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Steel, Tubular Products and Steel Wire

October 2012

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Statistics Canada
Manufacturing and Energy Division

Steel, Tubular Products and Steel Wire

October 2012

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User information

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
0s	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

October 2012

- Monthly production of primary steel and pig iron increased 0.1% in October 2012 to 1,118,688 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 3.1% to 1,006,715 metric tonnes.
- Between September 2012 and October 2012, production of steel pipe and tubing increased 3.1% to 204,511 metric tonnes.
- Total shipments of steel wire and specified wire products increased 8.5% to 35,649 metric tonnes in October 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							
October								
Domestic shipments								
Steel service centres and other wholesalers and warehouses	0	1,509	4,670	2,130	2,329	4,135	0	.
Motor vehicles and parts	145	0	291	32	.	4,240	0	.
Railway operating	0	.	.	.	0	27	0	.
Railroad cars and locomotives	.	0	.	.	.	.	.	.
Shipbuilding	0	.	.	.	.	.	.	.
Steel fabrication	0	230	630	x	54,607	422	0	.
Metal building systems	.	0	0	0	0	0	.	.
Contractors'products	.	0	0	.	984	351	0	.
Miscellaneous stamping and coating	0	3	101	415	.	82	.	.
Natural resources and extractive industries	.	0	0	0	1,594	7,510	0	.
Agricultural equipment	.	0	0	0	0	147	.	0
Non electrical machinery	.	0	1,574	0	.	6,970	0	.
Electrical machinery	.	.	.	.	.	0	.	.
Industrial packaging material	.	.	.	.	.	0	.	.
Pipes and tubes	.	.	.	.	.	0	.	.
Wire and wire products	0	.	.	.	0	1,700	x	.
Containers and closures	.	.	.	.	.	.	.	.
Appliances and utensils industries	.	.	.	.	.	.	.	.
Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	**145**	**1,742**	**7,266**	**x**	**59,514**	**25,584**	**x**	**0**
Total domestic alloy shipments	**0**	**.**	**.**	**.**	**.**	**4,612**	**0**	**.**
Exports to the United States	x	1,012	5,843	5,558	0	20,139	x	.
Exports to other countries (excluding United States)	x	0	112	10	0	16,809	x	0
Total disposition	**50,010**	**2,754**	**13,221**	**x**	**59,514**	**62,532**	**x**	**0**
Total alloy shipments	**0**	**.**	**.**	**.**	**.**	**7,769**	**0**	**.**
Producers interchange, for sale	x	.	0	.	.	231	0	.
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						
October							
Domestic shipments							
Steel service centres and other wholesalers and warehouses	1,307	12,220	181,335	18,072	1,247	27,058	256,012
Motor vehicles and parts	654	40	45,444	9,657	0	56,687	117,190
Railway operating	.	0	0	.	.	0	27
Railroad cars and locomotives	.	530	0	.	.	.	530
Shipbuilding	.	.	.	.	.	.	0
Steel fabrication	x	6,399	3,155	9	.	3,443	x
Metal building systems	.	.	0	.	.	2,065	2,065
Contractors'products	0	2,441	9,360	2,737	.	23,932	39,805
Miscellaneous stamping and coating	18	0	3,907	4,550	.	18,091	27,167
Natural resources and extractive industries	106	0	0	0	.	0	9,210
Agricultural equipment	36	406	0	0	.	0	589
Non electrical machinery	0	388	391	0	.	0	9,323
Electrical machinery	.	.	30	2,380	.	1,520	3,930
Industrial packaging material	.	.	84	4,599	0	0	4,683
Pipes and tubes	0	0	110,063	503	.	1,122	111,688
Wire and wire products	x	.	143	63	.	40	x
Containers and closures	0	.	0	0	668	.	668
Appliances and utensils industries	.	.	0	27	.	811	838
Miscellaneous industries	461	0	0	.	.	.	461
Total domestic shipments	**x**	**22,424**	**353,912**	**42,597**	**1,915**	**134,769**	**672,369**
Total domestic alloy shipments	**169**	**0**	**.**	**0**	**.**	**.**	**4,781**
Exports to the United States	1,718	8,809	x	17,926	19,686	66,811	246,961
Exports to other countries (excluding United States)	20	2,797	x	657	668	14,162	87,385
Total disposition	**x**	**34,030**	**419,693**	**61,180**	**22,269**	**215,742**	**1,006,715**
Total alloy shipments	**690**	**0**	**.**	**0**	**.**	**.**	**8,459**
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	0	1,154	200	.	0	1,354

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	15,835	62,720	52,115	25,977	x	0	.
Motor vehicles and parts	x	27	x	228	.	52,940	0	.
Railway operating	0	.	.	.	0	249	0	.
Railroad cars and locomotives	.	0	.	.	.	.	.	.
Shipbuilding	0	.	.	.	.	.	.	.
Steel fabrication	0	1,287	x	x	417,733	x	0	.
Metal building systems	.	0	0	0	261	326	.	.
Contractors'products	.	0	0	.	5,725	2,457	2,054	.
Miscellaneous stamping and coating	0	58	2,109	2,386	.	6,500	.	.
Natural resources and extractive industries	.	408	57	0	11,481	92,297	0	.
Agricultural equipment	.	0	24	40	0	3,715	.	0
Non electrical machinery	.	0	x	47	.	72,055	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**	**17,615**	**x**	**x**	**461,177**	**322,941**	**x**	**0**
Total domestic alloy shipments	**0**	**.**	**.**	**.**	**.**	**51,093**	**x**	**.**
Exports to the United States	x	8,744	x	52,230	0	229,319	x	.
Exports to other countries (excluding United States)	x	0	839	39	0	216,554	x	0
Total disposition	**x**	**26,359**	**x**	**x**	**461,177**	**768,814**	**x**	**0**
Total alloy shipments	**0**	**.**	**.**	**.**	**.**	**91,734**	**x**	**.**
Producers interchange, for sale	x	.	0	.	.	4,823	578	.
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	162,289	1,861,144	159,959	12,117	332,889	2,780,828
Motor vehicles and parts	x	72	330,999	82,215	0	499,257	976,732
Railway operating	.	0	0	.	.	0	249
Railroad cars and locomotives	.	6,518	0	.	.	.	6,518
Shipbuilding	.	.	.	.	.	.	0
Steel fabrication	x	59,936	x	558	.	20,604	x
Metal building systems	.	.	0	.	.	17,312	17,899
Contractors'products	502	3,743	53,086	19,645	.	221,267	308,479
Miscellaneous stamping and coating	147	0	46,637	32,849	.	151,081	241,767
Natural resources and extractive industries	857	0	2	22	.	4,090	109,214
Agricultural equipment	314	3,569	0	0	.	0	7,662
Non electrical machinery	x	2,044	9,486	0	.	0	97,061
Electrical machinery	.	.	582	11,564	.	16,063	28,209
Industrial packaging material	.	.	633	43,747	0	0	44,380
Pipes and tubes	0	0	918,800	6,766	.	15,372	940,938
Wire and wire products	x	.	x	967	.	714	x
Containers and closures	0	.	227	2,700	8,648	.	11,575
Appliances and utensils industries	.	.	0	5,689	.	8,157	13,846
Miscellaneous industries	2,031	0	0	.	.	.	2,031
Total domestic shipments	**x**	**238,171**	**3,270,816**	**366,681**	**20,765**	**1,286,806**	**6,353,112**
Total domestic alloy shipments	**1,515**	**0**	**.**	**0**	**.**	**.**	**x**
Exports (for final sale)							
Exports to the United States	x	123,393	x	169,235	181,028	515,790	2,806,490
Exports to other countries (excluding United States)	61	32,364	x	15,331	7,127	131,329	775,895
Total disposition	**x**	**393,928**	**4,275,974**	**551,247**	**208,920**	**1,933,925**	**9,935,497**
Total alloy shipments	**6,465**	**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	25,681	11,278	.	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

	October		Year-to-date	
	2011	2012	2011	2012
	metric tonnes			
Production of pig iron	634,694	605,203	6,151,405	6,379,654

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

	October		Year-to-date	
	2011	2012	2011	2012
	metric tonnes			
Pig iron including pre-reduced iron	657,623	663,138	6,432,491	6,667,873
Scrap				
Own make	127,788	116,547	1,183,002	1,264,696
Purchased	446,213	387,441	4,655,259	4,324,074
Total, pig iron and scrap products	**1,231,624**	**1,167,126**	**12,270,752**	**12,256,643**

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			
October				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	422,320	505,749	x	x
Basic oxygen furnace	670,474	612,939	x	x
Steel, primary forms - Total	**1,092,794**	**1,118,688**	**162,602**	**209,100**
Included in "Steel primary forms total" above				
Continuous cast steel	1,074,053	1,085,097	148,274	179,887

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	4,619,190	4,898,519	x	x
Basic oxygen furnace	6,290,084	6,509,159	x	x
Steel, primary forms - Total	**10,909,274**	**11,407,678**	**1,629,955**	**1,741,453**
Included in "Steel primary forms total" above				
Continuous cast steel	10,761,390	11,087,590	1,520,410	1,463,892

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

	Production	Shipments for sale		
		Domestic shipments[1]	Exports	Total shipments
	metric tonnes			
October				
Total, pipe and tubing	**204,541**	**128,706**	**98,135**	**226,841**
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	1,479	1,904	0	1,904
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	14,168	x	x	17,963
over 16" (40.64 cm) outside diameter	31,987	12	27,748	27,760
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	12,205
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	57	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	57	x
over 16" (40.64 cm) outside diameter	x	584	16	600
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	11,784	15,775	6,192	21,966
Mechanical tubing, welded, produced from cold rolled	x	x	x	7,655
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	34,771	17,284	52,056
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	6,953	x	x
Other tubular products	x	1,004	549	1,552

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	**1,951,655**	**1,328,902**	**932,555**	**2,261,457**
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	22,055	0	22,055
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	190,611
over 16" (40.64 cm) outside diameter	218,783	23,431	174,522	197,955
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	125,131
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	164	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	108,973	156,200	67,053	223,250
Mechanical tubing, welded, produced from cold rolled	x	x	x	66,983
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	355,546	209,645	565,192
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	67,780	x	x
Other tubular products	x	14,769	7,865	22,631

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			
		Total shipments	Domestic shipments	Exports	
	metric tonnes				
October					
Barbed wire	x	x	x	x	.
Uncoated steel wire	19,153	17,600	8,406	9,194	.
Galvanized steel wire	6,898	6,997	3,373	3,624	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	405	590	x	x	601
Wire mesh, bright or uncoated and galvanized	x	x	2,470	x	2,825
Wire rope	x	x	x	x	x
Nails and staples	1,719	x	x	992	x
Wire roofing nails of a length of 25 mm or more, iron or steel	1,718	1,673	681	992	2,199
Staples of iron or steel	1	x	x	0	x
All other wire products	x	1,307	1,302	5	1,609
Grand total	**35,729**	**35,649**	**19,844**	**15,805**	**.**

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	192,316	178,731	81,844	96,887	.
Galvanized steel wire	73,284	74,186	33,411	40,775	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	x	7,657	x	x	7,917
Wire mesh, bright or uncoated and galvanized	x	x	31,985	x	34,712
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	25,216	x	x	25,844
Staples of iron or steel	7	x	x	0	x
All other wire products	x	x	x	34	x
Grand total	**385,148**	**379,689**	**206,545**	**173,144**	**.**

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 OT6 (Telephone: 1-866-873-8789 or 613-951-9497; Fax line: 613-951-3877; Internet: *manufact@statcan.gc.ca*).