Steel, Tubular Products and Steel Wire

December 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)

Table of contents

Highlig	hts	4
Related	I products	5
Statisti	cal tables	
1 Ste	eel primary forms and pig iron	7
1-1	Disposition of net shipments of rolled steel products, by product, monthly 2011	7
1-2	Disposition of net shipments of rolled steel products, by product, year-to-date 2011	9
1-3	Production of pig iron	10
1-4	Pig iron and scrap charged to steel furnaces	11
1-5	Production and shipments of steel, primary forms, monthly	11
1-6	Production and shipments of steel, primary forms, year-to-date	11
2 Ste	eel pipe and tubing	12
2-1	Production and shipments, monthly 2011	12
2-2	Production and shipments, year-to-date 2011	13
3 Ste	eel and specified wire products	13
3-1	Factory shipments, monthly	13
3-2	Factory shipments, year-to-date	14
Data qu	uality, concepts and methodology	
Concep	ts, methodology and data quality	15
Definition	ons	17

Highlights

December 2011

- Monthly production of primary steel and pig iron increased 11.4% in December 2011 to 1,044,252 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 6.3% to 966,486 metric tonnes.
- Between November 2011 and December 2011, production of steel pipe and tubing decreased 10.5% to 188,472 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 18.7% to 28,202 metric tonnes in December 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			
December								
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	0 113 0	860 0	5,581 149 1,159 0 0 0 907	5,819 6	6,487 0 47,184 0 369 831 0 35	x 4,209 0	0 0 0	0
Total domestic shipments	113	941	7,855	7,281	54,906	32,657	x	0
Total domestic alloy shipments	0					4,654	x	
81 Exports to the United States 82 Exports to other countries (excluding United States)	X X	480 0	3,275 39	4,183 0	0	22,602 18,346	x x	. 0
Total disposition	56,193	1,421	11,169	11,464	54,906	73,605	x	0
Total alloy shipments	0					7,991	x	
Producers interchange, for sale	x		0			490	115	
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			
December							
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	x 595 	15,306 0 0 1,230 2,568 2,872 0 0 196 79	246,974 21,438 0 0 1,686 0 1,771 2,705 0 0 307 0 81,142 131 279 0	26,250 5,616 	662 0 	36,232 35,148 0 4,012 1,863 27,749 15,303 1 0 0 1,472 0 1,006 66	356,300 67,274 0 1,230 0 58,618 1,863 34,051 21,245 9,296 425 8,056 3,029 2,522 82,871 11,877 937 1,224
70 Miscellaneous industries	185	0	0				185
Total domestic shipments Total domestic alloy shipments	167	22,251 0	356,433	40,864 0	854	123,331	661,003 x
81 Exports to the United States 82 Exports to other countries (excluding United States)	1,107 19	6,671 2,331	x x	11,673 1,374	10,482 3,090	32,224 8,918	243,588 61,895
Total disposition	x	31,253	439,693	53,911	14,426	164,473	966,486
Total alloy shipments	493	0		0			x
Producers interchange, for sale	0		0	0		0	х
Exports for conversion and return			0	0		0	0
Imports by producers (including conversion)		0	х	х		0	4,710

^{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 2,017 0	18,448 7 0	70,332 2,138	67,228 174	40,801 0	64,265 524	0 0 0	
31 Steel fabrication 32 Metal building systems 33 Contractors'products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries	0 0	765 0 0 16 1,776	12,486 0 0 3,015 79	26,863 0 3,115 14	462,156 827 10,924 14,916	x 81 4,568 6,970 125,418	0 1,725 0	
51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes		0 0	2 17,948	18 58	0	2,848 94,691 222 0	0	59
62 Wire and wire products 63 Containers and closures 64 Appliances and utensils industries 70 Miscellaneous industries	385 0	0		· · ·	35 0	6,334 0	x	
Total domestic shipments	2,433	21,012	106,000	97,470	529,659	423,959	x	59
Total domestic alloy shipments	0					65,802	x	
81 Exports to the United States 82 Exports to other countries (excluding United States)	X X	10,437 0	43,948 1,132	55,526 22	35 0	268,070 244,483	x x	. 0
Total disposition	977,048	31,449	151,080	153,018	529,694	936,512	x	59
Total alloy shipments	0					113,135	x	
Producers interchange, for sale	х	-	0			5,910	643	
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 61 Pipes and tubes 62 Wire and wire products 63 Containers and closures 64 Appliances and utensils industries 70 Miscellaneous industries	x 8,318	205,486 0 0 8,857 48,168 3,465 0 17 5,043 854 0	2,445,845 346,663 0 0 37,375 0 53,279 60,323 0 8,347 1,564 231 1,143,734 1,809 1,213 0	238,388 82,133 0 21,899 41,587 0 0 0 17,392 52,372 6,839 961 8,825 18,378	18,108 0 0 6,413	376,327 428,429 0 25,846 26,423 256,792 200,158 0 0 19,421 0 14,592 858 12,663	3,612,861 934,144 524 8,857 0 x 27,331 352,652 315,462 142,939 8,606 122,018 38,599 52,603 1,165,165 x 16,451 31,041 2,053
Total domestic shipments	x	271,890	4,100,386	488,774	24,521	1,361,537	7,668,485
Total domestic alloy shipments	2,917	0		0			х
Exports ² (for final sale)							
81 Exports to the United States 82 Exports to other countries (excluding United States)	14,890 33	149,970 38,713	x x		185,363 10,574	407,740 118,637	3,632,864 777,761
Total disposition	x	460,573	5,363,965	680,773	220,458	1,887,914	12,079,110
Total alloy shipments	8,528	0		0			x
Producers interchange, for sale	0		177	0		0	х
Exports for conversion and return ²			0	0		73	73
Imports by producers (including conversion)	·	17,331	х	х		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

	December		Year-to-date	
	2010	2011	2010	2011
		metric tonnes		
Production of pig iron	680,925	636,940	7,665,978	7,322,629

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

	December		Year-to-date	ı
	2010	2011	2010	2011
		metric tonne	s	
Pig iron including pre-reduced iron	702,019	631,118	7,622,262	7,584,342
Scrap Own make Purchased	123,841 425,624	126,649 411,614	1,435,803 5,552,519	1,427,436 5,482,815
Total, pig iron and scrap products	1,251,484	1,169,381	14,610,584	14,494,593

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		
December				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	410,921	380,135	X	X
Basic oxygen furnace	713,594	664,117	x	Х
Steel, primary forms - Total	1,124,515	1,044,252	204,815	119,323
Included in "Steel primary forms total" above Continuous cast steel	1,110,799	1,016,162	195,823	94,814

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 Basic oxygen furnace	5,347,948 7,654,864	5,412,363 7,478,396	x x	x x
Steel, primary forms - Total	13,002,812	12,890,759	3,177,434	1,871,887
Included in "Steel primary forms total" above Continuous cast steel	12,872,925	12,698,031	3,068,493	1,726,100

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

	Production Shipments for sale			
		Domestic shipments ¹	Exports	Total shipments
_	metric tonnes			
December				
Total, pipe and tubing	188,472	165,350	56,718	222,069
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	3,487 x x	4,251 x x	0 x 636	4,251 23,797 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	12,389 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	2,154 158	1,364 x	628 53	1,992 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	310 x x	368 x x	34 139 0	402 x x
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	15,948 4,271	9,119 3,694	5,928 1,236	15,047 4,930
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	44,941 7,172	10,604 X	55,546 x
Other tubular products	x	1,197	346	1,542

^{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	2,315,355	1,634,059	916,393	2,550,452
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	35,737 201,663 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	130,805 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	28,038 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	х х х	x x x	x x x	x x x
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	206,068 80,718	149,168 54,212	76,929 17,903	226,098 72,115
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	450,273 111,195	X X	x x
Other tubular products	x	18,023	7,596	25,618

^{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		
December					
Barbed wire	х	х	х	0	
Uncoated steel wire	13,816	13,835	6,194	7,641	
Galvanized steel wire	6,174	6,408	2,766	3,642	
Other coated steel wire	Х	Х	Х	X	
Farm fencing and wire chain link fabric	497	438	Х	X	514
Wire mesh, bright or uncoated and galvanized	3,224	Х	2,133	X	2,081
Wire rope	Х	Х	Х	X	Х
Nails and staples	Х	1,664	401	1,263	X
Wire roofing nails of a length of 25 mm or more, iron or steel	1,898	1,663	400	1,263	1,714
Staples of iron or steel	Х	1	1	0	X
All other wire products	X	х	X	1	X
Grand total	28,177	28,202	14,393	13,809	

1. Totals may not add due to rounding.

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.

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

	Shipments				Production
_	2010	2011			
		Total shipments	Domestic shipments	Exports	
_			metric tonnes		
Barbed wire	х	х	х	х	
Uncoated steel wire	219,048	222,847	97,273	125,574	
Galvanized steel wire	86,600	87,348	38,777	48,571	
Other coated steel wire	Х	Х	X	Х	
Farm fencing and wire chain link fabric	Х	Х	X	Х	14,920
Wire mesh, bright or uncoated and galvanized	41,517	Х	X	Х	48,930
Wire rope	Х	Х	X	Х	Х
Nails and staples	Х	Х	X	Х	Х
Wire roofing nails of a length of 25 mm or more, iron or steel	30,802	Х	X	Х	Х
Staples of iron or steel	Х	7	7	0	X
All other wire products	х	х	Х	20	х
Grand total	437,403	447,921	240,304	207,617	

1. Totals may not add due to rounding.

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.

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*).