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Steel, Tubular Products and Steel Wire

September 2011



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Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published
- * significantly different from reference category ($p < 0.05$)

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Highlights

September 2011

- Monthly production of primary steel and pig iron increased 3.0% in September 2011 to 1,074,078 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 5.6% to 1,106,724 metric tonnes.
- Between August 2011 and September 2011, production of steel pipe and tubing increased 8.6% to 201,430 metric tonnes.
- Total shipments of steel wire and specified wire products increased 23.6% to 57,801 metric tonnes in September 2011.

Related products

Selected CANSIM tables from Statistics Canada

303-0046	Production and shipments of steel pipe and tubing
303-0047	Production and shipments of steel wire and specified wire products
303-0048	Production and shipments of pig iron
303-0049	Pig iron and scrap products charged to furnace, by the primary metal industry
303-0050	Production and shipments of steel casting and primary forms steel products
303-0051	Destination of net shipments of rolled steel products to consuming industries

Selected surveys from Statistics Canada

2105	Steel Pipe and Tubing
2106	Steel Wire and Specified Wire Products
2116	Steel Primary Forms, Steel Castings and Pig Iron
2184	Disposition of Shipments of Ingots and Rolled Steel Products

Statistical tables

Table 1-1

Steel primary forms and pig iron — Disposition of net shipments ¹ of rolled steel products, by product, monthly 2011

SDC No.	Steel primary forms	Rails and heavy structural sections	Intermediate structural sections	Light structural sections	Concrete reinforcing bars	Other hot rolled bars	Wire rods	Railway track material
metric tonnes								
September								
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses	4	484	4,794	5,759	1,243	x	0	.
21 Motor vehicles and parts	113	0	149	11	.	4,982	0	.
22 Railway operating	0	.	.	.	0	0	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	19	1,347	2,042	50,401	x	0	.
32 Metal building systems	.	0	0	0	0	0	.	.
33 Contractors' products	.	0	0	.	747	561	186	.
34 Miscellaneous stamping and coating	0	0	144	44	.	0	.	.
41 Natural resources and extractive industries	.	251	0	0	1,128	11,425	0	.
51 Agricultural equipment	.	0	0	0	0	236	.	0
52 Non electrical machinery	.	0	4,667	0	.	7,942	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	279	.	.	.	0	442	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	396	754	11,101	7,856	53,519	36,716	x	0
Total domestic alloy shipments	0	.	.	.	.	5,426	x	.
81 Exports to the United States	x	411	2,056	3,508	0	22,470	x	.
82 Exports to other countries (excluding United States)	x	0	98	0	0	16,314	x	0
Total disposition	129,441	1,165	13,255	11,364	53,519	75,500	x	0
Total alloy shipments	0	.	.	.	.	8,825	0	.
Producers interchange, for sale	x	.	0	.	.	331	0	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	x	.	.	.	.	.	0	.

See notes at the end of the table.

Table 1-1 – continued

Steel primary forms and pig iron — Disposition of net shipments ¹ of rolled steel products, by product, monthly 2011

SDC No.	Cold finished bars	Plates ²	Hot rolled sheets and coils	Cold reduced sheets and strip and other cold rolled and coated	Tin plate and tin free steel (T.F.S.)	Galvanized sheets including galvalume	Total, rolled steel products
metric tonnes							
September							
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses	x	19,415	219,515	17,551	3,954	37,526	322,529
21 Motor vehicles and parts	684	0	29,218	6,562	0	31,823	73,542
22 Railway operating	.	0	0	.	.	0	0
23 Railroad cars and locomotives	.	1,566	0	.	.	.	1,566
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	3,568	1,792	0	.	2,184	x
32 Metal building systems	.	.	0	.	.	2,199	2,199
33 Contractors' products	0	0	3,918	1,577	.	29,335	36,324
34 Miscellaneous stamping and coating	0	0	5,183	2,572	.	20,446	28,389
41 Natural resources and extractive industries	53	0	2	0	.	3	12,862
51 Agricultural equipment	57	338	0	0	.	0	631
52 Non electrical machinery	0	0	410	0	.	0	13,019
53 Electrical machinery	.	.	52	1,649	.	1,722	3,423
54 Industrial packaging material	.	.	0	3,728	0	0	3,728
61 Pipes and tubes	0	0	101,242	697	.	1,119	103,058
62 Wire and wire products	x	.	150	65	.	118	x
63 Containers and closures	0	.	0	612	632	.	1,244
64 Appliances and utensils industries	.	.	0	1,201	.	699	1,900
70 Miscellaneous industries	112	0	0	.	.	.	112
Total domestic shipments	x	24,887	361,482	36,214	4,586	127,174	680,662
Total domestic alloy shipments	176	0	.	0	.	.	x
81 Exports to the United States	1,040	14,030	x	12,585	18,853	36,626	328,314
82 Exports to other countries (excluding United States)	0	2,599	x	2,379	215	11,840	97,748
Total disposition	x	41,516	482,682	51,178	23,654	175,640	1,106,724
Total alloy shipments	801	0	.	0	.	.	9,626
Producers interchange, for sale	0	.	-67	0	.	0	x
Exports for conversion and return	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	1,881	0	1,379	.	0	x

1. Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

2. Effective January 2000, producers have changed the way they report hot rolled products. The result is a change in definitions. Plates including plates for pipes and tubes becomes plates. Hot rolled sheet and strip becomes hot rolled sheets and coils and now includes all hot rolled flat products in coils, regardless of thickness.

Table 1-2

Steel primary forms and pig iron — Disposition of net shipments¹ of rolled steel products, by product, year-to-date 2011

SDC No.	Steel primary forms	Rails and heavy structural sections	Intermediate structural sections	Light structural sections	Concrete reinforcing bars	Other hot rolled bars	Wire rods	Railway track material
metric tonnes								
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses	12	14,480	52,512	50,168	25,840	x	0	.
21 Motor vehicles and parts	1,533	7	1,526	141	.	51,349	0	.
22 Railway operating	0	.	.	.	0	413	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	515	8,675	19,363	304,253	x	0	.
32 Metal building systems	.	0	0	0	575	81	.	.
33 Contractors' products	.	0	0	.	9,196	2,749	1,183	.
34 Miscellaneous stamping and coating	0	16	2,691	2,711	.	6,061	.	.
41 Natural resources and extractive industries	.	1,546	79	14	12,084	99,372	0	.
51 Agricultural equipment	.	0	0	13	0	2,126	.	59
52 Non electrical machinery	.	0	14,836	58	.	70,551	0	.
53 Electrical machinery	.	.	.	.	.	222	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	385	.	.	.	0	5,125	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	1,930	16,564	80,319	72,468	351,948	325,400	x	59
Total domestic alloy shipments	0	.	.	.	.	49,117	x	.
81 Exports to the United States	x	8,569	33,910	42,234	35	207,628	x	.
82 Exports to other countries (excluding United States)	x	0	778	22	0	200,402	x	0
Total disposition	761,567	25,133	115,007	114,724	351,983	733,430	x	59
Total alloy shipments	0	.	.	.	.	86,266	0	.
Producers interchange, for sale	x	.	0	.	.	4,823	421	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	x	.	.	.	.	.	0	.

See notes at the end of the table.

Table 1-2 – continued

Steel primary forms and pig iron — Disposition of net shipments ¹ of rolled steel products, by product, year-to-date 2011

SDC No.	Cold finished bars	Plates ²	Hot rolled sheets and coils	Cold reduced sheets and strip and other cold rolled and coated	Tin plate and tin free steel (T.F.S.)	Galvanized sheets including galvalume	Total, rolled steel products
metric tonnes							
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses	x	149,296	1,942,411	182,554	13,492	282,761	2,811,214
21 Motor vehicles and parts	6,188	0	266,425	61,685	0	310,942	699,796
22 Railway operating	.	0	0	.	.	0	413
23 Railroad cars and locomotives	.	6,173	0	.	.	.	6,173
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	35,150	26,838	0	.	17,591	x
32 Metal building systems	.	.	0	.	.	20,759	21,415
33 Contractors' products	0	277	49,599	18,390	.	190,628	272,022
34 Miscellaneous stamping and coating	251	0	48,774	33,021	.	148,627	242,152
41 Natural resources and extractive industries	551	17	3	0	.	23	113,689
51 Agricultural equipment	497	4,232	0	0	.	0	6,927
52 Non electrical machinery	0	544	7,228	0	.	0	93,217
53 Electrical machinery	.	.	1,445	14,829	.	15,044	31,540
54 Industrial packaging material	.	.	231	41,814	0	0	42,045
61 Pipes and tubes	0	0	868,560	4,938	.	11,460	884,958
62 Wire and wire products	x	.	1,321	702	.	640	x
63 Containers and closures	0	.	804	6,965	3,814	.	11,583
64 Appliances and utensils industries	.	.	0	14,211	.	10,342	24,553
70 Miscellaneous industries	1,465	0	0	.	.	.	1,465
Total domestic shipments	x	195,689	3,213,639	379,109	17,306	1,008,817	5,852,297
Total domestic alloy shipments	2,329	0	.	0	.	.	x
Exports ² (for final sale)							
81 Exports to the United States	10,965	112,930	x	132,153	148,270	303,332	2,783,569
82 Exports to other countries (excluding United States)	0	24,969	x	14,787	5,709	86,157	585,753
Total disposition	x	333,588	4,159,819	526,049	171,285	1,398,306	9,221,619
Total alloy shipments	6,325	0	.	0	.	.	92,591
Producers interchange, for sale	0	.	177	0	.	0	x
Exports for conversion and return ²	.	.	0	0	.	73	73
Imports by producers (including conversion)	.	17,331	17,120	9,131	.	0	x

1. Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

2. Effective January 2000, producers have changed the way they report hot rolled products. The result is a change in definitions. Plates including plates for pipes and tubes becomes plates. Hot rolled sheet and strip becomes hot rolled sheets and coils and now includes all hot rolled flat products in coils, regardless of thickness.

Table 1-3

Steel primary forms and pig iron — Production of pig iron

	September		Year-to-date	
	2010	2011	2010	2011
metric tonnes				
Production of pig iron	653,126	623,582	5,852,388	5,516,711

Table 1-4
Steel primary forms and pig iron — Pig iron and scrap charged to steel furnaces

	September		Year-to-date	
	2010	2011	2010	2011
	metric tonnes			
Pig iron including pre-reduced iron	659,669	644,937	5,756,158	5,774,868
Scrap				
Own make	117,641	125,862	1,065,435	1,055,214
Purchased	449,600	469,122	4,256,947	4,209,046
Total, pig iron and scrap products	1,226,910	1,239,921	11,078,540	11,039,128

Table 1-5
Steel primary forms and pig iron — Production and shipments of steel, primary forms, monthly

	Production		Shipments	
	2010	2011	2010	2011
	metric tonnes			
September				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	417,009	449,227	x	x
Basic oxygen furnace	658,840	624,851	x	x
Steel, primary forms - Total	1,075,849	1,074,078	318,492	163,166
Included in "Steel primary forms total" above				
Continuous cast steel	1,061,283	1,057,847	307,126	151,795

Table 1-6
Steel primary forms and pig iron — Production and shipments of steel, primary forms, year-to-date

	Production		Shipments	
	2010	2011	2010	2011
	metric tonnes			
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	4,048,065	4,196,870	x	x
Basic oxygen furnace	5,822,131	5,619,610	x	x
Steel, primary forms - Total	9,870,196	9,816,480	2,568,839	1,467,353
Included in "Steel primary forms total" above				
Continuous cast steel	9,785,660	9,687,337	2,492,686	1,372,136

Table 2-1
Steel pipe and tubing — Production and shipments, monthly 2011

	Production	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
	metric tonnes			
September				
Total, pipe and tubing	201,430	155,382	80,605	235,986
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	4,510	0	4,510
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	11,324	x	x	18,485
over 16" (40.64 cm) outside diameter	x	x	x	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	13,686
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	1,606	936	949	1,885
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	x
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	573	x	216	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,676	x	450	x
over 16" (40.64 cm) outside diameter	x	x	0	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	21,470	12,721	6,107	18,828
Mechanical tubing, welded, produced from cold rolled	5,857	4,710	1,543	6,253
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	47,340	37,531	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	11,369	x	x
Other tubular products	x	1,443	608	2,053

1. Including for own use by the steel pipe and tubing industries.

Table 2-2
Steel pipe and tubing — Production and shipments, year-to-date 2011

	Production	Shipments for sale		Total shipments
		Domestic shipments ¹	Exports	
	metric tonnes			
Year-to-date				
Total, pipe and tubing	1,700,131	1,157,294	713,253	1,870,546
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	x	24,529
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	142,241
over 16" (40.64 cm) outside diameter	x	x	x	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	95,058
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	20,353	x	x	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	x
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	x	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	15,786	x	x	x
over 16" (40.64 cm) outside diameter	x	x	x	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	150,116	112,378	56,787	169,165
Mechanical tubing, welded, produced from cold rolled	65,221	40,835	13,517	54,352
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	321,949	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	77,674	x	x
Other tubular products	x	14,121	6,115	20,238

1. Including for own use by the steel pipe and tubing industries.

Table 3-1
Steel and specified wire products — Factory shipments¹, monthly

	Shipments				Production
	2010	2011		Exports	
		Total shipments	Domestic shipments		
metric tonnes					
September					
Barbed wire	458	x	222	x	.
Uncoated steel wire	18,647	18,463	7,823	10,640	.
Galvanized steel wire	14,540	14,911	8,681	6,230	.
Other coated steel wire	x	x	x	0	.
Farm fencing and wire chain link fabric	x	x	x	x	4,032
Wire mesh, bright or uncoated and galvanized	4,740	x	3,872	x	4,661
Wire rope	x	x	x	x	x
Nails and staples	x	x	1,200	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	2,368	2,286	x	x	4,128
Staples of iron or steel	x	x	x	x	.
All other wire products	x	x	x	1	x
Grand total	56,463	57,801	32,871	24,930	.

1. Totals may not add due to rounding.

Table 3-2
Steel and specified wire products — Factory shipments¹, year-to-date

	Shipments				Production
	2010	2011			
		Total shipments	Domestic shipments	Exports	
	metric tonnes				
Barbed wire	x	x	x	x	.
Uncoated steel wire	168,260	168,929	73,079	95,850	.
Galvanized steel wire	91,654	134,531	72,236	62,295	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	x	x	x	x	x
Wire mesh, bright or uncoated and galvanized	30,093	x	x	x	40,476
Wire rope	x	x	x	x	x
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	25,255	x	x	x	33,310
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
Grand total	403,592	516,339	292,247	224,092	.

1. Totals may not add due to rounding.

Concepts, methodology and data quality

This publication presents the results of four monthly surveys: Steel Primary Forms, Steel Castings and Pig Iron; Ingots and Rolled Steel Products; Steel Pipe and Tubing; and Steel Wire and Specified Wire Products. These surveys measure, on a monthly basis, the quantities of selected steel products that are produced and shipped by Canadian manufacturers. The target population for these surveys includes manufacturers in Canada of primary steel, steel products, pig iron, steel pipe and tubing as well as, steel wire as defined in the Standard Classification of Goods (SCG) that report these products to the Annual Survey of Manufactures and Logging or ASML (Survey ID 2103). This means that estimates from the monthly surveys do not cover the entire universe of steel producers in Canada because the ASML does not survey all businesses. Instead, the ASML uses administrative data to cover the small and medium-sized establishments. These manufacturers are not part of the four monthly surveys.

General methodology

Data are collected each month, directly from survey respondents using a mail-out / mail-back process. Data capture and preliminary editing are performed simultaneously to ensure validity of the data. Businesses from whom no response has been received or whose data may contain errors are followed-up by telephone or fax.

Missing data for the current month are imputed automatically by applying to the previous month's value, the month-to-month change observed for the same period in the previous year, for the unit in question. However, an option exists for analysts to manually override this imputation with a better estimate based on pertinent knowledge about the industry or the business.

Various confidentiality rules are applied to all data before they are released to prevent the publication or disclosure of any information deemed confidential. If necessary, data are suppressed to prevent the direct or residual disclosure of identifiable data.

Direct disclosure could occur when the value in a tabulation cell is composed of a few respondents or when the cell is dominated by a few companies. Residual disclosure could occur when confidential information can be derived indirectly by piecing together information from different sources or data series.

Under normal circumstances, data are collected, captured, edited, tabulated and published within 6-8 weeks after the reference month.

Revisions

Data may be revised to include amended information or reports from respondents that are received after the end of a collection cycle. Revisions are disseminated in subsequent periods and reflected in the CANSIM series and in the tables of this publication.

Data accuracy

The methodology of these surveys has been designed to promote data accuracy. Since data are collected from all Canadian producers of primary steel, steel products, pig iron, steel pipe and tubing and steel wire within the target population, the resulting estimates are not subject to sampling error. However, the results are still subject to the non-sampling errors associated with coverage, non-response, inaccurate reporting, and processing. Errors relating to coverage and non-response can be measured and are summarized in text table 1. All attempts are made to control inaccurate reporting and processing errors.

Moreover, survey results are analyzed to ensure comparability with patterns observed in historical data series and the economic condition of the industry. Information available from other sources such as the Steel Primary Forms Weekly Survey (Survey ID 2131) and the Monthly Survey of Manufacturing or MSM (Survey ID 2101) are also used in the validation process.

Coverage error

There is a degree of under coverage (referred to as coverage error) in the survey results as there is generally a lag between the time a new business comes into existence and when it is included in the universe of these sub-annual surveys. This occurs because the list of businesses surveyed is derived from the latest available survey results for the ASML which are not available until 15 months after the reference period.

This error is kept at a minimum by also using advance information from the ASML frame, feedback from the MSM and other sources such as the Canadian Steel Producer's Association, trade journals and newspaper articles, to identify new survey units.

Non-response error

Some respondents may be unable to provide data for numerous reasons (i.e. fire, theft, strike, economic hardship, etc.), while others may be late in responding. To minimize non-response, delinquent respondents are followed up rigorously by phone or fax. Data for non-responding units are imputed using industry trend and other related information. Data are revised at a later date, if completed questionnaires are received after the end of a collection cycle.

Inaccurate response

Inaccuracy may result from poor questionnaire design or an inability on the part of respondents to provide the requested information or from misinterpretation of the survey questions. To reduce such errors the format and wording in the questionnaire are reviewed from time to time and modified based on feedback from survey respondents and data users. Respondents are also reminded of the importance of their contribution and of the need for accurate data reporting.

Processing errors

These errors may occur at various stages in the processing of survey data such as data entry, verification, editing and tabulation. Data are examined for such errors using automated edits along with an analytical review by subject matter experts. Several checks are performed on the collected data to verify internal consistency and comparability over time.

Text table 1
Coverage and non-response errors

	Coverage error based on ASML 2004	Non-response error- annual average 2005
	percent	
Steel primary forms steel castings and pig iron	0	6
Ingots and rolled steel products	3	0
Steel pipe and tubing	0	0
Steel wire	0	0

Definitions

Shipments:

Shipments refer to the quantity of manufactured goods that are shipped, during the reference period from the plant to customers in domestic or export markets.

Production:

Production refers to the quantity of goods manufactured in Canada during a reference period including intermediate products. The final goods may be shipped or retained in inventory.

Exports:

Shipments of goods destined for customers outside of Canada.

Disposition of shipments:

Disposition of shipments refers to the distribution of shipped quantities of manufactured goods by end use (market).

Coverage ratio:

The share of total ASM shipment values for products included in a given sub-annual survey from businesses surveyed by the same sub-annual survey.

Non-response rate:

Number of non-responses in the year, divided by the number of total expected responses in the year.

Number of non-responses in the year, divided by the number of total expected responses in the year. More detailed information is available from the Annual Survey of Manufactures and Logging, CANSIM Table 301-0006. Specific enquiries should be directed to: The Dissemination and Frame Services section, Manufacturing and Energy Division, Statistics Canada, Ottawa, Ontario, K1A 0T6 (Telephone: 1-866-873-8789 or 613-951-9497; Fax line: 613-951-3877; Internet: manufact@statcan.gc.ca).