

Catalogue no. 41-019-X

Steel, Tubular Products and Steel Wire

April 2013



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Statistics Canada
Manufacturing and Energy Division

Steel, Tubular Products and Steel Wire

April 2013

Published by authority of the Minister responsible for Statistics Canada

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June 2013

Catalogue no. 41-019-X, vol. 9, no. 4

ISSN 1712-980X

Frequency: Monthly

Ottawa

Cette publication est également disponible en français.

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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

April 2013

- Monthly production of primary steel and pig iron decreased 12.0% in April 2013 to 995,571 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 4.5% to 993,762 metric tonnes.
- Between March 2013 and April 2013, production of steel pipe and tubing decreased 8.9% to 174,326 metric tonnes.
- Total monthly shipments of steel wire and specified wire products increased 3.1% to 38,516 metric tonnes in April 2013.

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 2013

	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							
April								
Domestic shipments								
Steel service centres and other wholesalers and warehouses	0	4,925	4,790	3,453	2,325	8,494	0	.
Motor vehicles and parts	0	0	338	10	.	5,005	0	.
Railway operating	0	.	.	.	0	25	0	.
Railroad cars and locomotives	.	0	.	.	.	.	.	.
Shipbuilding	0	.	.	.	.	.	.	.
Steel fabrication	0	49	399	x	44,020	275	0	.
Metal building systems	.	0	0	0	85	0	.	.
Contractors' products	.	0	0	.	1,900	12	529	.
Miscellaneous stamping and coating	0	3	60	610	.	23	.	.
Natural resources and extractive industries	.	0	0	0	2,718	10,297	0	.
Agricultural equipment	.	0	0	0	0	316	.	0
Non electrical machinery	.	0	1,743	0	.	6,960	0	.
Electrical machinery	.	.	.	.	.	0	.	.
Industrial packaging material	.	.	.	.	.	0	.	.
Pipes and tubes	.	.	.	.	.	0	.	.
Wire and wire products	0	.	.	.	0	2,061	x	.
Containers and closures	.	.	.	.	.	.	.	.
Appliances and utensils industries	.	.	.	.	.	.	.	.
Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	0	4,977	7,330	x	51,048	33,468	x	0
Total domestic alloy shipments	0	.	.	.	.	4,413	x	.
Exports to the United States	x	2,981	8,673	6,039	0	22,601	x	.
Exports to other countries (excluding United States)	2,525	0	75	0	0	13,770	x	0
Total disposition	x	7,958	16,078	x	51,048	69,839	x	0
Total alloy shipments	0	.	.	.	.	8,822	x	.
Producers interchange, for sale	x	.	0	.	.	126	19	.
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 2013

	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							
April							
Domestic shipments							
Steel service centres and other wholesalers and warehouses	1,377	19,640	135,456	14,180	1,397	33,853	229,890
Motor vehicles and parts	829	0	41,772	9,147	0	60,364	117,465
Railway operating	.	0	0	.	.	0	25
Railroad cars and locomotives	.	945	0	.	.	.	945
Shipbuilding	.	.	.	.	.	.	0
Steel fabrication	x	5,759	4,700	210	.	1,666	x
Metal building systems	.	.	0	.	.	1,252	1,337
Contractors' products	0	398	6,779	1,593	.	24,095	35,306
Miscellaneous stamping and coating	0	0	2,693	2,767	.	11,392	17,548
Natural resources and extractive industries	100	0	0	0	.	2	13,117
Agricultural equipment	30	84	0	0	.	0	430
Non electrical machinery	0	197	1,545	0	.	0	10,445
Electrical machinery	.	.	140	1,185	.	1,865	3,190
Industrial packaging material	.	.	0	4,784	0	0	4,784
Pipes and tubes	0	0	148,776	850	.	2,176	151,802
Wire and wire products	x	.	168	93	.	35	x
Containers and closures	0	.	0	0	825	.	825
Appliances and utensils industries	.	.	0	138	.	1,189	1,327
Miscellaneous industries	172	0	0	.	.	.	172
Total domestic shipments	x	27,023	342,029	34,947	2,222	137,889	669,082
Total domestic alloy shipments	100	0	.	0	.	.	x
Exports to the United States	1,282	12,638	85,126	x	16,926	64,198	279,594
Exports to other countries (excluding United States)	0	3,527	9,127	x	601	13,452	45,086
Total disposition	x	43,188	436,282	57,938	19,749	215,539	993,762
Total alloy shipments	517	0	.	0	.	.	x
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	0	565	927	.	0	1,492

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 2013

	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	0	18,269	22,758	13,836	9,422	31,936	0	.
Motor vehicles and parts	0	0	1,315	83	.	20,421	0	.
Railway operating	0	.	.	.	0	93	0	.
Railroad cars and locomotives	.	0	.	.	.	.	.	.
Shipbuilding	0	.	.	.	.	.	.	.
Steel fabrication	0	849	2,081	x	166,500	1,322	0	.
Metal building systems	.	0	0	0	85	0	.	.
Contractors' products	.	0	0	.	5,929	701	1,229	.
Miscellaneous stamping and coating	0	12	647	2,594	.	774	.	.
Natural resources and extractive industries	.	0	0	0	8,586	42,472	0	.
Agricultural equipment	.	0	0	0	0	1,292	.	0
Non electrical machinery	.	0	6,151	0	.	32,148	0	.
Electrical machinery	.	.	.	.	.	0	.	.
Industrial packaging material	.	.	.	.	.	0	.	.
Pipes and tubes	.	.	.	.	.	0	.	.
Wire and wire products	0	.	.	.	0	8,183	x	.
Containers and closures	.	.	.	.	.	.	.	.
Appliances and utensils industries	.	.	.	.	.	.	.	.
Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	0	19,130	32,952	x	190,522	139,342	x	0
Total domestic alloy shipments	0	.	.	.	.	20,513	x	.
Exports to the United States	x	11,872	29,826	22,468	0	89,642	x	.
Exports to other countries (excluding United States)	x	0	268	0	0	69,086	x	0
Total disposition	x	31,002	63,046	x	190,522	298,070	x	0
Total alloy shipments	0	.	.	.	.	37,728	x	.
Producers interchange, for sale	x	.	0	.	.	1,539	57	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	0	.	.	.	.	.	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 2013

	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	6,089	61,250	683,343	64,290	5,020	133,124	1,049,337
Motor vehicles and parts	3,298	74	153,543	33,286	0	221,635	433,655
Railway operating	.	0	0	.	.	0	93
Railroad cars and locomotives	.	3,505	0	.	.	.	3,505
Shipbuilding	.	.	.	.	.	.	0
Steel fabrication	x	21,249	14,324	393	.	5,462	x
Metal building systems	.	.	0	.	.	5,381	5,466
Contractors' products	0	9,346	20,545	8,112	.	90,491	136,353
Miscellaneous stamping and coating	32	0	9,510	10,552	.	50,957	75,078
Natural resources and extractive industries	416	0	0	0	.	3	51,477
Agricultural equipment	167	1,049	0	0	.	0	2,508
Non electrical machinery	0	680	3,999	0	.	0	42,978
Electrical machinery	.	.	463	4,481	.	5,972	10,916
Industrial packaging material	.	.	0	18,232	0	0	18,232
Pipes and tubes	0	0	580,933	3,024	.	9,977	593,934
Wire and wire products	x	.	611	317	.	162	x
Containers and closures	0	.	309	0	3,900	.	4,209
Appliances and utensils industries	.	.	0	260	.	4,807	5,067
Miscellaneous industries	598	0	0	.	.	.	598
Total domestic shipments	x	97,153	1,467,580	142,947	8,920	527,971	2,747,201
Total domestic alloy shipments	375	0	.	0	.	.	x
Exports (for final sale)							
Exports to the United States	5,823	x	341,908	x	69,295	256,721	1,124,891
Exports to other countries (excluding United States)	21	x	33,737	x	2,433	54,536	216,722
Total disposition	x	149,261	1,843,225	224,055	80,648	839,228	4,088,814
Total alloy shipments	2,563	0	.	0	.	.	x
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	652	652
Imports by producers (including conversion)	.	0	3,333	5,165	.	0	8,498

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

	April		Year-to-date	
	2012	2013	2012	2013
metric tonnes				
Production of pig iron	641,259	502,376	2,625,902	2,215,278

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

	April		Year-to-date	
	2012	2013	2012	2013
	metric tonnes			
Pig iron including pre-reduced iron	667,087	348,771	2,724,550	1,763,018
Scrap				
Own make	134,433	342,014	558,050	1,313,540
Purchased	488,731	429,232	1,919,447	1,657,872
Total, pig iron and scrap products	1,290,251	1,120,017	5,202,047	4,734,430

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

	Production		Shipments	
	2012	2013	2012	2013
	metric tonnes			
April				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	492,386	498,504	x	x
Basic oxygen furnace	673,109	497,067	x	x
Steel, primary forms - Total	1,165,495	995,571	153,715	162,888
Included in "Steel primary forms total" above				
Continuous cast steel	1,130,980	972,403	124,856	144,295

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

	Production		Shipments	
	2012	2013	2012	2013
	metric tonnes			
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	1,981,815	1,859,123	x	x
Basic oxygen furnace	2,729,011	2,410,943	x	x
Steel, primary forms - Total	4,710,826	4,270,066	693,638	692,016
Included in "Steel primary forms total" above				
Continuous cast steel	4,574,013	4,147,556	576,755	591,100

Table 2-1
Steel pipe and tubing — Production and shipments, monthly 2013

	Production	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
		metric tonnes		
April				
Total, pipe and tubing	174,326	100,583	119,374	219,956
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	4,064	1,519	0	1,519
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	5,958	x	x	11,616
over 16" (40.64 cm) outside diameter	37,238	5,037	39,503	44,540
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	6,922	x	x
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	40	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,231	x	x	x
over 16" (40.64 cm) outside diameter	x	1,516	1	1,517
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	23,429	9,511	7,564	17,073
Mechanical tubing, welded, produced from cold rolled	6,481	4,869	2,046	6,915
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	18,543	17,621	36,165
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	2,456	x	x
Other tubular products	x	2,867	363	3,230

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 2013

	Production	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
		metric tonnes		
Total, pipe and tubing	727,061	440,250	384,829	825,081
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	5,149	0	5,149
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	29,005	x	x	37,784
over 16" (40.64 cm) outside diameter	141,078	14,439	110,966	125,403
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	x
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	5,005	89	5,094
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	87,782	40,865	27,433	68,295
Mechanical tubing, welded, produced from cold rolled	25,940	19,058	7,678	26,736
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	115,187	55,925	171,114
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	x	x	x
Other tubular products	x	7,446	1,828	9,274

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
	2012	2013			
		Total	Domestic	Exports	
		shipments	shipments		
metric tonnes					
April					
Barbed wire	x	x	x	0	.
Uncoated steel wire	18,242	19,113	8,468	10,645	.
Galvanized steel wire	7,197	8,210	2,917	5,293	.
Other coated steel wire	x	x	x	0	.
Farm fencing and wire chain link fabric	825	393	x	x	427
Wire mesh, bright or uncoated and galvanized	x	x	3,904	x	4,407
Wire rope	x	x	x	x	x
Nails and staples	x	x	753	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	2,584	2,226	x	x	2,525
Staples of iron or steel	x	x	x	0	x
All other wire products	x	992	992	0	1,011
Grand total	40,279	38,516	19,279	19,237	.

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
	2012	2013			
		Total shipments	Domestic shipments	Exports	
	metric tonnes				
Barbed wire	x	x	x	0	.
Uncoated steel wire	75,674	72,473	31,912	40,561	.
Galvanized steel wire	31,999	30,546	12,144	18,402	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	3,196	2,060	x	x	2,005
Wire mesh, bright or uncoated and galvanized	x	x	11,982	x	13,195
Wire rope	x	x	x	x	x
Nails and staples	x	x	3,365	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	11,381	9,047	x	x	8,521
Staples of iron or steel	x	x	x	0	x
All other wire products	x	x	x	13	4,792
Grand total	162,202	148,714	76,983	71,731	.

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).