Steel, Tubular Products and Steel Wire

November 2009



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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

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Highlights

November 2009

- Monthly production of primary steel and pig iron increased 19.9 % in November 2009 to 1,039,707 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 1.7 % to 728,757 metric tonnes.
- Between October 2009 and November 2009, production of steel pipe and tubing increased 3.7 % to 145,235 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 11.3 % to 30,649 metric tonnes in November 2009.

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 2009

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			
November								
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	0 109 0	1,089 0 181 192 0 0 0 138 0 0	4,120 55 1,063 0 0 218 0 0 1,482	3,054 6	5,380 0 49,490 110 334 1,013 0 	5,322 4,487 0 x 0 152 182 10,720 307 7,178 0 0 0 x	0 0 0 .0 .184 	0
Total domestic shipments	109	1.600	6,938	5.942	56,327	29.077	Х	
Total domestic alloy shipments	0	.,,,,,,				5,024	x	
81 Exports to the United States 82 Exports to other countries (excluding United States)	x 12,271	336 0	1,936 0	1,970 0	110 0	14,652 15,336	x x	0
Total disposition	x	1,936	8,874	7,912	56,437	59,065	x	0
Total alloy shipments	0					7,936	0	-
Producers interchange, for sale	x		0			404	122	
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 ¹ of rolled steel products, by product, monthly 2009

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			
November							
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	1,515 1,196	12,357 0 0 190	131,785 21,543 0 3,558	16,048 6,622	898 0	25,539 30,517	207,107 64,535 0 371 0 62,192
32 Metal building systems 33 Contractors products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries 51 Agricultural equipment	x x 60 27	0 0 0 0 76	0 6,134 2,237 0 0	x x 0 0		1,955 17,471 13,067 1	2,065 26,312 x 11,932 410
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 0 x 0	148	135 71 0 72,359 194 0	0 1,145 2,752 601 34 540 3,508	4,119	0 1,533 0 1,563 99	8,943 2,749 2,752 74,523 x 4,659 5,566 36
Total domestic shipments	30 X	14,363	238,016	36,892	5,017	96,768	514,954
Total domestic alloy shipments	286	0		0			x
81 Exports to the United States 82 Exports to other countries (excluding United States)	1,034 0	4,513 288	x x	13,054 1,001	9,794 850	35,267 7,240	165,575 48,228
Total disposition	x	19,164	304,109	50,947	15,661	139,275	728,757
Total alloy shipments	286	0		0			8,222
Producers interchange, for sale	0		0	0		0	х
Exports for conversion and return			0	0		0	0
Imports by producers (including conversion)	-	26	0	2,386	·	0	2,412

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

^{2.} 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 2009

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	16 991 	16,125 17 1,001	46,027 744	41,930 96	43,969	46,615 60	720 194 	
24 Shipbuilding 31 Steel fabrication 32 Metal building systems	 	3,839 4	12,532 21	27,176	446,632 466	x 210		
33 Contractors'products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries 51 Agricultural equipment		 954 	1,661 90 	1,200 41	4,373 8,122 	x x x 2,533	x 	65
52 Non electrical machinery 53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes			19,617	30	•	60,593 		
62 Wire and wire products 63 Containers and closures 64 Appliances and utensils industries	12,701				339	 x	X	
70 Miscellaneous industries	2,451				••	862		
Total domestic shipments	16,159	21,940	80,692	70,473	503,901	336,320	x	65
Total domestic alloy shipments						42,323	x	
81 Exports to the United States 82 Exports to other countries (excluding United States)	X X	7,931 	23,938 534	31,495 21	1,195 	x x	x x	
Total disposition	x	29,871	105,164	101,989	505,096	600,868	x	65
Total alloy shipments						64,730		
Producers interchange, for sale	x					х	х	
Exports for conversion and return								
Imports by producers (including conversion)	х							

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 2009

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	X 10,184	147,284 797	1,123,068 203,221	210,250 49,634	15,038 	288,869 250,898	2,034,901 562,594 60 1,798
24 Shipbuilding 31 Steel fabrication 32 Metal building systems 33 Contractors products	X X	39,820 244	42,107 584 49,998	86 x		29,442 21,388 218,749	608,187 22,673 296,679
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	x 347 547 59	26 1,636 899	x 23 1,648 291 3,381 723,984	x 9,840 33,733 10,514	- - - - - -	x 5 13,363 15,978	4,822 82,787 23,494 37,114 750,535
62 Wire and wire products 63 Containers and closures 64 Appliances and utensils industries 70 Miscellaneous industries	x 693	34	x 49	1,667 41,857	52,383	22,337	54,099 64,194 4,040
Total domestic shipments	x	190,740	2,169,419	414,492	67,421	1,032,328	5,099,556
Total domestic alloy shipments	2,321						x
Exports ² (for final sale)							
81 Exports to the United States 82 Exports to other countries (excluding United States)	x 	58,784 6,810	X X		140,544 x	276,902 79,558	1,823,327 739,179
Total disposition	x	256,334	х	570,264	x	1,388,788	7,662,062
Total alloy shipments	2,417						67,147
Producers interchange, for sale			х				х
Exports for conversion and return ²							
Imports by producers (including conversion)	•	466	2,733	17,205	•		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

	November		Year-to-date			
	2008 2009		2008	2009		
_		metric tonnes				
Production of pig iron	352,116	581,520	8,358,914	x		

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

	November		Year-to-date	
	2008	2009	2008	2009
		metric tonne	S	
Pig iron including pre-reduced iron	320,815	602,888	8,124,546	x
Scrap Own make Purchased	96,328 288,245	111,906 446,571	1,403,630 6,028,123	1,122,832 3,520,110
Total, pig iron and scrap products	705,388	1,161,365	15,556,299	9,384,681

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

	Production		Shipments	
	2008	2009	2008	2009
	metric tonnes			
November				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace Basic oxygen furnace	289,806 326,741	459,207 580,500	x x	X X
Steel, primary forms - Total	616,547	1,039,707	83,223	269,764
Included in "Steel primary forms total" above Continuous cast steel	603,767	1,029,504	73,986	260,297

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

	Production		Shipments	
	2008	2009	2008	2009
	metric tonnes			
Steel, primary forms (carbon and alloy including continuous cast steel) Electric furnace Basic oxygen furnace	5,688,725 8,544,517	x x	x x	x x
Steel, primary forms - Total	14,233,242	8,325,905	2,445,398	x
Included in "Steel primary forms total" above Continuous cast steel	14,097,977	8,089,374	2,298,167	х

Table 2-1
Steel pipe and tubing — Production and shipments, monthly 2009

	Production	Ship	Shipments for sale	
		Domestic shipments ¹	Exports	Total shipments
<u> </u>		metric tonne	es	
November				
Total, pipe and tubing	145,235	80,604	46,711	127,315
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 14,556 27,573	265 x 14,412	0 x 0	265 x 14,412
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	10,667 32,999	11,284 11,604	6,084 19,964	17,368 31,568
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	237 256	314 540	283 82	597 622
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 74 1,863	12 72 66	x 23 9	x 95 75
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	11,499 9,166	x 4,605	x 2,128	12,524 6,733
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)	32,009 2,906	23,583 2,595	10,478 1,699	34,061 4,294
Other tubular products	x	1,037	894	1,931

^{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 2009

	Production	Ship	ments for sale	
		Domestic shipments ¹	Exports	Total shipments
_		metric tonn	es	
Year-to-date				
Total, pipe and tubing	1,470,415	808,689	595,576	1,404,265
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 96,734 320,781	x x x	 x x	X X X
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	126,488 344,753	137,805 106,382	69,652 201,225	207,457 308,607
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	28,167 14,538	13,166 12,701	17,440 2,777	30,606 15,478
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 15,512	x x x	x x x	x 3,258 1,303
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	105,585 80,304	x x	X X	126,036 64,092
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)	256,371 29,793	195,251 24,075	55,816 	251,067 29,926
Other tubular products	x	10,771	8,303	19,074

^{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	
	2008 2009			_	
		Total shipments	Domestic shipments	Exports	
			metric tonnes		
November					
Barbed wire	x	x	x	x	
Uncoated steel wire	10,902	14,715	7,791	6,924	
Galvanized steel wire	9,449	5,958	Х	X	
Other coated steel wire	X	Х	Х	0	
Farm fencing and wire chain link fabric	2,542	623	X	Х	645
Wire mesh, bright or uncoated and galvanized	3,014	3,170	X	Х	3,390
Wire rope	4,498	X	X	Х	Х
Nails and staples	Х	1,859	959	900	Х
Wire roofing nails of a length of 25 mm or more, iron or steel	676	X	Х	Х	1,373
Staples of iron or steel	Х	Х	Х	Х	х
All other wire products	х	х	X	1	х
Grand total	35,869	30,649	17,390	13,259	

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

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

	Shipments				Production
_	2008 2009		2008 2009		
		Total shipments	Domestic shipments	Exports	
_			metric tonnes		
Barbed wire	x	x	x	x	
Uncoated steel wire	183,659	151,693	83,980	67,713	
Galvanized steel wire	141,348	87,706	X	Х	
Other coated steel wire	Х	X	X	Х	
Farm fencing and wire chain link fabric	Х	Х	X	Х	Х
Wire mesh, bright or uncoated and galvanized	56,581	38,132	X	Х	37,831
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	17,947	Х	X	Х	Х
Staples of iron or steel	Х	Х	X	Х	Х
All other wire products	X	х	х		х
Grand total	536,021	395,496	236,757	158,739	

^{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).