

Catalogue no. 41-019-X

Steel, Tubular Products and Steel Wire

November 2011



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Published by authority of the Minister responsible for Statistics Canada

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January 2012

Catalogue no. 41-019-X, vol. 7, no. 11

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

November 2011

- Monthly production of primary steel and pig iron decreased 14.2% in November 2011 to 937,233 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 7.3% to 909,475 metric tonnes.
- Between October 2011 and November 2011, production of steel pipe and tubing decreased 2.5% to 210,650 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 4.6% to 51,566 metric tonnes in November 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								
November								
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses	4	2,522	6,419	6,385	4,290	x	0	.
21 Motor vehicles and parts	72	0	191	9	.	3,604	0	.
22 Railway operating	0	.	.	.	0	82	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	151	898	3,562	55,788	x	0	.
32 Metal building systems	.	0	0	0	0	0	.	.
33 Contractors' products	.	0	0	.	983	814	180	.
34 Miscellaneous stamping and coating	0	0	86	163	.	0	.	.
41 Natural resources and extractive industries	.	178	0	0	1,165	10,682	0	.
51 Agricultural equipment	.	0	2	0	0	270	.	0
52 Non electrical machinery	.	0	15	0	.	8,700	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	296	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	76	2,851	7,611	10,119	62,226	37,266	x	0
Total domestic alloy shipments	0	.	.	.	.	5,744	x	.
81 Exports to the United States	x	911	2,890	3,583	0	18,832	x	.
82 Exports to other countries (excluding United States)	x	0	176	0	0	14,352	x	0
Total disposition	26,844	3,762	10,677	13,702	62,226	70,450	x	0
Total alloy shipments	0	.	.	.	.	8,737	x	.
Producers interchange, for sale	x	.	0	.	.	449	72	.
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 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							
November							
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses	x	22,252	149,932	12,475	1,167	22,798	242,418
21 Motor vehicles and parts	747	0	27,962	7,744	0	44,969	85,298
22 Railway operating	.	0	0	.	.	0	82
23 Railroad cars and locomotives	.	907	0	.	.	.	907
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	4,813	5,001	0	.	2,738	x
32 Metal building systems	.	.	0	.	.	2,096	2,096
33 Contractors' products	0	136	1,361	1,592	.	20,319	25,385
34 Miscellaneous stamping and coating	13	0	3,724	3,249	.	19,581	26,816
41 Natural resources and extractive industries	50	0	0	0	.	2	12,077
51 Agricultural equipment	49	525	0	0	.	0	846
52 Non electrical machinery	0	231	346	0	.	0	9,292
53 Electrical machinery	.	.	61	545	.	1,474	2,080
54 Industrial packaging material	.	.	0	4,795	0	0	4,795
61 Pipes and tubes	0	0	93,877	621	.	1,101	95,599
62 Wire and wire products	x	.	246	63	.	112	x
63 Containers and closures	0	.	130	635	1,273	.	2,038
64 Appliances and utensils industries	.	.	0	1,830	.	859	2,689
70 Miscellaneous industries	222	0	0	.	.	.	222
Total domestic shipments	x	28,864	282,640	33,549	2,440	116,049	604,211
Total domestic alloy shipments	225	0	.	0	.	.	x
81 Exports to the United States	1,429	14,351	x	14,026	12,372	36,899	254,019
82 Exports to other countries (excluding United States)	0	6,776	x	1,550	757	12,953	51,245
Total disposition	x	49,991	389,915	49,125	15,569	165,901	909,475
Total alloy shipments	827	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	3,357	826	.	0	4,183

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	31	17,588	64,751	61,409	34,314	x	0	.
21 Motor vehicles and parts	1,904	7	1,989	168	.	60,056	0	.
22 Railway operating	0	.	.	.	0	524	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	711	11,327	25,467	414,972	x	0	.
32 Metal building systems	.	0	0	0	827	81	.	.
33 Contractors' products	.	0	0	.	10,555	4,172	1,542	.
34 Miscellaneous stamping and coating	0	16	2,956	3,055	.	6,061	.	.
41 Natural resources and extractive industries	.	1,749	79	14	14,085	117,068	0	.
51 Agricultural equipment	.	0	2	18	0	2,678	.	59
52 Non electrical machinery	.	0	17,041	58	.	87,928	0	.
53 Electrical machinery	.	.	.	.	.	222	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	385	.	.	.	0	5,744	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	2,320	20,071	98,145	90,189	474,753	391,302	x	59
Total domestic alloy shipments	0	.	.	.	.	61,148	x	.
81 Exports to the United States	x	9,957	40,673	51,343	35	245,468	x	.
82 Exports to other countries (excluding United States)	x	0	1,093	22	0	226,137	x	0
Total disposition	920,855	30,028	139,911	141,554	474,788	862,907	x	59
Total alloy shipments	0	.	.	.	.	105,144	x	.
Producers interchange, for sale	x	.	0	.	.	5,420	528	.
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	190,180	2,198,871	212,138	17,446	340,095	3,256,561
21 Motor vehicles and parts	7,723	0	325,225	76,517	0	393,281	866,870
22 Railway operating	.	0	0	.	.	0	524
23 Railroad cars and locomotives	.	7,627	0	.	.	.	7,627
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	45,600	35,689	0	.	21,834	x
32 Metal building systems	.	.	0	.	.	24,560	25,468
33 Contractors' products	0	593	51,508	21,188	.	229,043	318,601
34 Miscellaneous stamping and coating	284	0	57,618	39,391	.	184,855	294,236
41 Natural resources and extractive industries	601	17	3	0	.	27	133,643
51 Agricultural equipment	577	4,847	0	0	.	0	8,181
52 Non electrical machinery	120	775	8,040	0	.	0	113,962
53 Electrical machinery	.	.	1,564	15,835	.	17,949	35,570
54 Industrial packaging material	.	.	231	49,850	0	0	50,081
61 Pipes and tubes	0	0	1,062,592	6,116	.	13,586	1,082,294
62 Wire and wire products	x	.	1,678	883	.	792	x
63 Containers and closures	0	.	934	8,359	6,221	.	15,514
64 Appliances and utensils industries	.	.	0	17,633	.	12,184	29,817
70 Miscellaneous industries	1,868	0	0	.	.	.	1,868
Total domestic shipments	x	249,639	3,743,953	447,910	23,667	1,238,206	7,007,482
Total domestic alloy shipments	2,750	0	.	0	.	.	x
Exports ² (for final sale)							
81 Exports to the United States	13,783	143,299	x	161,335	174,881	375,516	3,389,276
82 Exports to other countries (excluding United States)	14	36,382	x	17,617	7,484	109,719	715,866
Total disposition	x	429,320	4,924,272	626,862	206,032	1,723,441	11,112,624
Total alloy shipments	8,035	0	.	0	.	.	x
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	23,462	10,223	.	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

	November		Year-to-date	
	2010	2011	2010	2011
metric tonnes				
Production of pig iron	571,804	534,284	6,985,053	6,685,689

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

	November		Year-to-date	
	2010	2011	2010	2011
	metric tonnes			
Pig iron including pre-reduced iron	598,324	520,733	6,920,243	6,953,224
Scrap				
Own make	106,797	117,852	1,311,962	1,300,854
Purchased	409,495	415,945	5,126,895	5,071,204
Total, pig iron and scrap products	1,114,616	1,054,529	13,359,100	13,325,281

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			
November				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	433,865	413,038	x	x
Basic oxygen furnace	562,627	600,151	x	x
Steel, primary forms - Total	996,492	937,233	189,117	124,427
Included in "Steel primary forms total" above				
Continuous cast steel	983,764	844,523	179,829	110,876

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	4,937,027	5,032,228	x	x
Basic oxygen furnace	6,941,270	6,890,235	x	x
Steel, primary forms - Total	11,878,297	11,846,507	2,972,619	1,754,382
Included in "Steel primary forms total" above				
Continuous cast steel	11,762,126	11,605,913	2,872,670	1,631,286

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

	Production	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
		metric tonnes		
November				
Total, pipe and tubing	210,650	156,250	66,598	222,849
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	2,663	3,113	0	3,113
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	18,389
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	11,809
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	3,283	1,616	939	2,555
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	424	x	x
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	526	1,119	25	1,144
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	2,530	x	445	x
over 16" (40.64 cm) outside diameter	x	x	0	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	19,226	14,609	7,007	21,616
Mechanical tubing, welded, produced from cold rolled	5,501	5,256	1,442	6,698
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	63,905	39,297	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	18,016	9,882	x	x
Other tubular products	x	1,461	551	2,011

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		
		Domestic shipments ¹	Exports	Total shipments
	metric tonnes			
Year-to-date				
Total, pipe and tubing	2,126,883	1,468,709	859,675	2,328,383
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	x	31,486
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	177,866
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	118,416
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	25,884	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	21,359	x	x	x
over 16" (40.64 cm) outside diameter	x	x	x	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	190,120	140,049	71,001	211,051
Mechanical tubing, welded, produced from cold rolled	76,447	50,518	16,667	67,185
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	405,332	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	104,023	x	x
Other tubular products	x	16,826	7,250	24,076

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				
November					
Barbed wire	299	x	x	x	.
Uncoated steel wire	18,838	16,645	7,766	8,879	.
Galvanized steel wire	14,957	14,969	8,472	6,497	.
Other coated steel wire	x	x	x	0	.
Farm fencing and wire chain link fabric	x	x	x	x	3,407
Wire mesh, bright or uncoated and galvanized	3,891	x	2,864	x	3,215
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	1,732	1,817	679	1,138	3,505
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	1	x
Grand total	53,887	51,566	30,062	21,504	.

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	204,932	204,145	89,242	114,903	.
Galvanized steel wire	121,200	163,932	88,779	75,153	.
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	38,293	x	x	x	46,849
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	28,904	x	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
Grand total	511,651	621,942	352,544	269,398	.

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).