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# Steel, Tubular Products and Steel Wire



July 2012



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# Steel, Tubular Products and Steel Wire

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## **User information**

#### **Symbols**

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- . 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**

#### **July 2012**

- Monthly production of primary steel and pig iron increased 12.2% in July 2012 to 1,133,478 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 1.8% to 964,125 metric tonnes.
- Between June 2012 and July 2012, production of steel pipe and tubing decreased 16.9% to 180,730 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 15.9% to 33,252 metric tonnes in July 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 to	nnes			
July								
Domestic shipments								
Steel service centres and other wholesalers and warehouses Motor vehicles and parts Railway operating Railroad cars and locomotives Shipbuilding Steel fabrication Metal building systems Contractors'products Miscellaneous stamping and coating Natural resources and extractive industries Agricultural equipment Non electrical machinery Electrical machinery Electrical machinery Industrial packaging material Pipes and tubes Wire and wire products Containers and closures Appliances and utensils industries Miscellaneous industries Miscellaneous industries	0 181 0	1,012 0	7,621 x	4,556 22 1,948 0 219 0 0	768 0 40,132 32 415 0 0	2,417 4,880 54  440 0 36 9 10,178 2 6,050 0 0	0 0 0	0
Total domestic shipments	181	1,085	X	6,745	41,347	24,066	Х	0
Total domestic alloy shipments	0				•	4,102	х	
Exports to the United States Exports to other countries (excluding United States)	X X	1,205 0	x 100	1,314 0	0	16,308 22,560	x x	
Total disposition	x	2,290	15,052	8,059	41,347	62,934	x	0
Total alloy shipments	0					8,362	x	
Producers interchange, for sale	x		0			228	36	
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 of rolled steel products, by product and industry monthly 2012

	Cold finished bars	Plates <sup>1</sup>	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			
July							
Domestic shipments							
Steel service centres and other wholesalers and warehouses Motor vehicles and parts Railway operating Railroad cars and locomotives Shipbuilding Steel fabrication Metal building systems Contractors'products Miscellaneous stamping and coating Natural resources and extractive industries Agricultural equipment Non electrical machinery Electrical machinery Industrial packaging material Pipes and tubes Wire and wire products Containers and closures Appliances and utensils industries Miscellaneous industries	1,154 x  x  0 145 0 x  0 x 	14,488 0 996 7,220 0 0 0 111  0	193,426 26,942 0 0 x 0 5,095 4,001 0 921 40 0 103,356 x 0	14,130 7,632  0 2,292 2,761 0 0 0 907 4,274 1,027 91 315 47	1,227 0     0  1,065	28,377 39,818 0 1,890 1,688 24,545 17,163 0 0 0 1,542 0 958 132	269,176 80,124 54 996 0 x 1,720 32,529 24,435 10,323 2,8,030 2,489 4,274 105,341 x 1,380 779 97
Total domestic shipments	х	22,715	336,458	33,476	2,292	116,845	613,163
Total domestic alloy shipments	176	0		0			x
Exports to the United States Exports to other countries (excluding United States)	1,041 0	12,466 2,961	x x	13,862 361	18,648 333	54,342 13,058	281,980 68,982
Total disposition	x	38,142	450,770	47,699	21,273	184,245	964,125
Total alloy shipments	622	0		0			x
Producers interchange, for sale	0		0	0	-	0	х
Exports for conversion and return	-		0	0	-	1,048	1,048
Imports by producers (including conversion)	•	0	2,699	249	•	0	х

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 to	nnes			
Domestic shipments								
Steel service centres and other wholesalers and warehouses Motor vehicles and parts Railway operating Railroad cars and locomotives Shipbuilding	9 x 0	10,829 0 0	47,212 x	40,312 167	20,643	36,000 184	0 0 0	
Steel fabrication Metal building systems Contractors'products Miscellaneous stamping and coating Natural resources and extractive industries Agricultural equipment	0 0	815 0 0 52 408 0	9,606 0 0 1,691 38 24	12,567 0 1,671 0 40	263,266 261 2,868 7,242 0	326 1,697 3,782 68,067 2,720	0 1,439 0	0
Non electrical machinery Electrical machinery Industrial packaging material Pipes and tubes Wire and wire products Containers and closures Appliances and utensils industries	0	0	x	6	0	51,001 0 0 0 1,773	0 x	
Miscellaneous industries	0	0	•		0	0	-	
Total domestic shipments  Total domestic alloy shipments	x 0	12,104	<b>x</b>	54,763	294,280	229,810 35,415	x x	0
Exports to the United States Exports to other countries (excluding United States)	x x	6,462 0	x 617	35,366 18	0	164,655 172,766	x x	0
Total disposition	x	18,566	99,792	90,147	294,280	567,231	x	0
Total alloy shipments	0					65,026	x	
Producers interchange, for sale	х	-	0			3,710	517	
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 of rolled steel products, by product and industry, year-to-date 2012

	Cold finished bars	Plates <sup>1</sup>	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 Motor vehicles and parts Railway operating Railroad cars and locomotives	x x	127,695 0 0 4,475	1,320,215 221,477 0 0	109,767 57,115	7,841 0	234,713 342,171 0	1,989,878 664,802 184 4,475
Shipbuilding Steel fabrication Metal building systems Contractors'products	x 408	45,335 1,302	x 0 36,036	203 12,728		12,122 12,047 156,956	0 x 12,634 213,434
Miscellaneous stamping and coating Natural resources and extractive industries Agricultural equipment	86 610 251	0 0 2,807	36,697 0 0	21,916 3 0	:	102,037 19 0	167,932 76,387 5,842
Non electrical machinery Electrical machinery Industrial packaging material Pipes and tubes	x 0	1,496 0	7,373 434 395 633,478	7,020 31,086 5,255	0	0 11,498 0 12,083	69,209 18,952 31,481 650,816
Wire and wire products Containers and closures Appliances and utensils industries	x 0		x 227 0	773 2,657 5,662	6,459	458 6,030	9,343 11,692
Miscellaneous industries  Total domestic shipments	1,103 <b>x</b>	0 <b>183,110</b>	0 <b>2,288,057</b>	254,185	14,300	890.134	1,103 <b>4,431,597</b>
Total domestic alloy shipments	1,156	0	_,	0	,		x
Exports (for final sale)							
Exports to the United States Exports to other countries (excluding United States)	x 41	93,805 26,568	x x	116,723 13,757	129,621 4,940	334,776 90,705	2,040,581 511,587
Total disposition	x	303,483	3,037,423	384,665	148,861	1,315,615	6,983,765
Total alloy shipments	4,515	0		0			x
Producers interchange, for sale	0		0	0		0	х
Exports for conversion and return	•		0	0	•	1,106	1,106
Imports by producers (including conversion)		0	19,561	6,208		0	х

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

	July		Year-to-date				
	2011	2012	2011	2012			
	metric tonnes						
Production of pig iron	607,896	652,898	4,259,754	4,514,572			

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

	July		Year-to-date				
	2011	2012	2011	2012			
	metric tonnes						
Pig iron including pre-reduced iron	638,481	680,243	4,492,645	4,656,613			
<b>Scrap</b> Own make Purchased	119,898 435,674	116,532 368,125	806,495 3,329,716	925,284 3,218,497			
Total, pig iron and scrap products	1,194,053	1,164,900	8,628,856	8,800,394			

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		
July				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	423,436	474,107	X	X
Basic oxygen furnace	641,174	659,371	X	х
Steel, primary forms - Total	1,064,610	1,133,478	148,331	181,669
Included in "Steel primary forms total" above Continuous cast steel	1,048,491	1,100,852	136,517	153,900

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 Basic oxygen furnace	3,328,434 4,371,083	3,450,680 4,612,163	x x	x x
Steel, primary forms - Total	7,699,517	8,062,843	1,212,683	1,231,543
Included in "Steel primary forms total" above Continuous cast steel	7,591,355	7,828,793	1,132,159	1,032,547

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

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
_	metric tonnes			
July				
Total, pipe and tubing	180,730	130,967	103,362	234,328
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	1,047 23,805 26,459	1,779 x 4,087	0 x 29,052	1,779 30,776 33,139
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	5,006 x	x x	X X	10,541 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	x 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 2,804 x	x x 638	30 x 6	x x 644
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	8,691 9,656	13,593 3,523	5,421 1,491	19,013 5,014
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)	47,377 7,454	38,164 4,082	27,664 x	65,828 x
Other tubular products	x	1,971	425	2,397

<sup>1.</sup> 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 <sup>1</sup>	Exports	Total shipments
_	metric tonnes			
Total, pipe and tubing	1,394,255	924,777	663,315	1,588,093
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	16,192 x 152,277	15,463 x 8,217	0 x 112,560	15,463 133,015 120,778
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	x x	x x	x x	87,670 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	x 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 17,126 x	x x x	x x 116	x x x
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	73,694 x	104,157 33,310	47,877 13,204	152,031 46,512
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)	376,687 x	264,826 43,818	163,131 x	427,956 x
Other tubular products	x	9,806	4,801	14,606

<sup>1.</sup> 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	
<u> </u>			metric tonnes		
July					
Barbed wire	х	х	x	0	
Uncoated steel wire	17,238	15,960	7,170	8,790	
Galvanized steel wire	6,583	6,036	2,598	3,438	-
Other coated steel wire	Х	X	X	X	
Farm fencing and wire chain link fabric	X	823	X	Х	875
Wire mesh, bright or uncoated and galvanized	3,944	Х	2,456	Х	2,558
Wire rope	Х	Х	Х	Х	Х
Nails and staples	Х	Х	Х	1,594	Х
Wire roofing nails of a length of 25 mm or more, iron or steel	Х	2,460	866	1,594	2,601
Staples of iron or steel	1	Х	Х	0	Х
All other wire products	Х	X	Х	5	х
Grand total	34,909	33,252	17,643	15,609	

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		2011 2012			
		Total shipments	Domestic shipments	Exports			
<u> </u>			metric tonnes				
Barbed wire	x	x	x	x			
Uncoated steel wire	136,370	127,780	57,966	69,814			
Galvanized steel wire	52,142	53,186	23,966	29,220			
Other coated steel wire	Х	Х	X	X			
Farm fencing and wire chain link fabric	Х	5,876	X	X	6,010		
Wire mesh, bright or uncoated and galvanized	30,569	Х	23,574	X	25,379		
Wire rope	Х	Х	X	X	Х		
Nails and staples	Х	Х	X	X	Х		
Wire roofing nails of a length of 25 mm or more, iron or steel	Х	19,482	X	X	18,849		
Staples of iron or steel	4	Х	X	0	Х		
All other wire products	X	X	х	17	x		
Grand total	276,554	274,149	148,888	125,261			

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
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).