Steel, Tubular Products and Steel Wire

March 2013



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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

March 2013

- Monthly production of primary steel and pig iron increased 7.9% in March 2013 to 1,130,870 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 9.7% to 1,040,575 metric tonnes.
- Between February 2013 and March 2013, production of steel pipe and tubing increased 9.0% to 191,401 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 0.5% to 37,362 metric tonnes in March 2013.

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 2013

	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			
March								
Domestic shipments								
Steel service centres and other wholesalers and warehouses Motor vehicles and parts Railway operating Railroad cars and locomotives	0 0 0	4,042 0	6,458 228	3,093 10	1,683 0	7,052 5,463 14	0 0 0	
Shipbuilding Steel fabrication Metal building systems Contractors'products	0 0	233 0 0	587 0 0	X 0	43,385 0 688	363 0 203	0 295	
Miscellaneous stamping and coating Natural resources and extractive industries Agricultural equipment Non electrical machinery Electrical machinery	0	3 0 0 0	323 0 0 1,742	670 0 0 0	1,816 0	10 10,263 392 8,055 0	0 0	0
Industrial packaging material Pipes and tubes Wire and wire products Containers and closures	0				0	0 0 2,035	X	
Appliances and utensils industries Miscellaneous industries	0		•	•	0	0		
Total domestic shipments	0	4,278	9,338	x	47,572	33,850	x	0
Total domestic alloy shipments	0		-			5,207	0	
Exports to the United States Exports to other countries (excluding United States)	x x	3,152 0	5,572 19	5,299 0	0	23,396 23,187	x x	
Total disposition	x	7,430	14,929	x	47,572	80,433	x	0
Total alloy shipments	0					9,347	0	
Producers interchange, for sale	х		0			559	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 2013

	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
			n	netric tonnes			
March							
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	1,635 799 x 0 0 120 43 0 0 x	16,029 60 0 949 5,932 1,076 0 81 222 0 	161,356 34,218 0 0 0 3,195 0 5,080 2,287 0 0 992 183 0 138,662 127 0 0	13,244 7,631 16 1,511 2,554 0 0 642 4,292 784 103 0 84	1,594 0 0 	29,852 53,505 0 1,548 1,307 23,626 14,324 0 0 0,1,547 0 2,139 46 960	246,038 101,914 14 949 0 0 x 1,307 32,479 20,171 12,199 516 11,011 2,372 4,292 141,585 x 979 1,044 176
Total domestic shipments	x	24,349	346,100	30,861	2,573	128,854	659,214
Total domestic alloy shipments	181	0		0	-		5,388
Exports to the United States Exports to other countries (excluding United States)	1,420 21	10,832 221	87,042 8,088	x x	15,503 419	60,550 13,642	294,394 86,967
Total disposition	x	35,402	441,230	52,883	18,495	203,046	1,040,575
Total alloy shipments	794	0		0			10,141
Producers interchange, for sale	0		0	0		0	х
Exports for conversion and return			0	0		102	102
Imports by producers (including conversion)	-	0	1,833	237	•	0	2,070

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 2013

	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 Steel fabrication Metal building systems Contractors'products Miscellaneous stamping and coating	0 0 0 0 0	13,344 0	17,968 977	10,383 73	7,097 0 122,480 0 4,029	23,442 15,416 68	0 0 0 0 700	
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		0 0 0	0 0 4,408	0 0 0	5,868 0 0	32,175 976 25,188 0 0 0 6,122	0 0	0
Total domestic shipments	0	14,153	25,622	x	139,474	105,874	х	0
Total domestic alloy shipments	0		•	•	•	16,100	0	-
Exports to the United States Exports to other countries (excluding United States)	x x	8,891 0	21,153 193	16,429 0	0	67,041 55,316	x x	0
Total disposition	x	23,044	46,968	x	139,474	228,231	x	0
Total alloy shipments	0					28,906	0	
Producers interchange, for sale	x		0			1,413	38	
Exports for conversion and return						0		
Imports by producers (including conversion)	0						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 2013

	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 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	4,712 2,469	41,610 74 0 2,560 15,490 8,948 0 0 965 483	547,887 111,771 0 0 9,624 0 13,766 6,817 0 2,454 323 0 432,157 443 309 0	50,110 24,139	3,623 0 0 3,075	99,271 161,271 0 3,796 4,129 66,396 39,565 1 0 0,4,107 0 7,801 127 3,618	819,447 316,190 68 2,560 0 x 4,129 101,047 57,530 38,360 2,078 32,533 7,726 13,448 442,132 x 3,384 3,740 426
Total domestic shipments	x	70,130	1,125,551	108,000	6,698	390,082	2,078,119
Total domestic alloy shipments	275	0		0			16,375
Exports (for final sale)							
Exports to the United States Exports to other countries (excluding United States)	4,541 21	x x	256,782 24,610	x x	52,369 1,832	192,523 41,084	845,297 171,636
Total disposition	х	106,073	1,406,943	166,117	60,899	623,689	3,095,052
Total alloy shipments	2,046	0		0			30,952
Producers interchange, for sale	0		0	0		0	х
Exports for conversion and return	-		0	0		652	652
Imports by producers (including conversion)		0	2,768	4,238		0	7,006

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

	March		Year-to-date				
	2012	2013	2012	2013			
	metric tonnes						
Production of pig iron	673,477	500,587	1,984,879	1,712,902			

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

	March		Year-to-date	
	2012	2013	2012	2013
		metric tonnes	3	
Pig iron including pre-reduced iron	698,529	483,221	2,057,463	1,414,247
Scrap Own make Purchased	145,278 493,752	337,790 431,553	423,871 1,431,804	971,526 1,228,640
Total, pig iron and scrap products	1,337,559	1,252,564	3,913,138	3,614,413

Table 1-5 Steel primary forms and pig iron — Production and shipments of steel, primary forms, monthly

	Production		Shipments	
	2012	2013	2012	2013
		metric tonnes		
March				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	511,525	482,600	x	х
Basic oxygen furnace	697,426	648,270	x	Х
Steel, primary forms - Total	1,208,951	1,130,870	176,253	189,956
Included in "Steel primary forms total" above Continuous cast steel	1,174,802	1,100,751	146,121	163,507

Table 1-6 Steel primary forms and pig iron — Production and shipments of steel, primary forms, year-to-date

	Production		Shipments	
	2012	2013	2012	2013
	metric tonnes			
Steel, primary forms (carbon and alloy including continuous cast steel) Electric furnace Basic oxygen furnace	1,486,043 2,055,902	1,360,619 1,913,876	x x	x x
Steel, primary forms - Total	3,541,945	3,274,495	536,495	529,128
Included in "Steel primary forms total" above Continuous cast steel	3,443,033	3,175,153	451,899	446,805

Table 2-1
Steel pipe and tubing — Production and shipments, monthly 2013

	Production	Shipments for sale		
	_	Domestic shipments ¹	Exports	Total shipments
_	metric tonnes			
March				
Total, pipe and tubing	191,401	97,775	90,672	188,449
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	855 3,419 45,174	959 x 319	0 x 25,014	959 6,035 25,332
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	x x	x x	x x	x 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 2,273 x	x x 1,605	31 x 30	x x 1,635
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	24,397 6,994	10,508 4,563	6,949 1,855	17,457 6,418
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	22,196 x	14,098 x	36,294 x
Other tubular products	x	1,577	477	2,053

^{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 2013

	Production	Shipments for sale		
	_	Domestic shipments ¹	Exports	Total shipments
_	metric tonnes			
Total, pipe and tubing	552,735	339,667	265,455	605,125
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	3,630	0	3,630
	23,047	x	x	26,168
	103,840	9,402	71,463	80,863
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	x	x	x	x
	x	x	x	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	x	x	x
	x	x	x	x
	x	3,489	88	3,577
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	64,353	31,354	19,869	51,222
	19,459	14,189	5,632	19,821
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	96,644	38,304	134,949
	x	x	x	x
Other tubular products	x	4,579	1,465	6,044

^{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		
_	2012	2013		2013		
		Total shipments	Domestic shipments	Exports		
<u> </u>			metric tonnes			
March						
Barbed wire	х	х	x	0		
Uncoated steel wire	19,861	17,932	8,022	9,910		
Galvanized steel wire	8,130	7,793	3,629	4,164		
Other coated steel wire	X	X	X	0		
Farm fencing and wire chain link fabric	1,087	684	X 2.407	X	405	
Wire mesh, bright or uncoated and galvanized Wire rope	X X	X X	2,497	X X	2,761 x	
Nails and staples	X	X	990	X	X	
Wire roofing nails of a length of 25 mm or more, iron or steel	3,226	2,532	X	X	2,277	
Staples of iron or steel	X	2,002 X	X	Ô	_, x	
All other wire products	x	1,215	1,210	5	1,135	
Grand total	42,794	37,362	19,946	17,416		

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		
_	2012	12 2013		2012 2013			
		Total shipments	Domestic shipments	Exports			
			metric tonnes				
Barbed wire	х	x	х	0			
Uncoated steel wire	57,432	53,360	23,444	29,916			
Galvanized steel wire	24,802	22,336	9,227	13,109			
Other coated steel wire	Х	Х	X	X			
Farm fencing and wire chain link fabric	2,371	1,667	X	X	1,578		
Wire mesh, bright or uncoated and galvanized	Х	Х	8,078	X	8,788		
Wire rope	х	Х	X	X	х		
Nails and staples	х	Х	2,612	X	х		
Wire roofing nails of a length of 25 mm or more, iron or steel	8,797	6,821	X	X	5,996		
Staples of iron or steel	Х	Х	X	0	х		
All other wire products	х	X	х	13	3,781		
Grand total	121,923	110,198	57,704	52,494			

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*).