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# Steel, Tubular Products and Steel Wire

April 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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### April 2011

- Monthly production of primary steel and pig iron decreased 2.7% in April 2011 to 1,167,603 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 8.1% to 989,402 metric tonnes.
- Between March 2011 and April 2011, production of steel pipe and tubing decreased 17.5% to 170,946 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 22.8% to 50,789 metric tonnes in April 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>April</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	0	2,324	5,328	5,164	5,082	x	0	.
21 Motor vehicles and parts	177	0	159	4	.	4,733	0	.
22 Railway operating	0	.	.	.	0	0	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	60	568	1,793	30,792	x	0	.
32 Metal building systems	.	0	0	0	86	0	.	.
33 Contractors' products	.	0	0	.	999	368	0	.
34 Miscellaneous stamping and coating	0	0	260	245	.	1,871	.	.
41 Natural resources and extractive industries	.	151	0	0	1,409	8,941	0	.
51 Agricultural equipment	.	0	0	0	0	310	.	0
52 Non electrical machinery	.	0	103	5	.	7,288	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	89	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>177</b>	<b>2,535</b>	<b>6,418</b>	<b>7,211</b>	<b>38,368</b>	<b>30,880</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>5,161</b>	<b>x</b>	<b>.</b>
81 Exports to the United States	x	1,554	5,724	3,811	0	22,942	x	.
82 Exports to other countries (excluding United States)	x	0	72	11	0	27,151	x	0
<b>Total disposition</b>	<b>108,183</b>	<b>4,089</b>	<b>12,214</b>	<b>11,033</b>	<b>38,368</b>	<b>80,973</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>9,876</b>	<b>0</b>	<b>.</b>
Producers interchange, for sale	x	.	0	.	.	616	29	.
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>April</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	x	16,736	184,705	17,379	1,304	23,907	270,665
21 Motor vehicles and parts	710	0	34,407	7,048	0	35,526	82,764
22 Railway operating	.	0	0	.	.	0	0
23 Railroad cars and locomotives	.	553	0	.	.	.	553
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	3,646	2,331	0	.	1,495	x
32 Metal building systems	.	.	0	.	.	2,064	2,150
33 Contractors' products	0	0	4,724	1,781	.	22,347	30,219
34 Miscellaneous stamping and coating	0	0	5,445	3,373	.	14,221	25,415
41 Natural resources and extractive industries	54	0	1	0	.	0	10,556
51 Agricultural equipment	28	812	0	0	.	0	1,150
52 Non electrical machinery	0	223	478	0	.	0	8,097
53 Electrical machinery	.	.	93	594	.	1,501	2,188
54 Industrial packaging material	.	.	0	4,622	0	0	4,622
61 Pipes and tubes	0	0	83,520	845	.	1,442	85,807
62 Wire and wire products	x	.	129	83	.	81	x
63 Containers and closures	0	.	0	542	297	.	839
64 Appliances and utensils industries	.	.	0	1,478	.	926	2,404
70 Miscellaneous industries	171	0	0	.	.	.	171
<b>Total domestic shipments</b>	<b>x</b>	<b>21,970</b>	<b>315,833</b>	<b>37,745</b>	<b>1,601</b>	<b>103,510</b>	<b>588,604</b>
<b>Total domestic alloy shipments</b>	<b>260</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
81 Exports to the United States	1,048	12,981	x	12,006	15,926	33,360	341,113
82 Exports to other countries (excluding United States)	0	3,234	x	968	613	9,302	59,685
<b>Total disposition</b>	<b>x</b>	<b>38,185</b>	<b>418,884</b>	<b>50,719</b>	<b>18,140</b>	<b>146,172</b>	<b>989,402</b>
<b>Total alloy shipments</b>	<b>500</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>10,376</b>
Producers interchange, for sale	0	.	18	0	.	0	x
Exports for conversion and return	.	.	0	0	.	19	19
Imports by producers (including conversion)	.	24	6,149	2,275	.	0	8,448

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	6	6,068	23,481	21,169	17,675	x	0	.
21 Motor vehicles and parts	650	0	682	81	.	19,626	0	.
22 Railway operating	0	.	.	.	0	113	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	201	3,820	7,787	116,496	x	0	.
32 Metal building systems	.	0	0	0	169	0	.	.
33 Contractors' products	.	0	0	.	5,492	668	199	.
34 Miscellaneous stamping and coating	0	0	795	964	.	3,387	.	.
41 Natural resources and extractive industries	.	650	38	14	5,438	48,904	0	.
51 Agricultural equipment	.	0	0	5	0	808	.	59
52 Non electrical machinery	.	0	5,559	31	.	35,406	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	106	.	.	.	0	2,432	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>762</b>	<b>6,919</b>	<b>34,375</b>	<b>30,051</b>	<b>145,270</b>	<b>148,332</b>	<b>x</b>	<b>59</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>24,351</b>	<b>x</b>	.
81 Exports to the United States	x	4,691	17,482	18,551	0	93,521	x	.
82 Exports to other countries (excluding United States)	x	0	176	11	0	85,650	x	0
<b>Total disposition</b>	<b>301,780</b>	<b>11,610</b>	<b>52,033</b>	<b>48,613</b>	<b>145,270</b>	<b>327,503</b>	<b>x</b>	<b>59</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>41,273</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	2,310	182	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	0	.	.	.	.	.	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	65,210	895,490	81,077	5,677	117,197	1,275,701
21 Motor vehicles and parts	2,779	0	119,380	30,141	0	156,432	329,771
22 Railway operating	.	0	0	.	.	0	113
23 Railroad cars and locomotives	.	1,537	0	.	.	.	1,537
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	12,337	10,037	0	.	6,742	x
32 Metal building systems	.	.	0	.	.	8,685	8,854
33 Contractors' products	0	277	20,012	8,948	.	78,691	114,287
34 Miscellaneous stamping and coating	105	0	21,821	16,485	.	56,893	100,450
41 Natural resources and extractive industries	236	0	1	0	.	2	55,283
51 Agricultural equipment	199	2,361	0	0	.	0	3,432
52 Non electrical machinery	0	280	3,738	0	.	0	45,014
53 Electrical machinery	.	.	939	7,177	.	6,229	14,345
54 Industrial packaging material	.	.	83	21,969	0	0	22,052
61 Pipes and tubes	0	0	363,995	2,451	.	6,733	373,179
62 Wire and wire products	x	.	600	201	.	154	x
63 Containers and closures	0	.	169	2,330	880	.	3,379
64 Appliances and utensils industries	.	.	0	7,333	.	6,385	13,718
70 Miscellaneous industries	518	0	0	.	.	.	518
<b>Total domestic shipments</b>	<b>x</b>	<b>82,002</b>	<b>1,436,265</b>	<b>178,112</b>	<b>6,557</b>	<b>444,143</b>	<b>2,600,264</b>
<b>Total domestic alloy shipments</b>	<b>1,226</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	4,922	48,444	x	63,120	60,257	137,075	1,194,352
82 Exports to other countries (excluding United States)	0	13,522	x	5,258	2,637	34,394	218,826
<b>Total disposition</b>	<b>x</b>	<b>143,968</b>	<b>1,810,968</b>	<b>246,490</b>	<b>69,451</b>	<b>615,612</b>	<b>4,013,442</b>
<b>Total alloy shipments</b>	<b>2,306</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>43,579</b>
Producers interchange, for sale	0	.	244	0	.	0	x
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	45	45
Imports by producers (including conversion)	.	24	16,150	4,208	.	0	20,382

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

	April		Year-to-date	
	2010	2011	2010	2011
metric tonnes				
Production of pig iron	613,604	641,523	2,518,031	2,361,856

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

	April		Year-to-date	
	2010	2011	2010	2011
	metric tonnes			
Pig iron including pre-reduced iron	611,169	680,661	2,483,466	2,501,064
<b>Scrap</b>				
Own make	116,340	125,385	464,841	450,378
Purchased	499,328	507,874	1,833,464	1,889,796
<b>Total, pig iron and scrap products</b>	<b>1,226,837</b>	<b>1,313,920</b>	<b>4,781,771</b>	<b>4,841,238</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>April</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	470,284	490,828	x	x
Basic oxygen furnace	616,530	676,775	x	x
<b>Steel, primary forms - Total</b>	<b>1,086,814</b>	<b>1,167,603</b>	<b>291,076</b>	<b>166,773</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,072,339	1,152,432	278,530	156,328

**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	1,796,373	1,905,760	x	x
Basic oxygen furnace	2,472,689	2,419,317	x	x
<b>Steel, primary forms - Total</b>	<b>4,269,062</b>	<b>4,325,077</b>	<b>1,120,398</b>	<b>713,362</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	4,248,554	4,265,894	1,079,933	670,616

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

	Production	Shipments for sale		Total shipments
		Domestic shipments <sup>1</sup>	Exports	
metric tonnes				
April				
Total, pipe and tubing	170,946	113,348	91,314	204,662
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	2,811	0	2,811
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	9,515	x	x	13,534
over 16" (40.64 cm) outside diameter	20,499	3,579	x	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	5,844	4,887	10,731
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	2,960	x	347	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	825	531	16	547
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	879	18	897
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,360	2,034	103	2,137
over 16" (40.64 cm) outside diameter	1,248	476	0	476
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	13,312	15,540	6,883	22,423
Mechanical tubing, welded, produced from cold rolled	7,506	3,973	1,532	5,505
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	47,666	29,446	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	12,275	5,985	x	x
Other tubular products	x	1,595	757	2,352

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	767,285	553,368	322,542	875,910
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	x	11,965
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	45,160	x	x	67,205
over 16" (40.64 cm) outside diameter	x	31,895	x	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	x	x	45,884
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	14,192	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	2,835	150	2,985
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	6,466	x	x	x
over 16" (40.64 cm) outside diameter	4,341	x	x	x
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	59,309	60,330	23,827	84,157
Mechanical tubing, welded, produced from cold rolled	36,757	18,843	6,855	25,698
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	x	156,743	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	38,118	x	x
Other tubular products	x	6,219	2,835	9,054

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					
April					
Barbed wire	1,059	314	x	x	.
Uncoated steel wire	18,979	18,162	7,708	10,454	.
Galvanized steel wire	6,944	12,341	6,119	6,222	.
Other coated steel wire	x	x	x	0	.
Farm fencing and wire chain link fabric	372	x	x	x	3,010
Wire mesh, bright or uncoated and galvanized	3,772	4,702	x	x	5,046
Wire rope	x	x	x	x	x
Nails and staples	x	x	1,145	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	3,245	2,290	x	x	3,236
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	3	x
Grand total	37,868	50,789	27,892	22,897	.

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	75,180	78,060	33,411	44,649	.
Galvanized steel wire	30,170	59,484	31,233	28,251	.
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	12,942	17,429	x	x	17,954
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	11,588	9,567	x	x	14,681
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
Grand total	151,971	231,296	131,008	100,288	.

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) ).