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# Steel, Tubular Products and Steel Wire

October 2011



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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
- \* significantly different from reference category ( $p < 0.05$ )

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## Highlights

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### October 2011

- Monthly production of primary steel and pig iron increased 1.7% in October 2011 to 1,092,794 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 11.3% to 981,530 metric tonnes.
- Between September 2011 and October 2011, production of steel pipe and tubing increased 7.3% to 216,102 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 6.5% to 54,037 metric tonnes in October 2011.

## 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 2011

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>October</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	15	586	5,820	4,856	4,184	x	0	.
21 Motor vehicles and parts	299	0	272	18	.	5,103	0	.
22 Railway operating	0	.	.	.	0	29	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	45	1,754	2,542	54,931	x	0	.
32 Metal building systems	.	0	0	0	252	0	.	.
33 Contractors' products	.	0	0	.	376	609	179	.
34 Miscellaneous stamping and coating	0	0	179	181	.	0	.	.
41 Natural resources and extractive industries	.	25	0	0	836	7,014	0	.
51 Agricultural equipment	.	0	0	5	0	282	.	0
52 Non electrical machinery	.	0	2,190	0	.	8,677	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	323	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>314</b>	<b>656</b>	<b>10,215</b>	<b>7,602</b>	<b>60,579</b>	<b>28,636</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>6,287</b>	<b>x</b>	<b>.</b>
81 Exports to the United States	x	477	3,873	5,526	0	19,008	x	.
82 Exports to other countries (excluding United States)	x	0	139	0	0	11,383	x	0
<b>Total disposition</b>	<b>132,444</b>	<b>1,133</b>	<b>14,227</b>	<b>13,128</b>	<b>60,579</b>	<b>59,027</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>10,141</b>	<b>x</b>	<b>.</b>
Producers interchange, for sale	x	.	0	.	.	148	35	.
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 2011

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>October</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	x	18,632	106,528	17,109	2,787	34,536	202,929
21 Motor vehicles and parts	788	0	30,838	7,088	0	37,370	81,776
22 Railway operating	.	0	0	.	.	0	29
23 Railroad cars and locomotives	.	547	0	.	.	.	547
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	5,637	3,850	0	.	1,505	x
32 Metal building systems	.	.	0	.	.	1,705	1,957
33 Contractors' products	0	180	548	1,206	.	18,096	21,194
34 Miscellaneous stamping and coating	20	0	5,120	3,121	.	16,647	25,268
41 Natural resources and extractive industries	0	0	0	0	.	2	7,877
51 Agricultural equipment	31	90	0	0	.	0	408
52 Non electrical machinery	120	0	466	0	.	0	11,453
53 Electrical machinery	.	.	58	461	.	1,431	1,950
54 Industrial packaging material	.	.	0	3,241	0	0	3,241
61 Pipes and tubes	0	0	100,155	557	.	1,025	101,737
62 Wire and wire products	x	.	111	118	.	40	x
63 Containers and closures	0	.	0	759	1,134	.	1,893
64 Appliances and utensils industries	.	.	0	1,592	.	983	2,575
70 Miscellaneous industries	181	0	0	.	.	.	181
<b>Total domestic shipments</b>	<b>x</b>	<b>25,086</b>	<b>247,674</b>	<b>35,252</b>	<b>3,921</b>	<b>113,340</b>	<b>550,974</b>
<b>Total domestic alloy shipments</b>	<b>196</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
81 Exports to the United States	1,389	16,018	x	15,156	14,239	35,285	351,688
82 Exports to other countries (excluding United States)	14	4,637	x	1,280	1,018	10,609	78,868
<b>Total disposition</b>	<b>x</b>	<b>45,741</b>	<b>374,538</b>	<b>51,688</b>	<b>19,178</b>	<b>159,234</b>	<b>981,530</b>
<b>Total alloy shipments</b>	<b>883</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	0	2,985	266	.	0	3,251

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 2011

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	27	15,066	58,332	55,024	30,024	x	0	.
21 Motor vehicles and parts	1,832	7	1,798	159	.	56,452	0	.
22 Railway operating	0	.	.	.	0	442	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	560	10,429	21,905	359,184	x	0	.
32 Metal building systems	.	0	0	0	827	81	.	.
33 Contractors' products	.	0	0	.	9,572	3,358	1,362	.
34 Miscellaneous stamping and coating	0	16	2,870	2,892	.	6,061	.	.
41 Natural resources and extractive industries	.	1,571	79	14	12,920	106,386	0	.
51 Agricultural equipment	.	0	0	18	0	2,408	.	59
52 Non electrical machinery	.	0	17,026	58	.	79,228	0	.
53 Electrical machinery	.	.	.	.	.	222	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	385	.	.	.	0	5,448	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>2,244</b>	<b>17,220</b>	<b>90,534</b>	<b>80,070</b>	<b>412,527</b>	<b>354,036</b>	<b>x</b>	<b>59</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>55,404</b>	<b>x</b>	.
81 Exports to the United States	x	9,046	37,783	47,760	35	226,636	x	.
82 Exports to other countries (excluding United States)	x	0	917	22	0	211,785	x	0
<b>Total disposition</b>	<b>894,011</b>	<b>26,266</b>	<b>129,234</b>	<b>127,852</b>	<b>412,562</b>	<b>792,457</b>	<b>x</b>	<b>59</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>96,407</b>	<b>x</b>	.
Producers interchange, for sale	x	.	0	.	.	4,971	456	.
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 2011

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	167,928	2,048,939	199,663	16,279	317,297	3,014,143
21 Motor vehicles and parts	6,976	0	297,263	68,773	0	348,312	781,572
22 Railway operating	.	0	0	.	.	0	442
23 Railroad cars and locomotives	.	6,720	0	.	.	.	6,720
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	40,787	30,688	0	.	19,096	x
32 Metal building systems	.	.	0	.	.	22,464	23,372
33 Contractors' products	0	457	50,147	19,596	.	208,724	293,216
34 Miscellaneous stamping and coating	271	0	53,894	36,142	.	165,274	267,420
41 Natural resources and extractive industries	551	17	3	0	.	25	121,566
51 Agricultural equipment	528	4,322	0	0	.	0	7,335
52 Non electrical machinery	120	544	7,694	0	.	0	104,670
53 Electrical machinery	.	.	1,503	15,290	.	16,475	33,490
54 Industrial packaging material	.	.	231	45,055	0	0	45,286
61 Pipes and tubes	0	0	968,715	5,495	.	12,485	986,695
62 Wire and wire products	x	.	1,432	820	.	680	x
63 Containers and closures	0	.	804	7,724	4,948	.	13,476
64 Appliances and utensils industries	.	.	0	15,803	.	11,325	27,128
70 Miscellaneous industries	1,646	0	0	.	.	.	1,646
<b>Total domestic shipments</b>	<b>x</b>	<b>220,775</b>	<b>3,461,313</b>	<b>414,361</b>	<b>21,227</b>	<b>1,122,157</b>	<b>6,403,271</b>
<b>Total domestic alloy shipments</b>	<b>2,525</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	12,354	128,948	x	147,309	162,509	338,617	3,135,257
82 Exports to other countries (excluding United States)	14	29,606	x	16,067	6,727	96,766	664,621
<b>Total disposition</b>	<b>x</b>	<b>379,329</b>	<b>4,534,357</b>	<b>577,737</b>	<b>190,463</b>	<b>1,557,540</b>	<b>10,203,149</b>
<b>Total alloy shipments</b>	<b>7,208</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
Producers interchange, for sale	0	.	177	0	.	0	x
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	73	73
Imports by producers (including conversion)	.	17,331	20,105	9,397	.	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

	October		Year-to-date	
	2010	2011	2010	2011
metric tonnes				
Production of pig iron	560,861	634,694	6,413,249	6,151,405

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

	October		Year-to-date	
	2010	2011	2010	2011
	metric tonnes			
Pig iron including pre-reduced iron	565,761	657,623	6,321,919	6,432,491
<b>Scrap</b>				
Own make	139,730	127,788	1,205,165	1,183,002
Purchased	460,453	446,213	4,717,400	4,655,259
<b>Total, pig iron and scrap products</b>	<b>1,165,944</b>	<b>1,231,624</b>	<b>12,244,484</b>	<b>12,270,752</b>

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

	Production		Shipments	
	2010	2011	2010	2011
	metric tonnes			
<b>October</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	455,097	422,320	x	x
Basic oxygen furnace	556,512	670,474	x	x
<b>Steel, primary forms - Total</b>	<b>1,011,609</b>	<b>1,092,794</b>	<b>214,663</b>	<b>162,602</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	992,702	1,074,053	200,155	148,274

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

	Production		Shipments	
	2010	2011	2010	2011
	metric tonnes			
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	4,503,162	4,619,190	x	x
Basic oxygen furnace	6,378,643	6,290,084	x	x
<b>Steel, primary forms - Total</b>	<b>10,881,805</b>	<b>10,909,274</b>	<b>2,783,502</b>	<b>1,629,955</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	10,778,362	10,761,390	2,692,841	1,520,410

**Table 2-1**  
**Steel pipe and tubing — Production and shipments, monthly 2011**

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
	metric tonnes			
October				
Total, pipe and tubing	216,102	155,165	79,824	234,988
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	3,914	3,844	0	3,844
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	17,236
over 16" (40.64 cm) outside diameter	x	x	x	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	11,549
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	2,248	1,729	980	2,709
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	735	x	x	x
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	495	867	36	903
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	3,043	1,297	534	1,831
over 16" (40.64 cm) outside diameter	909	x	0	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	20,778	13,062	7,207	20,270
Mechanical tubing, welded, produced from cold rolled	5,725	4,427	1,708	6,135
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	58,003	44,086	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	12,128	16,467	x	x
Other tubular products	x	1,244	584	1,827

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 2011**

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
	metric tonnes			
Year-to-date				
Total, pipe and tubing	1,916,233	1,312,459	793,077	2,105,534
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	x	28,373
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	159,477
over 16" (40.64 cm) outside diameter	x	x	x	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	106,607
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	22,601	x	x	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	x
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	x	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	18,829	x	x	x
over 16" (40.64 cm) outside diameter	x	x	x	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	170,894	125,440	63,994	189,435
Mechanical tubing, welded, produced from cold rolled	70,946	45,262	15,225	60,487
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	366,035	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	94,141	x	x
Other tubular products	x	15,365	6,699	22,065

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
	2010	2011			
		Total shipments	Domestic shipments	Exports	
metric tonnes					
October					
Barbed wire	332	x	278	x	.
Uncoated steel wire	17,834	18,571	8,397	10,174	.
Galvanized steel wire	14,589	14,432	8,071	6,361	.
Other coated steel wire	x	x	x	0	.
Farm fencing and wire chain link fabric	x	x	x	x	3,828
Wire mesh, bright or uncoated and galvanized	4,309	x	2,351	x	3,158
Wire rope	x	x	x	x	x
Nails and staples	x	x	990	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	1,917	1,718	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	2	x
Grand total	54,172	54,037	30,235	23,802	.

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
	2010	2011			
		Total shipments	Domestic shipments	Exports	
metric tonnes					
Barbed wire	x	x	x	x	.
Uncoated steel wire	186,094	187,500	81,476	106,024	.
Galvanized steel wire	106,243	148,963	80,307	68,656	.
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	34,402	x	x	x	43,634
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	27,172	x	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
Grand total	457,764	570,376	322,482	247,894	.

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) ).