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Steel, tubular products and steel wire



September 2005



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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
- 0^s 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

September 2005

- Following an increase of 36.2% in August 2005, total shipments of rolled steel products moderated, increasing only 2.2% to 1,308,923 metric tonnes in September. The year-over-year increase for September was 6.9%.
- Compared to August 2005, production of primary steel forms in September advanced 8.6% to reach 1,299,707 metric tonnes. This is the highest level of production since May 2005.
- Steel pipe and tubing production in September reached 249,738 metric tonnes, up 5.7% from 236,362 metric tonnes in August. This increase was largely attributable to a surge in demand for oil country and tubular products and oil well tubing (including couplings).
- An increase in exports of steel pipe and tubing was offset by a decrease in domestic shipments leaving total shipments flat in September 2005.

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 2005

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 tonnes								
September								
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses	213	4,174	9,846	7,786	5,078	19,774	70	.
21 Motor vehicles and parts	.	.	.	.	.	29,824	265	.
22 Railway operating	.	.	.	.	.	..	.	.
23 Railroad cars and locomotives	.	506	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	..	361	1,135	3,295	35,730	14,700	..	.
32 Metal building systems	.	.	.	.	.	43	.	.
33 Contractors' products	.	.	.	.	1,658	403	246	.
34 Miscellaneous stamping and coating	..	..	341	209	.	2,905	.	.
41 Natural resources and extractive industries	.	.	..	.	514	7,234	..	.
51 Agricultural equipment	.	.	..	..	.	510	.	.
52 Non electrical machinery	.	..	..	..	.	871	..	.
53 Electrical machinery	.	.	.	.	.	..	.	.
54 Industrial packaging material	.	.	.	.	.	..	.	.
61 Pipes and tubes	.	.	.	.	.	..	.	.
62 Wire and wire products	..	.	.	.	27	4,606	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	36	.	.	.
Total domestic shipments	213	5,041	11,322	11,290	43,043	80,870	x	..
Total domestic alloy shipments	.	.	.	.	.	21,863	..	.
Exports ² (for final sale)								
81 Exports to the United States	x	3,457	12,380	9,403	2,322	39,434	x	.
82 Exports to other countries (excluding United States)	x	..	69	.	..	27,629	x	.
Total disposition	x	8,498	23,771	20,693	45,365	147,933	x	..
Total alloy shipments	.	.	.	.	.	58,867	..	.
Producers interchange, for sale	x	.	.	.	.	2,369	83	.
Exports for conversion and return ²	.	.	.	.	.	.	.	.
Imports by producers (including conversion)	5,951	.	.	.	.	.	..	.

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 2005

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							
September							
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses	3,504	27,499	158,949	47,527	2,916	45,038	332,374
21 Motor vehicles and parts	2,430	..	95,479	20,412	..	71,276	219,686
22 Railway operating	..	..	..	..	..	..	..
23 Railroad cars and locomotives	..	3,264	71	..	..	..	3,841
24 Shipbuilding	..	..	..	..	..	..	..
31 Steel fabrication	171	1,966	5,279	240	..	830	63,707
32 Metal building systems	..	..	..	..	..	3,378	3,421
33 Contractors' products	10	..	5,276	750	..	38,937	47,280
34 Miscellaneous stamping and coating	267	1,271	5,623	6,685	..	21,809	39,110
41 Natural resources and extractive industries	135	..	..	..	..	13	7,896
51 Agricultural equipment	99	126	151	..	..	..	886
52 Non electrical machinery	109	538	..	15	..	..	1,533
53 Electrical machinery	..	..	..	4,504	..	1,730	6,234
54 Industrial packaging material	..	..	1,019	10,935	..	..	11,954
61 Pipes and tubes	41	..	171,698	3,983	..	1,988	177,710
62 Wire and wire products	471	..	..	x	..	33	28,526
63 Containers and closures	..	..	..	300	14,223	..	14,523
64 Appliances and utensils industries	..	..	..	6,511	..	3,610	10,121
70 Miscellaneous industries	111	..	..	..	..	..	147
Total domestic shipments	7,348	34,664	443,545	x	17,139	188,642	968,949
Total domestic alloy shipments	127	..	..	..	..	..	21,990
Exports² (for final sale)							
81 Exports to the United States	8,256	18,469	48,448	15,630	7,548	43,041	281,705
82 Exports to other countries (excluding United States)	..	2,378	4,178	1,138	2,176	12,529	58,269
Total disposition	15,604	55,511	496,171	118,751	26,863	244,212	1,308,923
Total alloy shipments	127	..	..	..	..	..	58,994
Producers interchange, for sale	..	..	1,372	x	..	..	46,255
Exports for conversion and return ²	..	..	..	..	..	..	..
Imports by producers (including conversion)	..	2,294	5,744	16,630	..	..	30,619

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.

3. 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 2005

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 tonnes								
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses	..	24,768	66,633	64,895	33,197	198,685	..	.
21 Motor vehicles and parts	.	.	.	.	.	233,405	1,671	.
22 Railway operating	.	.	.	.	.	..	.	.
23 Railroad cars and locomotives	.	3,941	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	..	3,146	10,587	31,763	236,104	122,232	..	.
32 Metal building systems	.	.	.	.	.	227	.	.
33 Contractors' products	.	.	..	.	6,048	5,379	1,792	.
34 Miscellaneous stamping and coating	..	..	3,307	2,486	.	14,916	.	.
41 Natural resources and extractive industries	.	.	..	.	21,742	115,557	..	.
51 Agricultural equipment	.	..	..	..	.	3,541	.	.
52 Non electrical machinery	.	..	..	..	.	7,936	..	.
53 Electrical machinery	.	.	.	.	.	..	.	.
54 Industrial packaging material	.	.	.	.	.	.	.	.
61 Pipes and tubes	.	.	.	.	.	..	.	.
62 Wire and wire products	..	.	.	.	..	42,503	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	..	.	.	.
Total domestic shipments	6,667	31,889	80,678	99,186	297,306	744,553	x	..
Total domestic alloy shipments	.	.	.	.	.	168,086	..	.
Exports ² (for final sale)								
81 Exports to the United States	x	17,018	103,328	84,656	10,890	388,243	x	.
82 Exports to other countries (excluding United States)	x	..	975	.	..	169,282	x	.
Total disposition	x	48,951	184,981	183,842	315,210	1,302,078	x	..
Total alloy shipments	.	.	.	.	.	406,560	..	.
Producers interchange, for sale	x	.	.	.	.	20,213	..	.
Exports for conversion and return ²	.	.	.	.	.	.	.	.
Imports by producers (including conversion)	483,773	.	.	.	.	.	..	.

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 2005

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	26,619	232,262	1,235,065	335,557	22,318	339,084	2,579,448
21 Motor vehicles and parts	22,099	..	814,236	177,859	.	592,160	1,841,430
22 Railway operating	.	..	.	.	.	.	..
23 Railroad cars and locomotives	.	25,230	1,362	.	.	.	30,533
24 Shipbuilding	.	.	.	.	.	.	..
31 Steel fabrication	1,254	38,297	47,320	2,712	.	7,401	500,873
32 Metal building systems	.	..	..	..	.	31,366	33,437
33 Contractors' products	300	..	33,043	13,293	.	261,144	321,505
34 Miscellaneous stamping and coating	2,587	8,355	58,202	58,371	.	162,925	316,740
41 Natural resources and extractive industries	1,056	..	..	..	.	136	138,593
51 Agricultural equipment	1,519	2,655	3,063	.	.	.	10,845
52 Non electrical machinery	658	4,713	.	..	.	.	13,378
53 Electrical machinery	.	..	..	39,891	.	10,920	50,983
54 Industrial packaging material	.	..	15,555	107,447	..	..	123,402
61 Pipes and tubes	695	..	1,242,695	30,359	.	22,673	1,296,422
62 Wire and wire products	4,561	..	..	x	.	246	255,727
63 Containers and closures	.	..	..	1,725	140,249	.	142,116
64 Appliances and utensils industries	.	..	..	50,834	.	25,080	75,914
70 Miscellaneous industries	1,943	..	..	.	.	.	2,017
Total domestic shipments	63,291	311,982	3,452,532	x	162,952	1,453,150	7,733,574
Total domestic alloy shipments	1,158	..	.	..	.	.	169,244
Exports² (for final sale)							
81 Exports to the United States	x	148,965	492,932	111,365	83,213	372,849	2,417,944
82 Exports to other countries (excluding United States)	.	15,466	42,745	x	13,698	90,493	494,373
Total disposition	x	476,413	3,988,209	946,503	259,863	1,916,492	10,645,891
Total alloy shipments	1,158	..	.	..	.	.	407,718
Producers interchange, for sale	.	..	9,350	x	.	.	473,455
Exports for conversion and return ²	.	..	..	.	.	.	..
Imports by producers (including conversion)	.	13,906	59,727	..	.	.	616,713

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.

3. 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 1-3

Steel primary forms and pig iron — Production of pig iron

	September		Year-to-date	
	2004	2005	2004	2005
metric tonnes				
Production of pig iron	750,538	692,943	6,627,328	6,228,620

Table 1-4

Steel primary forms and pig iron — Pig iron and scrap charged to steel furnaces

	September		Year-to-date	
	2004	2005	2004	2005
	metric tonnes			
Pig iron including pre-reduced iron	815,993	714,079	6,992,066	6,478,447
Scrap				
Own make	196,448	159,412	1,747,522	1,619,998
Purchased	540,799	551,566	4,737,104	4,697,635
Total, pig iron and scrap products	1,553,239	1,425,057	13,476,691	12,796,080

Table 1-5

Steel primary forms and pig iron — Production and shipments of steel, primary forms, monthly

	Production		Shipments	
	2004	2005	2004	2005
	metric tonnes			
September				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	577,551	552,860	x	39,834
Basic oxygen furnace	834,295	746,847	..	..
Steel, primary forms - Total	1,411,846	1,299,707	x	39,834
Included in "Steel primary forms total" above				
Continuous cast steel	1,397,305	1,284,673	x	35,176

Table 1-6

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

	Production		Shipments	
	2004	2005	2004	2005
	metric tonnes			
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	4,929,170	4,835,983	x	x
Basic oxygen furnace	7,252,634	6,738,624	x	..
Steel, primary forms - Total	12,181,804	11,574,607	x	x
Included in "Steel primary forms total" above				
Continuous cast steel	12,080,544	11,445,962	x	x

Table 2-1

Steel pipe and tubing — Production and shipments, monthly 2005

	Production	Shipments for sale		Total shipments
		Domestic shipments ¹	Exports ²	
metric tonnes				
September				
Total, pipe and tubing	249,738	168,091	87,430	255,521
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	7,165	x	x	6,385
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	12,637	18,513	66	18,579
over 16" (40.64 cm) outside diameter	11,496	..	8,173	8,173
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	26,715	15,898	13,289	29,187
over 16" (40.64 cm) periphery	49,390	18,795	30,566	49,361
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	4,112	2,083	3,073	5,156
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,732	572	1,622	2,194
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	1,968	1,265	366	1,631
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	3,247	x	x	3,090
over 16" (40.64 cm) outside diameter	4,083	2,548	421	2,969
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	37,286	27,434	10,677	38,111
Mechanical tubing, welded, produced from cold rolled	13,900	7,513	2,558	10,071
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	50,115	51,528	10,739	62,267
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	22,037	9,787	3,380	13,167
Other tubular products	3,855	3,132	2,048	5,180

1. Including for own use by the steel pipe and tubing industries.

2. 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 2005

	Production	Shipments for sale		Total shipments
		Domestic shipments ¹	Exports ²	
metric tonnes				
Year-to-date				
Total, pipe and tubing	2,089,527	1,274,963	779,254	2,054,217
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	54,660	x	x	58,108
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	85,857	94,780	..	95,037
over 16" (40.64 cm) outside diameter	140,155	..	101,425	102,979
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	248,468	134,130	130,029	264,159
over 16" (40.64 cm) periphery	398,124	139,528	256,745	396,273
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	40,820	19,012	30,150	49,162
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	9,275	6,560	7,393	13,953
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	19,024	x	1,444	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	29,474	x	x	x
over 16" (40.64 cm) outside diameter	22,258	x	x	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	304,285	195,205	92,530	287,735
Mechanical tubing, welded, produced from cold rolled	128,555	67,756	26,078	93,834
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	480,060	423,867	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	108,260	67,668	x	x
Other tubular products	20,252	23,248	16,855	40,103

1. Including for own use by the steel pipe and tubing industries.

2. 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	
	2004	2005			
		Total shipments	Domestic shipments		Exports ²
metric tonnes					
September					
Barbed wire	x	x	x	x	.
Uncoated steel wire	26,097	21,457	12,560	8,897	.
Galvanized steel wire	14,493	13,932	5,119	8,813	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	739	959	x	x	760
Wire mesh, bright or uncoated and galvanized	5,127	5,079	x	x	5,511
Wire rope	4,181	3,502	x	x	3,375
Nails and staples	5,095	x	x	2,594	x
Wire roofing nails of a length of 25 mm or more, iron or steel	4,902	4,358	1,764	2,594	4,584
Staples of iron or steel	x	x	x	..	x
All other wire products	x	2,306	x	x	1,829
Grand total	59,671	52,109	29,011	23,098	.

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.

Table 3-2

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

	Shipments			Production	
	2004	2005			
		Total shipments	Domestic shipments		Exports ²
metric tonnes					
Barbed wire	x	x	x	x	.
Uncoated steel wire	240,346	189,041	106,532	82,509	.
Galvanized steel wire	144,429	117,864	47,928	69,936	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	9,762	8,619	x	x	7,483
Wire mesh, bright or uncoated and galvanized	37,143	x	x	x	x
Wire rope	34,945	30,659	x	x	29,984
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	66,594	x	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
Grand total	571,238	x	x	x	.

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.

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 or ASM (Survey ID 2103). This means that estimates from the monthly surveys do not cover the entire universe of steel production in Canada because the ASM does not survey all manufacturers. Instead, the ASM uses administrative data to cover the small and medium-sized manufacturers. These manufacturers are not part of the four monthly surveys.

General methodology

Data are collected monthly using a mail-out / mail-back process. Respondents are mailed a questionnaire but given the option of electronic data reporting (EDR) in a common format. Received data are subject to manual and automated editing to detect errors and inconsistencies as well as to follow-up with respondents by phone or fax if necessary. Follow-up is also carried out for missing reports after a pre-specified period of time. Data are imputed when they are missing. 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 direct or residual disclosure of identifiable data.

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 year-to-date totals in this publication.

Data accuracy

The methodology for these surveys has been designed to promote data accuracy. Since data are collected from all Canadian producers of primary steel, steel product, pig iron, steel pipe and tubing, and steel wire in the target population (see description above), 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, the data are analyzed for consistency and compared with general economic conditions and industry trends using surveys such as the Steel Primary Forms Weekly survey (Survey ID 2131) and the Monthly Survey of Manufacturing (Survey ID 2101).

Coverage errors

The list of businesses included in the four steel surveys is derived from the Annual Survey of Manufactures (ASM). This leads to some under-coverage in the sub-annual surveys since it takes 15 months to compile and publish ASM survey results. This under-coverage is however, kept at a minimum by using advance information from the ASM frame, feedback from the Monthly Survey of Manufactures (MSM) and other sources such as the Steel producers association, trade journals and newspaper articles.

Non-response

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

This error 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 because of definitional difficulties. To reduce such errors the format and wording in the questionnaire is 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 accuracy of reported information.

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. (see text table 1)

Text table 1

Coverage ratio and non-response rate by survey

	Coverage ratio	Non-response rate
	%	
Steel, Primary forms steel castings and Pig iron	91	11
Ingots and Rolled steel products	98	18
Steel pipe and tubing	82	2
Steel wire	92	2

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 during a reference period. These 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, 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 0T6 (Telephone: 1-866-873-8789 or 613-951-9497; Fax line: 613-951-9499; Internet: manufact@statcan.ca) .