Steel, Tubular Products and Steel Wire



April 2009



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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

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Highlights

April 2009

- Monthly production of primary steel and pig iron decreased 18.6% in April 2009 to 600,520 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 24.7% to 572,566 metric tonnes.
- Between March 2009 and April 2009, production of steel pipe and tubing decreased 37.5% to 114,574 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 4.1% to 36,547 metric tonnes in April 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			
- April								
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	2 30 0 0	1,398 17 0 311 0 0 73 0 0	4,693 99	4,629 10	4,113 0 28,096 244 325 1,150 0 208	2,472 0 x 0 x 10,867 385 5,030 0 0 0 x	132 0 0 0 0 0	
Total domestic shipments	279	1,799	7,538	7,057	34,136	31,023	X	
Total domestic alloy shipments	0					3,006	0	
81 Exports to the United States 82 Exports to other countries (excluding United States)	12,517 x	835 0	1,969 21	3,340 0	114 0	x x	x x	. 0
Total disposition	33,976	2,634	9,528	10,397	34,250	47,619	x	0
Total alloy shipments	0					4,386	0	-
Producers interchange, for sale	х	•	0	•		272	151	
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			
April							
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 826 x x 13 74 0 0 0	12,590 0 0 0 2,350 0 0 0 0	59,629 17,396 0 2,767 0 3,358 739 0 0 92 53 266 55,588 273 0	18,942 4,693 12 1,562 2,956 0 0 1,109 2,202 1,218 34 218 4,874	1,678 0 0 	28,618 22,343 2,541 1,488 17,762 14,725 0 1,138 0 1,621 71	147,402 47,886 0 0 39,923 1,732 23,401 19,660 12,122 469 7,019 2,300 2,468 58,427 12,584 6,540 6,770
70 Miscellaneous industries	28	0	0				275
Total domestic shipments	x	14,940	140,161	37,820	8,000	92,203	388,978
Total domestic alloy shipments	248	0		0			3,254
81 Exports to the United States 82 Exports to other countries (excluding United States)	641 0	4,106 42	43,191 13,438	6,811 1,834	12,525 435	18,102 10,618	127,415 56,173
Total disposition	x	19,088	196,790	46,465	20,960	120,923	572,566
Total alloy shipments	248	0		0			4,634
Producers interchange, for sale	0		0	0		0	х
Exports for conversion and return			0	0		0	0
Imports by producers (including conversion)		0	26	245		0	271

^{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	4 209 	6,171 17	12,966 322	15,221 44	9,612 	x 16,310 	689 194	
23 Railroad cars and locomotives 24 Shipbuilding		361	•			•		
31 Steel fabrication 32 Metal building systems		918 4	6,116 21	11,175	125,977 244	x 133	 	•
33 Contractors'products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries		 415	903 56	846	1,057 3,515	x x 46.475	35	
51 Agricultural equipment 52 Non electrical machinery			8,018	19 14		1,483 22,819		
53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes								
62 Wire and wire products 63 Containers and closures	12,701				339	 X	x	
64 Appliances and utensils industries 70 Miscellaneous industries	2,451					862		
Total domestic shipments	15,365	7,886	28,402	27,319	140,744	136,541	x	0
Total domestic alloy shipments						17,705	-	
81 Exports to the United States 82 Exports to other countries (excluding United States)	x x	3,912	10,051 228	14,176 21	345	X X	X X	
Total disposition	x	11,798	38,681	41,516	141,089	227,706	x	0
Total alloy shipments						26,809		
Producers interchange, for sale	x		••	•	•	х	х	·
Exports for conversion and return								
Imports by producers (including conversion)								

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
			ı	metric tonnes			
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating	3,206	56,212	445,742 83,237	100,276 16,355	4,361 	116,319 93,128	811,549 213,022 551
23 Railroad cars and locomotives 24 Shipbuilding 31 Steel fabrication	X	190 17,025	 14,150	86		10,295	188,532
32 Metal building systems 33 Contractors products 34 Miscellaneous stamping and coating	X X	102 	493 15,899 x	6,888 13,185		6,017 66,132 49,988	6,912 91,180 73,208
41 Natural resources and extractive industries 51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery	80 289 	306 192	3 471 53	 3,146		1 3,768	50,545 2,097 31,514 6,967
54 Industrial packaging material 61 Pipes and tubes 62 Wire and wire products 63 Containers and closures	55 x		3,172 335,834 x 49	8,523 5,091 84 965		7,643 227	11,695 348,623 73,448 21,470
64 Appliances and utensils industries 70 Miscellaneous industries	376	34		16,429		8,214	24,643 3,723
Total domestic shipments	x	74,061	907,432	171,028	24,817	361,732	1,959,679
Total domestic alloy shipments	582						18,287
Exports ² (for final sale)							
81 Exports to the United States 82 Exports to other countries (excluding United States)	x 	25,435 1,728	346,221 48,901	56,098 6,126	46,281 x	94,651 33,046	733,900 166,095
Total disposition	x	101,224	1,302,554	233,252	x	489,429	2,859,674
Total alloy shipments	746						27,555
Producers interchange, for sale			х				х
Exports for conversion and return ²							
Imports by producers (including conversion)			931	3,098			4,029

^{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

	April		Year-to-date				
	2008	2009	2008				
		metric tonnes					
Production of pig iron	856,387	349,270	3,317,289	1,752,571			

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

	April		Year-to-date	
	2008	2009	2008	2009
	metric tonnes			
Pig iron including pre-reduced iron	817,751	313,907	3,234,710	1,728,157
Scrap Own make Purchased	125,239 618,588	86,541 267,659	535,939 2,395,991	430,674 1,125,947
Total, pig iron and scrap products	1,561,578	668,107	6,166,640	3,284,778

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				
April					
Steel, primary forms (carbon and alloy including continuous cast steel)					
Electric furnace	540,723	249,804	x	19,701	
Basic oxygen furnace	867,764	350,716	X	Х	
Steel, primary forms - Total	1,408,487	600,520	260,597	x	
Included in "Steel primary forms total" above Continuous cast steel	1,396,047	588,601	249,019	x	

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	2,208,382 3,394,180	1,088,513 1,861,032	x x	x x	
Steel, primary forms - Total	5,602,562	2,949,545	974,975	x	
Included in "Steel primary forms total" above Continuous cast steel	5,548,996	2,913,027	923,498	х	

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

	Production	Ship	ments for sale	
		Domestic shipments ¹	Exports	Total shipments
_		metric tonne	es	
April				
Total, pipe and tubing	114,574	54,258	71,458	125,716
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 7,612 35,232	76 3,325 2,650	0 0 38,758	76 3,325 41,408
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	12,070 24,594	13,926 7,127	6,514 16,725	20,440 24,852
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	1,915 2,240	1,147 1,684	1,564 154	2,711 1,838
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 696 1,776	479 320 110	x 61 155	612 381 265
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	9,684 8,078	8,439 3,884	3,888 1,387	12,327 5,271
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)	4,623 5,406	8,543 522	1,476 323	10,019 845
Other tubular products	x	1,026	320	1,346

^{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 tonnes			
Year-to-date				
Total, pipe and tubing	633,906	383,226	211,595	594,821
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 43,290 142,706	481 x 76,621	313 x 61,533	794 x 138,154
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	44,708 113,733	47,885 37,557	25,833 73,692	73,718 112,249
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	9,948 3,659	5,720 2,842	5,693 1,021	11,413 3,863
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 5,663	x 1,984 407	x 397 291	x 2,381 698
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	x 29,866	29,302 x	15,718 x	45,020 20,780
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)	143,210 20,658	115,184 10,136	18,786 	133,970 11,105
Other tubular products	х	3,390	1,131	4,521

^{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		
April					
Barbed wire	х	x	х	х	
Uncoated steel wire	21,837	13,469	8,176	5,293	
Galvanized steel wire	15,556	8,071	2,988	5,083	
Other coated steel wire	X	X	Х	Х	
Farm fencing and wire chain link fabric	2,565	2,476	Х	Х	2,399
Wire mesh, bright or uncoated and galvanized	8,008	4,072	Х	X	3,736
Wire rope	4,413	3,114	Х	X	3,113
Nails and staples	Х	Х	Х	X	X
Wire roofing nails of a length of 25 mm or more, iron or steel	1,814	910	399	511	385
Staples of iron or steel	Х	X	X	Х	Х
All other wire products	Х	1,019	1,015	4	1,159
Grand total	60,723	36,547	22,490	14,057	

^{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		2009		
		Total shipments	Domestic shipments	Exports	
<u> </u>			metric tonnes		
Barbed wire Uncoated steel wire Galvanized steel wire	x 79,060 57,883	x 49,341 37,440	x 27,196 14,224	x 22,145 23,216	
Other coated steel wire Farm fencing and wire chain link fabric	X X	X	X X	X X	X
Wire mesh, bright or uncoated and galvanized Wire rope	22,214 x	12,102 x	X X	X X	11,576 x
Nails and staples Wire roofing nails of a length of 25 mm or more, iron or steel	7,802	3,216	x 1,528	x 1,688	x x
Staples of iron or steel All other wire products	X X	X X	X X	х 	X X
Grand total	217,687	147,049	87,452	59,597	

^{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).