Steel, Tubular Products and Steel Wire

December 2008



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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

December 2008

- Between November 2008 and December 2008 production of primary steel and pig iron decreased 0.8% to 611,875 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 16.6% to 690,955 metric
 tonnes.
- Between November 2008 and December 2008, production of steel pipe and tubing decreased 15.3% to 172,486 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 20.6% to 28,497 metric tonnes in December 2008.

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 2008

SDC No.	Steel primary forms	Rails and heavy structural sections	Intermediate structural sections	Light structural sections	Concrete reinforcing bars	Other hot rolled bars	Wire rods	Railway track material
				metric to	nnes			
December								
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating 23 Railroad cars and locomotives 24 Shipbuilding 31 Steel fabrication 32 Metal building systems 33 Contractors'products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries 51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes 62 Wire and wire products 63 Containers and closures 64 Appliances and utensils industries 70 Miscellaneous industries	0 145 0	1,034 169 198 0 0 0 	2,998 51 3,437 0 144 0 2,309 	2,311 0 623 149 0 0 0	511 0 30,357 0 73 751 0	6,082 5,010 43	28 0 0 0 0 x	
Total domestic shipments	541	1,401	8,939	3,083	31,692	34,039	x	0
Total domestic alloy shipments	0					6,068	0	
81 Exports to the United States 82 Exports to other countries (excluding United States)	x 0	971 0	3,154 x	2,614	0	18,862 10,759	x x	Ö
Total disposition	x	2,372	x	5,697	31,692	63,660	x	0
Total alloy shipments	0					10,377	0	
Producers interchange, for sale	x		0			695	76	
Exports for conversion and return						0		
Imports by producers (including conversion)	0						0	

See footnotes 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 2008

SDC No.	Cold finished bars	Plates ²	Hot rolled sheets and coils	Cold reduced sheets and strip and other cold rolled and coated	Tin plate and tin free steel (T.F.S.)	Galvanized sheets including galvalume	Total, rolled steel products
			n	netric tonnes			
December							
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating 23 Railroad cars and locomotives 24 Shipbuilding 31 Steel fabrication 32 Metal building systems 33 Contractors'products 34 Miscellaneous stamping and coating	1,516 745 x	16,476 0 0 168 3,310	86,822 33,247 0 1,438 49 2,378 689	15,813 5,041 0	1,184 0	21,238 21,416 	156,013 65,655 43 337 0 43,180 1,213 23,378 13,870
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	83 x 0 . x	0 5 128 0	000 0 0 120 135 119,166 3,277 307	2,344 0 0 0 681 3,089 2,087 0 69 3,092	5,566	1,998	14,307 609 8,311 2,608 3,224 122,444 12,132 5,942 5,090 400
Total domestic shipments	x	20,104	247,628	33,907	6,750	80,010	478,756
Total domestic alloy shipments	66	0		0		-	6,134
81 Exports to the United States 82 Exports to other countries (excluding United States)	x 0	5,103 4,238	81,013 6,972	9,099 1,397	13,952 x	21,634 4,339	183,970 28,229
Total disposition	x	29,445	335,613	44,403	х	105,983	690,955
Total alloy shipments	66	0		0			10,443
Producers interchange, for sale	0	•	64	0		0	Х
Exports for conversion and return	•	•	0	0		0	0
Imports by producers (including conversion)		309	696	5,275	•	0	6,280

^{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 2008

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	х	х	90,102	х	58,864	234,403	4,269	
21 Motor vehicles and parts	2,544		132	3		X	477	
22 Railway operating 23 Railroad cars and locomotives	0	X	•	-	21	43	0	
24 Shipbuilding	0	^				•		
31 Steel fabrication	0	x	28,225	38,691	507,177	X	1	
32 Metal building systems		44	2		0	78		
33 Contractors'products	. 0	0 31	0	.:	х	X	Х	
34 Miscellaneous stamping and coating 41 Natural resources and extractive industries	U	31	5,000 371	x 65	X	X X	0	
51 Agricultural equipment		21	85	90	ô	x		
52 Non electrical machinery		22	4,144	29		X	0	
53 Electrical machinery		-				0		
54 Industrial packaging material						0		
61 Pipes and tubes 62 Wire and wire products	746			•	0	0		
63 Containers and closures	740	-	•	•	U	Х	Х	•
64 Appliances and utensils industries								
70 Miscellaneous industries		0			0	х		
Total domestic shipments	x	x	128,059	120,254	x	716,816	х	0
Total domestic alloy shipments	0					x	0	
81 Exports to the United States	x	Х	122,989	87,098	39	х	х	:
82 Exports to other countries (excluding United States)	Х	868	х	•	64	Х	Х	0
Total disposition	x	x	x	207,352	x	1,234,493	x	0
Total alloy shipments	0				•	x	0	•
Producers interchange, for sale	х	÷	0		•	10,030	445	•
Exports for conversion and return						0		
Imports by producers (including conversion)	х						х	

See footnotes 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 2008

SDC No.	Cold finished bars	Plates ²	Hot rolled sheets and coils	Cold reduced sheets and strip and other cold rolled and coated	Tin plate and tin free steel (T.F.S.)	Galvanized sheets including galvalume	Total, rolled steel products
				metric tonnes			
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating 23 Railroad cars and locomotives 24 Shipbuilding 31 Steel fabrication 32 Metal building systems 33 Contractors products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries 51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes 62 Wire and wire products 63 Containers and closures 64 Appliances and utensils industries 70 Miscellaneous industries	x x x	x 0 0 x x x x x x x x	1,675,355 487,795 . 0 	69,486	12,309 0 47 85,546	x x x x x 293 55 15,195 0 x x	1,265,898 64
Total domestic shipments	x	x	4,259,618	x	97,902	x	9,178,703
Total domestic alloy shipments	3,121	0		0			x
Exports ² (for final sale)							
81 Exports to the United States 82 Exports to other countries (excluding United States)	x 14	x x	x x		x x		4,652,097 1,095,167
Total disposition	x	x	6,319,459	x	x	х	14,925,967
Total alloy shipments	3,298	0		0			x
Producers interchange, for sale	0		х	х	•	5	х
Exports for conversion and return ²			0	0		0	0
Imports by producers (including conversion)		х	х	х		0	181,045

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

Table 1-3
Steel primary forms and pig iron — Production of pig iron

	December		Year-to-date			
	2007	2007 2008		2008		
		metric tonnes				
Production of pig iron	742,857	411,320	8,579,122	8,770,234		

Effective January 2000, producers have changed the way they report hot rolled products. The result is a change in definitions. Plates including plates for pipes and tubes becomes plates. Hot rolled sheet and strip becomes hot rolled sheets and coils and now includes all hot rolled flat products in coils, regardless of thickness.

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

	December		Year-to-date		
	2007	2008	2007	2008	
	metric tonnes				
Pig iron including pre-reduced iron	740,864	374,875	8,928,370	8,499,421	
Scrap Own make Purchased	160,560 483,825	84,633 219,855	1,899,209 6,300,329	1,488,263 6,247,978	
Total, pig iron and scrap products	1,385,249	679,363	17,127,908	16,235,662	

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

	Production		Shipments		
	2007	2008	2007	2008	
	metric tonnes				
December					
Steel, primary forms (carbon and alloy including continuous cast steel)					
Electric furnace	506,067	193,586	x	X	
Basic oxygen furnace	749,882	418,289	x	Х	
Steel, primary forms - Total	1,255,949	611,875	215,618	59,637	
Included in "Steel primary forms total" above Continuous cast steel	1,249,649	604,323	211,207	х	

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

	Production		Shipments		
	2007	2008	2007	2008	
	metric tonnes				
Steel, primary forms (carbon and alloy including continuous cast steel) Electric furnace Basic oxygen furnace	6,404,038 9,167,514	5,882,311 8,962,806	x x	x x	
Steel, primary forms - Total	15,571,552	14,845,117	1,843,688	2,505,035	
Included in "Steel primary forms total" above Continuous cast steel	15,396,278	14,702,300	1,758,124	x	

Table 2-1
Steel pipe and tubing — Production and shipments, monthly 2008

	Production	Ship	ments for sale	
		Domestic shipments ¹	Exports	Total shipments
_		metric tonne	es	
December				
Total, pipe and tubing	172,486	150,343	49,797	200,140
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 15,422 40,769	2,869 15,119 44,765	0 2,019 4,653	2,869 17,138 49,418
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	9,742 26,326	9,380 10,559	6,696 17,531	16,076 28,090
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	1,362 86	1,127 50	1,122 209	2,249 259
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	740 x 709	61 802 107	46 22 0	107 824 107
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	6,925 5,398	5,893 2,555	2,760 1,098	8,653 3,653
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)	44,976 15,010	49,294 7,400	9,718 3,646	59,012 11,046
Other tubular products	115	362	277	639

^{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 2008

	Production	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
_		metric toni	nes	
Year-to-date				
Total, pipe and tubing	2,537,794	1,551,243	1,117,792	2,669,035
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 88,612 511,265	37,555 104,150 269,056	2,257 11,523 229,498	39,812 115,673 498,554
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	238,587 573,827	146,880 187,621	130,528 377,542	277,408 565,163
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	57,863 13,924	22,993 x	36,665 x	59,658 16,707
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	20,495 x x	x x x	x x x	14,933 11,020 4,469
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	198,814 106,151	137,906 45,664	61,224 30,918	199,130 76,582
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)	536,532 121,975	X X	X X	650,232 113,399
Other tubular products	x	18,671	7,624	26,295

^{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	
	2007 2008				
		Total shipments	Domestic shipments	Exports	
			metric tonnes		
December					
Barbed wire	x	х	х	x	
Uncoated steel wire	12,302	7,888	3,741	4,147	
Galvanized steel wire	9,691	7,718	2,818	4,900	
Other coated steel wire	X	Х	Х	0	
Farm fencing and wire chain link fabric	480	X	Х	0	X
Wire mesh, bright or uncoated and galvanized	4,027	2,930	Х	Х	2,691
Wire rope	X	4,209	Х	Х	Х
Nails and staples	Х	Х	X	644	Х
Wire roofing nails of a length of 25 mm or more, iron or steel	1,149	355	203	152	194
Staples of iron or steel	X	Х	X	Х	Х
All other wire products	х	х	х	0	х
Grand total	33,167	28,497	16,672	11,825	

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

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

	Shipments				Production
_	2007	2008			
		Total shipments	Domestic shipments	Exports	
<u> </u>			metric tonnes		
Barbed wire Uncoated steel wire Galvanized steel wire	x 206,189 154,341	x 191,547 149,066	x 101,320 58,730	x 90,227 90,336	
Other coated steel wire Farm fencing and wire chain link fabric Wire mesh, bright or uncoated and galvanized	x x 55,958	x x 59,511	X X	X X	x 60,945
Wire rope Nails and staples	X	X	х х х	X X X	X X
Wire roofing nails of a length of 25 mm or more, iron or steel Staples of iron or steel All other wire products	49,367 x x	18,302 x x	6,723 x x	11,579 x 51	15,250 x x
Grand total	544,460	564,518	327,772	236,746	

^{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.

More detailed information is available from the Annual Survey of Manufactures and Logging, CANSIM Table 301-0003. Specific enquiries should be directed to: The Marketing and Dissemination Section, Manufacturing, Construction and Energy Division, Statistics Canada, Ottawa, Ontario, K1A OT6 (Telephone: 1-866-873-8789 or (613) 951-9497; Fax: (613) 951-9499; Internet: manufact@statcan.gc.ca).