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# Steel, Tubular Products and Steel Wire

March 2008



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Statistics Canada  
Manufacturing, Construction and Energy Division

# Steel, Tubular Products and Steel Wire

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- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published

# Table of contents

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<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 2008	7
1-2 Disposition of net shipments of rolled steel products, by product, year-to-date 2008	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 2008	12
2-2 Production and shipments, year-to-date 2008	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	17

## Highlights

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### March 2008

- Monthly production of primary steel and pig iron increased 5.6% in March 2008 to 1,423,703 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products rose 0.5% to 1,357,444 metric tonnes.
- Between February 2008 and March 2008, production of steel pipe and tubing increased 2.2% to 228,145 metric tonnes.
- Total shipments of steel wire and specified wire products edged up 0.7% to 53,018 metric tonnes in March 2008.

## Related products

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### Selected CANSIM tables from Statistics Canada

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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

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### Selected surveys from Statistics Canada

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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

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# Statistical tables

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Table 1-1

Steel primary forms and pig iron — Disposition of net shipments <sup>1</sup> of rolled steel products, by product, monthly 2008

SDC No.	Steel primary forms	Rails and heavy structural sections	Intermediate structural sections	Light structural sections	Concrete reinforcing bars	Other hot rolled bars	Wire rods	Railway track material
metric tonnes								
<b>March</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	0	4,641	10,284	x	8,307	24,352	0	.
21 Motor vehicles and parts	285	.	.	.	.	13,280	0	.
22 Railway operating	0	.	.	.	.	0	0	.
23 Railroad cars and locomotives	.	246	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	1,019	1,838	3,856	47,443	16,941	0	.
32 Metal building systems	.	.	.	.	0	0	.	.
33 Contractors' products	.	0	0	.	0	699	73	.
34 Miscellaneous stamping and coating	0	0	416	x	.	420	.	.
41 Natural resources and extractive industries	.	.	18	0	1,230	11,279	0	.
51 Agricultural equipment	.	3	17	24	0	348	.	.
52 Non electrical machinery	.	0	0	0	.	194	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	199	.	.	.	0	2,284	27,243	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	0	.	.	0	520	.	.
<b>Total domestic shipments</b>	<b>484</b>	<b>5,909</b>	<b>12,573</b>	<b>13,270</b>	<b>56,980</b>	<b>70,317</b>	<b>27,316</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>22,917</b>	<b>0</b>	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	3,819	16,967	10,643	0	34,188	34,065	.
82 Exports to other countries (excluding United States)	x	82	93	.	0	19,928	1,773	0
<b>Total disposition</b>	<b>119,390</b>	<b>9,810</b>	<b>29,633</b>	<b>23,913</b>	<b>56,980</b>	<b>124,433</b>	<b>63,154</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>34,303</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	1,593	0	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	1,213	.	.	.	.	.	0	.

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 2008

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>March</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	x	36,574	139,394	33,116	706	46,031	315,617
21 Motor vehicles and parts	1,662	0	45,810	9,748	0	50,439	121,224
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	387	0	.	.	.	633
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	2,912	3,093	70	.	x	77,426
32 Metal building systems	.	.	0	.	.	2,812	2,812
33 Contractors' products	x	x	8,477	4,687	.	29,763	44,126
34 Miscellaneous stamping and coating	x	x	6,739	5,374	.	19,067	33,053
41 Natural resources and extractive industries	74	0	0	0	.	94	12,695
51 Agricultural equipment	195	948	0	146	.	.	1,681
52 Non electrical machinery	0	123	33	0	.	55	405
53 Electrical machinery	.	.	.	2,646	.	171	2,817
54 Industrial packaging material	.	.	0	11,116	0	0	11,116
61 Pipes and tubes	22	0	191,348	1,377	.	2,448	195,195
62 Wire and wire products	x	.	1,039	132	.	x	31,456
63 Containers and closures	0	.	1,528	629	8,689	.	10,846
64 Appliances and utensils industries	.	.	.	5,877	.	1,966	7,843
70 Miscellaneous industries	225	.	0	.	.	.	745
<b>Total domestic shipments</b>	<b>6,246</b>	<b>41,686</b>	<b>397,461</b>	<b>74,918</b>	<b>9,395</b>	<b>153,135</b>	<b>869,690</b>
<b>Total domestic alloy shipments</b>	<b>183</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>23,100</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	1,205	27,675	114,715	30,029	x	37,103	420,990
82 Exports to other countries (excluding United States)	10	2,738	10,509	2,068	x	9,916	66,764
<b>Total disposition</b>	<b>7,461</b>	<b>72,099</b>	<b>522,685</b>	<b>107,015</b>	<b>20,717</b>	<b>200,154</b>	<b>1,357,444</b>
<b>Total alloy shipments</b>	<b>360</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>34,663</b>
Producers interchange, for sale	0	.	2,211	x	.	.	78,602
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	4,725	10,457	4,421	.	0	20,816

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 2008

SDC No.	Steel primary forms	Rails and heavy structural sections	Intermediate structural sections	Light structural sections	Concrete reinforcing bars	Other hot rolled bars	Wire rods	Railway track material
metric tonnes								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	0	13,720	30,612	x	24,262	70,625	641	.
21 Motor vehicles and parts	720	.	.	.	.	41,319	156	.
22 Railway operating	0	.	.	.	.	0	0	.
23 Railroad cars and locomotives	.	996	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	3,226	5,514	11,568	133,320	45,937	0	.
32 Metal building systems	.	.	.	.	0	0	.	.
33 Contractors' products	.	0	0	.	0	x	611	.
34 Miscellaneous stamping and coating	0	0	1,248	x	.	x	.	.
41 Natural resources and extractive industries	.	.	54	0	3,773	33,196	0	.
51 Agricultural equipment	.	9	51	72	0	1,084	.	.
52 Non electrical machinery	.	0	0	0	.	651	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	350	.	.	.	0	7,030	76,504	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	0	.	.	0	2,950	.	.
<b>Total domestic shipments</b>	<b>1,070</b>	<b>17,951</b>	<b>37,479</b>	<b>39,810</b>	<b>161,355</b>	<b>207,905</b>	<b>77,912</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>66,428</b>	<b>0</b>	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	11,941	48,311	31,929	0	99,129	123,097	.
82 Exports to other countries (excluding United States)	x	246	319	.	0	49,472	4,361	0
<b>Total disposition</b>	<b>359,129</b>	<b>30,138</b>	<b>86,109</b>	<b>71,739</b>	<b>161,355</b>	<b>356,506</b>	<b>205,370</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>89,835</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	3,929	34	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	5,812	.	.	.	.	.	0	.

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 2008

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	x	116,879	500,449	108,526	2,685	145,882	1,050,069
21 Motor vehicles and parts	5,312	0	166,615	32,043	0	157,384	403,549
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	780	0	.	.	.	1,776
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	9,130	13,451	319	.	x	224,393
32 Metal building systems	.	.	0	.	.	6,477	6,477
33 Contractors' products	x	x	14,430	x	.	x	121,387
34 Miscellaneous stamping and coating	x	x	16,361	13,583	.	x	90,330
41 Natural resources and extractive industries	205	0	0	0	.	164	37,392
51 Agricultural equipment	578	1,077	123	508	.	.	3,502
52 Non electrical machinery	0	446	303	0	.	55	1,455
53 Electrical machinery	.	.	.	7,635	.	1,079	8,714
54 Industrial packaging material	.	.	494	27,954	47	0	28,495
61 Pipes and tubes	61	0	557,866	x	.	x	570,902
62 Wire and wire products	x	.	2,403	409	.	x	88,213
63 Containers and closures	0	.	4,591	894	25,967	.	31,452
64 Appliances and utensils industries	.	.	.	18,734	.	6,814	25,548
70 Miscellaneous industries	587	.	0	.	.	.	3,537
<b>Total domestic shipments</b>	<b>18,254</b>	<b>129,805</b>	<b>1,277,086</b>	<b>226,937</b>	<b>28,699</b>	<b>472,928</b>	<b>2,697,191</b>
<b>Total domestic alloy shipments</b>	<b>530</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>66,958</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	3,661	77,272	341,333	90,634	x	112,230	1,292,178
82 Exports to other countries (excluding United States)	10	8,467	40,392	6,711	x	31,166	180,625
<b>Total disposition</b>	<b>21,925</b>	<b>215,544</b>	<b>1,658,811</b>	<b>324,282</b>	<b>62,762</b>	<b>616,324</b>	<b>4,169,994</b>
<b>Total alloy shipments</b>	<b>707</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>90,542</b>
Producers interchange, for sale	0	.	6,864	x	.	.	252,125
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	10,368	42,715	5,666	.	0	64,561

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

	March		Year-to-date	
	2007	2008	2007	2008
metric tonnes				
Production of pig iron	767,756	810,616	2,181,146	2,460,902

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

	March		Year-to-date	
	2007	2008	2007	2008
	metric tonnes			
Pig iron including pre-reduced iron	813,922	800,046	2,280,570	2,416,959
<b>Scrap</b>				
Own make	168,739	126,507	484,898	410,700
Purchased	592,901	629,924	1,695,400	1,777,403
<b>Total, pig iron and scrap products</b>	<b>1,575,562</b>	<b>1,556,477</b>	<b>4,460,868</b>	<b>4,605,062</b>

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

	Production		Shipments	
	2007	2008	2007	2008
	metric tonnes			
<b>March</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	594,206	591,051	125,367	x
Basic oxygen furnace	837,608	832,652	5,723	x
<b>Steel, primary forms - Total</b>	<b>1,431,814</b>	<b>1,423,703</b>	<b>131,090</b>	<b>255,812</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,418,016	1,410,164	126,660	242,267

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

	Production		Shipments	
	2007	2008	2007	2008
	metric tonnes			
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	1,667,090	1,667,659	253,148	x
Basic oxygen furnace	2,384,555	2,526,416	64,933	x
<b>Steel, primary forms - Total</b>	<b>4,051,645</b>	<b>4,194,075</b>	<b>318,081</b>	<b>714,378</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	4,011,250	4,152,949	304,706	674,479

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

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports <sup>2</sup>	Total shipments
		metric tonnes		
March				
Total, pipe and tubing	228,145	114,512	125,113	239,625
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	1,339	3,745	231	3,976
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	5,001	12,248	0	12,248
over 16" (40.64 cm) outside diameter	54,376	0	39,561	39,561
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	22,365	12,448	13,065	25,513
over 16" (40.64 cm) periphery	59,577	17,662	39,912	57,574
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	6,025	2,645	3,312	5,957
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	395	713	352	1,065
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	648	x	x	1,616
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	616	567	48	615
over 16" (40.64 cm) outside diameter	1,291	x	x	917
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	17,710	12,496	4,885	17,381
Mechanical tubing, welded, produced from cold rolled	10,677	5,796	2,697	8,493
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	37,965	35,979	16,050	52,029
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	9,996	7,009	1,946	8,955
Other tubular products	164	2,511	1,214	3,725

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 2008**

	Production	Shipments for sale		Total shipments
		Domestic shipments <sup>1</sup>	Exports <sup>2</sup>	
metric tonnes				
Year-to-date				
Total, pipe and tubing	681,435	364,180	352,805	716,985
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	6,046	11,942	1,309	13,251
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	19,507	30,263	0	30,263
over 16" (40.64 cm) outside diameter	161,576	12,061	118,429	130,490
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	62,394	36,851	33,637	70,488
over 16" (40.64 cm) periphery	159,148	50,130	105,651	155,781
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	17,379	7,428	11,605	19,033
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	2,650	x	x	4,129
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	4,019	x	x	3,800
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	2,021	x	x	1,918
over 16" (40.64 cm) outside diameter	3,785	x	x	2,035
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	62,555	43,609	18,177	61,786
Mechanical tubing, welded, produced from cold rolled	36,012	14,084	8,836	22,920
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	117,596	127,335	39,811	167,146
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	25,632	18,657	6,862	25,519
Other tubular products	1,115	5,726	2,700	8,426

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 1, monthly**

	Shipments				Production
	2007	2008			
		Total shipments	Domestic shipments	Exports <sup>2</sup>	
	metric tonnes				
March					
Barbed wire	x	x	x	x	.
Uncoated steel wire	18,291	19,187	10,595	8,592	.
Galvanized steel wire	13,202	13,360	5,263	8,097	.
Other coated steel wire	x	x	x	33	.
Farm fencing and wire chain link fabric	849	2,992	x	x	2,686
Wire mesh, bright or uncoated and galvanized	4,099	4,688	x	x	4,945
Wire rope	3,739	x	x	x	x
Nails and staples	4,456	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	4,313	2,102	832	1,270	1,648
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	2	x
Grand total	49,922	53,018	31,848	21,170	.

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 1, year-to-date**

	Shipments				Production
	2007	2008			
		Total shipments	Domestic shipments	Exports <sup>2</sup>	
	metric tonnes				
Barbed wire	x	x	x	x	.
Uncoated steel wire	51,758	57,223	29,532	27,691	.
Galvanized steel wire	37,867	42,327	16,777	25,550	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	x	x	x	x	x
Wire mesh, bright or uncoated and galvanized	11,557	14,206	x	x	14,684
Wire rope	10,570	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	12,595	5,988	1,927	4,061	4,729
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	7	x
Grand total	136,688	156,964	87,758	69,206	.

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

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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	0	6
Ingots and rolled steel products	3	0
Steel pipe and tubing	0	0
Steel wire	0	0

# Definitions

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## **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) ).