



Catalogue no. 41-019-XIE

# Steel, Tubular Products and Steel Wire

May 2007



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Statistics Canada  
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Published by authority of the Minister responsible for Statistics Canada

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August 2007

Catalogue no. 41-019-XIE, Vol. 3, No. 5

ISSN 1712-980X

Frequency: Monthly

Ottawa

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

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## Symbols

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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

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## Highlights

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### May 2007

- Monthly production of primary steel and pig iron decreased 1.4% in May 2007 to 1,315,310 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products grew 4.5% to 1,318,812 metric tonnes.
- Between April 2007 and May 2007, production of steel pipe and tubing slipped 0.2% to 224,639 metric tonnes.
- Total shipments of steel wire and specified wire products edged up 0.6% to 49,554 metric tonnes in May 2007.

## 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 2007

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>May</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	0	5,775	7,930	5,435	4,125	16,919	36	.
21 Motor vehicles and parts	255	.	.	.	.	17,736	97	.
22 Railway operating	.	.	.	.	.	0	.	.
23 Railroad cars and locomotives	.	370	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	2,537	1,103	3,324	47,982	16,269	0	.
32 Metal building systems	.	.	.	.	0	0	.	.
33 Contractors' products	.	.	0	.	87	582	220	.
34 Miscellaneous stamping and coating	0	134	107	248	.	1,900	.	.
41 Natural resources and extractive industries	.	.	0	.	1,048	10,569	0	.
51 Agricultural equipment	.	0	5	3	20	414	.	.
52 Non electrical machinery	.	0	0	0	.	253	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	339	.	.	.	0	3,038	30,313	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	0	.	.	.
<b>Total domestic shipments</b>	<b>594</b>	<b>8,816</b>	<b>9,145</b>	<b>9,010</b>	<b>53,262</b>	<b>67,680</b>	<b>30,666</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>24,051</b>	<b>0</b>	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	3,598	12,567	7,947	903	42,696	36,745	.
82 Exports to other countries (excluding United States)	x	78	171	.	0	20,943	1,497	0
<b>Total disposition</b>	<b>x</b>	<b>12,492</b>	<b>21,883</b>	<b>16,957</b>	<b>54,165</b>	<b>131,319</b>	<b>68,908</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>36,772</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	895	25	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	7,527	.	.	.	.	.	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 2007

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>May</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	2,803	35,016	149,589	38,577	1,971	48,421	316,597
21 Motor vehicles and parts	2,314	0	76,886	15,612	.	64,799	177,699
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	233	-19	.	.	.	584
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	88	7,761	6,842	307	.	1,334	87,547
32 Metal building systems	.	.	0	.	.	3,662	3,662
33 Contractors' products	89	65	5,639	2,250	.	37,533	46,465
34 Miscellaneous stamping and coating	254	1,288	8,704	6,374	.	23,184	42,193
41 Natural resources and extractive industries	29	0	0	0	.	0	11,646
51 Agricultural equipment	139	249	524	115	.	.	1,469
52 Non electrical machinery	28	353	290	0	.	.	924
53 Electrical machinery	.	.	.	2,396	.	1,767	4,163
54 Industrial packaging material	.	.	3,252	11,217	54	0	14,523
61 Pipes and tubes	52	0	175,548	2,700	.	2,654	180,954
62 Wire and wire products	528	.	541	74	.	70	34,903
63 Containers and closures	.	.	750	309	12,655	.	13,714
64 Appliances and utensils industries	.	.	.	6,959	.	3,293	10,252
70 Miscellaneous industries	299	.	.	.	.	.	299
<b>Total domestic shipments</b>	<b>6,623</b>	<b>44,965</b>	<b>428,546</b>	<b>86,890</b>	<b>14,680</b>	<b>186,717</b>	<b>947,594</b>
<b>Total domestic alloy shipments</b>	<b>348</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>24,399</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	7,183	19,818	94,514	x	13,168	34,953	323,148
82 Exports to other countries (excluding United States)	.	2,051	8,416	x	1,114	11,361	48,070
<b>Total disposition</b>	<b>13,806</b>	<b>66,834</b>	<b>531,476</b>	<b>x</b>	<b>28,962</b>	<b>233,031</b>	<b>1,318,812</b>
<b>Total alloy shipments</b>	<b>348</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>37,120</b>
Producers interchange, for sale	.	.	20,994	x	.	.	112,894
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	1,662	19,192	9,145	.	0	37,526

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 2007

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	713	18,592	47,554	34,759	20,956	102,271	5,173	.
21 Motor vehicles and parts	878	.	.	.	.	92,507	932	.
22 Railway operating	.	.	.	.	.	0	.	.
23 Railroad cars and locomotives	.	2,449	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	63	6,057	9,045	18,614	166,851	82,119	0	.
32 Metal building systems	.	.	.	.	0	0	.	.
33 Contractors' products	.	.	0	.	544	1,849	576	.
34 Miscellaneous stamping and coating	0	134	2,386	1,571	.	10,302	.	.
41 Natural resources and extractive industries	.	.	0	.	5,755	55,666	0	.
51 Agricultural equipment	.	0	5	85	20	1,708	.	.
52 Non electrical machinery	.	36	0	0	.	2,586	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	1,035	.	.	.	0	12,320	118,595	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	0	.	.	.
<b>Total domestic shipments</b>	<b>2,689</b>	<b>27,268</b>	<b>58,990</b>	<b>55,029</b>	<b>194,126</b>	<b>361,328</b>	<b>125,276</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>63</b>	.	.	.	.	<b>121,243</b>	<b>0</b>	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	13,151	66,167	42,413	12,590	206,728	191,072	.
82 Exports to other countries (excluding United States)	x	78	740	.	0	87,283	4,159	0
<b>Total disposition</b>	<b>x</b>	<b>40,497</b>	<b>125,897</b>	<b>97,442</b>	<b>206,716</b>	<b>655,339</b>	<b>320,507</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>63</b>	.	.	.	.	<b>191,440</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	9,314	203	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	13,464	.	.	.	.	.	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 2007

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	14,785	172,260	842,410	224,043	12,135	237,281	1,732,932
21 Motor vehicles and parts	10,989	0	369,362	76,006	.	277,931	828,605
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	5,170	-19	.	.	.	7,600
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	434	29,083	23,401	339	.	2,999	339,005
32 Metal building systems	.	.	0	.	.	13,958	13,958
33 Contractors' products	386	212	23,996	12,189	.	157,201	196,953
34 Miscellaneous stamping and coating	1,254	2,660	39,395	23,204	.	90,777	171,683
41 Natural resources and extractive industries	302	12	23,709	347	.	2,260	88,051
51 Agricultural equipment	593	1,471	3,249	527	.	.	7,658
52 Non electrical machinery	180	891	1,682	0	.	.	5,375
53 Electrical machinery	.	.	.	17,582	.	7,955	25,537
54 Industrial packaging material	.	.	10,915	53,683	189	0	64,787
61 Pipes and tubes	212	0	795,961	13,882	.	8,678	818,733
62 Wire and wire products	2,442	.	4,258	484	.	105	139,239
63 Containers and closures	.	.	3,426	1,093	41,623	.	46,142
64 Appliances and utensils industries	.	.	.	30,528	.	14,175	44,703
70 Miscellaneous industries	1,356	.	.	.	.	.	1,356
<b>Total domestic shipments</b>	<b>32,933</b>	<b>211,759</b>	<b>2,141,745</b>	<b>453,907</b>	<b>53,947</b>	<b>813,320</b>	<b>4,532,317</b>
<b>Total domestic alloy shipments</b>	<b>975</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>122,281</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	38,472	104,600	496,916	x	60,354	x	1,612,538
82 Exports to other countries (excluding United States)	.	7,817	30,737	x	6,562	x	258,894
<b>Total disposition</b>	<b>71,405</b>	<b>324,176</b>	<b>2,669,398</b>	<b>x</b>	<b>120,863</b>	<b>1,042,227</b>	<b>6,403,749</b>
<b>Total alloy shipments</b>	<b>975</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>192,478</b>
Producers interchange, for sale	.	.	28,858	x	.	.	394,608
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	10,393	46,349	20,175	.	0	90,381

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

	May		Year-to-date	
	2006	2007	2006	2007
metric tonnes				
Production of pig iron	749,003	732,726	3,623,937	3,662,522

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

	May		Year-to-date	
	2006	2007	2006	2007
	metric tonnes			
Pig iron including pre-reduced iron	765,596	733,002	3,773,231	3,798,442
<b>Scrap</b>				
Own make	178,926	172,352	860,103	827,212
Purchased	554,153	534,931	2,584,810	2,775,265
<b>Total, pig iron and scrap products</b>	<b>1,498,675</b>	<b>1,440,285</b>	<b>7,218,144</b>	<b>7,400,919</b>

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

	Production		Shipments	
	2006	2007	2006	2007
	metric tonnes			
<b>May</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	577,688	568,711	85,989	83,674
Basic oxygen furnace	783,110	746,599	19,724	44,880
<b>Steel, primary forms - Total</b>	<b>1,360,798</b>	<b>1,315,310</b>	<b>105,713</b>	<b>128,554</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,342,885	1,296,926	101,546	124,116

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

	Production		Shipments	
	2006	2007	2006	2007
	metric tonnes			
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	2,716,933	2,801,167	x	439,640
Basic oxygen furnace	3,901,975	3,941,252	x	147,873
<b>Steel, primary forms - Total</b>	<b>6,618,908</b>	<b>6,742,419</b>	<b>x</b>	<b>587,513</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	6,534,446	6,665,665	x	565,326

**Table 2-1**  
**Steel pipe and tubing — Production and shipments, monthly 2007**

	Production	Shipments for sale		Total shipments
		Domestic shipments <sup>1</sup>	Exports <sup>2</sup>	
metric tonnes				
May				
Total, pipe and tubing	224,639	85,477	140,847	226,324
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	240	1,466	40	1,506
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	2,262	1,675	672	2,347
over 16" (40.64 cm) outside diameter	52,252	2,755	62,989	65,744
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	24,543	11,421	11,949	23,370
over 16" (40.64 cm) periphery	49,282	14,932	35,693	50,625
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	6,088	2,088	2,869	4,957
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	2,821	1,983	486	2,469
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	10,747	864	98	962
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	12,214	1,019	31	1,050
over 16" (40.64 cm) outside diameter	3,678	1,639	97	1,736
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	31,242	21,404	8,918	30,322
Mechanical tubing, welded, produced from cold rolled	15,805	7,109	3,655	10,764
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	10,023	x	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	2,278	3,604	1,900	5,504
Other tubular products	1,164	x	x	x

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 2007**

	Production	Shipments for sale		Total shipments
		Domestic <sup>1</sup> shipments	Exports <sup>2</sup>	
metric tonnes				
Year-to-date				
Total, pipe and tubing	1,151,624	749,374	564,750	1,314,124
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	13,989	15,707	123	15,830
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	18,216	22,364	3,399	25,763
over 16" (40.64 cm) outside diameter	257,841	116,090	202,122	318,212
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	107,654	61,766	52,276	114,042
over 16" (40.64 cm) periphery	247,140	80,965	165,717	246,682
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	23,826	15,803	14,245	30,048
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	7,795	15,796	5,102	20,898
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	15,190	4,085	576	4,661
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	15,614	8,514	152	8,666
over 16" (40.64 cm) outside diameter	12,738	7,169	1,210	8,379
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	143,171	95,983	41,587	137,570
Mechanical tubing, welded, produced from cold rolled	76,331	31,338	17,632	48,970
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	184,413	x	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	23,114	40,851	x	x
Other tubular products	4,592	x	x	x

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
	2006	2007			
		Total shipments	Domestic shipments	Exports <sup>2</sup>	
	metric tonnes				
May					
Barbed wire	x	x	x	x	.
Uncoated steel wire	20,203	19,084	11,260	7,824	.
Galvanized steel wire	16,044	13,267	5,578	7,689	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	1,331	1,491	x	x	1,447
Wire mesh, bright or uncoated and galvanized	5,068	4,927	x	x	5,036
Wire rope	4,141	3,240	x	x	3,310
Nails and staples	x	5,130	2,395	2,735	4,208
Wire roofing nails of a length of 25 mm or more, iron or steel	5,350	5,034	x	x	4,099
Staples of iron or steel	x	x	x	x	109
All other wire products	2,256	x	x	4	x
Grand total	55,340	49,554	29,046	20,508	.

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
	2006	2007			
		Total shipments	Domestic shipments	Exports <sup>2</sup>	
	metric tonnes				
Barbed wire	x	x	x	x	.
Uncoated steel wire	99,926	88,424	49,938	38,486	.
Galvanized steel wire	68,814	65,567	27,303	38,264	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	5,401	x	x	x	x
Wire mesh, bright or uncoated and galvanized	19,544	22,792	x	x	23,230
Wire rope	x	16,853	x	x	15,977
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	24,584	21,783	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
Grand total	251,962	235,522	136,365	99,157	.

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
	percentage	
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) ).