

Catalogue no. 41-019-X

# Steel, Tubular Products and Steel Wire

November 2008



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January 2009

Catalogue no. 41-019-X, vol. 4, no. 11

ISSN 1712-980X

Frequency: Monthly

Ottawa

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

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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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### November 2008

- Monthly production of primary steel and pig iron decreased 42% in November 2008 to 616,547 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 23.6% to 828,639 metric tonnes.
- Between October 2008 and November 2008, production of steel pipe and tubing decreased 5.4% to 203,688 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 16.3% to 35,869 metric tonnes in November 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>November</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	x	x	3,419	3,416	923	7,703	0	.
21 Motor vehicles and parts	0	.	81	3	.	x	37	.
22 Railway operating	0	.	.	.	0	0	0	.
23 Railroad cars and locomotives	.	x	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	x	1,793	2,747	31,806	x	0	.
32 Metal building systems	.	0	.	.	0	0	.	.
33 Contractors' products	.	0	0	.	217	x	110	.
34 Miscellaneous stamping and coating	0	0	159	40	.	x	.	.
41 Natural resources and extractive industries	.	.	70	0	1,090	x	0	.
51 Agricultural equipment	.	0	0	0	0	x	.	.
52 Non electrical machinery	.	0	1,813	18	.	x	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	402	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	0	.	.	0	901	.	.
<b>Total domestic shipments</b>	<b>x</b>	<b>x</b>	<b>7,335</b>	<b>6,224</b>	<b>34,036</b>	<b>32,145</b>	<b>x</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>7,866</b>	<b>0</b>	<b>.</b>
81 Exports to the United States	x	x	4,650	3,175	0	x	x	.
82 Exports to other countries (excluding United States)	0	0	0	.	0	x	0	0
<b>Total disposition</b>	<b>11,712</b>	<b>x</b>	<b>11,985</b>	<b>9,399</b>	<b>34,036</b>	<b>62,549</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>18,069</b>	<b>0</b>	<b>.</b>
Producers interchange, for sale	x	.	0	.	.	391	0	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	0	.	.	.	.	.	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>2</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>November</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	2,147	x	82,719	x	1,189	27,700	176,288
21 Motor vehicles and parts	x	0	32,128	x	0	37,984	85,024
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	x	0	.	.	.	x
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	x	x	0	.	4,323	50,899
32 Metal building systems	.	.	x	.	.	3,062	x
33 Contractors' products	x	x	2,539	1,688	.	22,831	27,466
34 Miscellaneous stamping and coating	x	16	870	4,254	.	22,307	28,584
41 Natural resources and extractive industries	112	0	0	0	.	0	x
51 Agricultural equipment	168	x	0	0	.	.	1,612
52 Non electrical machinery	0	x	53	0	.	0	9,825
53 Electrical machinery	.	.	0	1,395	.	697	2,092
54 Industrial packaging material	.	.	0	x	0	0	x
61 Pipes and tubes	0	0	x	x	.	468	146,975
62 Wire and wire products	x	.	x	122	.	50	16,977
63 Containers and closures	0	.	x	x	6,366	.	x
64 Appliances and utensils industries	.	.	.	4,718	.	2,031	6,749
70 Miscellaneous industries	x	x	x	.	.	.	x
<b>Total domestic shipments</b>	<b>4,571</b>	<b>30,409</b>	<b>269,398</b>	<b>x</b>	<b>7,555</b>	<b>121,453</b>	<b>578,626</b>
<b>Total domestic alloy shipments</b>	<b>163</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>8,029</b>
81 Exports to the United States	801	x	66,326	x	10,485	38,676	197,051
82 Exports to other countries (excluding United States)	0	x	29,792	3,858	479	6,904	52,962
<b>Total disposition</b>	<b>5,372</b>	<b>x</b>	<b>365,516</b>	<b>x</b>	<b>18,519</b>	<b>167,033</b>	<b>828,639</b>
<b>Total alloy shipments</b>	<b>163</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>18,232</b>
Producers interchange, for sale	0	.	171	0	.	0	x
Exports for conversion and return	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	309	696	2,522	.	0	3,527

1. Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

2. 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	x	x	87,104	x	58,353	228,321	4,241	.
21 Motor vehicles and parts	2,399	.	81	3	.	x	477	.
22 Railway operating	0	.	.	.	21	0	0	.
23 Railroad cars and locomotives	.	x	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	x	24,788	38,068	476,820	x	1	.
32 Metal building systems	.	44	.	.	0	78	.	.
33 Contractors' products	.	0	0	.	x	x	1,487	.
34 Miscellaneous stamping and coating	0	31	5,000	x	.	x	.	.
41 Natural resources and extractive industries	.	.	227	65	x	x	0	.
51 Agricultural equipment	.	21	85	90	0	x	.	.
52 Non electrical machinery	.	22	1,835	29	.	x	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	350	.	.	.	0	x	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	0	.	.	0	x	.	.
<b>Total domestic shipments</b>	<b>x</b>	<b>x</b>	<b>119,120</b>	<b>117,171</b>	<b>x</b>	<b>682,777</b>	<b>x</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>x</b>	<b>0</b>	.
81 Exports to the United States	x	x	119,835	84,484	39	x	x	.
82 Exports to other countries (excluding United States)	x	868	1,368	.	64	x	x	0
<b>Total disposition</b>	<b>x</b>	<b>x</b>	<b>240,323</b>	<b>201,655</b>	<b>x</b>	<b>1,170,833</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>x</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	9,335	369	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	x	.	.	.	.	.	x	.

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>2</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	x	1,588,533	x	11,125	x	3,241,537
21 Motor vehicles and parts	x	0	454,548	x	0	x	1,200,243
22 Railway operating	.	0	.	.	.	.	21
23 Railroad cars and locomotives	.	x	0	.	.	.	x
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	x	x	x	.	x	825,537
32 Metal building systems	.	.	x	.	.	x	x
33 Contractors' products	x	x	x	x	.	x	x
34 Miscellaneous stamping and coating	x	x	x	x	.	x	x
41 Natural resources and extractive industries	594	x	1	0	.	327	x
51 Agricultural equipment	x	x	123	764	.	.	x
52 Non electrical machinery	0	x	2,529	0	.	55	x
53 Electrical machinery	.	.	157	20,642	.	13,388	34,187
54 Industrial packaging material	.	.	x	x	47	0	x
61 Pipes and tubes	185	x	x	x	.	x	1,865,518
62 Wire and wire products	x	.	x	1,362	.	x	285,990
63 Containers and closures	0	.	x	x	79,980	.	x
64 Appliances and utensils industries	.	.	.	66,394	.	x	x
70 Miscellaneous industries	x	x	x	.	.	.	x
<b>Total domestic shipments</b>	<b>x</b>	<b>x</b>	<b>4,011,990</b>	<b>x</b>	<b>91,152</b>	<b>x</b>	<b>8,699,947</b>
<b>Total domestic alloy shipments</b>	<b>3,055</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	12,327	x	x	x	x	x	4,468,127
82 Exports to other countries (excluding United States)	14	x	x	x	x	143,038	1,066,938
<b>Total disposition</b>	<b>x</b>	<b>x</b>	<b>5,983,846</b>	<b>x</b>	<b>227,874</b>	<b>x</b>	<b>14,235,012</b>
<b>Total alloy shipments</b>	<b>3,232</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
Producers interchange, for sale	0	.	x	x	.	5	x
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	x	x	x	.	0	174,765

1. Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

2. 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

	November		Year-to-date	
	2007	2008	2007	2008
metric tonnes				
Production of pig iron	705,754	352,116	7,836,265	8,358,914

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

	November		Year-to-date	
	2007	2008	2007	2008
	metric tonnes			
Pig iron including pre-reduced iron	682,858	320,815	8,187,506	8,124,546
<b>Scrap</b>				
Own make	157,924	96,328	1,738,649	1,403,630
Purchased	498,095	288,245	5,816,504	6,028,123
<b>Total, pig iron and scrap products</b>	<b>1,338,877</b>	<b>705,388</b>	<b>15,742,659</b>	<b>15,556,299</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>November</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	508,595	289,806	x	x
Basic oxygen furnace	715,680	326,741	x	x
<b>Steel, primary forms - Total</b>	<b>1,224,275</b>	<b>616,547</b>	<b>164,921</b>	<b>83,223</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,208,445	603,767	151,079	73,986

**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	5,897,971	5,688,725	x	x
Basic oxygen furnace	8,417,632	8,544,517	x	x
<b>Steel, primary forms - Total</b>	<b>14,315,603</b>	<b>14,233,242</b>	<b>1,628,070</b>	<b>2,445,398</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	14,146,629	14,097,977	1,546,917	2,298,167

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

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
		metric tonnes		
<b>November</b>				
<b>Total, pipe and tubing</b>	<b>203,688</b>	<b>163,634</b>	<b>60,157</b>	<b>223,791</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	2,564	0	2,564
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	10,630	13,332	0	13,332
over 16" (40.64 cm) outside diameter	44,858	41,557	5,416	46,973
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	11,517	11,056	6,403	17,459
over 16" (40.64 cm) periphery	34,194	12,558	19,413	31,971
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	2,049	788	2,235	3,023
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	126	225	172	397
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	1,276	236	32	268
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	738	40	778
over 16" (40.64 cm) outside diameter	657	134	125	259
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	12,431	9,366	3,842	13,208
Mechanical tubing, welded, produced from cold rolled	7,173	3,513	1,884	5,397
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	55,461	59,107	15,419	74,526
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	17,687	7,359	4,825	12,184
<b>Other tubular products</b>	240	1,101	351	1,452

1. Including for own use by the steel pipe and tubing industries.

**Table 2-2**  
**Steel pipe and tubing — Production and shipments, year-to-date 2008**

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
		metric tonnes		
Year-to-date				
Total, pipe and tubing	2,365,308	1,400,900	1,067,995	2,468,895
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	34,686	2,257	36,943
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	73,190	89,031	9,504	98,535
over 16" (40.64 cm) outside diameter	470,496	224,291	224,845	449,136
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	228,845	137,500	123,832	261,332
over 16" (40.64 cm) periphery	547,501	177,062	360,011	537,073
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	56,501	21,866	35,543	57,409
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	13,838	x	x	16,448
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	19,755	x	x	14,826
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	10,196
over 16" (40.64 cm) outside diameter	x	x	x	4,362
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	191,889	132,013	58,464	190,477
Mechanical tubing, welded, produced from cold rolled	100,753	43,109	29,820	72,929
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	491,556	x	x	591,220
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	106,965	x	x	102,353
Other tubular products	x	18,309	7,347	25,656

1. Including for own use by the steel pipe and tubing industries.

**Table 3-1**  
**Steel and specified wire products — Factory shipments<sup>1</sup>, monthly**

	Shipments				Production
	2007	2008			
		Total shipments	Domestic shipments	Exports	
metric tonnes					
November					
Barbed wire	x	x	x	x	.
Uncoated steel wire	17,826	10,902	5,719	5,183	.
Galvanized steel wire	14,325	9,449	3,746	5,703	.
Other coated steel wire	x	x	x	3	.
Farm fencing and wire chain link fabric	760	2,542	x	x	2,729
Wire mesh, bright or uncoated and galvanized	5,414	3,014	x	x	3,259
Wire rope	3,589	4,498	x	x	5,505
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	3,807	676	371	305	543
Staples of iron or steel	x	x	x	x	x
All other wire products	1,140	x	x	2	x
Grand total	47,316	35,869	21,811	14,058	.

1. Totals may not add due to rounding.

**Table 3-2**  
**Steel and specified wire products — Factory shipments<sup>1</sup>, year-to-date**

	Shipments				Production
	2007	2008			
		Total shipments	Domestic shipments	Exports	
	metric tonnes				
Barbed wire	x	x	x	x	.
Uncoated steel wire	193,887	183,659	97,579	86,080	.
Galvanized steel wire	144,650	141,348	55,912	85,436	.
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	51,931	56,581	x	x	58,254
Wire rope	x	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	48,218	17,947	6,520	11,427	15,056
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	51	x
Grand total	511,293	536,021	311,100	224,921	.

1. Totals may not add due to rounding.



## 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.gc.ca](mailto:manufact@statcan.gc.ca) ).