Steel, Tubular Products and Steel Wire



August 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

August 2009

- Monthly production of primary steel and pig iron increased 24.5% in August 2009 to 733,067 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 17.8% to 735,473 metric tonnes.
- Between July 2009 and August 2009, production of steel pipe and tubing increased 14.6% to 109,914 metric tonnes.
- Total shipments of steel wire and specified wire products increased 4.2% to 34,884 metric tonnes in August 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			
August								
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	5 174 0 0	1,258 0 141 397 0 0 0 40 0	3,088 54 494 0 0 0 0 1,907	2,156 15 2,111 0 0 16	3,962 0 52,111 0 521 326 0 0	x 3,901 24	0 0 0 0 0 x	65
Total domestic shipments	179	1,836	5,543	4,298	56,920	26,377	x	65
Total domestic alloy shipments	0					3,681	0	
81 Exports to the United States 82 Exports to other countries (excluding United States)	0 20,995	761 0	1,426 0	2,122 0	63 0	10,827 10,643	x x	
Total disposition	21,174	2,597	6,969	6,420	56,983	47,847	x	65
Total alloy shipments	0					5,627	0	
Producers interchange, for sale	0	•	0		•	751	210	•
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			
August							
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 1,071 x x 44 0 0 0 x	16,280 0 0 118 3,987 0 0 3 0 0	117,879 18,340	13,880 5,283 0 0 x x 0 0 0 686 2,816 241 x 0 3,164	1,157 0 0 2,800	27,432 23,515 3,180 2,652 25,392 16,518 1,407 0 1,407 0 1,274 133	193,677 52,353 24 259 0 87,722 2,652 30,187 22,945 10,086 154 7,396 2,110 2,926 58,829 14,936 2,800 4,882
Total domestic shipments	x	20,388	202,797	31,940	3,957	103,222	493,955
Total domestic alloy shipments	262	0		0			3,943
81 Exports to the United States 82 Exports to other countries (excluding United States)	616 0	5,243 0	x x	9,714 718	14,488 397	23,840 6,598	169,870 71,648
Total disposition	x	25,631	317,535	42,372	18,842	133,660	735,473
Total alloy shipments	240	0		0			5,867
Producers interchange, for sale	0		0	0		0	961
Exports for conversion and return			0	0		0	0
Imports by producers (including conversion)	•	0	691	484	÷	0	1,175

^{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	10 701	12,188 17	32,432 563	31,786 69	29,051	x 31,616 60	698 194	
23 Railroad cars and locomotives		530						
24 Shipbuilding 31 Steel fabrication 32 Metal building systems		2,379 4	9,833 21	18,812	274,503 244	210		
33 Contractors'products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries		 698	1,384 78	1,000	3,589 5,633	х х х		
51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery			14,370	41 30		2,063 41,422 		65
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	15,863	15,816	58,681	51,738	313,359	244,893	x	65
Total domestic alloy shipments						29,290		
81 Exports to the United States 82 Exports to other countries (excluding United States)	X X	6,770 	17,678 428	24,751 21	1,034	x x	x x	
Total disposition	x	22,586	76,787	76,510	314,393	416,820	x	65
Total alloy shipments						44,040		
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
			1	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	6,599	110,107 335	753,974 137,594	153,379 31,130	11,022 	206,988 161,246	1,420,186 369,729 60 865
31 Steel fabrication 32 Metal building systems 33 Contractors products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries	x x x 238	30,070 244 3	27,918 493 30,170 x 23	86 x x	:	20,498 14,277 157,400 x 3	409,386 15,249 206,507 162,031
51 Agricultural equipment 52 Non electrical machinery 53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes 62 Wire and wire products	418 	804 417	 899 170 3,361 519,412	5,460 20,299 7,649 x		8,611 12,073 x	3,391 57,138 14,241 23,660 539,193
63 Containers and closures 64 Appliances and utensils industries 70 Miscellaneous industries	479	34	49	981 30,564	39,869	16,076	40,899 46,640 3,826
Total domestic shipments	x	142,014	1,487,452	287,192	50,891	719,456	3,536,439
Total domestic alloy shipments	1,481		•		•		30,771
Exports ² (for final sale)							
81 Exports to the United States 82 Exports to other countries (excluding United States)	х 	44,563 6,369	X X	89,396 11,624	105,352 x	172,138 57,582	1,292,693 529,336
Total disposition	x	192,946	2,243,669	388,212	x	949,176	5,358,468
Total alloy shipments	1,577					•	45,617
Producers interchange, for sale	••		х		•		х
Exports for conversion and return ²							
Imports by producers (including conversion)		134	2,707	9,895			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

	August		Year-to-date		
	2008	2009	2008		
Production of pig iron	796,996	х	6,649,517	х	

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

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

	August		Year-to-date		
	2008	2009	2008	2009	
	metric tonnes				
Pig iron including pre-reduced iron	790,041	388,987	6,469,266	x	
Scrap Own make Purchased	123,145 565,455	99,677 318,482	1,085,476 4,734,384	824,258 2,238,384	
Total, pig iron and scrap products	1,478,641	807,146	12,289,126	6,218,682	

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			
August					
Steel, primary forms (carbon and alloy including continuous cast steel)					
Electric furnace	536,935	x	x	X	
Basic oxygen furnace	823,621	X	x	0	
Steel, primary forms - Total	1,360,556	733,067	230,664	x	
Included in "Steel primary forms total" above Continuous cast steel	1,355,338	732,111	223,744	х	

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	3	
Steel, primary forms (carbon and alloy including continuous cast steel) Electric furnace Basic oxygen furnace	4,413,513 6,800,915	x x	x x	x x
Steel, primary forms - Total	11,214,428	5,479,066	1,995,210	x
Included in "Steel primary forms total" above Continuous cast steel	11,114,659	5,271,037	1,887,050	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 tonn	es	
August				
Total, pipe and tubing	109,914	56,275	40,920	97,195
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 7,887 18,878	8,838 x	0 x x	x x 225
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	10,914 39,069	10,117 10,254	5,486 14,246	16,234 21,531
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	3,991 791	1,422 1,218	2,458 163	3,880 1,381
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	281 652 982	259 110 66	30 18 17	289 128 83
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	12,091 7,252	9,827 3,953	4,247 2,040	14,074 5,993
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)	10,013 2,107	7,243 1,791	1,986 977	9,229 2,768
Other tubular products	x	1,070	1,292	2,362

^{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	Shipments for sale		
		Domestic shipments ¹	Exports	Total shipments
_		metric tonn	es	
Year-to-date				
Total, pipe and tubing	1,046,168	594,363	468,005	1,062,368
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 59,124 251,748	x x x	313 x x	x x 246,976
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	91,360 233,391	103,419 76,941	50,296 144,354	154,346 219,326
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	22,090 11,174	10,664 9,601	14,565 2,308	25,229 11,909
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 11,371	x x x	x x x	x 2,915 1,143
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	69,513 51,506	55,899 x	28,581 x	84,480 43,080
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)	180,381 25,833	140,575 17,099	29,890 	170,465 19,585
Other tubular products	х	7,246	4,731	11,977

^{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	2008 2009			
		Total shipments	Domestic shipments	Exports	
			metric tonnes		
August					
Barbed wire	х	x	х	х	
Uncoated steel wire	14,602	14,523	7,969	6,554	
Galvanized steel wire	11,933	6,615	2,698	3,917	
Other coated steel wire	Х	X	Х	Х	:
Farm fencing and wire chain link fabric	_ X	2,495	Х	Х	2,711
Wire mesh, bright or uncoated and galvanized	5,337	3,359	Х	X	3,316
Wire rope	3,159	Х	Х	X	Х
Nails and staples	Х	X	Х	X	X
Wire roofing nails of a length of 25 mm or more, iron or steel	1,620	1,113	466	647	1,144
Staples of iron or steel	Х	X	Х	Х	X
All other wire products	1,611	Х	Х	0	X
Grand total	45,694	34,884	20,972	13,912	

^{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				
	ship	Total shipments	Domestic shipments	Exports	
<u> </u>			metric tonnes		
Barbed wire Uncoated steel wire Galvanized steel wire	x 143,167 109,639	x 104,837 68,111	x 59,303 27,129	x 45,534 40,982	
Other coated steel wire Farm fencing and wire chain link fabric	X	X X	X	x x	x
Wire mesh, bright or uncoated and galvanized Wire rope	43,630 x	27,283 x	x x	X X	26,324 x
Nails and staples Wire roofing nails of a length of 25 mm or more, iron or steel	x 15,308	7,596	3,492	x 4,104	X X
Staples of iron or steel All other wire products	X X	X X	X X	х 	x x
Grand total	411,964	293,116	178,211	114,905	

^{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).