Steel, Tubular Products and Steel Wire



August 2011



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Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 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

August 2011

- Monthly production of primary steel and pig iron decreased 2.0% in August 2011 to 1,042,885 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 8.0% to 1,047,668 metric tonnes.
- Between July 2011 and August 2011, production of steel pipe and tubing increased 10.0% to 185,443 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 30.6% to 46,780 metric tonnes in August 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 shipments ¹ 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 to	nnes			
August								,
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating 23 Railroad cars and locomotives 24 Shipbuilding 31 Steel fabrication 32 Metal building systems 33 Contractors products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries 51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes 62 Wire and wire products 63 Containers and closures 64 Appliances and utensils industries 70 Miscellaneous industries	0 149 0 0 0	1,200 7 0 80 0 0 188 0 0	4,992 231 	7,007 11 2,099 0 367 0 0 27	711 . 0 	x 4,738 163	0 0 0	
Total domestic shipments	149	1,475	7,510	9,511	35,839	37,964	x	0
Total domestic alloy shipments	0		•	•		5,401	x	
81 Exports to the United States 82 Exports to other countries (excluding United States)	79,369 421	1,028 0	3,599 141	5,207 0	35 0	23,721 16,083	X X	0
Total disposition	79,939	2,503	11,250	14,718	35,874	77,768	X	0
Total alloy shipments	0					10,174	0	
Producers interchange, for sale	х		0			695	111	
Exports for conversion and return						0		
Imports by producers (including conversion)	х	•				•	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
			n	netric tonnes			
August							
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating 23 Railroad cars and locomotives 24 Shipbuilding 31 Steel fabrication 32 Metal building systems 33 Contractors'products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries 51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes 62 Wire and wire products 63 Containers and closures	x 837	18,175 0 0 1,120 4,428 0 0 782 0	205,935 31,071 0 0 3,705 0 2,379 3,991 0 0 568 44 0 112,525 200 0	22,028 6,445	1,021 0	39,905 28,981 0	314,650 72,470 163 1,120 0 x 1,931 26,005 24,368 13,328 1,031 9,571 3,184 4,052 114,160 x 1,449
64 Appliances and utensils industries 70 Miscellaneous industries	222	Ö	0	1,406		811	2,217 222
Total domestic shipments	x	24,505	360,418	41,074	1,428	114,968	656,276
Total domestic alloy shipments	270	0		0			x
81 Exports to the United States 82 Exports to other countries (excluding United States)	1,482 0	11,492 4,822	x x	14,307 3,271	19,182 891	34,782 12,511	336,345 55,047
Total disposition	x	40,819	481,417	58,652	21,501	162,261	1,047,668
Total alloy shipments	1,177	0	•	0		•	11,351
Producers interchange, for sale	0		0	0		0	х
Exports for conversion and return			0	0		0	0
Imports by producers (including conversion)		1,808	0	2,652		0	х

^{1.} Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

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 shipments ¹ 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 to	nnes			
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating 23 Railroad cars and locomotives 24 Shipbuilding 31 Steel fabrication	8 1,420 0 0	13,996 7 0 496	47,718 1,377	44,409 130	24,597 0	x 46,367 413	0 0 0	
32 Metal building systems 33 Contractors'products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries	0	0 0 16 1,295	0 0 2,547 79	2,667 14	575 8,449 10,956	81 2,188 6,061 87,947	997 0	
51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes	· ·	0	0 10,169	13 58	0	1,890 62,609 222 0	0	59
62 Wire and wire products 63 Containers and closures 64 Appliances and utensils industries 70 Miscellaneous industries	106	0				4,683 0	X	
Total domestic shipments	1,534	15,810	69,218	64,612	298,429	288,684	x	59
Total domestic alloy shipments	0					43,691	x	
81 Exports to the United States 82 Exports to other countries (excluding United States)	X X	8,158 0	31,854 680	38,726 22	35 0	185,158 184,088	x x	. 0
Total disposition	632,126	23,968	101,752	103,360	298,464	657,930	x	59
Total alloy shipments	0					77,441	0	
Producers interchange, for sale	x		0			4,492	421	
Exports for conversion and return						0		
Imports by producers (including conversion)	х						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 21 Motor vehicles and parts 22 Railway operating 23 Railroad cars and locomotives 24 Shipbuilding 31 Steel fabrication 32 Metal building systems 33 Contractors'products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries 51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery 54 Industrial packaging material	x 5,504	129,881 0 0 4,607 31,582 277 0 17 3,894 544	1,722,896 237,207 0 0 25,046 0 45,681 43,591 1 0 6,818 1,393 231	165,003 55,123 0 16,813 30,449 0 0 0 13,180 38,086	9,538 0	245,235 279,119 0 15,407 18,560 161,293 128,181 20 0 0 13,322	2,488,685 626,254 413 4,607 0 x 19,216 235,698 213,763 100,827 6,296 80,198 28,117 38,317
61 Pipes and tubes 62 Wire and wire products 63 Containers and closures 64 Appliances and utensils industries 70 Miscellaneous industries	0 x 0 1,353	0	767,318 1,171 804 0	4,241 637 6,353 13,010	3,182	10,341 522 9,643	781,900 x 10,339 22,653 1,353
Total domestic shipments	х	170,802	2,852,157	342,895	12,720	881,643	5,171,635
Total domestic alloy shipments	2,153	0		0			x
Exports ² (for final sale)							
81 Exports to the United States 82 Exports to other countries (excluding United States)	9,925 0	98,900 22,370	X X	119,568 12,408	129,417 5,494	266,706 74,317	2,455,255 488,005
Total disposition	x	292,072	3,677,137	474,871	147,631	1,222,666	8,114,895
Total alloy shipments	5,524	0		0			82,965
Producers interchange, for sale	0		244	0		0	х
Exports for conversion and return ²			0	0		73	73
Imports by producers (including conversion)		15,450	17,120	7,752		0	х

^{1.} 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	
	2010	2011	2010	2011
_		metric tonnes		
Production of pig iron	769,095	633,375	5,199,262	4,893,129

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

	August		Year-to-date	
	2010	2011	2010	2011
		metric tonnes	:	
Pig iron including pre-reduced iron	743,708	637,286	5,096,489	5,129,931
Scrap Own make Purchased	128,470 479,644	122,857 410,208	947,794 3,807,347	929,352 3,739,924
Total, pig iron and scrap products	1,351,822	1,170,351	9,851,630	9,799,207

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		
August				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	435,446	419,209	x	X
Basic oxygen furnace	764,556	623,676	х	X
Steel, primary forms - Total	1,200,002	1,042,885	207,767	91,504
Included in "Steel primary forms total" above Continuous cast steel	1,196,209	1,038,135	204,217	88,182

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	3,631,056	3,747,643	x	x
Basic oxygen furnace	5,163,291	4,994,759	x	x
Steel, primary forms - Total	8,794,347	8,742,402	2,250,347	1,304,187
Included in "Steel primary forms total" above Continuous cast steel	8,724,377	8,629,490	2,185,560	1,220,341

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

	Production	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
	metric tonnes			
August				
Total, pipe and tubing	185,443	137,207	65,254	202,461
Pipe welded and seamless				
Line pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter over 16" (40.64 cm) outside diameter	1,174 x x	2,532 x x	0 x x	2,532 15,368 x
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	X X	5,902 x	3,940 x	9,842 x
Standard pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	720 x	704 x	786 55	1,490 x
Other pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter over 16" (40.64 cm) outside diameter	506 2,307 1,067	657 x 315	269 x 0	926 2,457 315
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	19,996 4,992	9,048 4,538	7,602 1,344	16,650 5,882
Oil country tubular goods Oil country tubular goods, welded and seamless, casing (including coupling) Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	42,252 18,385	38,263 6,387	X X	X X
Other tubular products	x	1,813	800	2,613

^{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	1,498,701	1,001,912	632,648	1,634,560
Pipe welded and seamless				
Line pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter over 16" (40.64 cm) outside diameter	x x x	x x x	x x x	20,019 123,756 x
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	x x	x x	x x	81,372 x
Standard pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	18,747 x	x x	X X	x x
Other pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter over 16" (40.64 cm) outside diameter	x 14,110 9,992	x x x	x x x	5,969 x x
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	128,646 59,364	99,657 36,125	50,680 11,974	150,337 48,099
Oil country tubular goods Oil country tubular goods, welded and seamless, casing (including coupling) Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x x	284,418 66,305	X X	x x
Other tubular products	x	12,678	5,507	18,185

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

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

	Shipments			Production	
	2010 2011				
		Total shipments	Domestic shipments	Exports	
<u> </u>			metric tonnes		
August					
Barbed wire	229	x	х	х	
Uncoated steel wire	19,199	17,324	7,712	9,612	
Galvanized steel wire	14,505	12,224	5,900	6,324	
Other coated steel wire	X	Х	Х	0	
Farm fencing and wire chain link fabric	X	Х	X	Х	2,792
Wire mesh, bright or uncoated and galvanized	2,912	Х	2,608	Х	3,447
Wire rope	Х	Х	Х	Х	х
Nails and staples	X	Χ	X	X	X
Wire roofing nails of a length of 25 mm or more, iron or steel	2,137	2,431	726	1,705	3,982
Staples of iron or steel	Х	Х	Х	X	х
All other wire products	Х	Х	Х	1	X
Grand total	54,371	46,780	24,934	21,846	

^{1.} Totals may not add due to rounding.

Table 3-2
Steel and specified wire products — Factory shipments 1, year-to-date

	Shipments			Production	
_	2010	2010 2011			-
		Total shipments	Domestic shipments	Exports	
_			metric tonnes		
Barbed wire	x	x	x	x	
Uncoated steel wire	149,613	150,466	65,256	85,210	
Galvanized steel wire	77,114	119,620	63,555	56,065	
Other coated steel wire	Х	X	X	Х	
Farm fencing and wire chain link fabric	Х	X	X	X	X
Wire mesh, bright or uncoated and galvanized	25,353	X	X	Х	35,815
Wire rope	Х	X	X	Х	х
Nails and staples	Х	X	X	Х	х
Wire roofing nails of a length of 25 mm or more, iron or steel	22,887	X	X	Х	29,182
Staples of iron or steel	Х	X	X	Х	х
All other wire products	Х	X	Х	X	X
Grand total	347,129	458,538	259,376	199,162	

^{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 Ingots and rolled steel products Steel pipe and tubing Steel wire	0 3 0 0	6 0 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 OT6 (Telephone: 1-866-873-8789 or 613-951-9497; Fax line: 613-951-3877; Internet: *manufact@statcan.gc.ca*).