



Catalogue no. 41-019-XIE

# Steel, Tubular Products and Steel Wire



July 2006



Statistics  
Canada

Statistique  
Canada

Canada

## How to obtain more information

Specific inquiries about this product and related statistics or services should be directed to: Manufacturing, Construction and Energy Division, Statistics Canada, Ottawa, Ontario, K1A 0T6 (telephone: 1 800 263 1136).

For information on the wide range of data available from Statistics Canada, you can contact us by calling one of our toll free numbers. You can also contact us by e-mail or by visiting our website at [www.statcan.ca](http://www.statcan.ca).

National inquiries line **1 800 263-1136**

National telecommunications device for the hearing impaired **1 800 363-7629**

Depository Services Program inquiries **1 800 700-1033**

Fax line for Depository Services Program **1 800 889-9734**

E-mail inquiries [infostats@statcan.ca](mailto:infostats@statcan.ca)

Website [www.statcan.ca](http://www.statcan.ca)

## Information to access the product

This product, Catalogue no. 41-019-XIE, is available for free in electronic format. To obtain a single issue, visit our website at [www.statcan.ca](http://www.statcan.ca) and select Publications.

## Standards of service to the public

Statistics Canada is committed to serving its clients in a prompt, reliable and courteous manner and in the official language of their choice. To this end, the Agency has developed *standards of service* which its employees observe in serving its clients. To obtain a copy of these service standards, please contact Statistics Canada toll free at 1 800 263-1136. The service standards are also published on [www.statcan.ca](http://www.statcan.ca) under About us > Providing services to Canadians.



Statistics Canada  
Manufacturing, Construction and Energy Division

# Steel, Tubular Products and Steel Wire

July 2006

Published by authority of the Minister responsible for Statistics Canada

© Minister of Industry, 2006

All rights reserved. The content of this electronic publication may be reproduced, in whole or in part, and by any means, without further permission from Statistics Canada, subject to the following conditions: that it be done solely for the purposes of private study, research, criticism, review or newspaper summary, and/or for non-commercial purposes; and that Statistics Canada be fully acknowledged as follows: Source (or "Adapted from", if appropriate): Statistics Canada, year of publication, name of product, catalogue number, volume and issue numbers, reference period and page(s). Otherwise, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form, by any means—electronic, mechanical or photocopy—or for any purposes without prior written permission of Licensing Services, Client Services Division, Statistics Canada, Ottawa, Ontario, Canada K1A 0T6.

September 2006

Catalogue no. 41-019-XIE, Vol. 2, No. 7

ISSN 1712-980X

Frequency: Monthly

Ottawa

La version française de cette publication est disponible sur demande (n° 41-019-XIF au catalogue).

---

#### **Note of appreciation**

*Canada owes the success of its statistical system to a long standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.*

# 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<sup>s</sup> 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

# Table of contents

---

<b>Highlights</b>	<b>4</b>
<b>Related products</b>	<b>5</b>
<b>Statistical tables</b>	
1 Steel primary forms and pig iron	7
1-1 Disposition of net shipments of rolled steel products, by product, monthly 2006	7
1-2 Disposition of net shipments of rolled steel products, by product, year-to-date 2006	9
1-3 Production of pig iron	10
1-4 Pig iron and scrap charged to steel furnaces	11
1-5 Production and shipments of steel, primary forms, monthly	11
1-6 Production and shipments of steel, primary forms, year-to-date	11
2 Steel pipe and tubing	12
2-1 Production and shipments, monthly 2006	12
2-2 Production and shipments, year-to-date 2006	13
3 Steel and specified wire products	14
3-1 Factory shipments, monthly	14
3-2 Factory shipments, year-to-date	14
<b>Data quality, concepts and methodology</b>	
Concepts, methodology and data quality	15
Definitions	18

## Highlights

---

### July 2006

- Total production of primary steel and pig iron decreased 2.7% to 1,348,898 metric tonnes in July 2006.
- Between June 2006 and July 2006, total monthly dispositions of rolled steel products declined 14.8% to 1,114,908 metric tonnes. However, monthly dispositions were up 18.5% compared with July 2005.
- In July 2006, total production of steel pipe and tubing fell 20.7% to 211,790 metric tonnes. However, production for July 2006 rose 19.6% compared with July 2005.
- In July 2006, total shipments of steel wire and specified wire products dropped 25.5% to 39,437 metric tonnes.

## 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<sup>1</sup> of rolled steel products, by product, monthly 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 tonnes								
<b>July</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	..	4,947	6,797	5,692	1,804	17,304	..	.
21 Motor vehicles and parts	513	.	.	.	.	18,646	152	.
22 Railway operating	.	.	.	.	.	..	.	.
23 Railroad cars and locomotives	.	266	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	..	349	1,099	4,503	27,191	13,833	..	.
32 Metal building systems	.	.	.	.	..	..	.	.
33 Contractors' products	.	.	..	.	69	723	381	.
34 Miscellaneous stamping and coating	..	..	244	250	.	418	.	.
41 Natural resources and extractive industries	.	.	..	.	717	9,033	..	.
51 Agricultural equipment	.	..	..	..	.	615	.	.
52 Non electrical machinery	.	..	..	..	.	125	..	.
53 Electrical machinery	.	.	.	.	.	..	.	.
54 Industrial packaging material	.	.	.	.	.	..	.	.
61 Pipes and tubes	.	.	.	.	.	..	.	.
62 Wire and wire products	..	.	.	.	..	2,522	15,553	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	..	.	.	.
<b>Total domestic shipments</b>	<b>513</b>	<b>5,562</b>	<b>8,140</b>	<b>10,445</b>	<b>29,781</b>	<b>63,219</b>	<b>16,086</b>	<b>..</b>
<b>Total domestic alloy shipments</b>	.	.	.	.	.	<b>21,146</b>	..	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	3,169	12,155	6,910	1,461	40,527	x	.
82 Exports to other countries (excluding United States)	..	..	2,180	.	..	17,054	11,429	..
<b>Total disposition</b>	<b>x</b>	<b>8,731</b>	<b>22,475</b>	<b>17,355</b>	<b>31,242</b>	<b>120,800</b>	<b>x</b>	<b>..</b>
<b>Total alloy shipments</b>	.	.	.	.	.	<b>32,680</b>	..	.
Producers interchange, for sale	x	.	..	.	.	432	103	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	..	.	.
Imports by producers (including conversion)	80,111	.	.	.	.	.	..	.

See footnotes at the end of the table.

Table 1-1 – continued

Steel primary forms and pig iron — Disposition of net shipments<sup>1</sup> of rolled steel products, by product, monthly 2006

SDC No.	Cold finished bars	Plates <sup>3</sup>	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							
<b>July</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	1,855	30,196	150,825	31,818	1,609	40,015	292,862
21 Motor vehicles and parts	1,701	..	66,629	11,297	.	36,744	135,682
22 Railway operating	.	..	..	..	..	..	..
23 Railroad cars and locomotives	.	2,154	1,990	.	.	.	4,410
24 Shipbuilding	.	..	..	..	..	..	..
31 Steel fabrication	174	5,476	6,513	..	..	103	59,241
32 Metal building systems	.	..	..	..	..	4,182	4,182
33 Contractors' products	38	394	4,260	1,439	.	36,054	43,358
34 Miscellaneous stamping and coating	187	1,473	8,742	5,038	.	21,545	37,897
41 Natural resources and extractive industries	35	..	..	..	..	..	9,785
51 Agricultural equipment	88	58	38	..	..	..	799
52 Non electrical machinery	61	287	..	..	..	..	473
53 Electrical machinery	.	..	..	2,072	..	993	3,065
54 Industrial packaging material	.	..	1,186	11,694	..	..	12,880
61 Pipes and tubes	10	..	142,610	2,124	.	851	145,595
62 Wire and wire products	581	..	185	118	.	57	19,016
63 Containers and closures	.	..	1,391	311	14,882	.	16,584
64 Appliances and utensils industries	.	..	..	5,137	.	2,097	7,234
70 Miscellaneous industries	73	..	..	..	..	..	73
<b>Total domestic shipments</b>	<b>4,803</b>	<b>40,038</b>	<b>384,369</b>	<b>71,048</b>	<b>16,491</b>	<b>142,641</b>	<b>793,136</b>
<b>Total domestic alloy shipments</b>	<b>106</b>	<b>..</b>	<b>.</b>	<b>..</b>	<b>.</b>	<b>.</b>	<b>21,252</b>
<b>Exports<sup>2</sup> (for final sale)</b>							
81 Exports to the United States	7,335	16,690	62,242	16,881	9,143	28,857	270,734
82 Exports to other countries (excluding United States)	.	1,582	4,653	1,284	1,796	11,060	51,038
<b>Total disposition</b>	<b>12,138</b>	<b>58,310</b>	<b>451,264</b>	<b>89,213</b>	<b>27,430</b>	<b>182,558</b>	<b>1,114,908</b>
<b>Total alloy shipments</b>	<b>106</b>	<b>..</b>	<b>.</b>	<b>..</b>	<b>.</b>	<b>.</b>	<b>32,786</b>
Producers interchange, for sale	.	..	2,725	x	.	.	78,096
Exports for conversion and return <sup>2</sup>	.	..	1,912	.	.	.	1,912
Imports by producers (including conversion)	.	4,008	19,031	17,243	.	.	120,393

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 shipments<sup>1</sup> 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 tonnes								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	..	21,730	59,076	54,028	22,815	158,710	..	.
21 Motor vehicles and parts	..	.	.	.	.	164,569	1,212	.
22 Railway operating	.	.	.	.	.	..	.	.
23 Railroad cars and locomotives	.	2,587	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	..	5,497	14,561	31,853	216,422	108,699	..	.
32 Metal building systems	.	.	..	.	..	..	..	.
33 Contractors' products	.	.	..	.	..	5,254	2,054	.
34 Miscellaneous stamping and coating	..	..	3,272	2,726	.	9,137	.	.
41 Natural resources and extractive industries	.	.	..	.	7,059	79,864	..	.
51 Agricultural equipment	.	..	..	..	.	2,787	.	.
52 Non electrical machinery	.	..	..	..	.	4,118	..	.
53 Electrical machinery	.	.	.	.	.	..	.	.
54 Industrial packaging material	.	.	.	.	.	..	.	.
61 Pipes and tubes	.	.	.	.	.	..	.	.
62 Wire and wire products	..	.	.	.	..	29,545	126,307	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	..	.	.	.
<b>Total domestic shipments</b>	<b>2,469</b>	<b>29,832</b>	<b>77,094</b>	<b>88,651</b>	<b>247,327</b>	<b>562,909</b>	<b>129,646</b>	..
<b>Total domestic alloy shipments</b>	.	.	.	.	.	<b>173,926</b>	..	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	16,928	95,928	72,932	22,994	322,217	x	.
82 Exports to other countries (excluding United States)	x	..	2,819	.	..	130,469	x	..
<b>Total disposition</b>	<b>x</b>	<b>47,167</b>	<b>175,841</b>	<b>161,583</b>	<b>270,321</b>	<b>1,015,595</b>	<b>x</b>	..
<b>Total alloy shipments</b>	.	.	.	.	.	<b>285,953</b>	..	.
Producers interchange, for sale	x	.	..	.	.	15,334	370	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	..	.	.
Imports by producers (including conversion)	484,921	.	.	.	.	.	..	.

See footnotes at the end of the table.

Table 1-2 – continued

Steel primary forms and pig iron — Disposition of net shipments<sup>1</sup> of rolled steel products, by product, year-to-date 2006

SDC No.	Cold finished bars	Plates <sup>3</sup>	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							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	21,115	233,906	1,166,128	246,612	17,421	284,752	2,286,391
21 Motor vehicles and parts	15,378	..	700,636	130,238	.	429,817	1,444,294
22 Railway operating	.	..	.	.	.	.	..
23 Railroad cars and locomotives	.	16,105	4,431	.	.	.	23,123
24 Shipbuilding	.	..	.	.	.	.	..
31 Steel fabrication	1,279	43,047	36,206	..	.	5,021	462,737
32 Metal building systems	.	..	..	.	.	21,297	21,476
33 Contractors' products	323	1,296	29,057	13,826	.	233,425	286,263
34 Miscellaneous stamping and coating	1,821	10,235	50,367	38,291	.	137,640	253,489
41 Natural resources and extractive industries	578	..	..	..	.	..	87,604
51 Agricultural equipment	1,258	1,696	..	..	.	..	7,686
52 Non electrical machinery	471	2,632	.	..	.	..	7,301
53 Electrical machinery	.	..	.	34,729	.	8,548	43,277
54 Industrial packaging material	.	..	3,887	89,642	..	..	94,005
61 Pipes and tubes	..	..	1,155,691	16,262	.	11,820	1,183,998
62 Wire and wire products	4,985	..	..	1,039	.	330	162,394
63 Containers and closures	.	..	3,597	1,566	94,142	.	99,305
64 Appliances and utensils industries	.	..	.	42,696	.	21,990	64,686
70 Miscellaneous industries	1,060	..	.	.	.	.	1,060
<b>Total domestic shipments</b>	<b>48,393</b>	<b>308,917</b>	<b>3,152,176</b>	<b>615,053</b>	<b>111,961</b>	<b>1,154,661</b>	<b>6,529,089</b>
<b>Total domestic alloy shipments</b>	<b>937</b>	..	.	..	.	.	<b>174,863</b>
<b>Exports<sup>2</sup> (for final sale)</b>							
81 Exports to the United States	x	123,187	434,511	128,444	71,906	279,344	2,063,004
82 Exports to other countries (excluding United States)	.	11,148	32,480	8,421	10,896	77,993	290,965
<b>Total disposition</b>	<b>x</b>	<b>443,252</b>	<b>3,619,167</b>	<b>751,918</b>	<b>194,763</b>	<b>1,511,998</b>	<b>8,883,058</b>
<b>Total alloy shipments</b>	<b>937</b>	..	.	..	.	.	<b>286,890</b>
Producers interchange, for sale	.	..	18,836	x	.	.	540,996
Exports for conversion and return <sup>2</sup>	.	..	21,526	.	.	.	22,068
Imports by producers (including conversion)	.	20,018	167,341	114,841	.	.	787,121

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

	July		Year-to-date	
	2005	2006	2005	2006
metric tonnes				
Production of pig iron	649,374	748,336	4,901,943	5,138,012

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

	July		Year-to-date	
	2005	2006	2005	2006
	metric tonnes			
Pig iron including pre-reduced iron	630,746	767,679	5,120,060	5,338,630
<b>Scrap</b>				
Own make	148,486	178,423	1,302,674	1,218,160
Purchased	423,913	536,907	3,622,175	3,676,757
<b>Total, pig iron and scrap products</b>	<b>1,203,145</b>	<b>1,483,009</b>	<b>10,044,909</b>	<b>10,233,547</b>

**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			
<b>July</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	406,755	557,524	x	95,714
Basic oxygen furnace	695,890	791,374	..	18,149
<b>Steel, primary forms - Total</b>	<b>1,102,645</b>	<b>1,348,898</b>	<b>x</b>	<b>113,863</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,086,084	1,332,845	x	109,753

**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			
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	3,751,305	3,820,635	x	x
Basic oxygen furnace	5,326,332	5,530,665	..	x
<b>Steel, primary forms - Total</b>	<b>9,077,637</b>	<b>9,351,300</b>	<b>x</b>	<b>x</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	8,970,689	9,231,967	x	x

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

	Production	Shipments for sale		Total shipments
		Domestic <sup>1</sup> shipments	Exports <sup>2</sup>	
metric tonnes				
<b>July</b>				
<b>Total, pipe and tubing</b>	<b>211,790</b>	<b>168,520</b>	<b>100,918</b>	<b>269,438</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	5,756	3,989	19	4,008
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	4,754	6,129	..	6,129
over 16" (40.64 cm) outside diameter	38,391	17,037	36,028	53,065
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	19,641	9,541	10,059	19,600
over 16" (40.64 cm) periphery	44,408	14,592	27,936	42,528
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	2,511	1,082	2,885	3,967
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	295	150	614	764
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	1,327	626	411	1,037
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	793	1,340	108	1,448
over 16" (40.64 cm) outside diameter	3,277	1,571	205	1,776
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	21,769	14,411	7,656	22,067
Mechanical tubing, welded, produced from cold rolled	9,231	4,437	2,857	7,294
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	44,385	59,446	8,264	67,710
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	13,931	32,833	3,172	36,005
<b>Other tubular products</b>	<b>1,321</b>	<b>1,336</b>	<b>704</b>	<b>2,040</b>

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 2006**

	Production	Shipments for sale		Total shipments
		Domestic <sup>1</sup> shipments	Exports <sup>2</sup>	
metric tonnes				
<b>Year-to-date</b>				
<b>Total, pipe and tubing</b>	<b>1,803,990</b>	<b>1,118,074</b>	<b>689,389</b>	<b>1,807,463</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	82,509	57,405	212	57,617
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	43,305	85,419	..	85,419
over 16" (40.64 cm) outside diameter	273,540	65,576	144,942	210,518
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	158,333	75,150	85,263	160,413
over 16" (40.64 cm) periphery	350,629	107,088	237,736	344,824
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	30,443	9,517	21,531	31,048
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	6,754	2,240	6,830	9,070
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	11,569	7,988	1,951	9,939
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	12,457	x	x	21,094
over 16" (40.64 cm) outside diameter	23,543	x	x	15,556
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	225,177	143,270	64,835	208,105
Mechanical tubing, welded, produced from cold rolled	88,928	39,659	18,845	58,504
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	398,207	x	x	456,949
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	89,027	x	x	107,978
<b>Other tubular products</b>	9,569	x	x	30,429

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 shipments<sup>1</sup>, monthly**

	Shipments			Production	
	2005	2006			
		Total shipments	Domestic shipments		Exports <sup>2</sup>
metric tonnes					
<b>July</b>					
Barbed wire	160	364	x	x	.
Uncoated steel wire	15,803	13,538	7,066	6,472	.
Galvanized steel wire	11,852	11,613	4,121	7,492	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	776	848	x	x	891
Wire mesh, bright or uncoated and galvanized	4,164	4,261	x	x	4,424
Wire rope	3,146	2,219	x	x	2,246
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	4,421	3,926	x	x	x
Staples of iron or steel	x	x	x	..	x
All other wire products	x	x	x	x	1,631
<b>Grand total</b>	<b>42,237</b>	<b>39,437</b>	<b>21,620</b>	<b>17,817</b>	.

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 shipments<sup>1</sup>, year-to-date**

	Shipments			Production	
	2005	2006			
		Total shipments	Domestic shipments		Exports <sup>2</sup>
metric tonnes					
Barbed wire	x	x	x	x	.
Uncoated steel wire	148,886	132,981	73,490	59,491	.
Galvanized steel wire	91,618	95,486	39,071	56,415	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	6,813	7,322	x	x	7,850
Wire mesh, bright or uncoated and galvanized	x	28,497	x	x	30,414
Wire rope	24,211	x	x	x	x
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	x	33,953	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
<b>Grand total</b>	<b>x</b>	<b>344,298</b>	<b>193,802</b>	<b>150,496</b>	.

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 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
	%	
Steel primary forms steel castings and pig iron	0	6
Ingots and rolled steel products	3	0
Steel pipe and tubing	0	0
Steel wire	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 0T6 (Telephone: 1-866-873-8789 or (613) 951-9497; Fax: (613) 951-9499; Internet: [manufact@statcan.ca](mailto:manufact@statcan.ca) ).