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# Steel, Tubular Products and Steel Wire

March 2007



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Statistics Canada  
Manufacturing, Construction and Energy Division

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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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### March 2007

- Monthly production of primary steel and pig iron rose 14.2% in March 2007 to 1,431,814 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products jumped 18.6% to 1,419,754 metric tonnes.
- Between February 2007 and March 2007, production of steel pipe and tubing climbed 20.4% to 267,171 metric tonnes, largely fuelled by increased production of line pipe and hollow structural sections.
- Total shipments of steel wire and specified wire products grew 18.0% to 49,922 metric tonnes in March 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>March</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	225	3,403	8,442	6,988	5,649	25,713	5,030	.
21 Motor vehicles and parts	..	.	.	.	.	18,380	130	.
22 Railway operating	.	.	.	.	.	..	.	.
23 Railroad cars and locomotives	.	504	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	..	616	2,048	3,437	31,114	18,448	..	.
32 Metal building systems	.	.	.	.	..	..	.	.
33 Contractors' products	.	.	..	.	170	230	33	.
34 Miscellaneous stamping and coating	..	..	432	283	.	2,607	.	.
41 Natural resources and extractive industries	.	.	..	.	1,306	10,817	..	.
51 Agricultural equipment	.	..	..	4	.	793	.	.
52 Non electrical machinery	.	..	..	..	.	295	..	.
53 Electrical machinery	.	.	.	.	.	..	.	.
54 Industrial packaging material	.	.	.	.	.	..	.	.
61 Pipes and tubes	.	.	.	.	.	..	.	.
62 Wire and wire products	107	.	.	.	..	984	26,566	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	..	.	.	.
<b>Total domestic shipments</b>	<b>332</b>	<b>4,523</b>	<b>10,922</b>	<b>10,712</b>	<b>38,239</b>	<b>78,267</b>	<b>31,759</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	.	.	.	.	.	26,111	..	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	2,853	12,783	8,526	4,085	46,667	46,048	.
82 Exports to other countries (excluding United States)	26,092	..	93	.	..	20,265	1,667	..
<b>Total disposition</b>	<b>x</b>	<b>7,376</b>	<b>23,798</b>	<b>19,238</b>	<b>42,324</b>	<b>145,199</b>	<b>79,474</b>	<b>0</b>
<b>Total alloy shipments</b>	.	.	.	.	.	39,339	..	.
Producers interchange, for sale	x	.	..	.	.	2,534	24	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	..	.	.
Imports by producers (including conversion)	..	.	.	.	.	.	..	.

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>March</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	3,354	38,133	182,710	50,916	2,155	55,773	388,491
21 Motor vehicles and parts	2,259	..	78,033	15,300	.	62,576	176,678
22 Railway operating	.	..	.	.	.	.	..
23 Railroad cars and locomotives	.	591	..	.	.	.	1,095
24 Shipbuilding	.	.	.	.	.	.	..
31 Steel fabrication	80	4,913	4,911	..	.	439	66,006
32 Metal building systems	.	..	..	.	.	3,413	3,413
33 Contractors' products	84	..	3,990	1,990	.	38,031	44,528
34 Miscellaneous stamping and coating	240	378	8,919	4,938	.	21,317	39,114
41 Natural resources and extractive industries	83	..	12,694	228	.	1,121	26,249
51 Agricultural equipment	135	627	1,110	196	.	.	2,865
52 Non electrical machinery	27	123	486	..	.	.	931
53 Electrical machinery	.	.	.	4,139	.	1,360	5,499
54 Industrial packaging material	.	.	1,479	10,850	64	..	12,393
61 Pipes and tubes	47	..	177,146	2,137	.	1,333	180,663
62 Wire and wire products	487	.	454	118	.	..	28,716
63 Containers and closures	.	.	1,328	456	9,429	.	11,213
64 Appliances and utensils industries	.	.	.	5,289	.	2,863	8,152
70 Miscellaneous industries	374	.	.	.	.	.	374
<b>Total domestic shipments</b>	<b>7,170</b>	<b>44,765</b>	<b>473,260</b>	<b>96,557</b>	<b>11,648</b>	<b>188,226</b>	<b>996,380</b>
<b>Total domestic alloy shipments</b>	<b>156</b>	<b>..</b>	<b>.</b>	<b>..</b>	<b>.</b>	<b>.</b>	<b>26,267</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	8,291	22,637	119,385	x	10,651	41,528	351,238
82 Exports to other countries (excluding United States)	.	1,169	8,314	2,439	1,848	10,249	72,136
<b>Total disposition</b>	<b>15,461</b>	<b>68,571</b>	<b>600,959</b>	<b>x</b>	<b>24,147</b>	<b>240,003</b>	<b>1,419,754</b>
<b>Total alloy shipments</b>	<b>156</b>	<b>..</b>	<b>.</b>	<b>..</b>	<b>.</b>	<b>.</b>	<b>39,495</b>
Producers interchange, for sale	.	.	1,412	x	.	.	72,376
Exports for conversion and return <sup>2</sup>	.	.	..	..	.	..	0
Imports by producers (including conversion)	.	3,812	2,322	..	.	..	6,134

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	567	11,631	30,548	25,438	10,675	66,454	..	.
21 Motor vehicles and parts	..	.	.	.	.	55,442	657	.
22 Railway operating	..	.	.	.	.	..	.	.
23 Railroad cars and locomotives	.	1,610	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	..	2,236	5,361	12,436	84,857	50,224	..	.
32 Metal building systems	.	.	.	.	..	..	.	.
33 Contractors' products	.	.	..	.	307	879	208	.
34 Miscellaneous stamping and coating	..	..	2,099	1,083	.	5,780	.	.
41 Natural resources and extractive industries	.	.	..	.	3,729	34,238	..	.
51 Agricultural equipment	.	..	..	71	.	1,176	.	.
52 Non electrical machinery	.	..	..	..	.	1,352	..	.
53 Electrical machinery	.	.	.	.	.	..	.	.
54 Industrial packaging material	.	.	.	.	.	..	.	.
61 Pipes and tubes	.	.	.	.	.	..	.	.
62 Wire and wire products	373	.	.	.	..	6,564	66,976	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	..	.	.	.
<b>Total domestic shipments</b>	<b>1,473</b>	<b>15,513</b>	<b>38,008</b>	<b>39,028</b>	<b>99,568</b>	<b>222,109</b>	<b>72,944</b>	<b>..</b>
<b>Total domestic alloy shipments</b>	.	.	.	.	.	<b>74,980</b>	..	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	8,646	40,849	28,979	5,869	121,885	118,883	.
82 Exports to other countries (excluding United States)	x	..	426	.	..	48,676	2,393	..
<b>Total disposition</b>	<b>x</b>	<b>24,159</b>	<b>79,283</b>	<b>68,007</b>	<b>105,437</b>	<b>392,670</b>	<b>194,220</b>	<b>..</b>
<b>Total alloy shipments</b>	.	.	.	.	.	<b>116,175</b>	..	.
Producers interchange, for sale	x	.	..	.	.	7,227	114	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	..	.	.
Imports by producers (including conversion)	..	.	.	.	.	.	..	.

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	9,276	104,415	523,980	142,385	8,323	140,888	1,079,683
21 Motor vehicles and parts	6,462	..	218,627	45,330	.	155,234	482,285
22 Railway operating	.	..	.	.	.	.	..
23 Railroad cars and locomotives	.	4,360	..	.	.	.	5,970
24 Shipbuilding	.	.	.	.	.	.	..
31 Steel fabrication	259	14,546	11,061	..	.	1,108	182,088
32 Metal building systems	.	..	..	.	.	7,554	7,554
33 Contractors' products	252	..	13,316	6,728	.	87,797	109,593
34 Miscellaneous stamping and coating	749	..	23,485	11,844	.	49,632	96,044
41 Natural resources and extractive industries	201	..	..	..	.	1,122	52,227
51 Agricultural equipment	316	991	2,040	358	.	.	4,952
52 Non electrical machinery	102	247	..	..	.	.	2,507
53 Electrical machinery	.	.	.	12,167	.	4,695	16,862
54 Industrial packaging material	.	.	5,959	31,800	..	..	37,894
61 Pipes and tubes	..	..	495,292	8,777	.	4,415	508,539
62 Wire and wire products	1,558	.	1,720	313	.	..	77,521
63 Containers and closures	.	.	1,861	566	21,358	.	23,785
64 Appliances and utensils industries	.	.	.	17,241	.	8,142	25,383
70 Miscellaneous industries	834	.	.	.	.	.	834
<b>Total domestic shipments</b>	<b>20,064</b>	<b>126,049</b>	<b>1,310,808</b>	<b>277,737</b>	<b>29,816</b>	<b>460,604</b>	<b>2,713,721</b>
<b>Total domestic alloy shipments</b>	<b>428</b>	<b>..</b>	<b>.</b>	<b>..</b>	<b>.</b>	<b>.</b>	<b>75,408</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	24,107	62,160	300,170	x	29,494	102,557	975,998
82 Exports to other countries (excluding United States)	.	2,641	15,334	x	4,377	30,556	156,504
<b>Total disposition</b>	<b>44,171</b>	<b>190,850</b>	<b>1,626,312</b>	<b>x</b>	<b>63,687</b>	<b>593,717</b>	<b>3,846,223</b>
<b>Total alloy shipments</b>	<b>428</b>	<b>..</b>	<b>.</b>	<b>..</b>	<b>.</b>	<b>.</b>	<b>116,603</b>
Producers interchange, for sale	.	.	4,602	x	.	.	184,532
Exports for conversion and return <sup>2</sup>	.	.	..	..	.	..	..
Imports by producers (including conversion)	.	7,505	9,705	..	.	..	18,554

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	
	2006	2007	2006	2007
metric tonnes				
Production of pig iron	731,776	767,756	2,133,975	2,181,146

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

	March		Year-to-date	
	2006	2007	2006	2007
	metric tonnes			
Pig iron including pre-reduced iron	781,048	813,922	2,221,585	2,280,570
<b>Scrap</b>				
Own make	172,577	168,739	509,250	484,898
Purchased	524,603	592,901	1,527,380	1,695,400
<b>Total, pig iron and scrap products</b>	<b>1,478,228</b>	<b>1,575,562</b>	<b>4,258,215</b>	<b>4,460,868</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>March</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	568,776	594,206	57,022	125,367
Basic oxygen furnace	804,627	837,608	15,605	5,723
<b>Steel, primary forms - Total</b>	<b>1,373,403</b>	<b>1,431,814</b>	<b>72,627</b>	<b>131,090</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,356,021	1,418,016	68,276	126,660

**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	1,609,962	1,667,090	x	253,148
Basic oxygen furnace	2,299,533	2,384,555	x	64,933
<b>Steel, primary forms - Total</b>	<b>3,909,495</b>	<b>4,051,645</b>	<b>x</b>	<b>318,081</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	3,860,876	4,011,250	x	304,706

**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		
March				
Total, pipe and tubing	267,171	131,310	103,049	234,359
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	2,211	5,401	21	5,422
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	5,469	3,579	436	4,015
over 16" (40.64 cm) outside diameter	79,328	9,745	25,216	34,961
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	24,650	15,502	12,280	27,782
over 16" (40.64 cm) periphery	60,189	19,357	39,840	59,197
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	4,055	1,462	2,592	4,054
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	991	649	897	1,546
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	1,147	1,155	179	1,334
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	720	1,811	7	1,818
over 16" (40.64 cm) outside diameter	1,802	1,468	93	1,561
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	29,885	19,405	8,653	28,058
Mechanical tubing, welded, produced from cold rolled	16,182	6,117	3,704	9,821
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	34,010	37,755	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	5,311	6,940	441	7,381
Other tubular products	1,221	964	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	721,597	431,116	268,344	699,460
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	13,399	12,805	62	12,867
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	12,348	17,724	2,727	20,451
over 16" (40.64 cm) outside diameter	174,517	56,436	57,051	113,487
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	60,624	34,918	30,280	65,198
over 16" (40.64 cm) periphery	146,947	46,588	97,286	143,874
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	14,540	6,380	8,032	14,412
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	3,531	1,924	3,047	4,971
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	3,560	2,345	417	2,762
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	2,438	4,987	78	5,065
over 16" (40.64 cm) outside diameter	7,040	3,994	918	4,912
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	81,650	55,884	24,526	80,410
Mechanical tubing, welded, produced from cold rolled	45,485	18,248	10,519	28,767
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	131,433	x	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	21,748	24,355	1,635	25,990
Other tubular products	2,337	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				
March					
Barbed wire	x	x	x	x	.
Uncoated steel wire	21,876	18,291	10,392	7,899	.
Galvanized steel wire	14,600	13,202	5,529	7,673	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	1,286	849	x	x	791
Wire mesh, bright or uncoated and galvanized	3,736	4,099	x	x	4,337
Wire rope	4,088	3,739	x	x	3,841
Nails and staples	x	4,456	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	5,424	4,313	x	x	x
Staples of iron or steel	x	x	x	..	x
All other wire products	x	x	x	3	x
Grand total	55,853	49,922	29,399	20,523	.

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	61,209	51,758	29,190	22,568	.
Galvanized steel wire	39,773	37,867	15,581	22,286	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	2,942	x	x	x	x
Wire mesh, bright or uncoated and galvanized	10,231	11,557	x	x	12,235
Wire rope	x	10,570	x	x	10,684
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	15,398	12,595	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
Grand total	150,111	136,688	78,589	58,099	.

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) ).