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Steel, Tubular Products and Steel Wire

June 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

June 2011

- Monthly production of primary steel and pig iron decreased 10.2% in June 2011 to 1,092,741 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 2.6% to 1,055,173 metric tonnes.
- Between May 2011 and June 2011, production of steel pipe and tubing increased 14.0% to 200,971 metric tonnes.
- Total shipments of steel wire and specified wire products increased 20.3% to 61,730 metric tonnes in June 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 shipments¹ 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								
June								
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses	0	3,017	8,888	7,060	1,507	x	0	.
21 Motor vehicles and parts	145	0	170	12	.	7,455	0	.
22 Railway operating	0	.	.	.	0	54	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	60	1,233	2,002	33,660	x	0	.
32 Metal building systems	.	0	0	0	91	0	.	.
33 Contractors' products	.	0	0	.	1,386	377	224	.
34 Miscellaneous stamping and coating	0	0	636	404	.	46	.	.
41 Natural resources and extractive industries	.	84	41	0	1,331	9,849	0	.
51 Agricultural equipment	.	0	0	0	0	427	.	0
52 Non electrical machinery	.	0	1,170	0	.	6,541	0	.
53 Electrical machinery	.	.	.	.	.	222	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	664	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	145	3,161	12,138	9,478	37,975	35,998	x	0
Total domestic alloy shipments	0	.	.	.	.	4,706	x	.
81 Exports to the United States	x	935	4,698	6,297	0	21,760	x	.
82 Exports to other countries (excluding United States)	x	0	176	11	0	26,935	x	0
Total disposition	83,938	4,096	17,012	15,786	37,975	84,693	x	0
Total alloy shipments	0	.	.	.	.	8,804	0	.
Producers interchange, for sale	x	.	0	.	.	548	35	.
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							
June							
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses	x	16,572	219,614	15,284	997	29,996	314,065
21 Motor vehicles and parts	695	0	28,462	5,609	0	33,694	76,242
22 Railway operating	.	0	0	.	.	0	54
23 Railroad cars and locomotives	.	747	0	.	.	.	747
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	5,033	5,828	0	.	2,718	x
32 Metal building systems	.	.	0	.	.	2,691	2,782
33 Contractors' products	0	0	10,414	3,867	.	22,929	39,197
34 Miscellaneous stamping and coating	57	0	7,514	4,743	.	20,146	33,546
41 Natural resources and extractive industries	115	17	0	0	.	18	11,455
51 Agricultural equipment	59	419	0	0	.	0	905
52 Non electrical machinery	0	0	657	0	.	0	8,368
53 Electrical machinery	.	.	187	1,430	.	1,743	3,582
54 Industrial packaging material	.	.	0	4,780	0	0	4,780
61 Pipes and tubes	0	0	100,921	489	.	484	101,894
62 Wire and wire products	x	.	212	165	.	127	x
63 Containers and closures	0	.	298	1,194	744	.	2,236
64 Appliances and utensils industries	.	.	0	1,454	.	854	2,308
70 Miscellaneous industries	327	0	0	.	.	.	327
Total domestic shipments	x	22,788	374,107	39,015	1,741	115,400	674,916
Total domestic alloy shipments	217	0	.	0	.	.	x
81 Exports to the United States	1,165	14,157	x	14,864	17,803	31,974	307,283
82 Exports to other countries (excluding United States)	0	803	x	1,400	464	8,303	72,974
Total disposition	x	37,748	477,192	55,279	20,008	155,677	1,055,173
Total alloy shipments	646	0	.	0	.	.	9,450
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	28	28
Imports by producers (including conversion)	.	8,118	0	0	.	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	8	10,980	38,390	34,150	23,233	x	0	.
21 Motor vehicles and parts	972	0	1,085	107	.	36,941	0	.
22 Railway operating	0	.	.	.	0	221	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	292	6,561	12,491	181,558	x	0	.
32 Metal building systems	.	0	0	0	340	0	.	.
33 Contractors' products	.	0	0	.	7,436	1,365	556	.
34 Miscellaneous stamping and coating	0	0	1,846	1,777	.	5,919	.	.
41 Natural resources and extractive industries	.	943	79	14	8,328	68,754	0	.
51 Agricultural equipment	.	0	0	8	0	1,423	.	59
52 Non electrical machinery	.	0	7,759	31	.	47,716	0	.
53 Electrical machinery	.	.	.	.	.	222	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	106	.	.	.	0	3,628	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	1,086	12,215	55,720	48,578	220,895	222,337	x	59
Total domestic alloy shipments	0	.	.	.	.	33,119	x	.
81 Exports to the United States	x	6,436	25,546	29,319	0	140,043	x	.
82 Exports to other countries (excluding United States)	x	0	456	22	0	146,495	x	0
Total disposition	471,794	18,651	81,722	77,919	220,895	508,875	x	59
Total alloy shipments	0	.	.	.	.	58,311	0	.
Producers interchange, for sale	x	.	0	.	.	3,684	310	.
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	98,116	1,309,148	117,808	7,800	171,945	1,874,963
21 Motor vehicles and parts	4,189	0	180,132	43,434	0	230,191	497,051
22 Railway operating	.	0	0	.	.	0	221
23 Railroad cars and locomotives	.	2,702	0	.	.	.	2,702
24 Shipbuilding	x	.	.	.	.	.	0
31 Steel fabrication	x	21,448	17,284	0	.	10,868	x
32 Metal building systems	.	.	0	.	.	14,537	14,877
33 Contractors' products	0	277	37,584	14,409	.	122,130	183,757
34 Miscellaneous stamping and coating	190	0	34,135	25,301	.	94,521	163,689
41 Natural resources and extractive industries	399	17	1	0	.	20	78,555
51 Agricultural equipment	336	2,810	0	0	.	0	4,636
52 Non electrical machinery	0	544	5,602	0	.	0	61,652
53 Electrical machinery	.	.	1,280	10,372	.	9,992	21,866
54 Industrial packaging material	.	.	83	30,203	0	0	30,286
61 Pipes and tubes	0	0	551,121	3,579	.	8,075	562,775
62 Wire and wire products	x	.	908	430	.	364	x
63 Containers and closures	0	.	535	4,486	1,624	.	6,645
64 Appliances and utensils industries	.	.	0	10,517	.	8,219	18,736
70 Miscellaneous industries	1,131	0	0	.	.	.	1,131
Total domestic shipments	x	125,914	2,137,813	260,539	9,424	670,862	3,898,606
Total domestic alloy shipments	1,733	0	.	0	.	.	x
Exports ² (for final sale)							
81 Exports to the United States	7,373	76,141	x	90,819	96,068	204,445	1,846,292
82 Exports to other countries (excluding United States)	0	16,150	x	7,671	3,765	50,210	352,030
Total disposition	x	218,205	2,736,172	359,029	109,257	925,517	6,096,928
Total alloy shipments	3,542	0	.	0	.	.	61,853
Producers interchange, for sale	0	.	244	0	.	0	x
Exports for conversion and return ²	.	.	0	0	.	73	73
Imports by producers (including conversion)	.	11,693	17,120	4,475	.	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

	June		Year-to-date	
	2010	2011	2010	2011
metric tonnes				
Production of pig iron	600,343	602,220	3,702,231	3,651,858

Table 1-4

Steel primary forms and pig iron — Pig iron and scrap charged to steel furnaces

	June		Year-to-date	
	2010	2011	2010	2011
	metric tonnes			
Pig iron including pre-reduced iron	573,580	627,933	3,624,465	3,854,164
Scrap				
Own make	115,102	115,297	688,727	686,597
Purchased	472,745	485,541	2,798,308	2,894,042
Total, pig iron and scrap products	1,161,427	1,228,771	7,111,500	7,434,803

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			
June				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	455,170	486,824	x	x
Basic oxygen furnace	577,042	605,917	x	x
Steel, primary forms - Total	1,032,212	1,092,741	307,056	177,371
Included in "Steel primary forms total" above				
Continuous cast steel	1,017,709	1,077,164	303,203	165,291

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	2,723,694	2,904,998	x	x
Basic oxygen furnace	3,632,087	3,729,909	x	x
Steel, primary forms - Total	6,355,781	6,634,907	1,750,434	1,064,352
Included in "Steel primary forms total" above				
Continuous cast steel	6,304,788	6,542,864	1,701,947	995,642

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

	Production	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
	metric tonnes			
June				
Total, pipe and tubing	200,971	112,085	81,699	193,784
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	2,024	2,139	40	2,179
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	20,059	x	x	11,660
over 16" (40.64 cm) outside diameter	x	x	x	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	4,457	x	x	8,573
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	946	1,644	649	2,293
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	401	x	x	x
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	364	589	53	642
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,590	1,502	288	1,790
over 16" (40.64 cm) outside diameter	1,901	393	x	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	20,859	9,843	6,288	16,131
Mechanical tubing, welded, produced from cold rolled	4,902	4,920	1,244	6,164
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	49,397	34,613	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	17,779	8,696	x	x
Other tubular products	x	1,777	624	2,401

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	1,144,619	757,973	501,162	1,259,135
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	x	15,729
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	78,568	x	x	92,495
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	64,196
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	17,124	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	4,831
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	9,510	x	x	x
over 16" (40.64 cm) outside diameter	7,535	x	x	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	95,745	82,171	36,845	119,016
Mechanical tubing, welded, produced from cold rolled	51,126	28,457	9,466	37,923
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	216,157	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	53,581	x	x
Other tubular products	x	8,983	4,268	13,251

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			
		Total shipments	Domestic shipments	Exports	
metric tonnes					
June					
Barbed wire	486	x	x	x	.
Uncoated steel wire	20,222	19,602	9,291	10,311	.
Galvanized steel wire	13,026	15,985	8,594	7,391	.
Other coated steel wire	x	x	x	0	.
Farm fencing and wire chain link fabric	x	x	x	x	4,210
Wire mesh, bright or uncoated and galvanized	3,531	5,306	x	x	5,645
Wire rope	x	x	x	x	x
Nails and staples	x	x	1,587	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	3,018	2,658	x	x	3,546
Staples of iron or steel	x	x	x	x	.
All other wire products	x	x	x	1	x
Grand total	54,101	61,730	36,069	25,661	.

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	113,814	116,185	50,513	65,672	.
Galvanized steel wire	48,945	88,341	46,437	41,904	.
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	19,801	26,692	x	x	28,006
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	18,308	14,684	x	x	21,695
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
Grand total	241,701	344,327	194,938	149,389	.

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).