industries	311 312 313 314 315 321 322 323 324 325 326 327 331 332 333 334 335 336 3361 3362 3363 3364 3365 3366 337 339	5,352 1,267 239 182 562 81 2,495 2,643 786 3,127 3,016 1,937 1,168 2,453 2,373 1,711 1,419 702 8,373 4,370 182 2,561 859 151 68 1,068 462	5,354 1,323 194 188 492 46 2,383 2,617 779 2,931 3,159 1,882 1,189 2,512 2,299 1,851 1,301 698 6,764 3,456 214 1,861 851 149 75 995		5,446 1,278 254 202 432 432 42 2,393 2,567 803 2,743 3,462 2,020 1,169 2,629 2,426 1,882 1,671 785 10,069 5,702 233 2,701 957 259 84		5,546 1,209 264 213 480 48 2,409 2,678 857 2,778 2,792 1,131 2,751 1,994 1,433 768 10,421 6,010 263 2,723 958 249 11,552 455	
Non-durable goods industries Durable goods industries Manufacturing		18,630 22,787 41,417		18,473 20,940 39,413	18,816 24,973 43,789		19,453 25,261 44,714	
		Previou	s year	Year-to-da	ate	Annua	<u> </u>	
		August 2002	July 2002	% Change from 2002	2003	% Change from 2001	2002	
	·			\$ millions	;			
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 parts manufacturing Motor vehicle 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 3361 3363 3363 3364 3365 3363	5,475 1,212 271 224 640 96 2,553 2,857 829 3,073 3,209 2,048 1,174 2,657 2,450 1,900 1,662 752 10,469 5,825 193 3,007 980 237 76 1,104 454	5,391 1,277 219 203 539 52 2,399 2,759 784 2,822 3,058 1,869 1,109 2,562 2,184 1,795 1,677 727 7,012 3,527 200 2,019 825 189 101 987 462	1.2 2.4 -10.5 -9.3 -8.4 -14.7 -6.9 -1.3 -0.4 21.0 7.7 0.9 5.7 2.5 0.8 -5.4 -17.1 -4.9 -4.3 -4.2 1.5 -5.1 -4.1 0.1 -29.1 1.2	41,685 8,972 1,942 1,533 4,033 401 18,697 21,211 6,553 24,314 26,799 15,608 7,846 21,806 18,299 15,032 11,695 5,921 76,612 42,381 1,831 20,844 7,743 1,855 696 8,256 3,573	1.1 3.7 -3.7 0.5 -3.0 -9.9 7.2 -4.4 -4.1 1.1 4.0 6.7 9.7 8.8 2.8 1.3 -16.5 -7.6 4.6 5.7 8.5 10.2 -15.0 5.4 20.6	62,911 13,304 3,210 2,520 6,785 777 29,498 32,726 10,061 32,350 37,769 23,002 24,113 21,255 9,335 119,746 65,797 2,704 12,472 2,878 1,242 2,878 1,242 12,303 5,527	
Non-durable goods industries Durable goods industries Manufacturing	<i>აა</i> ყ	19,295 25,816 45,110	18,433 21,454 39,887	4.4 -3.8 -0.4	3,573 149,020 191,771 340,791	1.1 2.5 1.9	218,631 299,874 518,505	

Table 4 Shipments by major group and selected industries - concluded

				Seas	onally adjusted			
	-	04			Current pe	riods		
	NAICS Code	Change from July		gust 2003	July 2003		June 2003	May 2003
					\$ millio	ns		
Food manufacturing Beverage and tobacco product manufacturing Textile mills Textile product mills Clothing manufacturing Leather and allied product manufacturing	311 312 313 314 315 316	22 12 0 -15 -23	1,	207 155 234 181 488 56	5,185 1,144 235 196 511 55		5,245 1,114 238 191 494 53	5,282 1,134 244 194 516
Wood product manufacturing Paper manufacturing Printing and related support activities Petroleum and coal products manufacturing Chemical manufacturing Plastics and rubber products manufacturing	321 322 323 324 325 326	84 -32 -32 73 -172 -68	2, 2, 3, 1,	421 609 802 949 097 879	2,337 2,641 834 2,876 3,268 1,947	2 3 1	2,248 2,612 831 2,824 3,305	2,207 2,682 842 2,835 3,307 1,905
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	327 331 332 333 334 335 336 3361 3362 3363 3364 3365 3365	-41 -129 -44 -94 28 -6 -1,500 -1,333 -16 -55 -98 -16	2, 2, 1, 1, 8, 4,	993 5510 855 435 735 483 483 435 217 474 474 177 76	1,034 2,678 2,360 1,949 1,407 741 9,983 5,767 233 2,529 1,021 194 83	2 2 1	,016 2,602 2,845 ,807 ,571 754 3,447 5,219 222 2,557 ,001 238	988 2,632 2,272 1,941 1,457 748 9,575 5,424 229 2,511 982 241
Furniture and related product manufacturing Miscellaneous manufacturing	337 339	-1 -10		033 450	1,033 460	1	,035 448	1,028 439
Non-durable goods industries Durable goods industries Manufacturing		-211 -1,735 -1,946	22,	169 759 928	18,380 24,494 42,874	23	3,297 3,766 2,063	18,482 23,803 42,285
		Change from previous month			Trend	change from	previous mor	th
		August 2003	July 2003	June 2003	August 2003	July 2003	June 2003	May 2003
	-			ı	percentage			
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 Ship and boat building Furniture and related product manufacturing Miscellaneous manufacturing	311 312 313 314 315 316 321 322 323 324 325 326 327 331 332 333 334 336 3361 3362 3363 3364 3365 3366 337 339	0.4 1.0 -0.2 -7.6 -4.5 2.7 3.6 -1.2 -3.8 2.5 -5.3 -3.5 -4.0 -4.8 -1.9 -4.8 2.0 -0.8 -15.0 -23.1 -7.0 -2.2 -9.6 -8.3 -7.9 -0.1	-1.2 2.7 -1.3 2.7 3.5 3.8 3.9 1.1 0.3 1.8 -1.1 3.3 1.8 2.9 0.6 7.8 -10.4 -1.7 5.7 10.5 5.0 -1.1 2.0 -18.6 6.6 -0.1 2.7	-0.7 -1.8 -2.7 -1.7 -4.3 -4.9 -1.9 -2.6 -1.3 -0.4 -0.1 -1.1 2.8 -1.2 3.2 -6.9 7.8 0.7 -1.3 -3.8 -3.1 1.9 -1.6 -7.2 0.7 2.1	-0.3 -0.4 -0.7 -0.1 -0.9 -0.4 -1.2 -0.6 -0.8 -0.2 -0.4 -0.1 -1.0 -0.4 -0.2 -0.3 -1.9 -3.0 -0.5 -0.8 -0.7 -4.7 -0.8 -0.0 -0.1	-0.5 0.4 -1.0 0.1 -1.2 0.2 1.0 -0.7 -0.8 -0.5 -0.5 -0.2 -1.3 0.1 -0.3 -0.7 -0.3 -0.7 -0.3 -0.7 -0.3 -0.7 -0.3 -0.7 -0.3	-0.5 -0.3 -1.1 -0.1 -1.6 -0.2 -0.5 -0.7 -0.8 -1.1 -0.7 -0.6 -0.3 -1.5 -0.2 -0.2 -1.2 -0.3 -1.9 -2.5 -0.6 -1.2 -0.4 -4.4 0.3 -0.1 -0.4	-0.5 0.2 -1.1 -0.4 -1.8 -0.2 -0.7 -0.7 -1.4 -0.8 -0.6 -0.3 -1.6 -1.8 -0.6 -1.8 -0.6 -1.4 -0.6 -1.4 -0.6 -3.4 0.9 -0.2 -0.2
Non-durable goods industries Durable goods industries Manufacturing		-1.1 -7.1 -4.5	0.5 3.1 1.9	-1.0 -0.2 -0.5	-0.3 -0.8 -0.6	-0.5 -1.0 -0.8	-0.7 -1.0 -0.9	-0.7 -1.0 -0.9

Table 5
Inventories by major group and selected industries

		Unadjusted									
				Curr	ent periods						
	NAICS Code	August 2003		July 2003	June 2003		May 2003				
				\$ millions	;						
Food manufacturing Beverage and tobacco product manufacturing Textile mills	311 312 313	4,850 1,753 446		4,810 1,769 459	4,795 1,779 454		4,767 1,815 455				
Textile product mills Clothing manufacturing Leather and allied product manufacturing	314 315 316	302 1,276 145		310 1,313 154	314 1,330 150		321 1,245 137				
Wood product manufacturing Paper manufacturing Printing and related support activities	321 322 323	4,048 3,524 719		4,201 3,597 715	4,279 3,620 701		4,579 3,632 705				
Petroleum and coal products manufacturing Chemical manufacturing Plastics and rubber products manufacturing	324 325 326	1,726 5,890 2,101		1,785 5,730 2,118	1,679 5,847 2,162		1,606 5,990 2,248				
Non-metallic mineral product manufacturing Primary metal manufacturing Fabricated metal product manufacturing Machinery manufacturing	327 331 332 333	1,204 4,666 3,528 4,325		1,235 4,722 3,569 4,341	1,230 4,745 3,620 4,486		1,246 4,861 3,676 4.616				
Computer and electronic product manufacturing Electrical equipment, appliance and component manufacturing Transportation equipment manufacturing	334 335 336	4,118 1,329 12,774		4,082 1,324 12,795	4,058 1,348 13,197		4,297 1,395 13,537				
Motor vehicle manufacturing Motor vehicle body and trailer manufacturing Motor vehicle parts manufacturing	3361 3362 3363	1,210 442 1,843		1,229 443 1,928	1,327 469 1,911		1,47° 466 1,949				
Aerospace product and parts manufacturing Railroad rolling stock manufacturing Ship and boat building Furniture and related product manufacturing	3364 3365 3366 337	7,879 1,098 113 1,524		7,783 1,135 111 1,534	7,999 1,168 112 1,520		8,12 ⁻ 1,198 118 1,518				
Miscellaneous manufacturing Non-durable goods industries	339	977 21,455		997 21,446	1,009 21,500		1,024 21,67 5				
Durable goods industries Manufacturing		39,769 61,224		40,112 61,558	40,822 62,322		41,991 63,666				
		Previous	s year	Year-to-da	ate	Average per	month				
		August 2002	July 2002	% Change from 2002	Average 2003	% Change from 2001	2002				
				\$ millions	;						
Food manufacturing Beverage and tobacco product manufacturing Textile mills Textile product mills	311 312 313 314	4,803 1,700 475 333	4,722 1,700 469 344	1.6 3.2 -8.9 -3.3	4,830 1,773 457 315	3.4 5.0 -9.3 -13.1	4,832 1,717 486 324				
Clothing manufacturing Leather and allied product manufacturing Wood product manufacturing Paper manufacturing	315 316 321	1,209 151 4,122	1,216 160 4,085	4.0 -4.3 2.8	1,235 135 4,686	-12.5 -8.9 -6.3	1,174 137 4,449 3,548				
raper infandationing Printing and related support activities Petroleum and coal products manufacturing Chemical manufacturing	322 323 324 325	3,491 707 1,695 5,309	3,520 684 1,652 5,182	0.2 -1.1 2.4 13.6	3,590 697 1,686 5,904	-7.0 -5.7 -10.6 4.0	702 1,614 5,277				
Plastics and rubber products manufacturing Non-metallic mineral product manufacturing Primary metal manufacturing	326 327 331	2,043 1,207 4,674	2,012 1,230 4,525	7.6 0.3 7.2	2,174 1,230 4,841	0.8 2.0 0.4	2,039 1,200 4,65				
Fabricated metal product manufacturing Machinery manufacturing Computer and electronic product manufacturing Clastrical agreement applicates and component manufacturing	332 333 334 335	3,548 4,584 4,500	3,581 4,586 4,499 1,400	3.5 -2.9 -11.2	3,624 4,488 4,243	2.1 1.2 -22.5	3,499 4,609 4,654				
Electrical equipment, appliance and component manufacturing ransportation equipment manufacturing Motor vehicle manufacturing Motor vehicle body and trailer manufacturing	336 3361 3362	1,381 13,736 1,729 411	13,118 1,733 405	-2.5 -0.3 -14.9 13.8	1,362 13,227 1,459 471	-16.3 -1.3 2.9 -6.3	1,38 13,44 1,73 41				
Motor vehicle parts manufacturing Aerospace product and parts manufacturing Railroad rolling stock manufacturing	3363 3364 3365	1,762 8,120 1,374	1,795 7,532 1,324	11.3 1.6 -7.4	1,930 7,849 1,199	3.9 0.3 -14.0	1,762 7,813 1,338				
Ship and boat building Furniture and related product manufacturing Miscellaneous manufacturing	3366 337 339	112 1,472 1,092	109 1,434 1,084	-19.0 8.4 -0.3	122 1,522 1,038	-35.7 1.1 3.3	145 1,427 1,059				
Non-durable goods industries Durable goods industries Manufacturing		20,706 41,524 62,231	20,445 40,760 61,205	4.7 0.0 1.6	21,561 41,496 63,057	-0.7 -4.7 -3.4	20,676 41,553 62,229				

Table 5 Inventories by major group and selected industries - concluded

	_			Seas	onally adjusted			
		01			Current pe	eriods		
	NAICS Code	Change from July		gust 1003	July 2003		June 2003	May 2003
					\$ millio	ns		
Food manufacturing Beverage and tobacco product manufacturing Textile mills	311 312 313	-28 15 -15	1,	840 802 452	4,868 1,787 467		1,847 1,737 459	4,838 1,752 452
Textile product mills Clothing manufacturing Leather and allied product manufacturing	314 315 316	-8 6 -1	1,	303 233 131	311 1,227 132		313 1,223 133	319 1,209 130
Wood product manufacturing Paper manufacturing Printing and related support activities	321 322 323	-150 -43 -19	3,	395 551 701	4,545 3,594 720	3	1,561 3,631 721	4,654 3,561 713
Petroleum and coal products manufacturing Chemical manufacturing Plastics and rubber products manufacturing Non-metallic mineral product manufacturing	324 325 326 327	-55 61 -3 -8	5, 2,	680 918 130 208	1,735 5,857 2,133 1,215	(1,653 5,001 2,156 1,207	1,603 6,003 2,205 1,212
Primary metal manufacturing Fabricated metal product manufacturing Machinery manufacturing	331 332 333	-74 -37 -56	4, 3, 4,	650 538 287	4,723 3,575 4,343	3	1,815 3,595 1,533	4,954 3,645 4,616
Computer and electronic product manufacturing Electrical equipment, appliance and component manufacturing Transportation equipment manufacturing Motor vehicle manufacturing	334 335 336 3361	-43 14 -415 -90	1, 12,	.108 .333 .711 .202	4,151 1,318 13,126 1,292	13	1,143 1,323 3,137 1,386	4,265 1,362 13,340 1,443
Motor vehicle body and trailer manufacturing Motor vehicle parts manufacturing Aerospace product and parts manufacturing Railroad rolling stock manufacturing	3362 3363 3364 3365	-2 -77 -223 -36	1, 7,	457 866 787 098	459 1,943 8,010 1,135	7	468 1,921 7,889 1,168	457 1,952 7,969 1,198
Ship and boat building Furniture and related product manufacturing Miscellaneous manufacturing	3366 337 339	-10 -20 -15	1,	119 514 974	120 1,533 989		120 1,517 996	1,130 1,23 1,513 1,012
Non-durable goods industries Durable goods industries Manufacturing		-96 -796 -892	39,	508 950 458	21,604 40,746 62,349	41	,652 ,050 2,702	21,576 41,782 63,358
	_	Change from previous month			Trend	change from	previous mor	ıth
	_	August 2003	July 2003	June 2003	August 2003	July 2003	June 2003	May 2003
					percentage			
Food manufacturing Beverage and tobacco product manufacturing Textile mills Textile product mills	311 312 313 314	-0.6 0.9 -3.2 -2.7	0.4 2.8 1.8 -0.5	0.2 -0.8 1.5 -2.0	-0.2 0.5 0.0 -1.0	-0.2 0.6 0.0 -0.9	-0.2 0.6 0.1 -0.7	-0.3 0.5 0.1 -0.4
Clothing manufacturing Leather and allied product manufacturing Wood product manufacturing Paper manufacturing	315 316 321 322	0.5 -0.8 -3.3 -1.2	0.3 -0.9 -0.4 -1.0	1.2 2.6 -2.0 2.0	0.1 -0.1 -0.9 -0.1	0.2 0.0 -0.9 0.0	0.3 0.0 -0.6 0.1	0.4 0.0 -0.3 0.2
Printing and related support activities Petroleum and coal products manufacturing Chemical manufacturing Plastics and rubber products manufacturing	323 324 325 326	-2.7 -3.2 1.0 -0.1	-0.1 4.9 -2.4 -1.1	1.2 3.2 0.0 -2.3	0.3 0.0 -0.1 -0.2	0.5 0.2 0.1 -0.2	0.6 0.5 0.3 -0.2	0.8 0.7 0.5 -0.1
Non-metallic mineral product manufacturing Primary metal manufacturing Fabricated metal product manufacturing	327 331 332	-0.6 -1.6 -1.0	0.7 -1.9 -0.6	-0.4 -2.8 -1.4	0.0 -1.0 -0.5	0.0 -1.1 -0.5	0.0 -1.0 -0.4	0.0 -0.8 -0.1
Machinery manufacturing Computer and electronic product manufacturing Electrical equipment, appliance and component manufacturing Transportation equipment manufacturing	333 334 335 336	-1.3 -1.0 1.1 -3.2	-4.2 0.2 -0.3 -0.1	-1.8 -2.9 -2.9 -1.5	-0.6 -0.6 -0.5 -0.5	-0.8 -0.7 -0.6 -0.5	-0.8 -0.8 -0.5 -0.6	-0.7 -0.9 -0.4 -0.6
Motor vehicle manufacturing Motor vehicle body and trailer manufacturing Motor vehicle parts manufacturing	3361 3362 3363	-7.0 -0.4 -4.0	-6.7 -1.9 1.1	-4.0 2.3 -1.5	-2.5 -0.6 -0.3	-3.1 -0.5 -0.2	-3.4 -0.4 -0.1	-3.6 -0.2 0.1
Aerospace product and parts manufacturing Railroad rolling stock manufacturing Ship and boat building Furniture and related product manufacturing	3364 3365 3366 337	-2.8 -3.2 -0.7 -1.3	1.5 -2.8 -0.3 1.1	-1.0 -2.5 -2.4 0.3	0.0 -1.2 -0.8 0.0	0.1 -1.7 -1.0 0.0	0.1 -2.1 -1.1 0.0	0.2 -2.6 -1.2 0.0
Miscellaneous manufacturing Non-durable goods industries Durable goods industries Manufacturing	339	-1.5 -0.4 -2.0 -1.4	-0.7 -0.2 -0.7 -0.6	-1.5 0.4 -1.8 -1.0	-1.1 -0.1 -0.6 -0.4	-1.4 0.0 -0.6 -0.4	-1.6 0.1 - 0.6 - 0.4	-1.7 0.2 -0.5 -0.3

Table 6
Unfilled orders by selected major group and industries

				Unadjusto	ed		
				Current per	iods		
	NAICS Code	August 2003		July 2003	June 2003		May 2003
				\$ million	S		
Textile mills	313	218		209	213		220
Textile product mills	314	50		60	55		62
Clothing manufacturing	315	336		338	352		350
Leather and allied product manufacturing	316	34		36	41		37
Plastics and rubber products manufacturing	326	1,207		1,030	1,020		1,198
Primary metal manufacturing	331	1,656		1,627	1,629		1,690
Fabricated metal product manufacturing	332	2,784		2,741	2,705		2,705
Machinery manufacturing	333	6,021		6,089	5,995		6,237
Computer and electronic product manufacturing	334	3,632		3,607	3,608		3,925
Electrical equipment, appliance and component manufacturing	335 336	970		957 19,267	925 19,620		1,005 19,752
Transportation equipment manufacturing Motor vehicle manufacturing	3361	18,628 807		782	766		759
Motor vehicle body and trailer manufacturing	3362	541		565	585		620
Motor vehicle parts manufacturing	3363	794		825	817		822
Aerospace product and parts manufacturing	3364	11,556		11,953	12,164		12,640
Ship and boat building	3366	44		49	52		53
Miscellaneous manufacturing	339	207		171	170		167
Non-durable goods industries		2,990		2,868	2,816		2,869
Durable goods industries Manufacturing		35,760 38,751		36,330 39,197	36,438 39,254		37,228 40,096
		Previous	s year	Year-to-d	ate	Average per	month
		August 2002	July 2002	% Change from 2002	Average 2003	% Change from 2001	2002
				\$ million:	S		
Textile mills	313	277	274	-16.5	233	9.3	276
Textile product mills	314	60	51	24.7	65	2.7	55
Clothing manufacturing	315	345	356	-4.9	329	-7.0	324
Leather and allied product manufacturing	316	34	42	-7.3	33	-18.2	31
Plastics and rubber products manufacturing	326	1,300	1,188	0.7	1,204	15.6	1,254
Primary metal manufacturing	331	1,760	1,798	-6.3	1,684	25.1	1,795
Fabricated metal product manufacturing	332	2,898	2,873	-3.8	2,785	0.3	2,878
Machinery manufacturing	333	6,972	6,679	-5.3	6,463	4.3	6,709
Computer and electronic product manufacturing	334	4,224	4,261	-0.8	3,866	-8.4	3,977
Electrical equipment, appliance and component manufacturing	335	1,027	973	3.4	995	-30.5	977
Transportation equipment manufacturing	336	26,416	25,607	-22.3	20,098	-8.7	25,566
Motor vehicle manufacturing	3361	1,190	1,058	-19.8	827	4.2	1,052
Motor vehicle body and trailer manufacturing	3362 3363	588 749	588 718	2.1 26.9	611 841	8.4 24.2	590 729
Motor vehicle parts manufacturing Aerospace product and parts manufacturing	3364	17,866	17,966	-30.6	12,783	-12.0	17,877
Ship and boat building	3366	17,000	17,900	156.8	43	-12.0	17,077
Miscellaneous manufacturing	339	187	171	-12.9	181	-12.1	226
Non-durable goods industries		2,969	2,823	6.2	2,955	15.3	2,867
Durable goods industries Manufacturing		45,190 48,159	44,062 46,885	-14.1 -12.9	37,834 40,789	-5.4 -4.3	43,740 46,606

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

				Seas	onally adjusted							
	_	01			Current pe	riods						
	NAICS Code	Change from July		gust 2003	July 2003		June 2003	May 2003				
					\$ millio	ns						
Textile mills	313	5		221	216		216	218				
Textile product mills	314	-13		47	60		57	64				
Clothing manufacturing	315	19		335	317		320	321				
Leather and allied product manufacturing	316	5		33	28		29	26				
Plastics and rubber products manufacturing	326	57		,205	1,148		,233	1,297				
Primary metal manufacturing	331	10		,622	1,612		,590	1,606				
Fabricated metal product manufacturing	332	44		,784	2,741		2,705	2,70				
Machinery manufacturing	333	-68		,021	6,089		5,995	6,237				
Computer and electronic product manufacturing	334	25		,632	3,607	3	3,608	3,925				
Electrical equipment, appliance and component manufacturing	335	13		970	957		925	1,005				
Transportation equipment manufacturing	336	-651	18,	,384	19,035	19	9,680	19,692				
Motor vehicle manufacturing	3361	25		807	782		766	759				
Motor vehicle body and trailer manufacturing	3362	-7		576	582		591	601				
Motor vehicle parts manufacturing	3363	-13		804	818		840	847				
Aerospace product and parts manufacturing	3364	-448	11,	,264	11,711	12	2,198	12,580				
Ship and boat building	3366	-2		47	49		49	48				
Miscellaneous manufacturing	339	14		208	194		197	182				
Non-durable goods industries		2		,987	2,984		3,021	2,957				
Durable goods industries Manufacturing		-589 -586		,436 ,423	36,025 39,009		i,440 i,461	37,100 40,057				
	-	Change from	n previous mo	previous month Trend change from previous month				ıth				
	_	August	July	June	August	July	June	May				
	-	2003	2003	2003	2003	2003	2003	2003				
					percentage							
Textile mills	313	2.2	0.0	-1.0	-0.3	-1.2	-2.2	-3.2				
Textile product mills	314	-20.9	6.1	-11.7	-3.3	-3.6	-3.8	-3.4				
Clothing manufacturing	315	5.9	-1.0	-0.4	1.1	1.3	1.5	1.6				
Leather and allied product manufacturing	316	19.0	-3.6	10.8	3.1	1.6	-0.2	-2.0				
Plastics and rubber products manufacturing	326	5.0	-6.9	-4.9	-0.5	-0.8	-1.1	-1.2 -1.5				
Primary metal manufacturing	331 332	0.6 1.6	1.4 1.3	-1.0 0.0	-0.2 -0.1	-0.5 -0.1	-0.9 -0.3	-1.t -0.5				
Fabricated metal product manufacturing Machinery manufacturing	333	-1.1	1.6	-3.9	-0.1 -1.1	-0.1 -1.3	-0.3 -1.5	-0.5 -1.5				
Computer and electronic product manufacturing	334	0.7	0.0	-3.9 -8.1	-0.6	-1.3 -1.4	-1.5	-2.5				
Electrical equipment, appliance and component manufacturing	335	1.4	3.4	-7.9	-0.0	-0.8	-0.8	-0.7				
Transportation equipment manufacturing	336	-3.4	-3.3	-7.9	-0. <i>1</i> -1.6	-2.0	-0.6 -2.5	-0.7				
Motor vehicle manufacturing	3361	3.2	2.1	1.0	0.5	0.0	-1.3	-2.9				
Motor vehicle body and trailer manufacturing	3362	-1.2	-1.5	-1.6	-0.4	-0.5	-0.6	-0.6				
Motor vehicle parts manufacturing	3363	-1.2 -1.6	-1.5 -2.6	-0.9	-0.4 -1.2	-0.5 -1.5	-0.6 -1.6	-0.6				
Aerospace product and parts manufacturing	3364	-3.8	-2.0 -4.0	-3.0	-2.4	-2.9	-3.4	-3.8				
Ship and boat building	3366	-3.7	0.2	1.9	2.0	3.6	5.3	7.6				
Miscellaneous manufacturing	339	7.3	-1.7	8.5	2.3	2.0	1.1	-0.2				
Non-durable goods industries		0.1	-1.2	2.2	0.3	0.2	0.0	-0.1				
Durable goods industries		-1.6	-1.1	-1.8	-1.1	-1.4	-1.8	-2.1				
Manufacturing		-1.5	-1.1	-1.5	-1.0	-1.3	-1.7	-2.0				

Table 7 New orders by selected major group and industries

				Unadju	sted		
				Current p	eriods		
	NAICS	August		July	June		May
	Code	2003		2003	2003		2003
		\$ millions					
Textile mills	313	248		190	247		251
Textile product mills	314	172		193	194		203
Clothing manufacturing	315	559		478	434		472
Leather and allied product manufacturing	316	79		41	46		49
Plastics and rubber products manufacturing	326	2,115		1,892	1,842		2,000
Primary metal manufacturing	331	2,483		2,510	2,568		2,735
Fabricated metal product manufacturing	332	2,416		2,335	2,426		2,321
Machinery manufacturing	333	1,644		1,945	1,640		1,222
Computer and electronic product manufacturing	334 335	1,444		1,300 730	1,355 706		1,462 759
Electrical equipment, appliance and component manufacturing Transportation equipment manufacturing	336	716 7,734		6,411	9,937		10,238
Motor vehicle manufacturing	3361	4,395		3,473	5,710		5,956
Motor vehicle handlacturing Motor vehicle body and trailer manufacturing	3362	158		194	198		263
Motor vehicle body and trailer manufacturing Motor vehicle parts manufacturing	3363	2,530		1,870	2,696		2,728
Aerospace product and parts manufacturing	3364	463		640	480		923
Ship and boat building	3366	63		73	82		113
Miscellaneous manufacturing	339	498		458	460		463
Non-durable goods industries		18,753		18,526	18,763		19,269
Durable goods industries Manufacturing		22,217 40,970		20,832 39,357	24,183 42,946		24,226 43,495
	-	Previous	s year	Year-to	-date	Annua	al
	_	August	July	% Change		% Change	
	_	2002	2002	from 2002	2003	from 2001	2002
				\$ millio	ons		
Textile mills	313	274	214	-14.9	1,899	-0.8	3,253
Textile product mills	314	223	202	-10.2		2.0	2,527
Clothing manufacturing	315	630	543	-8.2	,	-2.2	6,769
Leather and allied product manufacturing	316	88	49	-13.1	412	-10.6	770
Plastics and rubber products manufacturing	326	2,161	1,999	-0.2		6.2	23,082
Primary metal manufacturing	331	2,619	2,465	0.0		10.9	32,658
Fabricated metal product manufacturing	332	2,494	2,186	-0.3		2.6	27,584
Machinery manufacturing	333	1,919	1,760	-7.6		-3.3	23,507
Computer and electronic product manufacturing Electrical equipment, appliance and component manufacturing	334 335	1,627 807	1,802 745	-23.5 -4.9		-8.9 1.6	21,693 9,275
Transportation equipment manufacturing	336	11,278	6,932	-4.9 -10.7		3.6	117.133
Motor vehicle manufacturing	3361	5,957	3,544	-10. <i>1</i> -5.2		6.4	65,879
Motor vehicle manufacturing Motor vehicle body and trailer manufacturing	3362	193	187	-3.1	,	8.7	2,741
Motor vehicle body and trailer manufacturing Motor vehicle parts manufacturing	3363	3,039	2,082	-6.1		11.0	33,006
Aerospace product and parts manufacturing	3364	881	713	-49.1		-39.5	9,017
Ship and boat building	3366	75	101	-26.9		24.0	1,248
Miscellaneous manufacturing	339	470	452	1.4		8.5	5,508
Non-durable goods industries		19,432	18,609	4.2	149,042	1.0	218,796
Durable goods industries		26,690	21,407	-7.4		3.2	297,812
Manufacturing		46,122	40,016	-2.6	335,006	2.3	516,608

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

				Seas	onally adjusted			
	-	01			Current pe	riods		
	NAICS Code	Change from July		gust 2003	July 2003		June 2003	May 2003
					\$ millio	ns		
Textile mills	313	4		239	235		236	239
Textile product mills	314	-31		169	200		183	190
Clothing manufacturing	315	-1		507	508		493	510
Leather and allied product manufacturing	316	8		62	54		56	54
Plastics and rubber products manufacturing	326	74		,935	1,862		,821	1,894
Primary metal manufacturing	331	-142		,560	2,701		2,585	2,611
Fabricated metal product manufacturing	332	-36		,360	2,396		2,345	2,224
Machinery manufacturing	333	-255 54		,788 ,460	2,043		,565	1,169
Computer and electronic product manufacturing	334	-24	'	,460 749	1,406 773	'	,254 674	1,487 739
Electrical equipment, appliance and component manufacturing		-1,506	7	,832	9,338	c	074	8,936
Transportation equipment manufacturing	336 3361	-1,323		,460	5,783		5,226	5,371
Motor vehicle manufacturing Motor vehicle body and trailer manufacturing	3362	-1,525	4	210	224		212	266
Motor vehicle parts manufacturing	3363	-46	2	,460	2,507	2	2,550	2,490
Aerospace product and parts manufacturing	3364	-59	_	476	535	-	619	486
Ship and boat building	3366	-8		74	83		79	77
Miscellaneous manufacturing	339	8		464	456		463	456
Non-durable goods industries		-172		,171	18,344		,361	18,390
Durable goods industries Manufacturing		-1,909 -2,081		,170 ,341	24,079 42,422		,106 ,468	22,321 40,711
	-	Change fror	from previous month Tre		Trend	end change from previous month		
		August 2003	July 2003	June 2003	August 2003	July 2003	June 2003	May 2003
	-	2003	2003		percentage	2003	2003	2003
Taxtila milla	212	1 0	-0.4	-1.6		0.0	-0.1	0.2
Textile mills Textile product mills	313 314	1.8 -15.5	-0.4 8.8	-3.6	0.1 0.3	0.0	-0.1	-0.3 -0.7
Clothing manufacturing	314	-0.2	3.1	-3.5	-1.0	-1.3	-1.6	-1.7
Leather and allied product manufacturing	316	14.4	-3.3	3.5	1.2	1.1	0.8	-0.2
Plastics and rubber products manufacturing	326	4.0	2.3	-3.9	-0.1	-0.3	-0.5	-0.6
Primary metal manufacturing	331	-5.2	4.5	-1.0	-0.8	-1.0	-1.1	-1.2
Fabricated metal product manufacturing	332	-1.5	2.2	5.5	0.1	0.3	0.4	0.3
Machinery manufacturing	333	-12.5	30.5	33.8	0.3	0.3	-0.2	-1.5
Computer and electronic product manufacturing	334	3.9	12.1	-15.7	2.1	1.3	0.0	-1.4
Electrical equipment, appliance and component manufacturing	335	-3.1	14.6	-8.8	-0.2	-0.3	-0.4	-0.5
Transportation equipment manufacturing	336	-16.1	-1.0	5.6	-1.0	-1.0	-0.8	-0.5
Motor vehicle manufacturing	3361	-22.9	10.7	-2.7	-2.9	-2.8	-2.3	-1.5
Motor vehicle body and trailer manufacturing	3362	-6.4	5.4	-20.2	-0.3	-0.4	-0.6	-0.6
Motor vehicle parts manufacturing	3363	-1.9	-1.7	2.4	-0.7	-0.9	-1.2	-1.5
Aerospace product and parts manufacturing	3364	-11.0	-13.6	27.5	11.1	12.7	13.6	13.4
Ship and boat building	3366	-10.2	5.5	2.1	-1.6	-1.2	-0.6	0.0
Miscellaneous manufacturing	339	1.7	-1.5	1.6	0.1	0.2	0.2	0.1
Non-durable goods industries		-0.9	-0.1	-0.2	-0.3	-0.5	-0.6	-0.7
Durable goods industries		-7.9 -4.9	4.2 2.3	3.5 1.9	-0.2 -0.3	-0.3 -0.4	-0.4 -0.5	-0.6 -0.6

Table 8a Shipments for selected industries, unadjusted

			Current per	iods	
	NAICS Code	August 2003	July 2003	June 2003	May 2003
			\$ million	S	
Food manufacturing	311				
Animal food manufacturing	3111	415	436	408	443
Starch and vegetable fat and oil manufacturing	31122	253	261	238	275
Sugar and confectionery product manufacturing	3113	371	328	327	335
Fruit and vegetable preserving and specialty food manufacturing	3114	467	456	445	472
Dairy product manufacturing	3115	954	982	980	974
Meat product manufacturing	3116	1,342	1,326	1,302	1,449
Cookie, cracker and pasta manufacturing Other food manufacturing	31182 3119	114 505	105 503	110 529	113 530
Beverage and tobacco product manufacturing	312				
Soft drink and ice manufacturing	31211	384	410	390	381
Breweries	31212	433	449	414	382
Wineries	31213	50	50	50	49
Distilleries	31214	71	69	70	71
Tobacco manufacturing	3122	329	346	354	326
Textile mills	313				
Fibre, yarn and thread mills	3131	31	24	33	35
Fabric mills Textile and fabric finishing and fabric coating	3132 3133	159 49	127 42	167 54	174 55
ů ů		45	42	34	55
Textile product mills	314 31411	64	62	73	78
Carpet and rug mills Textile bag and canvas mills	31491	27	33	73 31	30
•	315	LI	30	01	30
Clothing manufacturing Hosiery and sock mills	31511	39	38	35	41
Other clothing knitting mills	31519	53	48	41	40
Men's and boys' cut and sew clothing manufacturing	31522	186	160	146	164
Women's and girls' cut and sew clothing manufacturing	31523	203	173	139	153
Clothing accessories and other clothing manufacturing	3159	20	19	20	22
Leather and allied product manufacturing Footwear manufacturing	316 3162	64	30	24	27
Wood product manufacturing	321	01	00	2.	
Sawmills and wood preservation	3211	1,296	1,239	1,277	1,297
Veneer, plywood and engineered wood product manufacturing	3212	667	625	575	557
Other wood product manufacturing	3219	533	519	541	555
Paper manufacturing	322				
Pulp, paper and paperboard mills	3221	1,860	1,812	1,772	1,852
Paperboard container manufacturing	32221	437	454	441	459
Paper bag and coated and treated paper manufacturing	32222	161	160	167	177
Other converted paper product manufacturing	32229	137	138	137	148
Printing and related support activities	323	754	744	704	0.1.1
Printing Support activities for printing	32311	751 35	741 39	764	811 45
Support activities for printing	32312	33	39	39	43
Petroleum and coal products manufacturing Petroleum refineries	324 32411	2,846	2,641	2,465	2,540
		2,040	2,041	2,400	2,340
Chemical manufacturing Other basic inorganic chemical manufacturing	325 32518	235	247	241	246
Other basic organic chemical manufacturing	32519	206	181	221	219
Resin, synthetic rubber, and artificial and synthetic fibres					
and filaments manufacturing	3252	508	514	541	569
Pesticide and other agricultural chemical manufacturing	32532	9	31	82	72
Pharmaceutical and medicine manufacturing	3254	614	717	798	753
Paint and coating manufacturing	32551	171	176	188	180
Adhesive manufacturing	32552	57	60	57	68
Soap and cleaning compound manufacturing	32561	113	116	119	115
Toilet preparation manufacturing Printing ink manufacturing	32562 32591	153 36	142 33	158 35	138 36
All other chemical product manufacturing	32599	334	343	333	347
An other enemiear product manufacturing	06000	004	UTU	000	341

Table 8a Shipments for selected industries, unadjusted - continued

			Current per	iods	
	NAICS Code	August 2003	July 2003	June 2003	May 2003
			\$ million	S	
Plastics and rubber products manufacturing Plastic pipe, pipe fitting and unsupported profile shape	326				
manufacturing	32612	181	173	167	164
Polystyrene foam product manufacturing	32614	34	35	34	29
Other plastic product manufacturing	32619	825	778	850	889
Other rubber product manufacturing	32629	198	177	200	207
Non-metallic mineral product manufacturing	327				
Clay product and refractory manufacturing	3271	58	63	65	65
Glass and glass product manufacturing	3272	217	205	228	231
Cement manufacturing	32731	155	161	154	140
Ready-mix concrete manufacturing	32732	268	278	262	231
Other concrete product manufacturing	32739 32791	125 27	119 32	113 32	105 37
Abrasive product manufacturing All other non-metallic mineral product manufacturing	32799	121	32 117	112	121
All other non-inetalic milieral product manufacturing	32199	121	117	112	121
Primary metal manufacturing	331				
Iron and steel mills and ferro-alloy manufacturing	3311	797	812	843	902
Iron and steel pipes and tubes manufacturing from purchased steel	33121	242	215	215	215
Foundries	3315	235	206	280	282
Fabricated metal product manufacturing	332				
Cutlery and hand tool manufacturing	3322	37	41	43	48
Plate work and fabricated structural product manufacturing	33231	405	390	367	312
Power boiler and heat exchanger manufacturing	33241	125	125	186	104
Spring and wire product manufacturing	3326	105	97	113	120
Coating, engraving, heat treating and allied activities	3328	211	188	207	222
Other fabricated metal product manufacturing	3329	226	230	248	257
Machinery manufacturing	333				
Agricultural implement manufacturing	33311	130	152	166	185
Ventilation, heating, air-conditioning and commercial	0004	100	470	404	470
refrigeration equipment manufacturing	3334	182	176	181	178
All other general-purpose machinery manufacturing	33399	135	138	124	146
Computer and electronic product manufacturing	334				
Computer and peripheral equipment manufacturing	3341	279	256	383	284
Communications equipment manufacturing	3342	375	344	556	362
Audio and video equipment manufacturing	3343	14	14	15	15
Electrical equipment, appliance and component manufacturing	335				
Lighting fixture manufacturing	33512	70	69	68	70
Small electrical appliance manufacturing	33521	20	19	19	21
Major appliance manufacturing	33522	108	113	133	132
Battery manufacturing	33591	12	12	12	12
Communication and energy wire and cable manufacturing	33592	102	91	106	96
All other electrical equipment and component manufacturing	33599	68	63	66	74
Transportation equipment manufacturing	336				
Motor vehicle manufacturing	3361	4,370	3,456	5,702	6,010
Motor vehicle parts manufacturing	3363	2,561	1,861	2,701	2,723
Aerospace product and parts manufacturing	3364	859	851	957	958
Railroad rolling stock manufacturing	3365	151	149	259	249
Ship and boat building	3366	68	75	84	115
Furniture and related product manufacturing Household and institutional furniture and kitchen cabinet	337				
manufacturing	3371	612	545	593	601
Office furniture (including fixtures) manufacturing	3372	375	368	389	370
		0.0	555	000	070
Miscellaneous manufacturing	339	440	440	400	42-
Medical equipment and supplies manufacturing	3391	110	113	129	115
Other miscellaneous manufacturing	3399	352	343	329	340

Table 8a
Shipments for selected industries, unadjusted - continued

		Previous	year	Year-to-d	ate	Annual	
	NAICS Code	August 2002	July 2002	% Change from 2002	2003	% Change from 2001	2002
				\$ million	ns		
Food manufacturing	311						
Animal food manufacturing	3111	453	457	-4.0	3,413	6.1	5,392
Starch and vegetable fat and oil manufacturing	31122	254	228	11.6	2,021	3.3	2,811
Sugar and confectionery product manufacturing	3113	343	303	9.8	2,612	1.4	3,846
Fruit and vegetable preserving and specialty food manufacturing	3114	500	479	-3.1	3,709	-1.7	5,923
Dairy product manufacturing	3115	829	861	12.3	7,309	1.2	9,887
Meat product manufacturing	3116	1,500	1,496	-6.9	11,012	-6.6	17,674
Cookie, cracker and pasta manufacturing	31182	117	107	-3.6	885	-7.7	1,425
Other food manufacturing	3119	503	484	7.0	3,932	11.9	5,723
Beverage and tobacco product manufacturing	312	070	404	0.7	0.007		0.000
Soft drink and ice manufacturing	31211	372	401	8.7	2,687	5.2	3,688
Breweries	31212	408	431	0.6	2,749	2.0	4,103
Wineries Distilleries	31213 31214	50 102	52 107	2.4 -12.5	358 669	11.8 9.1	585 1,265
Tobacco manufacturing	31214	279	285	2.9	2,509	1.3	3,663
•		210	200	2.5	2,000	1.0	0,000
Textile mills	313	0.0	0.4	45.0			405
Fibre, yarn and thread mills	3131	38	31	-15.3	266	-5.0	465
Fabric mills	3132	176	138	-8.7	1,279 398	-3.2	2,067
Textile and fabric finishing and fabric coating	3133	58	50	-12.8	398	-4.1	678
Textile product mills	314						
Carpet and rug mills	31411	77	63	-4.8	563	-3.6	890
Textile bag and canvas mills	31491	41	44	-32.0	210	7.2	429
Clothing manufacturing	315						
Hosiery and sock mills	31511	42	41	-4.9	304	0.4	511
Other clothing knitting mills	31519	51	44	22.9	346	0.1	519
Men's and boys' cut and sew clothing manufacturing	31522	204	175	-9.4	1,353	-4.9	2,360
Women's and girls' cut and sew clothing manufacturing	31523	232	180	-8.0	1,396	-3.7	2,221
Clothing accessories and other clothing manufacturing	3159	22	18	-1.6	152	-4.0	242
Leather and allied product manufacturing Footwear manufacturing	316 3162	72	33	-16.5	248	-5.8	518
•					2.0	0.0	0.0
Wood product manufacturing	321	1 511	1 400	17.5	10.204	4.4	17 607
Sawmills and wood preservation Veneer, plywood and engineered wood product manufacturing	3211 3212	1,511 532	1,433 499	-17.5 8.0	10,204 4,483	4.4 6.1	17,697 6,230
Other wood product manufacturing	3212	510	499	12.5	4,463 4,011	18.2	5,571
		310	407	12.5	4,011	10.2	3,371
Paper manufacturing	322	0.074	0.000	4.0	14.041	0.0	00 505
Pulp, paper and paperboard mills	3221 32221	2,074 411	2,008 399	-4.2 13.5	14,841	-6.8	23,505 4,914
Paperboard container manufacturing Paper bag and coated and treated paper manufacturing	32221	185	175	-6.7	3,549 1,396	3.4 3.0	2,212
Other converted paper product manufacturing	32229	141	134	2.8	1,079	0.6	1,610
			101	2.0	1,070	0.0	1,010
Printing and related support activities	323	700	740	0.4	0.000	4.4	0.557
Printing Support activities for printing	32311 32312	789 40	742 42	-0.4 -1.3	6,229 324	-1.4 -37.0	9,557 504
		40	42	-1.3	324	-37.0	304
Petroleum and coal products manufacturing	324						
Petroleum refineries	32411	2,741	2,504	23.8	22,486	0.8	29,276
Chemical manufacturing	325						
Other basic inorganic chemical manufacturing	32518	232	243	8.1	1,924	6.8	2,726
Other basic organic chemical manufacturing	32519	204	174	8.0	1,774	1.8	2,521
Resin, synthetic rubber, and artificial and synthetic fibres and							
filaments manufacturing	3252	542	507	4.6	4,462	0.6	6,379
Pesticide and other agricultural chemical manufacturing	32532	8	10	27.3	404	-13.4	341
Pharmaceutical and medicine manufacturing	3254	708	733	8.0	5,717	22.0	8,402
Paint and coating manufacturing Adhesive manufacturing	32551 32552	168 55	164 52	0.7 3.4	1,328 451	-1.4 12.2	1,875 624
Soap and cleaning compound manufacturing	32552 32561	132	128	-6.3	952	-7.5	1,516
Toilet preparation manufacturing	32562	152	103	-6.5 7.1	1,191	3.2	1,663
Printing ink manufacturing	32591	35	33	1.5	279	13.3	419
All other chemical product manufacturing	32599	372	360	2.5	2,763	2.6	4,104
		0.2	-	2.0	_,, 00	2.0	.,

Table 8a Shipments for selected industries, unadjusted - continued

		Previous	year	Year-to-d	ate	Annual	
	NAICS Code	August 2002	July 2002	% Change from 2002	2003	% Change from 2001	2002
				\$ million	ns		
Plastics and rubber products manufacturing	326						
Plastic pipe, pipe fitting and unsupported profile shape							
manufacturing	32612	168	158	5.4	1,238	4.2	1,758
Polystyrene foam product manufacturing Other plastic product manufacturing	32614	28	30	8.1	230	3.8	321
Other plastic product manufacturing Other rubber product manufacturing	32619 32629	866 204	788 172	0.6 -1.2	6,395 1,598	8.6 0.0	9,435 2,409
Non-metallic mineral product manufacturing	327						
Clay product and refractory manufacturing	3271	53	56	12.4	454	5.0	613
Glass and glass product manufacturing	3272	226	193	3.3	1,645	6.2	2,396
Cement manufacturing	32731	160	154	-0.4	914	5.7	1,425
Ready-mix concrete manufacturing	32732	264	251	3.1	1,511	9.1	2,337
Other concrete product manufacturing	32739	117	112	5.8	730	1.3	1,127
Abrasive product manufacturing	32791	38	33	-0.5	281	36.5	450
All other non-metallic mineral product manufacturing	32799	124	110	13.6	922	28.8	1,314
Primary metal manufacturing	331						
Iron and steel mills and ferro-alloy manufacturing Iron and steel pipes and tubes manufacturing from	3311	851	913	3.7	7,105	11.3	10,368
purchased steel	33121	218	204	12.7	1,868	1.4	2,529
Foundries	3315	266	202	0.9	2,119	8.7	3,161
Fabricated metal product manufacturing	332						
Cutlery and hand tool manufacturing	3322	36	34	16.4	345	6.3	467
Plate work and fabricated structural product manufacturing	33231	404	361	-2.9	2,736	0.4	4,286
Power boiler and heat exchanger manufacturing	33241	79	77	39.9	902	7.6	1,022
Spring and wire product manufacturing	3326	128	111	-8.4	903	9.8	1,477
Coating, engraving, heat treating and allied activities	3328	230	182	1.8	1,748	20.0	2,633
Other fabricated metal product manufacturing	3329	277	248	-2.6	1,967	9.5	3,005
Machinery manufacturing	333						
Agricultural implement manufacturing Ventilation, heating, air-conditioning and commercial	33311	176	174	-15.0	1,406	6.1	2,323
refrigeration equipment manufacturing	3334	205	188	-6.0	1,423	9.7	2,298
All other general-purpose machinery manufacturing	33399	185	200	-23.1	1,120	15.4	2,275
Computer and electronic product manufacturing	334						
Computer and peripheral equipment manufacturing	3341	381	412	-28.5	2,361	-16.6	4,699
Communications equipment manufacturing	3342	484	543	-31.4	3,277	-23.7	7,137
Audio and video equipment manufacturing	3343	16	18	-8.7	124	-7.2	218
Electrical equipment, appliance and component manufacturing	335						
Lighting fixture manufacturing	33512	73	76	-7.3	538	-3.7	877
Small electrical appliance manufacturing	33521	22	21	1.8	157	-9.3	250
Major appliance manufacturing	33522	117	122	-4.8	993	12.4	1,529
Battery manufacturing	33591	10	12	3.5	95	-15.1	139
Communication and energy wire and cable manufacturing	33592	107	126	-23.4	770	-42.2	1,436
All other electrical equipment and component manufacturing	33599	66	55	3.3	528	-2.3	772
Transportation equipment manufacturing Motor vehicle manufacturing	336 3361	E 00E	2 507	-4.2	40 201	F 7	GE 707
Motor vehicle manufacturing Motor vehicle parts manufacturing	3363	5,825 3,007	3,527 2,019	-4.2 -5.1	42,381 20,844	5.7 10.2	65,797 32,741
Aerospace product and parts manufacturing	3364	980	825	-4.1	7,743	-15.0	12,472
Railroad rolling stock manufacturing	3365	237	189	0.1	1,855	5.4	2,878
Ship and boat building	3366	76	101	-29.1	696	20.6	1,242
Furniture and related product manufacturing	337						
Household and institutional furniture and kitchen cabinet	2274	600	ECO	0.6	A 694	7 7	7 100
manufacturing Office furniture (including fixtures) manufacturing	3371 3372	609 415	563 347	-3.6 9.5	4,631 3,044	7.7 -6.0	7,133 4,319
Miscellaneous manufacturing	339	110	011	0.0	0,011	0.0	.,010
Medical equipment and supplies manufacturing	3391	106	106	-4.4	909	5.3	1,432
Other miscellaneous manufacturing	3399	349	356	2.0	2,664	9.7	4,095

Table 8b Inventory owned for selected industries, unadjusted

		Current periods					
	NAICS Code	August 2003	July 2003	June 2003	May 2003		
			\$ million	S			
Food manufacturing	311						
Animal food manufacturing	3111	287	288	275	263		
Starch and vegetable fat and oil manufacturing	31122	155	173	171	167		
Sugar and confectionery product manufacturing	3113	380	384	388	360		
Fruit and vegetable preserving and specialty food manufacturing	3114	883	829	828	843		
Dairy product manufacturing	3115	767	790	803	801		
Meat product manufacturing	3116	818	789	781	779		
Cookie, cracker and pasta manufacturing	31182	112	123	130	127		
Other food manufacturing	3119	497	492	482	489		
Beverage and tobacco product manufacturing	312						
Soft drink and ice manufacturing	31211	265	277	275	282		
Breweries	31212	174	177	180	183		
Wineries	31213	212	217	219	212		
Distilleries	31214	531	529	528	540		
Tobacco manufacturing	3122	570	568	577	598		
Textile mills	313	50		5 4	50		
Fibre, yarn and thread mills	3131 3132	50	55	54	53		
Fabric mills Textile and fabric finishing and fabric coating	3133	328 68	338 67	336 64	335 68		
· · ·		00	07	04	00		
Textile product mills	314						
Carpet and rug mills	31411	82	83	84	85		
Textile bag and canvas mills	31491	47	45	46	49		
Clothing manufacturing	315						
Hosiery and sock mills	31511	151	152	159	151		
Other clothing knitting mills	31519	122	132	135	129		
Men's and boys' cut and sew clothing manufacturing	31522	407	435	446	422		
Women's and girls' cut and sew clothing manufacturing	31523	378	368	362	327		
Clothing accessories and other clothing manufacturing	3159	84	81	78	75		
Leather and allied product manufacturing Footwear manufacturing	316 3162	103	114	107	95		
v							
Wood product manufacturing	321 3211	0.566	0.604	0.700	2.060		
Sawmills and wood preservation Veneer, plywood and engineered wood product manufacturing	3211	2,566 627	2,684 660	2,720 683	2,969 722		
Other wood product manufacturing	3212	854	857	877	888		
	322						
Paper manufacturing Pulp, paper and paperboard mills	322 3221	2,470	2,497	2,512	2,521		
Paperboard container manufacturing	32221	536	563	564	564		
Paper bag and coated and treated paper manufacturing	32222	276	279	276	275		
Other converted paper product manufacturing	32229	152	157	158	155		
Printing and related support activities	323						
Printing and related support activities	32311	711	707	693	696		
Support activities for printing	32312	8	8	8	9		
	324						
Petroleum and coal products manufacturing Petroleum refineries	324 32411	1,432	1,475	1,372	1,293		
		1,702	1,470	1,072	1,230		
Chemical manufacturing	325	100	400	104	100		
Other basic inorganic chemical manufacturing	32518	189	192	194	193		
Other basic organic chemical manufacturing	32519	158	172	152	163		
Resin, synthetic rubber, and artificial and synthetic fibres and filaments manufacturing	3252	542	572	584	632		
Pesticide and other agricultural chemical manufacturing	32532	127	119	108	110		
Pharmaceutical and medicine manufacturing	3254	3,165	2,987	3,095	3,139		
Paint and coating manufacturing	32551	260	261	271	266		
Adhesive manufacturing	32552	88	89	91	88		
Soap and cleaning compound manufacturing	32561	104	102	107	112		
	32562	193	192	186	193		
Toilet preparation manufacturing		100					
Printing ink manufacturing	32591	56	57	54	53		

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

			Current per	iods	
	NAICS Code	July 2003	June 2003	May 2003	April 2003
			\$ million	S	
Plastics and rubber products manufacturing	326				
Plastic pipe, pipe fitting and unsupported profile shape					
manufacturing	32612	210	219	226	230
Polystyrene foam product manufacturing	32614	38	35	37	38
Other plastic product manufacturing Other rubber product manufacturing	32619 32629	866 173	868 181	893 182	928 191
Non-metallic mineral product manufacturing	327				
Clay product and refractory manufacturing	3271	109	107	94	99
Glass and glass product manufacturing	3272	276	277	275	278
Cement manufacturing	32731	153	172	185	193
Ready-mix concrete manufacturing	32732	103	104	101	99
Other concrete product manufacturing	32739	100	100	93	94
Abrasive product manufacturing All other non-metallic mineral product manufacturing	32791 32799	117 146	122 145	124 144	131 144
· · · · · · · · · · · · · · · · · · ·		140	140	177	144
Primary metal manufacturing	331	1 000	0.010	0.000	0.045
Iron and steel mills and ferro-alloy manufacturing Iron and steel pipes and tubes manufacturing from purchased steel	3311 33121	1,998 560	2,010 581	2,002 603	2,045 632
Foundries	3315	262	279	292	307
		202	270	202	001
Fabricated metal product manufacturing	332 3322	78	75	79	80
Cutlery and hand tool manufacturing Plate work and fabricated structural product manufacturing	33231	470	483	495	493
Power boiler and heat exchanger manufacturing	33241	157	155	164	187
Spring and wire product manufacturing	3326	124	135	143	150
Coating, engraving, heat treating and allied activities	3328	162	154	147	154
Other fabricated metal product manufacturing	3329	560	569	552	563
Machinery manufacturing	333				
Agricultural implement manufacturing	33311	482	477	524	526
Ventilation, heating, air-conditioning and commercial					
refrigeration equipment manufacturing	3334	356	364	375	370
All other general-purpose machinery manufacturing	33399	429	416	408	395
Computer and electronic product manufacturing	334				
Computer and peripheral equipment manufacturing	3341	558	549	565	592
Communications equipment manufacturing	3342	2,033	2,030	1,987	2,157
Audio and video equipment manufacturing	3343	52	50	53	56
Electrical equipment, appliance and component manufacturing	335	100	105	100	404
Lighting fixture manufacturing	33512	132	135	129	131
Small electrical appliance manufacturing	33521	46	48	47	47
Major appliance manufacturing Battery manufacturing	33522 33591	168 69	162 68	175 64	192 64
Communication and energy wire and cable manufacturing	33592	279	281	284	291
All other electrical equipment and component manufacturing	33599	111	106	106	108
Transportation equipment manufacturing	336				
Motor vehicle manufacturing	3361	1,210	1,229	1,327	1,471
Motor vehicle parts manufacturing	3363	1,843	1,928	1,911	1,949
Aerospace product and parts manufacturing	3364	7,879	7,783	7,999	8,121
Railroad rolling stock manufacturing	3365	1,098	1,135	1,168	1,198
Ship and boat building	3366	113	111	112	118
Furniture and related product manufacturing	337				
Household and institutional furniture and kitchen					
cabinet manufacturing	3371	796	804	825	837
Office furniture (including fixtures) manufacturing	3372	471	463	439	428
Miscellaneous manufacturing	339				
Medical equipment and supplies manufacturing	3391	184	182	177	172
Other miscellaneous manufacturing	3399	793	815	831	852

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

Proof manufacturing	2002 \$ millions 5.0 7.2 1.8 5.3 5.6 -8.7 12.3	275 194 363 862	% Change from 2001	2002
Animal food manufacturing Starch and vegetable fat and oil manufacturing Starch and vegetable fat and oil manufacturing Starch and vegetable fat and oil manufacturing Starch and vegetable preserving and specialty food manufacturing Starch and pasta manufacturing Starch and pasta manufacturing Starch and pasta manufacturing Starch and bacco product manufacturing Starch drink and ice m	5.0 7.2 1.8 5.3 5.6 -8.7 12.3	275 194 363 862		
Animal food manufacturing Starch and vegetable fat and oil manufacturing Starch and vegetable preserving and specialty food manufacturing Starch and pasta manufacturing Starch and pasta manufacturing Starch and pasta manufacturing Starch and bacco product manufacturing Starch and bacco manufact	7.2 1.8 5.3 5.6 -8.7 12.3	194 363 862		
Starch and vegetable fat and oil manufacturing 31122 180 183	7.2 1.8 5.3 5.6 -8.7 12.3	194 363 862		
Sugar and confectionery product manufacturing 3113 361 358 Fruit and vegetable preserving and specialty food manufacturing 3114 843 792 Dairy product manufacturing 3116 841 846 Cookie, cracker and pasta manufacturing 3118 107 102 Other food manufacturing 3118 107 102 Other food manufacturing 3118 107 102 Other food manufacturing 312 176 282 Beverage and tobacco product manufacturing 3121 276 282 Breweries 31212 175 174 Wineries 31212 175 174 Wineries 31214 500 484 Tobacco manufacturing 312 549 560 Textile mills 313 59 55 Fabric mills 313 59 55 Fabric mills 313 59 55 Textile and fabric finishing and fabric coating 3133 58 56 Textile product mills 3141 85 82 Textile product mills 3141 85 82 Textile bag and canvas mills 31411 85 82 Textile bag and canvas mills 31511 145 132 Clothing manufacturing 3152 382 364 Women's and girls' cut and sew clothing manufacturing 3152 382 364 Women's and girls' cut and sew clothing manufacturing 3152 382 364 Women's and girls' cut and sew clothing manufacturing 3152 382 364 Women's and product manufacturing 3162 105 115 Wood product manufacturing 321 2,712 2,686 Leather and allied product manufacturing 321 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 321 2,712 2,686 Paper manufacturing 322 2,501 2,508 Paper baper and paperboard mills 322 2,501 2,508 Paperboard container manufacturing 3222 251 251 Other converted paper product manufacturing 3222 351 353 Other converted paper product manufacturing 3222 351 353 Other converted paper pro	1.8 5.3 5.6 -8.7 12.3	363 862		263
Fruit and vegetable preserving and specialty food manufacturing 3114 843 792 Dairy product manufacturing 3115 724 733 Meat product manufacturing 3116 841 846 Cookie, cracker and pasta manufacturing 31182 107 102 Other food manufacturing 31182 107 102 Soft drink and ice manufacturing 3122 76 282 Breweries 31211 276 282 Breweries 31212 175 174 Wineries 31213 200 202 Distilleries 31214 500 484 Tobacco manufacturing 3122 549 560 Textile mills 313 Fibre, yarn and thread mills 3131 59 55 Textile and fabric finishing and fabric coating 3133 38 Textile product mills 3141 85 82 Textile product mills 3141 85 82 Textile product mills 3141 85 82 Textile product mills 3149 72 77 Clothing manufacturing 3159 77 Clothing manufacturing 3159 359 Hosiery and sock mills 3151 145 132 Other clothing knitting mills 3159 359 Get and a sew clothing manufacturing 3159 365 68 Leather and allied product manufacturing 3152 382 Clothing accessories and other clothing manufacturing 3152 382 Clothing accessories and other clothing manufacturing 3152 382 Clothing accessories and other clothing manufacturing 3162 105 115 Wood product manufacturing 321 2,501 2,508 Paper bag and coated and treated paper manufacturing 3221 514 525 Paper bag and coated and treated paper manufacturing 3222 551 251 Other converted paper product manufacturing 3222 551 251	5.3 5.6 -8.7 12.3	862	6.5	189
Dairy product manufacturing 3115 724 733 Meat product manufacturing 3116 841 846 Cookie, cracker and pasta manufacturing 31182 107 102 Other food manufacturing 3119 510 514 Beverage and tobacco product manufacturing 3121 276 282 Breweries 31212 175 174 Wineries 31213 200 202 Distilleries 31214 500 484 Tobacco manufacturing 3122 549 560 Textile mills 313 59 55 Fibre, yarn and thread mills 3131 59 55 Fabric mills 3132 358 359 Textile and fabric finishing and fabric coating 313 58 56 Textile product mills 3141 85 82 Textile bag and canvas mills 31411 85 82 Textile bag and canvas mills 31511 145 132 Other clothing knitting mills 31511 145 132 Other clothing knitting m	5.6 -8.7 12.3		-1.3	359
Meat product manufacturing 3116 841 846 Cookie, cracker and pasta manufacturing 31182 107 102 Other food manufacturing 3119 510 514 Beverage and tobacco product manufacturing 312 282 Breweries 31211 276 282 Breweries 31212 175 174 Wineries 31213 200 202 Distilleries 31214 500 484 Tobacco manufacturing 3122 549 560 Textile mills 313 59 55 Fabric mills 3131 59 55 Fabric mills 3132 358 359 Textile and fabric finishing and fabric coating 3133 58 56 Textile product mills Carpet and rug mills 3141 85 82 Textile product mills 3141 85 82 Textile product mills 31491 72 77 Clothing manufacturing 3151 145 132 Other clothing knitting mills	-8.7 12.3		7.6	868
Cookie, cracker and pasta manufacturing 31182 107 102 Other food manufacturing 3119 510 514 Beverage and tobacco product manufacturing 312 26 282 Sott drink and ice manufacturing 31211 276 282 Breweries 31212 175 174 Wineries 31214 500 484 Tobacco manufacturing 3122 549 560 Textile mills 313 59 55 Fabric mills 3131 59 55 Textile and fabric finishing and fabric coating 3132 358 359 Textile product mills 314 8 56 Textile product mills 3141 85 82 Textile product mills 31411 85 82 Textile product mills 3141 85 82 Textile product mills 3141 85 82 Textile product mills 31491 72 77 Clothing manufacturing 3151	12.3	789	5.3	748
Other food manufacturing 3119 510 514 Beverage and tobacco product manufacturing 312 Second trink and ice manufacturing 31211 276 282 Breweries 31213 200 202		823	-1.6	884
Severage and tobacco product manufacturing 312 276 282 2		124	-1.9	115
Soft drink and ice manufacturing 31211 276 282 Breweries 31212 175 174 Wineries 31213 200 202 Distilleries 31214 500 484 Tobacco manufacturing 3122 549 560 Textile mills Fibre, yarn and thread mills 313 59 55 Fabric mills 3132 358 359 Textile and fabric finishing and fabric coating 3133 58 56 Textile product mills Carpet and rug mills 314 85 82 Textile bag and canvas mills 31411 85 82 Textile bag and canvas mills 31491 72 77 Clothing manufacturing 3151 145 132 Other clothing knitting mills 31511 145 132 Other clothing knitting mills 31519 112 118 Men's and boys' cut and sew clothing manufacturing 31522 382	-0.7	480	4.4	482
Breweries 31212 175 174 Wineries 31213 200 202 2	0.0	050	40.0	050
Wineries 31213 200 202 Distilleries 31214 500 484 Tobacco manufacturing 3122 549 560 Textile mills Fibre, yarn and thread mills 313 55 55 Fabric mills 3132 358 359 Textile and fabric finishing and fabric coating 3133 58 56 Textile product mills Carpet and rug mills 3141 85 82 Textile bag and canvas mills 31491 72 77 Clothing manufacturing 31511 145 132 Other clothing knitting mills 31511 145 132 Other clothing knitting mills 31511 145 132 Other clothing knitting mills 31519 112 118 Men's and boys' cut and sew clothing manufacturing 31523 357 382 Clothing accessories and other clothing manufacturing 31523 357 382 Clothing accessories and other clothing m	2.3	259	13.8	253
Distilleries 31214 500 484 Tobacco manufacturing 3122 549 560 Textile mills Fibre, yarn and thread mills 3131 59 55 Fabric mills 3132 358 359 Textile and fabric finishing and fabric coating 3133 58 56 Textile product mills Carpet and rug mills 31411 85 82 Textile bag and canvas mills 31491 72 77 Clothing manufacturing Hosiery and sock mills 31511 145 132 Other clothing knitting mills 31511 145 132 Men's and boys' cut and sew clothing manufacturing 31522 382 364 Women's and girls' cut and sew clothing manufacturing 31523 357 382 Clothing accessories and other clothing manufacturing 3159 65 68 Leather and allied product manufacturing 3162 105 115 Wood product manufacturing 321 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 32	3.8 7.0	172 219	10.2 12.6	168 209
Totacco manufacturing 3122 549 560 Textile mills 313 Fibre, yarn and thread mills 3131 59 55 Fabric mills 3132 358 359 Textile and fabric finishing and fabric coating 3132 358 359 Textile product mills 314 314 58 56 Textile bag and canvas mills 31411 85 82 2 77 2 78 3 3 3 3 3 3 3	11.2	524	12.1	484
Textile mills 313 59 55	-4.0	599	-6.2	602
Fibre, yarn and thread mills 3131 59 55 Fabric mills 3132 358 359 Textile and fabric finishing and fabric coating 3133 58 56 Textile product mills 314 Carpet and rug mills 31411 85 82 Textile bag and canvas mills 31411 85 82 Textile bag and canvas mills 31491 72 77 Clothing manufacturing 315 Hosiery and sock mills 31511 145 132 Other clothing knitting mills 31519 112 118 Men's and boys' cut and sew clothing manufacturing 31522 382 364 Women's and girls' cut and sew clothing manufacturing 31529 357 382 Clothing accessories and other clothing manufacturing 3159 65 68 Leather and allied product manufacturing 316 5 68 Leather and allied product manufacturing 316 5 68 Wood product manufacturing 321 2,712 2,686 <tr< td=""><td>1.0</td><td>000</td><td>0.2</td><td>002</td></tr<>	1.0	000	0.2	002
Fabric mills 3132 358 359 Textile and fabric finishing and fabric coating 3133 58 56 Textile product mills 314 Secondary and rug mills 31411 85 82 Textile bag and canvas mills 31411 85 82 Textile bag and canvas mills 31491 72 77 Clothing manufacturing 315 Secondary and sock mills 31511 145 132 Other clothing knitting mills 31519 112 118 Men's and boys' cut and sew clothing manufacturing 31522 382 364 Women's and girls' cut and sew clothing manufacturing 31522 382 364 Women's and girls' cut and sew clothing manufacturing 3159 65 68 Leather and allied product manufacturing 3159 65 68 Leather and allied product manufacturing 316 15 Footwear manufacturing 316 15 Sawmills and wood preservation 3211 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3212 618 610 Other wood pro	44.0	F.4	00.0	F0
Textile product mills 314 Carpet and rug mills 31411 85 82 Textile bag and canvas mills 31411 85 82 Textile bag and canvas mills 31491 72 77 Clothing manufacturing 315	-11.0	54	-22.3	58
Textile product mills 314 Carpet and rug mills 31411 85 82 Textile bag and canvas mills 31491 72 77 Clothing manufacturing 315	-12.6 18.0	335 68	-7.1 -7.4	368 60
Carpet and rug mills 31411 85 82 Textile bag and canvas mills 31491 72 77 Clothing manufacturing 315 Hosiery and sock mills 31511 145 132 Other clothing knitting mills 31519 112 118 Men's and boys' cut and sew clothing manufacturing 31522 382 364 Women's and girls' cut and sew clothing manufacturing 31523 357 382 Clothing accessories and other clothing manufacturing 3159 65 68 Leather and allied product manufacturing 3162 105 115 Wood product manufacturing 3162 105 115 Wood product manufacturing 321 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3211 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3212 618 610 Other wood product manufacturing 3219 791 789 Paper manufacturing 3221 2,501 2,508 Paper bag and coated and treated paper manufacturing 32221 514 <td>10.0</td> <td>00</td> <td>7.4</td> <td>00</td>	10.0	00	7.4	00
Textile bag and canvas mills 31491 72 77 Clothing manufacturing 315	0.5	0.5	04.0	0.4
Clothing manufacturing 315 Hosiery and sock mills 31511 145 132 Other clothing knitting mills 31519 112 118 Men's and boys' cut and sew clothing manufacturing 31522 382 364 Women's and girls' cut and sew clothing manufacturing 31523 357 382 Clothing accessories and other clothing manufacturing 3159 65 68 Leather and allied product manufacturing 316 5 68 Leather and allied product manufacturing 3162 105 115 Wood product manufacturing 3162 105 115 Wood product manufacturing 321 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 321 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 321 791 789 Paper manufacturing 322 618 610 Other wood product manufacturing 322 2,501 2,508 Paper bag and coated and treated paper manufacturing 32221 514 525 <td>3.5</td> <td>85</td> <td>-21.6</td> <td>81</td>	3.5	85	-21.6	81
Hosiery and sock mills	-30.2	48	5.1	67
Other clothing knitting mills 31519 112 118 Men's and boys' cut and sew clothing manufacturing 31522 382 364 Women's and girls' cut and sew clothing manufacturing 31523 357 382 Clothing accessories and other clothing manufacturing 3159 65 68 Leather and allied product manufacturing 316 Footwear manufacturing 3162 105 115 Wood product manufacturing 321 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3212 618 610 Other wood product manufacturing 3219 791 789 Paper manufacturing 322 2,501 2,508 Paper bag and paperboard mills 3221 2,501 2,508 Paper bag and coated and treated paper manufacturing 32221 514 525 Paper bag and coated and treated paper manufacturing 32222 251 251 Other converted paper product manufacturing 32229 150 153				
Men's and boys' cut and sew clothing manufacturing 31522 382 364 Women's and girls' cut and sew clothing manufacturing 31523 357 382 Clothing accessories and other clothing manufacturing 3159 65 68 Leather and allied product manufacturing 316 Footwear manufacturing 3162 105 115 Wood product manufacturing 321 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3212 618 610 Other wood product manufacturing 3219 791 789 Paper manufacturing 322 Pulp, paper and paperboard mills 3221 2,501 2,508 Paperboard container manufacturing 32221 514 525 Paper bag and coated and treated paper manufacturing 32222 251 251 Other converted paper product manufacturing 32229 150 153	8.2	147	-0.7	136
Women's and girls' cut and sew clothing manufacturing 31523 357 382 Clothing accessories and other clothing manufacturing 3159 65 68 Leather and allied product manufacturing 316 Footwear manufacturing 316 Towns and severation 3162 105 115 Wood product manufacturing 321 Sawmills and wood preservation 3211 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3212 618 610 Other wood product manufacturing 3219 791 789 Paper manufacturing 322 Pulp, paper and paperboard mills 3221 2,501 2,508 Paperboard container manufacturing 32221 514 525 Paper bag and coated and treated paper manufacturing 32222 251 251 Other converted paper product manufacturing 32229 150 153	14.2	120	0.2	103
Clothing accessories and other clothing manufacturing Leather and allied product manufacturing Footwear manufacturing 3162 Wood product manufacturing 321 Sawmills and wood preservation Veneer, plywood and engineered wood product manufacturing 321 Cher wood product manufacturing 321 Cher wood product manufacturing 321 Paper manufacturing 322 Pulp, paper and paperboard mills 3221 2,501 2,508 Paperboard container manufacturing 3222 Paper bag and coated and treated paper manufacturing 3222 251 Cher converted paper product manufacturing 3222 153 153	12.3 -2.0	413 345	-19.9 -7.8	369 351
Leather and allied product manufacturing 316 Footwear manufacturing 3162 105 115 Wood product manufacturing 321 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3212 618 610 Other wood product manufacturing 3219 791 789 Paper manufacturing 322 2 Pulp, paper and paperboard mills 3221 2,501 2,508 Paperboard container manufacturing 32221 514 525 Paper bag and coated and treated paper manufacturing 32222 251 251 Other converted paper product manufacturing 32229 150 153	15.8	74	-14.6	64
Footwear manufacturing 3162 105 115 Wood product manufacturing 321 2,712 2,686 Sawmills and wood preservation 3211 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3212 618 610 Other wood product manufacturing 3219 791 789 Paper manufacturing Pulp, paper and paperboard mills 3221 2,501 2,508 Paper board container manufacturing 32221 514 525 Paper bag and coated and treated paper manufacturing 32222 251 251 Other converted paper product manufacturing 32229 150 153				
Sawmills and wood preservation 3211 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3212 618 610 Other wood product manufacturing 3219 791 789 Paper manufacturing 322 Pulp, paper and paperboard mills 3221 2,501 2,508 Paperboard container manufacturing 3221 514 525 Paper bag and coated and treated paper manufacturing 32222 251 251 Other converted paper product manufacturing 32229 150 153	-2.8	93	-10.9	92
Sawmills and wood preservation 3211 2,712 2,686 Veneer, plywood and engineered wood product manufacturing 3212 618 610 Other wood product manufacturing 3219 791 789 Paper manufacturing 322 Pulp, paper and paperboard mills 3221 2,501 2,508 Paperboard container manufacturing 3221 514 525 Paper bag and coated and treated paper manufacturing 32222 251 251 Other converted paper product manufacturing 32229 150 153				
Other wood product manufacturing 3219 791 789 Paper manufacturing 322 Pulp, paper and paperboard mills 3221 2,501 2,508 Paperboard container manufacturing 32221 514 525 Paper bag and coated and treated paper manufacturing 32222 251 251 Other converted paper product manufacturing 32229 150 153	-0.8	3,091	-9.8	2,996
Paper manufacturing Pulp, paper and paperboard mills Paper bag and coated and treated paper manufacturing Other converted paper product manufacturing 3222 251 250 3222 251 251 3251 3260 3260 327 327 327 327 327 327 327 327 327 327	9.0	717	-4.4	652
Pulp, paper and paperboard mills32212,5012,508Paperboard container manufacturing32221514525Paper bag and coated and treated paper manufacturing32222251251Other converted paper product manufacturing32229150153	11.6	878	7.2	801
Paperboard container manufacturing32221514525Paper bag and coated and treated paper manufacturing32222251251Other converted paper product manufacturing32229150153				
Paper bag and coated and treated paper manufacturing 32222 251 251 Other converted paper product manufacturing 32229 150 153	-2.2	2,514	-8.5	2,549
Other converted paper product manufacturing 32229 150 153	5.1	548	-5.0	514
	9.6	276	2.2	254
Blu lili i din	4.0	153	-3.8	147
Printing and related support activities 323				
Printing 32311 693 671	-0.4	688	-4.4	688
Support activities for printing 32312 14 14	-37.0	9	-42.6	14
Petroleum and coal products manufacturing 324				
Petroleum refineries 32411 1,386 1,337	2.6	1,385	-12.4	1,322
Chemical manufacturing 325				
Other basic inorganic chemical manufacturing 32518 169 170	-1.3	187	-4.3	184
Other basic organic chemical manufacturing 32519 138 138	12.4	161	-23.8	146
Resin, synthetic rubber, and artificial and synthetic fibres and				
filaments manufacturing 3252 523 496	9.8	575	-18.9	525
	-15.5	121	-20.3	133
Pharmaceutical and medicine manufacturing 3254 2,790 2,650 Paint and coating manufacturing 32551 245 246	20.4	3,105 261	32.8 -9.1	2,665 249
Paint and coating manufacturing 32551 245 246 Adhesive manufacturing 32552 79 80	3.2 7.8	201 88	-9.1 15.5	249 81
	-24.1	106	-11.8	129
Toilet preparation manufacturing 32562 167 160	23.7	190	-6.8	162
Printing ink manufacturing 32591 50 49		52	-4.2	50
All other chemical product manufacturing 32599 316 308	4.3	314	-0.9	312

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

		Previous	year	Year-to-d	late	Average per mo	nth
	NAICS Code	August 2002	July 2002	% Change from 2002	Average 2003	% Change from 2001	2002
				\$ millio	ns		
Plastics and rubber products manufacturing	326						
Plastic pipe, pipe fitting and unsupported profile shape manufacturing	32612	223	215	1.8	225	-6.3	223
Polystyrene foam product manufacturing	32614	31	30	23.0	38	1.6	31
Other plastic product manufacturing	32619	840	841	8.5	904	7.8	848
Other rubber product manufacturing	32629	189	191	-2.0	186	-7.2	189
Non-metallic mineral product manufacturing	327						
Clay product and refractory manufacturing	3271	89	88	7.9	96	-12.2	89
Glass and glass product manufacturing	3272	274	271	0.0	277	2.8	272
Cement manufacturing	32731	176	184	-5.8	189	-1.9	187
Ready-mix concrete manufacturing	32732	104	106	-5.3	98	-8.6	102
Other concrete product manufacturing	32739	81	86	9.6	92	1.3	82
Abrasive product manufacturing	32791	161	166	-15.6	129	32.0	151
All other non-metallic mineral product manufacturing	32799	142	153	4.7	146	0.9	141
Primary metal manufacturing	331	0.070	1 000	7.0	0.000	4.4	0.050
Iron and steel mills and ferro-alloy manufacturing Iron and steel pipes and tubes manufacturing from	3311	2,078	1,963	7.3	2,086	-1.1	2,050
purchased steel	33121	527	501	17.2	598	6.7	543
Foundries	3315	275	273	1.9	292	1.0	287
Fabricated metal product manufacturing	332						
Cutlery and hand tool manufacturing	3322	84	81	1.2	83	9.3	83
Plate work and fabricated structural product manufacturing	33231	456	467	4.4	470	2.9	448
Power boiler and heat exchanger manufacturing	33241	155	152	20.3	174	27.1	148
Spring and wire product manufacturing	3326	158	155	-3.2	147	-7.4	154
Coating, engraving, heat treating and allied activities	3328	166	161	5.6	161	16.4	156
Other fabricated metal product manufacturing	3329	542	552	2.2	562	3.6	548
Machinery manufacturing Agricultural implement manufacturing	333 33311	493	482	4.3	525	1.5	510
Ventilation, heating, air-conditioning and commercial	33311	493	402	4.3	323	1.5	310
refrigeration equipment manufacturing	3334	344	353	0.3	351	6.8	345
All other general-purpose machinery manufacturing	33399	391	380	12.6	390	12.2	363
Computer and electronic product manufacturing	334						
Computer and peripheral equipment manufacturing	3341	601	590	-6.7	575	-42.7	607
Communications equipment manufacturing	3342	2,294	2,328	-15.8	2,134	-19.6	2,447
Audio and video equipment manufacturing	3343	52	51	13.5	55	-10.6	51
Electrical equipment, appliance and component manufacturing	335						
Lighting fixture manufacturing	33512	157	160	-15.1	139	-2.7	160
Small electrical appliance manufacturing	33521	47	48	15.3	47	-19.2	43
Major appliance manufacturing	33522	153	157	10.7	177	10.6	160
Battery manufacturing	33591	72	72	-11.5	64	44.2	70
Communication and energy wire and cable manufacturing	33592	283	284	-5.8	279	-42.2	291
All other electrical equipment and component manufacturing	33599	109	109	-4.8	108	-24.2	111
Transportation equipment manufacturing	336	1 700	1 700	14.0	1 450	2.0	1 720
Motor vehicle manufacturing Motor vehicle parts manufacturing	3361 3363	1,729 1,762	1,733 1,795	-14.9	1,459	2.9 3.9	1,730
Motor venicle parts manufacturing Aerospace product and parts manufacturing	3363 3364	8,120	7,532	11.3	1,930 7,849		1,762 7,817
Railroad rolling stock manufacturing	3365	1,374	1,332 1,324	1.6 -7.4	7,849 1,199	0.3 -14.0	1,338
Ship and boat building	3366	112	109	-19.0	122	-35.7	145
Furniture and related product manufacturing	337						
Household and institutional furniture and kitchen cabinet manufacturing	3371	813	791	9.5	826	9.7	772
Office furniture (including fixtures) manufacturing	3372	399	389	9.5 11.1	436	-11.1	398
Miscellaneous manufacturing	339						
Medical equipment and supplies manufacturing	3391	185	182	-4.1	175	-5.8	180
Other miscellaneous manufacturing			902	0.5			879

Table 9
Inventories owned by stage of fabrication

		Unadju	isted						
Period covered	Raw	Goods in	Finished	Tota					
	materials	process	products	inventories					
August 2002	27,198	16,209	18,823	62,231					
September 2002	27,108	15,941	19,144	62,193					
October 2002	27,379	15,975	18,942	62,295					
November 2002	27,237	16,282	19,610	63,129					
December 2002	27,600	15,742	19,047	62,389					
January 2003	27,863	15,527	19,210	62,601					
February 2003	28,300	15,874	19,806	63,980					
March 2003	28,431	15,820	20,261	64,512					
April 2003	27,952	16,165	20,478	64,595					
May 2003	27,058	16,224	20,385	63,666					
June 2003	26,510	15,841	19,971	62,322					
July 2003	26,622	15,503	19,434	61,558					
August 2003	26,624	15,608	18,993	61,224					
August 2000	20,024	13,000	10,995	01,224					
		Seasonally adjusted							
	Raw	Goods in	Finished	Tota					
	materials ————————————————————————————————————	process	products	inventories					
August 2002	27,420	16,152	18,835	62,407					
September 2002	27,319	15,812	19,189	62,320					
October 2002	27,450	15,913	19,217	62,580					
November 2002	27,430	16,014	19,643	62,989					
December 2002	27,591	15,943	19,626	63,161					
January 2003	27,471	15,952	19,506	62,929					
February 2003	27,471	15,917	19,730	63,307					
March 2003	27,779	15,774	19,815	63,368					
April 2003	27,779	16,150	20,023	63,898					
May 2003	27,726	15,978	20,023 19,991	63,358					
June 2003	27,092	15,774	19,836	62,702					
July 2003				62,702 62,349					
				62,349					
August 2003	27,009 26,836	15,755 15,511	19,585 19,112						

Table 10 Shipments by major group and province, unadjusted

	Current year			
Province	August 2003	July 2003	June 2003	May 2003
		\$ m	illions	
Total Newfoundland and Labrador	240	282	264	207
Prince Edward Island	113	126	149	133
Nova Scotia New Brunswick	768 1,163	745 1,078	723 1,187	746 1,094
Quebec	9,989	9,398	9,985	10,189
Ontario	21,075	19,769	23,476	24,156
Manitoba	938	946	968	1,017
Saskatchewan Alberta	596 3,643	611 3,536	649 3,526	667 3,656
British Columbia	2,885	2,917	2,857	2,844
311 Food manufacturing				
Newfoundland and Labrador	99	130	117	78
Prince Edward Island Nova Scotia	79 207	90 191	106 173	93 176
New Brunswick	162	169	280	175
Quebec	1,202	1,157	1,212	1,227
Ontario	2,064	2,109	2,114	2,216
Manitoba Saskatchewan	243 152	247 155	250 155	257 164
Alberta	745	699	641	775
British Columbia	399	406	397	385
312 Beverage and tobacco product manufacturing				
Nova Scotia Quebec	25 394	29 409	23 422	21 383
Ontario	603	627	590	571
Saskatchewan	6	7	6	6
British Columbia	99	103	98	95
313 Textile mills Quebec	157	115	165	171
Ontario	61	60	68	72
314 Textile product mills				
Quebec	80	76	83	83
Ontario Alberta	77 3	82 3	91 3	102 3
British Columbia	9	10	9	9
315 Clothing manufacturing				
Quebec	341	288	260	281
Ontario Manitoba	141 38	133 30	115 21	141 26
Saskatchewan	2	2	1	20
Alberta	7	7	6	7
British Columbia	24	25	22	17
316 Leather and allied product manufacturing				
Quebec Ontario	54 21	24 15	23 12	26 13
321 Wood product manufacturing				
Nova Scotia	57	51	46	48
Quebec Ontario	688 467	542 496	655 463	688 480
Manitoba	467 51	496 50	463 47	480
Saskatchewan	50	46	43	43
Alberta	224	219	200	184
British Columbia	791	814	790	773

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

	Current year			
Province	August 2003	July 2003	June 2003	May 2003
		\$ mi	llions	
322 Paper manufacturing				
Nova Scotia Quebec	76 908	79 910	75 881	79 937
Ontario	780	783	789	813
Alberta	142	131	126	127
British Columbia	434	419	408	433
323 Printing and related support activities Quebec	226	219	209	239
Ontario	386	406	434	443
Manitoba	33	34	37	40
Saskatchewan	11	10	8	9
Alberta British Columbia	43 58	38 42	44 42	48 42
324 Petroleum and coal products manufacturing				
Quebec	689	648	548	555
Ontario	883	873	811	841
Alberta British Columbia	765 66	714 69	681 64	689 63
	00	09	04	03
325 Chemical manufacturing Quebec	693	719	772	849
Ontario	1,586	1,699	1,822	1,812
Manitoba	49	49	59	94
Saskatchewan Alberta	19 536	42 531	87 572	111 742
British Columbia	112	96	108	117
326 Plastics and rubber products manufacturing				
Nova Scotia	85	89	88	92
Quebec	448	427	462	489
Ontario Manitoba	1,125 43	1,081 43	1,193 43	1,243 49
Saskatchewan	9	10	10	10
Alberta	112	99	97	86
British Columbia	98	115	108	102
327 Non-metallic mineral product manufacturing Nova Scotia	16	19	17	17
Quebec	298	272	296	305
Ontario	514	536	528	503
Saskatchewan	13 146	15 158	13 133	12 115
Alberta British Columbia	124	132	129	129
331 Primary metal manufacturing				
Quebec	949	1,019	1,015	1,046
Ontario Alberta	1,203 79	1,189 79	1,290 75	1,425 65
	7.0	7.5	70	00
332 Fabricated metal product manufacturing Newfoundland and Labrador	18	15	14	14
Prince Edward Island	2	2	2	1
Nova Scotia	36	31	28	21
New Brunswick Quebec	27 494	25 434	24 449	20 453
Ontario	1,278	1,260	1,337	1,374
Manitoba	67	67	73	64
Saskatchewan Alberta	41 273	40 286	39 318	40 248
British Columbia	136	140	140	135

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

		Curre	Current year		
Province	August 2003	July 2003	June 2003	May 2003	
		\$ mi	llions		
333 Machinery manufacturing					
Quebec	343	327	362	362	
Ontario Manitoba	859	985	979 83	1,089	
Saskatchewan	67 44	92 42	83 40	83 48	
Alberta	219	230	245	228	
British Columbia	143	137	139	143	
334 Computer and electronic product manufacturing					
Quebec	408	356	523	415	
Ontario	836	766	945	848	
Saskatchewan Alberta	9 71	8 72	10 98	7 63	
British Columbia	67	68	65	68	
335 Electrical equipment, appliance and component manufacturing					
Quebec	244	235	261	244	
Ontario	356	362	423	419	
Manitoba	10	10	11	12	
Saskatchewan	13	12	13	12	
Alberta British Columbia	39 30	41 28	39 27	33 35	
	30	20	21	30	
336 Transportation equipment manufacturing					
Nova Scotia	44	41	56	64	
Quebec Ontario	924 7,074	863 5,537	998 8,657	1,015 8,973	
Manitoba	131	120	133	142	
Saskatchewan	21	26	23	31	
Alberta	67	65	78	71	
British Columbia	89	90	104	101	
337 Furniture and related product manufacturing					
Quebec	287	233	265	294	
Ontario	589	570	597	563	
Manitoba Saskatchewan	58 7	60 8	61 7	59 7	
Alberta	63	59	65	67	
British Columbia	46	47	44	45	
339 Miscellaneous manufacturing					
Newfoundland and Labrador	1	1	1	1	
Quebec	162	124	125	126	
Ontario	174	200	218	216	
Manitoba Saskatchewan	6 4	10 4	7 4	7 4	
Alberta	38	31	33	34	
British Columbia	56	64	50	46	

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

	Previous	Previous year		ate	Annual	
	August 2002	July 2002	% Change from 2002	2003	% Change from 2001	2002
			\$ millio	ns		
Total	046	051	F 2	4 504	1.0	0.004
Newfoundland and Labrador Prince Edward Island	216 132	251 117	5.3 -0.2	1,581 859	1.3 9.5	2,234 1,316
Nova Scotia	791	733	4.7	5,812	1.3	8,646
New Brunswick	1,192	1,129	5.0	8,689	3.1	12,632
Quebec Ontario	10,600	9,474	-1.8	78,580	0.9	122,059
Ontario Manitoba	23,931 966	20,146 940	-1.2 0.8	181,712 7,686	3.4 0.6	277,581 11,538
Saskatchewan	616	594	2.5	4,989	1.3	7,239
Alberta	3,619	3,450	7.7	28,508	-3.4	40,966
British Columbia	3,043	3,046	-3.0	22,331	0.4	34,236
311 Food manufacturing						
Newfoundland and Labrador	101	134	-11.3	572	10.3	891
Prince Edward Island Nova Scotia	99 211	83 194	-1.9 1.1	605 1,419	8.0 2.2	952 2,234
New Brunswick	202	209	-11.6	1,419	4.6	2,234
Quebec	1,140	1,108	4.7	9,194	1.4	13,573
Ontario	2,121	2,081	1.4	16,615	-0.1	25,085
Manitoba	265	252	-0.9	1,977	4.3	3,023
Saskatchewan Alberta	161 789	151 796	5.3 -1.6	1,238 5,920	3.3 -1.0	1,825 9,055
British Columbia	387	383	4.9	2,943	3.4	4,270
312 Beverage and tobacco product manufacturing						
Nova Scotia Quebec	23 382	26 385	14.2 2.1	162 2,775	1.5 5.7	213 4,093
Ontario	556	600	2.1	4,358	2.6	6,514
Saskatchewan	12	13	-44.6	42	-7.8	92
British Columbia	102	107	4.9	680	9.1	990
313 Textile mills Quebec	179	132	-11.0	1,239	-2.6	2,069
Ontario	74	70	-14.2	539	-5.3	912
314 Textile product mills						
Quebec	90 102	79 91	-7.3 -10.0	626 698	-2.1 3.8	1,020
Ontario Alberta	2	2	9.1	20	-14.4	1,138 28
British Columbia	13	14	-31.7	69	4.0	153
315 Clothing manufacturing	200	201	C C	0.400	7.4	0.007
Quebec Ontario	388 166	301 164	-6.6 -15.0	2,428 1,101	-7.4 6.6	3,937 2,020
Manitoba	44	35	-2.3	215	13.1	376
Saskatchewan	2	2	17.6	14	-5.6	22
Alberta	7	8	-7.7	54	-6.8	89
British Columbia	25	25	1.7	176	-15.8	263
316 Leather and allied product manufacturing Quebec	65	28	-11.8	221	-18.8	430
Ontario	20	15	-20.1	111	11.9	225
321 Wood product manufacturing Nova Scotia	45	43	1.3	359	10.1	530
Nova Scotta Quebec	45 654	523	0.2	5,098	11.9	7,637
Ontario	496	484	-4.3	3,644	7.7	5,622
Manitoba	43	45	2.6	338	-13.5	501
Saskatchewan	36	34	27.5	335	39.0	430
Alberta British Columbia	184 943	197 919	-1.3 -16.9	1,518 6,291	2.8 4.8	2,265 10,830
Dittion Columbia	J40	313	-10.3	0,231	4.0	10,000

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

	Previous	year	Year-to-da	te	Annual	
	August 2002	July 2002	% Change from 2002	2003	% Change from 2001	2002
			\$ million	าร		
322 Paper manufacturing						
Nova Scotia Quebec	84 1,006	79 961	8.2 -3.7	604 7,367	-17.9 -2.7	881 11,729
Ontario	861	858	-3.9	6,471	-3.6	10,091
Alberta British Columbia	140 422	131 411	3.2 8.2	1,036 3,390	4.0 -11.7	1,553 4,790
323 Printing and related support activities				5,555		,,,,,,
Quebec	222	213	1.4	1,827	-11.3	2,749
Ontario Manitoba	433 34	415 34	-2.5 -3.9	3,426 273	2.0 -6.4	5,351 436
Saskatchewan	10	9	10.3	73	6.1	106
Alberta	49	44	-5.2	357	-5.4	574
British Columbia	57	54	-14.2	358	-10.7	608
324 Petroleum and coal products manufacturing Quebec	629	593	26.8	5,247	6.7	6,845
Ontario	900	845	17.6	7,168	-2.9	9,861
Alberta British Columbia	768 66	660 71	24.2 0.3	5,753 516	1.0 -4.8	7,491 754
325 Chemical manufacturing	-		0.0	010	1.0	701
Quebec	751	738	0.9	5,841	6.8	8,711
Ontario	1,711	1,685	6.6	14,109	7.8	20,076
Manitoba Saskatchewan	49 19	38 21	23.2 19.5	490 523	-12.6 -10.8	616 562
Alberta	556	456	16.7	4,789	-6.7	6,456
British Columbia	100	96	19.2	843	7.1	1,076
326 Plastics and rubber products manufacturing Nova Scotia	100	92	-8.0	699	6.9	1,141
Quebec	469	396	4.9	3,618	10.7	5,208
Ontario	1,220	1,119	-0.7	9,282	6.9	13,805
Manitoba Saskatchewan	41 9	42 7	1.3 13.8	346 74	7.5 5.4	508 98
Alberta	99	92	3.8	702	-4.0	1,023
British Columbia	91	99	9.6	751	-3.1	1,008
327 Non-metallic mineral product manufacturing Nova Scotia	17	19	-1.5	102	1.2	162
Quebec	303	247	5.4	1,844	10.8	2,701
Ontario Saskatchewan	503 13	474 16	7.2 -8.6	3,577 70	4.9 -8.2	5,264 113
Alberta	153	164	0.2	956	24.1	1,510
British Columbia	137	137	6.7	952	17.0	1,357
331 Primary metal manufacturing Quebec	1,071	1,036	-1.9	8,349	7.8	12,712
Ontario	1,312	1,030	4.1	10,931	11.9	16,003
Alberta	83	76	15.5	674	-10.7	896
332 Fabricated metal product manufacturing		•	70.0	22	45.5	25
Newfoundland and Labrador Prince Edward Island	10 2	8 3	78.2 1.0	99 16	-15.5 -1.5	88 25
Nova Scotia	23	20	20.0	191	17.2	264
New Brunswick Quebec	24 489	23 395	-4.3 -1.2	169 3,418	-5.7 1.8	268 5,329
Ontario	1,424	1,269	-3.8	10,403	4.7	16,165
Manitoba Saekatehawan	64	62	20.1	543	-2.0 6.5	707
Saskatchewan Alberta	39 219	42 209	6.0 26.7	295 2,099	-6.5 -2.7	416 2,637
British Columbia	156	153	-2.4	1,066	2.2	1,609

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

	Previous year		Year-to-date		Annual		
	August 2002	July 2002	% Change from 2002	2003	% Change from 2001	2002	
			\$ millior	าร			
333 Machinery manufacturing							
Quebec Ontario	349 1,022	319 970	-4.4 -8.0	2,839 7,862	0.2 4.1	4,587 12,943	
Manitoba	85	81	-11.7	652	9.4	1,042	
Saskatchewan	53	44	-12.6	404	7.4	662	
Alberta	214	228	-2.4	1,869	-14.5	2,872	
British Columbia	138	123	12.5	1,112	8.7	1,594	
334 Computer and electronic product manufacturing							
Quebec Ontario	488 955	493 949	-19.6 -16.1	3,448 6,773	-18.1 -13.9	6,588 11,900	
Saskatchewan	933	7	5.1	65	12.7	94	
Alberta	105	120	-29.1	629	-29.9	1,392	
British Columbia	74	78	-4.2	519	-17.7	879	
335 Electrical equipment, appliance and component manufacturing							
Quebec	259	230	-1.0	1,934	10.6	2,930	
Ontario Manitoba	398 13	405 10	-8.0 -22.8	3,203 94	-12.2 -14.7	5,210 183	
Saskatchewan	15	10	-22.8 -39.7	94 95	-14.7 -45.0	208	
Alberta	27	27	30.0	270	9.5	328	
British Columbia	29	26	6.5	241	-32.9	345	
336 Transportation equipment manufacturing							
Nova Scotia	68	61	-33.1	432	29.7	862	
Quebec	1,226	919	-14.5	8,106	-7.0	14,134	
Ontario Manitoba	8,866 110	5,670 119	-2.6 5.1	65,235 1,122	6.5 0.2	100,483 1,603	
Saskatchewan	25	31	-11.5	212	21.7	349	
Alberta	51	56	11.8	583	0.5	785	
British Columbia	103	139	-18.8	762	-4.9	1,283	
337 Furniture and related product manufacturing							
Quebec	292	242	-2.3	2,150	11.4	3,293	
Ontario Manitoba	606 64	542 63	3.8 -2.5	4,564 477	-2.2 11.3	6,629 743	
Saskatchewan	7	9	-2.5 -12.1	477 55	3.3	89	
Alberta	68	69	-5.9	514	-3.9	838	
British Columbia	51	48	5.9	361	14.4	525	
339 Miscellaneous manufacturing							
Newfoundland and Labrador	2	2	-39.7	9	22.1	18	
Quebec	148	135	-8.0	1,010	11.3	1,785	
Ontario Manitoba	185 8	199 12	7.0 -16.0	1,641 60	6.8 -11.0	2,284 107	
Saskatchewan	4	4	8.1	31	-2.0	44	
Alberta	38	37	-6.3	261	7.8	440	
British Columbia	49	53	6.2	403	15.0	606	

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), 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 Clothing (NAICS 315), Wood Products (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

The MSM is periodically benchmarked to the most recent results of the Annual Survey of Manufactures (approximately eighteen months after the end of the reference year). Benchmarking is a process designed to calibrate the monthly estimates to the level of the more complete Annual Survey of Manufacturers. The result is that the two surveys have consistent totals at the aggregated level. The MSM estimates were benchmarked to the 1998 ASM with the release of the January 2001 reference month.

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
			%		
August 2002 September 2002 October 2002 November 2002 December 2003 January 2003 February 2003 March 2003 April 2003	0.53 0.50	0.88 0.90 0.93 0.91 0.92 0.89 0.99	0.65 0.73 0.72 0.72 0.74 0.75 0.73 0.76	1.36 1.40 1.33 1.25 1.20 1.25 1.25 1.26	1.42 1.52 1.86 1.85 1.82 1.81 1.78 1.75
May 2003 June 2003 July 2003 August 2003	0.55 0.55 0.61 0.59	0.95 0.97 1.03 1.09	0.76 0.73 0.69 0.72 0.73	1.29 1.36 1.45 1.43	1.60 1.54 1.51 1.65

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	92.18 78.29 75.39 78.30 86.32	4.54 18.54 11.02 15.37 6.98	3.28 3.16 13.59 6.33 6.70

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:

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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.
- Leave blank spaces only where values are not normally
- 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.
- Laissez un espace en blanc seulement où les valeurs

reported.	os are norman,	ne sont pas normalement rapportées.		
1. Shipments – Livraisons		2. Inventories – Stocks manufact	turiers	
	Omit cents – Omettre les cents			
a) Goods of own manufacture	01	Raw materials, fuel, supplies, Matières premières, combustible,	04	
Produits de propre fabrication	02	fournitures	05	
b) Goods purchased for resale Produits achetés pour la revente	03	b) Goods in Process (gross value) Produits en cours (valeur brute)		
TOTAL		c) Finished products of own manufacture	06	
		Produits finis de propre fabrication	07	
		d) Goods purchased for resale Produits achetés pour la revente		
		·	08	. >
		TOTAL		
3. Orders – Commandes		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		Day – Jour
Name of contact – Nom de la personne-res	ssource	Tel. No. – N° de tél.	Date	
		Area code. Ind. rég.	Y–A	M D–J
Position – Fonction				

Thank you for your cooperation – Merci de votre collaboration





Statistics Canada

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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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