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# Steel, Tubular Products and Steel Wire

June 2007



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Statistics Canada  
Manufacturing, Construction and Energy Division

# Steel, Tubular Products and Steel Wire

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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
- 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

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## Highlights

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### June 2007

- Monthly production of primary steel and pig iron rose 3.4% in June 2007 to 1,360,398 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products dropped 8.4% to 1,208,289 metric tonnes.
- Between May 2007 and June 2007, production of steel pipe and tubing declined 5.5% to 231,399 metric tonnes.
- Total shipments of steel wire and specified wire products fell 3.8% to 47,695 metric tonnes in June 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>June</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	105	3,278	7,333	7,165	1,991	15,570	0	.
21 Motor vehicles and parts	256	.	.	.	.	12,949	36	.
22 Railway operating	.	.	.	.	.	0	.	.
23 Railroad cars and locomotives	.	494	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	739	1,296	4,600	37,078	13,328	0	.
32 Metal building systems	.	.	.	.	0	0	.	.
33 Contractors' products	.	.	0	.	245	116	0	.
34 Miscellaneous stamping and coating	0	0	697	730	.	1,171	.	.
41 Natural resources and extractive industries	.	.	81	36	735	11,865	0	.
51 Agricultural equipment	.	12	4	2	0	107	.	.
52 Non electrical machinery	.	0	0	0	.	108	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	67	.	.	.	0	2,853	31,401	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	0	340	.	.
<b>Total domestic shipments</b>	<b>428</b>	<b>4,523</b>	<b>9,411</b>	<b>12,533</b>	<b>40,049</b>	<b>58,407</b>	<b>31,437</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>10,383</b>	<b>0</b>	.
<b>Exports<sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	2,438	10,302	10,237	474	35,250	34,329	.
82 Exports to other countries (excluding United States)	x	0	258	.	0	17,671	1,004	0
<b>Total disposition</b>	<b>81,122</b>	<b>6,961</b>	<b>19,971</b>	<b>22,770</b>	<b>40,523</b>	<b>111,328</b>	<b>66,770</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>34,408</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	855	5	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	8,109	.	.	.	.	.	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>June</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	2,639	28,552	143,597	26,907	1,451	33,527	272,115
21 Motor vehicles and parts	2,240	0	72,938	13,477	.	61,950	163,846
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	1,029	0	.	.	.	1,523
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	120	6,460	5,847	0	.	1,508	70,976
32 Metal building systems	.	.	0	.	.	2,885	2,885
33 Contractors' products	92	43	4,678	2,210	.	36,351	43,735
34 Miscellaneous stamping and coating	268	17	8,199	5,251	.	22,066	38,399
41 Natural resources and extractive industries	34	0	0	0	.	0	12,751
51 Agricultural equipment	81	418	562	58	.	.	1,244
52 Non electrical machinery	32	294	303	0	.	.	737
53 Electrical machinery	.	.	.	4,577	.	1,547	6,124
54 Industrial packaging material	.	.	1,005	10,196	31	0	11,232
61 Pipes and tubes	130	0	159,185	2,314	.	1,541	163,170
62 Wire and wire products	497	.	901	142	.	53	35,914
63 Containers and closures	.	.	1,712	164	11,055	.	12,931
64 Appliances and utensils industries	.	.	.	5,909	.	2,814	8,723
70 Miscellaneous industries	297	.	.	.	.	.	637
<b>Total domestic shipments</b>	<b>6,430</b>	<b>36,813</b>	<b>398,927</b>	<b>71,205</b>	<b>12,537</b>	<b>164,242</b>	<b>846,942</b>
<b>Total domestic alloy shipments</b>	<b>271</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>10,654</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	6,505	19,486	70,554	x	11,362	31,741	309,511
82 Exports to other countries (excluding United States)	.	471	4,684	x	988	8,442	51,836
<b>Total disposition</b>	<b>12,935</b>	<b>56,770</b>	<b>474,165</b>	<b>85,662</b>	<b>24,887</b>	<b>204,425</b>	<b>1,208,289</b>
<b>Total alloy shipments</b>	<b>271</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>34,679</b>
Producers interchange, for sale	.	.	5,606	x	.	.	98,803
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	11,322	10,478	9,621	.	0	39,530

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	818	21,870	54,887	41,924	22,947	117,841	5,173	.
21 Motor vehicles and parts	1,134	.	.	.	.	105,456	968	.
22 Railway operating	.	.	.	.	.	0	.	.
23 Railroad cars and locomotives	.	2,943	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	63	6,796	10,341	23,214	203,929	95,447	0	.
32 Metal building systems	.	.	.	.	0	0	.	.
33 Contractors' products	.	.	0	.	789	1,965	576	.
34 Miscellaneous stamping and coating	0	134	3,083	2,301	.	11,473	.	.
41 Natural resources and extractive industries	.	.	81	36	6,490	67,531	0	.
51 Agricultural equipment	.	12	9	87	20	1,815	.	.
52 Non electrical machinery	.	36	0	0	.	2,694	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	1,102	.	.	.	0	15,173	149,996	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	0	340	.	.
<b>Total domestic shipments</b>	<b>3,117</b>	<b>31,791</b>	<b>68,401</b>	<b>67,562</b>	<b>234,175</b>	<b>419,735</b>	<b>156,713</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>63</b>	.	.	.	.	<b>131,626</b>	<b>0</b>	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	15,589	76,469	52,650	13,064	241,978	225,401	.
82 Exports to other countries (excluding United States)	x	78	998	.	0	104,954	5,163	0
<b>Total disposition</b>	<b>x</b>	<b>47,458</b>	<b>145,868</b>	<b>120,212</b>	<b>247,239</b>	<b>766,667</b>	<b>387,277</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>63</b>	.	.	.	.	<b>225,848</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	10,169	208	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	21,573	.	.	.	.	.	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	17,424	200,812	986,007	250,950	13,586	270,808	2,005,047
21 Motor vehicles and parts	13,229	0	442,300	89,483	.	339,881	992,451
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	6,199	-19	.	.	.	9,123
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	554	35,543	29,248	339	.	4,507	409,981
32 Metal building systems	.	.	0	.	.	16,843	16,843
33 Contractors' products	478	255	28,674	14,399	.	193,552	240,688
34 Miscellaneous stamping and coating	1,522	2,677	47,594	28,455	.	112,843	210,082
41 Natural resources and extractive industries	336	12	28	0	.	1	74,515
51 Agricultural equipment	674	1,889	3,811	585	.	.	8,902
52 Non electrical machinery	212	1,185	1,985	0	.	.	6,112
53 Electrical machinery	.	.	.	22,159	.	9,502	31,661
54 Industrial packaging material	.	.	11,920	63,879	220	0	76,019
61 Pipes and tubes	342	0	982,344	16,795	.	13,010	1,012,491
62 Wire and wire products	2,939	.	5,159	626	.	158	175,153
63 Containers and closures	.	.	5,138	1,257	52,678	.	59,073
64 Appliances and utensils industries	.	.	.	36,437	.	16,989	53,426
70 Miscellaneous industries	1,653	.	.	.	.	.	1,993
<b>Total domestic shipments</b>	<b>39,363</b>	<b>248,572</b>	<b>2,540,672</b>	<b>525,112</b>	<b>66,484</b>	<b>977,562</b>	<b>5,379,259</b>
<b>Total domestic alloy shipments</b>	<b>1,246</b>	<b>0</b>	.	<b>0</b>	.	.	<b>132,935</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	44,977	124,086	567,470	x	71,716	x	1,922,049
82 Exports to other countries (excluding United States)	.	8,288	35,421	x	7,550	x	310,730
<b>Total disposition</b>	<b>84,340</b>	<b>380,946</b>	<b>3,143,563</b>	<b>x</b>	<b>145,750</b>	<b>1,246,652</b>	<b>7,612,038</b>
<b>Total alloy shipments</b>	<b>1,246</b>	<b>0</b>	.	<b>0</b>	.	.	<b>227,157</b>
Producers interchange, for sale	.	.	34,464	x	.	.	493,411
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	21,715	56,827	29,796	.	0	129,911

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

	June		Year-to-date	
	2006	2007	2006	2007
metric tonnes				
Production of pig iron	765,739	747,809	4,389,676	4,410,331

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

	June		Year-to-date	
	2006	2007	2006	2007
	metric tonnes			
Pig iron including pre-reduced iron	797,720	768,869	4,570,951	4,567,311
<b>Scrap</b>				
Own make	179,634	172,658	1,039,737	999,870
Purchased	551,982	575,285	3,136,792	3,350,550
<b>Total, pig iron and scrap products</b>	<b>1,529,336</b>	<b>1,516,813</b>	<b>8,747,480</b>	<b>8,917,732</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>June</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	557,155	555,170	87,727	100,840
Basic oxygen furnace	837,316	805,228	31,086	70,733
<b>Steel, primary forms - Total</b>	<b>1,394,471</b>	<b>1,360,398</b>	<b>118,813</b>	<b>171,573</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,375,653	1,343,524	114,982	166,917

**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	3,274,088	3,356,337	x	540,480
Basic oxygen furnace	4,739,291	4,746,480	x	218,606
<b>Steel, primary forms - Total</b>	<b>8,013,379</b>	<b>8,102,817</b>	<b>x</b>	<b>759,086</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	7,910,099	8,009,189	x	732,243

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

	Production	Shipments for sale		Total shipments
		Domestic <sup>1</sup> shipments	Exports <sup>2</sup>	
metric tonnes				
<b>June</b>				
<b>Total, pipe and tubing</b>	<b>231,399</b>	<b>96,730</b>	<b>133,494</b>	<b>230,224</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	489	1,405	21	1,426
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	5,628	3,747	3,074	6,821
over 16" (40.64 cm) outside diameter	50,734	7,116	48,957	56,073
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	23,650	11,804	12,415	24,219
over 16" (40.64 cm) periphery	59,194	17,605	37,474	55,079
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	3,540	1,066	2,151	3,217
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,030	1,092	535	1,627
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	1,266	347	694	1,041
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,237	1,215	30	1,245
over 16" (40.64 cm) outside diameter	2,530	497	155	652
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	32,210	18,758	8,956	27,714
Mechanical tubing, welded, produced from cold rolled	16,639	5,820	2,844	8,664
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	27,172	21,404	12,715	34,119
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	5,332	4,091	2,317	6,408
<b>Other tubular products</b>	<b>748</b>	<b>763</b>	<b>1,156</b>	<b>1,919</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 2007**

	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>1,403,294</b>	<b>765,114</b>	<b>698,244</b>	<b>1,463,358</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	14,478	17,094	144	17,238
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	23,844	25,716	6,473	32,189
over 16" (40.64 cm) outside diameter	308,575	90,989	251,079	342,068
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	131,304	70,846	64,691	135,537
over 16" (40.64 cm) periphery	306,334	97,560	203,191	300,751
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	27,366	14,481	16,396	30,877
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	8,825	12,723	5,637	18,360
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	16,456	4,432	1,270	5,702
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	16,851	9,729	182	9,911
over 16" (40.64 cm) outside diameter	15,268	7,666	1,365	9,031
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	175,381	114,741	50,543	165,284
Mechanical tubing, welded, produced from cold rolled	92,970	37,158	20,476	57,634
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	226,956	x	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	33,346	44,942	x	x
<b>Other tubular products</b>	5,340	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 1, monthly**

	Shipments				Production
	2006	2007			
		Total shipments	Domestic shipments	Exports <sup>2</sup>	
metric tonnes					
<b>June</b>					
Barbed wire	x	x	x	x	.
Uncoated steel wire	19,517	17,847	10,326	7,521	.
Galvanized steel wire	15,059	13,622	6,396	7,226	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	1,073	895	x	x	965
Wire mesh, bright or uncoated and galvanized	4,692	4,730	x	x	4,660
Wire rope	3,691	2,555	x	x	2,679
Nails and staples	x	5,450	2,756	2,694	x
Wire roofing nails of a length of 25 mm or more, iron or steel	5,443	5,316	x	x	3,963
Staples of iron or steel	x	134	x	x	x
All other wire products	x	x	x	x	x
<b>Grand total</b>	<b>52,899</b>	<b>47,695</b>	<b>28,281</b>	<b>19,414</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 1, 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	119,443	106,271	60,264	46,007	.
Galvanized steel wire	83,873	79,189	33,699	45,490	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	6,474	x	x	x	x
Wire mesh, bright or uncoated and galvanized	24,236	27,522	x	x	27,890
Wire rope	x	19,408	x	x	18,656
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	30,027	27,099	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>304,861</b>	<b>283,217</b>	<b>164,646</b>	<b>118,571</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

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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) ).