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Steel, Tubular Products and Steel Wire

December 2006



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Statistics Canada

Manufacturing, Construction and Energy Division

Steel, Tubular Products and Steel Wire

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Note of appreciation

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User information

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

December 2006

- Monthly production of primary steel and pig iron increased 12.3% to 1,155,326 metric tonnes in December.
- Between November and December 2006, disposition of rolled steel product shipments fell 26.6% to 904,032 metric tonnes.
- In December steel pipe and tubing production fell 31.9% to 176,669 metric tonnes.
- Total shipments of steel wire and specified wire products dropped 20.3% to 30,682 metric tonnes in December.

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 shipments¹ of rolled steel products, by product, monthly 2006

December Domestic shipments 11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating	55 418	1,101	2,989	metric to	nnes			
Domestic shipments 11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating		1,101	2 989					
11 Steel service centres and other wholesalers and warehouses 21 Motor vehicles and parts 22 Railway operating		1,101	2 989					
21 Motor vehicles and parts 22 Railway operating		1,101	2 989					
				2,841	902	16,000 15,429	 190	•
23 Railroad cars and locomotives		58						
24 Shipbuilding 31 Steel fabrication		1,279	994	3,815	20,300	12,649		•
32 Metal building systems		.,270						
33 Contractors'products 34 Miscellaneous stamping and coating			 47	200	37	398 535	76	
41 Natural resources and extractive industries					1,079	12,196		
51 Agricultural equipment			5			105		
52 Non electrical machinery					•	859		
53 Electrical machinery 54 Industrial packaging material	•	•	•	•	•	52	•	•
61 Pipes and tubes					•			
62 Wire and wire products	290					2,777	21,807	
63 Containers and closures		-			•	•		
64 Appliances and utensils industries 70 Miscellaneous industries	•		-		•	•		
	•		•	•		•	•	•
Total domestic shipments	763	2,438	4,035	6,856	22,318	61,000	22,073	
Total domestic alloy shipments			•			23,266		
Exports ² (for final sale)								
81 Exports to the United States 82 Exports to other countries (excluding United States)	X X	1,834 	10,194 93	6,084	495 	31,333 15,424	X X	
Total disposition	х	4,272	14,322	12,940	22,813	107,757	53,331	
Total alloy shipments						36,626		
Producers interchange, for sale	х					214		
Exports for conversion and return ²								
Imports by producers (including conversion)								

See footnotes at the end of the table.

Table 1-1 – continued

Steel primary forms and pig iron — Disposition of net shipments¹ of rolled steel products, by product, monthly 2006

SDC No.	Cold finished bars	Plates ³	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	1,362 858	25,099 	124,247 48,488	10,850	1,368	40,709	230,774 116,942
23 Railroad cars and locomotives 24 Shipbuilding		538	4				600
31 Steel fabrication	66	7,007	4,237			284	50,631
32 Metal building systems 33 Contractors'products	15	12	1,805	X	•	2,341 x	2,341 28,634
34 Miscellaneous stamping and coating	118	500	5,931	6,479		6,596	20,406
41 Natural resources and extractive industries 51 Agricultural equipment	130	1,167	66	37			13,275 1,510
52 Non electrical machinery	38	169					1,066
53 Electrical machinery 54 Industrial packaging material	•	•	42	4,016 11,185	51	1,141 20	5,157 11,350
61 Pipes and tubes			90,493	804		1,174	92,471
62 Wire and wire products 63 Containers and closures	238		992 36	70 341	15,116	6	26,180 15,493
64 Appliances and utensils industries				4,353		2,058	6,411
70 Miscellaneous industries	140	•	•	•	•	•	140
Total domestic shipments	2,965	34,492	276,341	69,280	16,535	104,285	623,381
Total domestic alloy shipments							23,266
Exports ² (for final sale)							
81 Exports to the United States 82 Exports to other countries (excluding United States)	4,497	15,515 972	83,897 3,595	11,821 1,367	10,423 1,290	22,160 9,808	231,476 49,175
Total disposition	7,462	50,979	363,833	82,468	28,248	136,253	904,032
Total alloy shipments							36,626
Producers interchange, for sale		-	1,173	х			62,039
Exports for conversion and return ²							
Imports by producers (including conversion)		315	7,873	13,398	·		21,586

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

^{2.} These data include exports reported by steel producers only and are not the same as published in the Exports by commodities, catalogue number 65-004-XPB.

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 shipments¹ of rolled steel products, by product, year-to-date 2006

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		35,177	91,630	75,869	37,013	248,270 259,040	2,161	
23 Railroad cars and locomotives		3,544						
24 Shipbuilding 31 Steel fabrication		9,267	20,864	50,057	384,130	182,754		
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 Total domestic shipments	9,153	48,030	3,569 	3,366	12,373 		2,744 226,265 	
Total domestic alloy shipments						300,179		
Exports ² (for final sale)								
81 Exports to the United States 82 Exports to other countries (excluding United States)	x x	32,968 	151,158 3,490	108,058	35,590 	513,356 218,971	x x	
Total disposition	x	81,728	270,992	237,445	471,985	1,643,213	x	
Total alloy shipments						483,592		
Producers interchange, for sale	x					23,702		
Exports for conversion and return ²								
Imports by producers (including conversion)								

See footnotes at the end of the table.

Table 1-2 – continued

Steel primary forms and pig iron — Disposition of net shipments¹ of rolled steel products, by product, year-to-date 2006

SDC No.	Cold finished bars	Plates ³	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	31,912 23,046	379,303 	1,878,521 1,072,290	x 210,834	26,280	x 692,097	3,676,794 2,264,130
23 Railroad cars and locomotives 24 Shipbuilding		20,482	4,831	•			28,857
31 Steel fabrication 32 Metal building systems	1,862	79,122	69,452			20,534 40,972	818,261 41,151
33 Contractors'products 34 Miscellaneous stamping and coating 41 Natural resources and extractive industries	545 2,574	1,660 	58,896 79,292	67,920		221,250 	497,624 406,365 148,657
51 Agricultural equipment 52 Non electrical machinery	1,948 739	21,303 3,751					30,262 12,041
53 Electrical machinery 54 Industrial packaging material 61 Pipes and tubes			5,756 1,906,272	54,037 149,943 25,278		14,463 23,156	68,500 156,506 1,954,941
62 Wire and wire products 63 Containers and closures	7,221	•	5,028	2,494 2,937	158,554	506	294,593 166,519
64 Appliances and utensils industries 70 Miscellaneous industries	1,897			73,401		37,776	111,177 1,897
Total domestic shipments	72,556	517,931	5,086,835	1,009,445	185,401	1,924,669	10,678,275
Total domestic alloy shipments							301,514
Exports ² (for final sale)							
81 Exports to the United States 82 Exports to other countries (excluding United States)	х	207,999 17,533	818,231 58,433	x x	136,766 17,439	430,209 148,333	3,421,389 568,482
Total disposition	x	743,463	5,963,499	x	339,606	2,503,211	14,668,146
Total alloy shipments							484,927
Producers interchange, for sale			24,109	х			874,183
Exports for conversion and return ²	-	-					
Imports by producers (including conversion)	·	26,120	269,326	160,229	·		1,091,441

^{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				
	2005	2006	2005	2006			
		metric tonnes					
Production of pig iron	696,583	638,813	8,274,051	8,305,254			

^{2.} These data include exports reported by steel producers only and are not the same as published in the Exports by commodities, catalogue number 65-004-XPB.

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	
	2005	2006	2005	2006
		metric tonnes		
Pig iron including pre-reduced iron	707,073	646,079	8,576,232	8,725,622
Scrap Own make Purchased	161,809 473,803	163,205 461,865	2,121,483 6,244,817	2,034,350 6,117,413
Total, pig iron and scrap products	1,342,685	1,271,149	16,942,532	16,877,385

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

	Production		Shipments	
	2005	2006	2005	2006
		metric tonnes		
December				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace Basic oxygen furnace	465,730 763,665	470,882 684,444	38,886 21,010	62,261
Steel, primary forms - Total	1,229,395	1,155,326	59,896	62,261
Included in "Steel primary forms total" above Continuous cast steel	1,213,456	1,142,543	56,130	59,097

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

	Production		Shipments		
	2005	2006	2005	2006	
		metric tonnes			
Steel, primary forms (carbon and alloy including continuous cast steel) Electric furnace Basic oxygen furnace	6,360,851 8,966,566	6,371,708 9,027,664	x x	x x	
Steel, primary forms - Total	15,327,417	15,399,372	x	x	
Included in "Steel primary forms total" above Continuous cast steel	15,149,478	15,207,230	x	х	

Table 2-1 Steel pipe and tubing — Production and shipments, monthly 2006

	Production	Shipi	ments for sale	
	_	Domestic ¹ shipments	Exports ²	Total shipments
_		metric tonne	es	
December				
Total, pipe and tubing	176,669	108,855	81,736	190,591
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	9,024 8,431 30,825	4,170 8,996 5,712	136 30,829	4,306 8,996 36,541
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	10,854 27,796	6,879 9,071	6,010 19,482	12,889 28,553
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	4,955 1,872	1,973 1,012	2,578 434	4,551 1,446
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	830 2,147 2,294	423 3,570 605	273 137 887	696 3,707 1,492
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	17,172 9,354	13,349 4,171	6,272 1,870	19,621 6,041
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)	36,654 13,996	x 6,959	x 416	51,809 7,375
Other tubular products	465	x	х	2,568

Including for own use by the steel pipe and tubing industries.
 As reported by respondents to this survey. For total exports see Exports by commodity, catalogue number 65-004-XPB.

Table 2-2 Steel pipe and tubing — Production and shipments, year-to-date 2006

	Production	Shipments for sale		
		Domestic ¹ shipments	Exports ²	Total shipments
_	metric tonnes			
Year-to-date				
Total, pipe and tubing	2,948,480	1,777,864	1,167,592	2,945,456
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	133,933 89,602 451,437	95,146 141,461 112,746	 295,826	95,578 141,461 408,572
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	242,069 564,646	116,989 172,306	129,710 378,598	246,699 550,904
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	57,631 14,360	18,790 4,658	35,554 10,369	54,344 15,027
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	18,730 x 35,648	11,366 x x	2,828 x x	14,194 35,033 25,138
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	352,506 158,345	234,308 65,425	104,465 31,281	338,773 96,706
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)	631,276 160,015	X X	X X	728,630 145,892
Other tubular products	x	x	х	48,505

Including for own use by the steel pipe and tubing industries.
 As reported by respondents to this survey. For total exports see Exports by commodity, catalogue number 65-004-XPB.

Table 3-1
Steel and specified wire products — Factory shipments¹, monthly

	Shipments				Production
	2005 2006				
		Total shipments	Domestic shipments	Exports ²	
	metric tonnes				
December					
Barbed wire	43	x	х	х	
Uncoated steel wire	15,526	11,235	6,491	4,744	
Galvanized steel wire	10,301	9,066	4,333	4,733	
Other coated steel wire	X	X	Х	Х	
Farm fencing and wire chain link fabric	596	464	Х	Х	479
Wire mesh, bright or uncoated and galvanized	3,331	3,628	X	X	3,289
Wire rope	2,756	1,880	X	X	1,803
Nails and staples	X	X	X	X	X
Wire roofing nails of a length of 25 mm or more, iron or steel	2,769	2,405	X	Х	2,032
Staples of iron or steel	Х	Х	Х	••	Х
All other wire products	Х	Х	Х	Х	Х
Grand total	36,793	30,682	18,295	12,387	

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

Table 3-2
Steel and specified wire products — Factory shipments¹, year-to-date

	Shipments			Production	
_	2005	2006			
		Total shipments	Domestic shipments	Exports ²	
_	metric tonnes				
Barbed wire	х	x	x	x	
Uncoated steel wire	246,975	212,808	118,631	94,177	
Galvanized steel wire	154,193	152,089	X	X	
Other coated steel wire	X	X	X	X	
Farm fencing and wire chain link fabric	10,946	11,287	X	Х	12,389
Wire mesh, bright or uncoated and galvanized	Х	54,997	X	Х	58,231
Wire rope	41,236	Х	X	X	Х
Nails and staples	X	X	X	X	X
Wire roofing nails of a length of 25 mm or more, iron or steel	X	X	X	X	X
Staples of iron or steel	X	X	X	X	X
All other wire products	X	Х	Х	X	Х
Grand total	x	555,925	320,465	235,460	

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

^{2.} As reported by respondents to this survey. For total exports see Exports by commodity, catalogue number 65-004-XPB.

^{2.} As reported by respondents to this survey. For total exports see Exports by commodity, catalogue number 65-004-XPB.

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
	percentage	
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.ca).