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Steel, Tubular Products and Steel Wire

August 2012



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Steel, Tubular Products and Steel Wire

August 2012

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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

August 2012

- Monthly production of primary steel and pig iron decreased 2.2% in August 2012 to 1,108,336 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 0.8% to 970,134 metric tonnes.
- Between July 2012 and August 2012, production of steel pipe and tubing decreased 15.5% to 153,448 metric tonnes.
- Total shipments of steel wire and specified wire products increased 11.4% to 37,046 metric tonnes in August 2012.

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 of rolled steel products, by product and industry monthly 2012

	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							
August								
Domestic shipments								
Steel service centres and other wholesalers and warehouses	0	2,251	6,941	6,583	804	10,003	0	.
Motor vehicles and parts	81	27	268	20	.	5,718	0	.
Railway operating	0	.	.	.	0	38	0	.
Railroad cars and locomotives	.	0	.	.	.	.	.	.
Shipbuilding	0	.	.	.	.	.	.	.
Steel fabrication	0	145	x	2,575	46,363	x	0	.
Metal building systems	.	0	0	0	0	0	.	.
Contractors' products	.	0	0	.	457	266	393	.
Miscellaneous stamping and coating	0	0	236	199	.	871	.	.
Natural resources and extractive industries	.	0	19	0	753	10,329	0	.
Agricultural equipment	.	0	0	0	0	406	.	0
Non electrical machinery	.	0	1,169	41	.	7,044	0	.
Electrical machinery	.	.	.	.	.	0	.	.
Industrial packaging material	.	.	.	.	.	0	.	.
Pipes and tubes	.	.	.	.	.	0	.	.
Wire and wire products	0	.	.	.	0	x	x	.
Containers and closures	.	.	.	.	.	.	.	.
Appliances and utensils industries	.	.	.	.	.	.	.	.
Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	81	2,423	x	9,418	48,377	37,191	x	0
Total domestic alloy shipments	0	.	.	.	.	5,801	0	.
Exports to the United States	x	743	5,333	7,124	0	24,778	x	.
Exports to other countries (excluding United States)	x	0	11	11	0	18,894	x	0
Total disposition	x	3,166	15,388	16,553	48,377	80,863	x	0
Total alloy shipments	0	.	.	.	.	9,915	0	.
Producers interchange, for sale	x	.	0	.	.	543	39	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	0	.	.	.	.	.	0	.

See notes at the end of the table.

Table 1-1 – continued

Steel primary forms and pig iron — Disposition of net shipments of rolled steel products, by product and industry monthly 2012

	Cold finished bars	Plates ¹	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							
August							
Domestic shipments							
Steel service centres and other wholesalers and warehouses	1,668	10,686	159,733	16,246	1,877	40,591	257,383
Motor vehicles and parts	754	32	31,064	7,496	0	53,148	98,608
Railway operating	.	0	0	.	.	0	38
Railroad cars and locomotives	.	623	0	.	.	.	623
Shipbuilding	.	.	.	.	.	.	0
Steel fabrication	x	3,650	x	230	.	2,661	67,023
Metal building systems	.	.	0	.	.	1,556	1,556
Contractors' products	94	0	3,560	2,536	.	18,780	26,086
Miscellaneous stamping and coating	0	0	3,601	3,103	.	16,311	24,321
Natural resources and extractive industries	73	0	0	19	.	4,071	15,264
Agricultural equipment	27	157	0	0	.	0	590
Non electrical machinery	0	7	1,084	0	.	0	9,345
Electrical machinery	.	.	88	1,562	.	1,413	3,063
Industrial packaging material	.	.	132	3,664	0	0	3,796
Pipes and tubes	0	0	87,595	353	.	1,150	89,098
Wire and wire products	x	.	x	38	.	113	21,242
Containers and closures	0	.	0	0	1,027	.	1,027
Appliances and utensils industries	.	.	0	0	.	705	705
Miscellaneous industries	325	0	0	.	.	.	325
Total domestic shipments	x	15,155	295,844	35,247	2,904	140,499	620,093
Total domestic alloy shipments	190	0	.	0	.	.	5,991
Exports to the United States	1,198	11,230	x	17,037	16,962	53,066	255,823
Exports to other countries (excluding United States)	0	1,405	x	396	1,166	14,196	94,218
Total disposition	4,391	27,790	385,282	52,680	21,032	207,761	970,134
Total alloy shipments	678	0	.	0	.	.	10,593
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	178	178
Imports by producers (including conversion)	.	0	739	4,582	.	0	5,321

1. 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.

Note(s): Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

Table 1-2

Steel primary forms and pig iron — Disposition of net shipments of rolled steel products, by product and industry, year-to-date 2012

	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								
Steel service centres and other wholesalers and warehouses	9	13,080	54,153	46,895	21,447	x	0	.
Motor vehicles and parts	x	27	x	187	.	42,575	0	.
Railway operating	0	.	.	.	0	222	0	.
Railroad cars and locomotives	.	0	.	.	.	.	.	.
Shipbuilding	0	.	.	.	.	.	.	.
Steel fabrication	0	960	x	15,142	311,449	x	0	.
Metal building systems	.	0	0	0	261	326	.	.
Contractors' products	.	0	0	.	3,325	1,963	1,832	.
Miscellaneous stamping and coating	0	52	1,927	1,870	.	4,653	.	.
Natural resources and extractive industries	.	408	57	0	7,995	76,503	0	.
Agricultural equipment	.	0	24	40	0	3,509	.	0
Non electrical machinery	.	0	x	47	.	58,045	0	.
Electrical machinery	.	.	.	.	.	0	.	.
Industrial packaging material	.	.	.	.	.	0	.	.
Pipes and tubes	.	.	.	.	.	0	.	.
Wire and wire products	0	.	.	.	0	x	x	.
Containers and closures	.	.	.	.	.	.	.	.
Appliances and utensils industries	.	.	.	.	.	.	.	.
Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	x	14,527	x	64,181	344,477	266,109	x	0
Total domestic alloy shipments	0	.	.	.	.	41,216	x	.
Exports to the United States	x	7,205	x	42,490	0	188,857	x	.
Exports to other countries (excluding United States)	x	0	628	29	0	189,378	x	0
Total disposition	x	21,732	115,180	106,700	344,477	644,344	x	0
Total alloy shipments	0	.	.	.	.	74,941	x	.
Producers interchange, for sale	x	.	0	.	.	4,253	556	.
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 of rolled steel products, by product and industry, year-to-date 2012

	Cold finished bars	Plates ¹	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							
Steel service centres and other wholesalers and warehouses	x	138,381	1,479,948	126,013	9,718	275,304	2,247,261
Motor vehicles and parts	x	32	252,541	64,611	0	395,319	764,267
Railway operating	.	0	0	.	.	0	222
Railroad cars and locomotives	.	5,098	0	.	.	.	5,098
Shipbuilding	.	.	.	.	.	.	0
Steel fabrication	x	48,985	x	433	.	14,783	x
Metal building systems	.	.	0	.	.	13,603	14,190
Contractors' products	502	1,302	39,596	15,264	.	175,736	239,520
Miscellaneous stamping and coating	86	0	40,298	25,019	.	118,348	192,253
Natural resources and extractive industries	683	0	0	22	.	4,090	89,758
Agricultural equipment	278	2,964	0	0	.	0	6,815
Non electrical machinery	x	1,503	8,457	0	.	0	78,554
Electrical machinery	.	.	522	8,582	.	12,911	22,015
Industrial packaging material	.	.	527	34,750	0	0	35,277
Pipes and tubes	0	0	721,073	5,608	.	13,233	739,914
Wire and wire products	x	.	x	811	.	571	x
Containers and closures	0	.	227	2,657	7,486	.	10,370
Appliances and utensils industries	.	.	0	5,662	.	6,735	12,397
Miscellaneous industries	1,428	0	0	.	.	.	1,428
Total domestic shipments	x	198,265	2,583,901	289,432	17,204	1,030,633	5,052,618
Total domestic alloy shipments	1,346	0	.	0	.	.	x
Exports (for final sale)							
Exports to the United States	x	105,035	x	133,760	146,583	387,842	2,295,828
Exports to other countries (excluding United States)	41	27,973	x	14,153	6,106	104,901	603,523
Total disposition	x	331,273	3,422,705	437,345	169,893	1,523,376	7,951,969
Total alloy shipments	5,193	0	.	0	.	.	x
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	1,284	1,284
Imports by producers (including conversion)	.	0	20,300	10,790	.	0	x

1. 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.

Note(s): Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

Table 1-3

Steel primary forms and pig iron — Production of pig iron

	August		Year-to-date	
	2011	2012	2011	2012
metric tonnes				
Production of pig iron	633,375	633,547	4,893,129	5,148,119

Table 1-4

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

	August		Year-to-date	
	2011	2012	2011	2012
	metric tonnes			
Pig iron including pre-reduced iron	637,286	665,814	5,129,931	5,322,427
Scrap				
Own make	122,857	113,403	929,352	1,038,687
Purchased	410,208	363,352	3,739,924	3,581,849
Total, pig iron and scrap products	1,170,351	1,142,569	9,799,207	9,942,963

Table 1-5

Steel primary forms and pig iron — Production and shipments of steel, primary forms, monthly

	Production		Shipments	
	2011	2012	2011	2012
	metric tonnes			
August				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	419,209	473,776	x	x
Basic oxygen furnace	623,676	634,560	x	x
Steel, primary forms - Total	1,042,885	1,108,336	91,504	121,199
Included in "Steel primary forms total" above				
Continuous cast steel	1,038,135	1,090,645	88,182	100,769

Table 1-6

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

	Production		Shipments	
	2011	2012	2011	2012
	metric tonnes			
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	3,747,643	3,924,456	x	x
Basic oxygen furnace	4,994,759	5,246,723	x	x
Steel, primary forms - Total	8,742,402	9,171,179	1,304,187	1,352,742
Included in "Steel primary forms total" above				
Continuous cast steel	8,629,490	8,919,438	1,220,341	1,133,316

Table 2-1
Steel pipe and tubing — Production and shipments, monthly 2012

	Production	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
	metric tonnes			
August				
Total, pipe and tubing	153,448	127,835	79,536	207,372
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	3,073	0	3,073
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	20,984	x	x	18,492
over 16" (40.64 cm) outside diameter	14,156	7,993	21,531	29,524
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	10,777
over 16" (40.64 cm) periphery	x	x	x	x
Standard 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	x	x	x	x
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	12	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	x
over 16" (40.64 cm) outside diameter	x	2,197	14	2,211
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	10,538	13,669	7,439	21,108
Mechanical tubing, welded, produced from cold rolled	x	4,956	1,849	6,805
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	31,722	9,623	41,346
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	6,949	x	x
Other tubular products	x	2,181	519	2,700

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 2012

	Production	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
		metric tonnes		
Total, pipe and tubing	1,548,775	1,050,075	746,588	1,796,665
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	18,536	0	18,536
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	151,507
over 16" (40.64 cm) outside diameter	166,433	16,210	134,091	150,302
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	98,293
over 16" (40.64 cm) periphery	x	x	x	x
Standard 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	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	x	x	x	x
over 16" (40.64 cm) outside diameter	x	x	130	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	84,232	117,877	55,321	173,196
Mechanical tubing, welded, produced from cold rolled	x	38,316	15,058	53,372
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	292,149	173,648	465,797
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	52,136	x	x
Other tubular products	x	12,564	5,325	17,888

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

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

	Shipments				Production
	2011	2012		Exports	
		Total shipments	Domestic shipments		
metric tonnes					
August					
Barbed wire	x	x	x	0	.
Uncoated steel wire	17,625	18,177	8,017	10,160	.
Galvanized steel wire	7,530	6,889	2,929	3,960	.
Other coated steel wire	x	x	x	0	.
Farm fencing and wire chain link fabric	x	641	x	x	698
Wire mesh, bright or uncoated and galvanized	x	x	3,313	x	3,440
Wire rope	x	x	x	x	x
Nails and staples	2,432	x	863	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	2,431	2,365	x	x	2,794
Staples of iron or steel	1	x	x	0	x
All other wire products	x	1,518	1,509	9	1,663
Grand total	34,863	37,046	19,669	17,377	.

Note(s): Data has been revised from March 2010 to November 2011. These revised data are available at: www.statcan.gc.ca/cansim, table 303-0047. Totals may not add due to rounding.

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

	Shipments				Production
	2011	2012			
		Total shipments	Domestic shipments	Exports	
	metric tonnes				
Barbed wire	x	x	x	x	.
Uncoated steel wire	153,995	145,957	65,983	79,974	.
Galvanized steel wire	59,672	60,075	26,895	33,180	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	x	6,517	x	x	6,708
Wire mesh, bright or uncoated and galvanized	x	x	26,887	x	28,819
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	x	21,847	x	x	21,643
Staples of iron or steel	5	x	x	0	x
All other wire products	x	x	x	26	x
Grand total	311,417	311,195	168,557	142,638	.

Note(s): Data has been revised from March 2010 to November 2011. These revised data are available at: www.statcan.gc.ca/cansim, table 303-0047. 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 (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 (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 the Annual Survey of Manufactures and Logging (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 Annual Survey of Manufactures (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).