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# Steel, Tubular Products and Steel Wire

November 2010



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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 2010**

- Monthly production of primary steel and pig iron decreased 1.5% in November 2010 to 996,492 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 3.8% to 991,724 metric tonnes.
- Between October 2010 and November 2010, production of steel pipe and tubing increased 6.5% to 228,835 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 0.8% to 53,862 metric tonnes in November 2010.

## 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 2010

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	5	2,521	7,966	5,569	2,572	x	0	.
21 Motor vehicles and parts	109	0	238	39	.	4,796	0	.
22 Railway operating	0	.	.	.	0	100	0	.
23 Railroad cars and locomotives	.	732	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	227	828	2,331	39,122	x	0	.
32 Metal building systems	.	0	0	0	0	0	.	.
33 Contractors' products	.	0	0	.	337	71	215	.
34 Miscellaneous stamping and coating	0	0	236	147	.	605	.	.
41 Natural resources and extractive industries	.	361	39	0	1,272	10,326	0	.
51 Agricultural equipment	.	0	0	0	0	185	.	0
52 Non electrical machinery	.	0	87	0	.	8,284	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	1,184	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>114</b>	<b>3,841</b>	<b>9,394</b>	<b>8,086</b>	<b>43,303</b>	<b>33,644</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>1,928</b>	<b>0</b>	<b>.</b>
81 Exports to the United States	x	679	2,829	4,451	0	23,960	x	.
82 Exports to other countries (excluding United States)	x	0	83	0	0	16,112	x	0
<b>Total disposition</b>	<b>83,238</b>	<b>4,520</b>	<b>12,306</b>	<b>12,537</b>	<b>43,303</b>	<b>73,716</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>3,426</b>	<b>0</b>	<b>.</b>
Producers interchange, for sale	x	.	0	.	.	866	113	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	0	.	.	.	.	.	0	.

See notes 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 2010

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	x	20,235	181,523	20,000	2,142	25,894	277,804
21 Motor vehicles and parts	902	0	20,272	7,171	0	34,369	67,896
22 Railway operating	.	0	0	.	.	0	100
23 Railroad cars and locomotives	.	190	0	.	.	.	922
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	2,948	3,498	0	.	1,905	x
32 Metal building systems	.	.	0	.	.	2,229	2,229
33 Contractors' products	0	0	2,355	2,221	.	18,003	23,202
34 Miscellaneous stamping and coating	45	0	4,298	3,449	.	15,495	24,275
41 Natural resources and extractive industries	37	20	0	0	.	1	12,056
51 Agricultural equipment	76	173	0	0	.	0	434
52 Non electrical machinery	0	55	680	0	.	0	9,106
53 Electrical machinery	.	.	69	1,826	.	1,429	3,324
54 Industrial packaging material	.	.	0	4,871	0	0	4,871
61 Pipes and tubes	0	1,156	108,134	609	.	2,153	112,052
62 Wire and wire products	x	.	173	76	.	4	x
63 Containers and closures	0	.	0	690	290	.	980
64 Appliances and utensils industries	.	.	0	2,712	.	2,324	5,036
70 Miscellaneous industries	181	0	0	.	.	.	181
<b>Total domestic shipments</b>	<b>x</b>	<b>24,777</b>	<b>321,002</b>	<b>43,625</b>	<b>2,432</b>	<b>103,806</b>	<b>612,079</b>
<b>Total domestic alloy shipments</b>	<b>324</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>2,252</b>
81 Exports to the United States	1,051	8,400	x	15,910	16,708	30,489	276,168
82 Exports to other countries (excluding United States)	0	841	x	5,787	591	6,870	103,477
<b>Total disposition</b>	<b>x</b>	<b>34,018</b>	<b>446,710</b>	<b>65,322</b>	<b>19,731</b>	<b>141,165</b>	<b>991,724</b>
<b>Total alloy shipments</b>	<b>324</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>3,750</b>
Producers interchange, for sale	0	.	1,117	0	.	0	x
Exports for conversion and return	.	.	0	0	.	209	209
Imports by producers (including conversion)	.	24	3,691	265	.	0	3,980

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 2010

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	14	17,237	65,324	54,696	38,068	x	47	.
21 Motor vehicles and parts	1,253	0	1,499	174	.	49,767	0	.
22 Railway operating	0	.	.	.	0	342	0	.
23 Railroad cars and locomotives	.	1,984	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	5,546	10,849	24,554	418,647	x	0	.
32 Metal building systems	.	0	0	14	522	152	.	.
33 Contractors' products	.	0	0	.	7,313	x	x	.
34 Miscellaneous stamping and coating	0	0	1,901	1,006	.	5,424	.	.
41 Natural resources and extractive industries	.	1,539	100	0	10,747	121,907	0	.
51 Agricultural equipment	.	0	0	31	0	1,616	.	0
52 Non electrical machinery	.	0	16,606	0	.	80,149	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	7,402	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>1,267</b>	<b>26,306</b>	<b>96,279</b>	<b>80,475</b>	<b>475,297</b>	<b>351,884</b>	<b>x</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>46,839</b>	<b>x</b>	.
81 Exports to the United States	x	6,651	33,726	44,942	0	227,644	x	.
82 Exports to other countries (excluding United States)	x	0	331	60	0	184,586	x	0
<b>Total disposition</b>	<b>x</b>	<b>32,957</b>	<b>130,336</b>	<b>125,477</b>	<b>475,297</b>	<b>764,114</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>75,538</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	8,270	1,154	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	x	.	.	.	.	.	0	.

See notes 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 2010

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	197,603	2,013,680	202,878	15,514	308,953	3,012,360
21 Motor vehicles and parts	11,003	0	293,872	72,330	0	370,220	800,118
22 Railway operating	.	0	0	.	.	0	342
23 Railroad cars and locomotives	.	1,436	0	.	.	.	3,420
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	36,082	37,532	0	.	22,108	x
32 Metal building systems	.	.	0	.	.	22,001	22,689
33 Contractors' products	0	150	37,106	x	.	236,941	311,469
34 Miscellaneous stamping and coating	426	0	37,904	x	.	186,188	x
41 Natural resources and extractive industries	448	305	1,121	0	.	669	136,836
51 Agricultural equipment	717	3,306	0	0	.	..	5,670
52 Non electrical machinery	0	398	6,958	0	.	0	104,111
53 Electrical machinery	.	.	515	17,862	.	18,201	36,578
54 Industrial packaging material	.	.	560	46,263	0	0	46,823
61 Pipes and tubes	5	1,156	1,194,810	9,291	.	16,125	1,221,387
62 Wire and wire products	x	.	1,722	1,043	.	958	x
63 Containers and closures	0	.	382	8,851	14,754	.	23,987
64 Appliances and utensils industries	.	.	21	30,477	.	24,070	54,568
70 Miscellaneous industries	1,773	0	0	.	.	.	1,773
<b>Total domestic shipments</b>	<b>x</b>	<b>240,436</b>	<b>3,626,183</b>	<b>453,344</b>	<b>30,268</b>	<b>1,206,434</b>	<b>6,828,168</b>
<b>Total domestic alloy shipments</b>	<b>3,385</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	12,779	117,639	x	169,740	176,903	377,394	3,850,905
82 Exports to other countries (excluding United States)	0	29,939	x	12,956	11,305	x	701,567
<b>Total disposition</b>	<b>x</b>	<b>388,014</b>	<b>4,710,736</b>	<b>636,040</b>	<b>218,476</b>	<b>x</b>	<b>11,380,640</b>
<b>Total alloy shipments</b>	<b>3,534</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>79,072</b>
Producers interchange, for sale	0	.	2,227	0	.	0	x
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	1,248	1,248
Imports by producers (including conversion)	.	4,030	x	23,661	.	0	x

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	
	2009	2010	2009	2010
metric tonnes				
Production of pig iron	555,384	571,804	x	6,985,053

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

	November		Year-to-date	
	2009	2010	2009	2010
	metric tonnes			
Pig iron including pre-reduced iron	583,912	598,324	x	6,920,243
<b>Scrap</b>				
Own make	112,544	106,797	1,123,400	1,311,962
Purchased	438,830	409,495	x	5,126,895
<b>Total, pig iron and scrap products</b>	<b>1,135,286</b>	<b>1,114,616</b>	<b>9,358,613</b>	<b>13,359,100</b>

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

	Production		Shipments	
	2009	2010	2009	2010
	metric tonnes			
<b>November</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	459,207	433,865	x	x
Basic oxygen furnace	556,895	562,627	x	x
<b>Steel, primary forms - Total</b>	<b>1,016,102</b>	<b>996,492</b>	<b>214,665</b>	<b>189,117</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,005,790	983,764	205,089	179,829

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

	Production		Shipments	
	2009	2010	2009	2010
	metric tonnes			
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	x	4,937,027	x	x
Basic oxygen furnace	x	6,941,270	x	x
<b>Steel, primary forms - Total</b>	<b>8,302,300</b>	<b>11,878,297</b>	<b>x</b>	<b>2,972,619</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	8,065,660	11,762,126	x	2,872,670

**Table 2-1**  
**Steel pipe and tubing — Production and shipments, monthly 2010**

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
		metric tonnes		
<b>November</b>				
<b>Total, pipe and tubing</b>	<b>228,835</b>	<b>173,135</b>	<b>66,127</b>	<b>239,262</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	3,471	3,301	0	3,301
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	15,312	x	x	19,287
over 16" (40.64 cm) outside diameter	36,307	x	3,188	x
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	x	x	x	11,262
over 16" (40.64 cm) periphery	x	x	x	x
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	3,457	2,623	730	3,353
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	830	498	217	715
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	389	17	406
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,781	2,867	17	2,884
over 16" (40.64 cm) outside diameter	1,493	991	0	991
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	15,247	16,586	x	x
Mechanical tubing, welded, produced from cold rolled	9,699	4,689	1,527	6,216
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	64,792	51,194	20,347	71,541
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	17,875	11,846	6,944	18,790
<b>Other tubular products</b>	x	2,105	904	3,009

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 2010**

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
		metric tonnes		
Year-to-date				
Total, pipe and tubing	2,104,042	1,366,398	837,377	2,203,774
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	18,722	4	18,726
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	113,631
over 16" (40.64 cm) outside diameter	283,432	x	x	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	x
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	25,852	18,468	10,067	28,535
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	8,919	1,564	10,483
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	7,241	970	8,211
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	18,433	x	x	22,946
over 16" (40.64 cm) outside diameter	x	x	x	7,671
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	x	x	x	x
Mechanical tubing, welded, produced from cold rolled	111,144	52,942	16,649	69,591
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	579,674	400,823	206,816	607,639
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	187,409	90,319	88,400	178,718
Other tubular products	x	x	x	25,698

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
	2009	2010			
		Total shipments	Domestic shipments	Exports	
metric tonnes					
November					
Barbed wire	x	299	x	x	.
Uncoated steel wire	14,715	18,737	9,005	9,732	.
Galvanized steel wire	5,958	14,966	8,141	6,825	.
Other coated steel wire	x	x	x	1	.
Farm fencing and wire chain link fabric	623	x	x	x	x
Wire mesh, bright or uncoated and galvanized	3,170	3,898	x	x	3,977
Wire rope	x	x	x	x	x
Nails and staples	1,859	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	x	1,732	871	861	1,939
Staples of iron or steel	x	x	x	x	x
All other wire products	x	1,149	1,148	1	x
Grand total	30,649	53,862	31,367	22,495	.

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
	2009	2010			
		Total shipments	Domestic shipments	Exports	
	metric tonnes				
Barbed wire	x	x	x	x	.
Uncoated steel wire	151,693	204,836	101,753	103,083	.
Galvanized steel wire	87,706	121,216	60,710	60,506	.
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	38,132	38,327	x	x	41,317
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	x	28,904	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	37	x
Grand total	395,496	511,733	292,828	218,905	.

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.

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 301-0006. Specific enquiries should be directed to: The Dissemination and Frame Services section, Manufacturing and Energy Division, Statistics Canada, Ottawa, Ontario, K1A 0T6 (Telephone: 1-866-873-8789 or 613-951-9497; Fax line: 613-951-3877; Internet: [manufact@statcan.gc.ca](mailto:manufact@statcan.gc.ca) ).