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# Steel, Tubular Products and Steel Wire

October 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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### October 2010

- Monthly production of primary steel and pig iron decreased 6.0% in October 2010 to 1,011,609 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 8.4% to 1,031,334 metric tonnes.
- Between September 2010 and October 2010, production of steel pipe and tubing increased 5.1% to 214,849 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 3.9% to 54,289 metric tonnes in October 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>October</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	1	1,123	5,206	3,799	3,334	x	23	.
21 Motor vehicles and parts	109	0	166	21	.	5,150	0	.
22 Railway operating	0	.	.	.	0	54	0	.
23 Railroad cars and locomotives	.	188	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	279	578	1,619	51,776	x	0	.
32 Metal building systems	.	0	0	0	0	0	.	.
33 Contractors' products	.	0	0	.	506	78	73	.
34 Miscellaneous stamping and coating	0	0	187	258	.	732	.	.
41 Natural resources and extractive industries	.	68	0	0	978	7,714	0	.
51 Agricultural equipment	.	0	0	0	0	336	.	0
52 Non electrical machinery	.	0	3,255	0	.	6,725	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	1,327	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>110</b>	<b>1,658</b>	<b>9,392</b>	<b>5,697</b>	<b>56,594</b>	<b>31,839</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>5,433</b>	<b>0</b>	<b>.</b>
81 Exports to the United States	x	159	3,654	2,952	0	21,343	x	.
82 Exports to other countries (excluding United States)	x	0	42	0	0	7,433	x	0
<b>Total disposition</b>	<b>106,730</b>	<b>1,817</b>	<b>13,088</b>	<b>8,649</b>	<b>56,594</b>	<b>60,615</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>8,273</b>	<b>0</b>	<b>.</b>
Producers interchange, for sale	x	.	0	.	.	398	37	.
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>October</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	x	18,294	209,472	24,152	1,572	29,545	307,234
21 Motor vehicles and parts	758	0	31,587	6,613	0	35,960	80,364
22 Railway operating	.	0	0	.	.	0	54
23 Railroad cars and locomotives	.	218	0	.	.	.	406
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	1,880	1,032	0	.	1,544	59,422
32 Metal building systems	.	.	0	.	.	1,335	1,335
33 Contractors' products	0	28	2,367	1,398	.	18,523	22,973
34 Miscellaneous stamping and coating	48	0	3,970	3,372	.	14,344	22,911
41 Natural resources and extractive industries	53	0	0	0	.	402	9,215
51 Agricultural equipment	106	325	0	0	.	0	767
52 Non electrical machinery	0	286	728	0	.	0	10,994
53 Electrical machinery	.	.	0	1,865	.	1,649	3,514
54 Industrial packaging material	.	.	0	4,235	0	0	4,235
61 Pipes and tubes	0	0	123,336	575	.	638	124,549
62 Wire and wire products	x	.	138	73	.	147	16,152
63 Containers and closures	0	.	0	1,202	369	.	1,571
64 Appliances and utensils industries	.	.	0	2,201	.	1,975	4,176
70 Miscellaneous industries	125	0	0	.	.	.	125
<b>Total domestic shipments</b>	<b>x</b>	<b>21,031</b>	<b>372,630</b>	<b>45,686</b>	<b>1,941</b>	<b>106,062</b>	<b>669,997</b>
<b>Total domestic alloy shipments</b>	<b>306</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>5,739</b>
81 Exports to the United States	736	13,198	x	16,059	14,594	30,159	318,351
82 Exports to other countries (excluding United States)	0	4,016	x	89	677	5,696	42,986
<b>Total disposition</b>	<b>x</b>	<b>38,245</b>	<b>470,283</b>	<b>61,834</b>	<b>17,212</b>	<b>141,917</b>	<b>1,031,334</b>
<b>Total alloy shipments</b>	<b>306</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>8,579</b>
Producers interchange, for sale	0	.	520	0	.	0	x
Exports for conversion and return	.	.	0	0	.	1,039	1,039
Imports by producers (including conversion)	.	13	3,901	473	.	0	4,387

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	9	14,716	57,358	49,127	35,496	x	47	.
21 Motor vehicles and parts	1,144	0	1,261	135	.	44,971	0	.
22 Railway operating	0	.	.	.	0	242	0	.
23 Railroad cars and locomotives	.	1,252	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	5,319	10,021	22,223	379,525	x	0	.
32 Metal building systems	.	0	0	14	522	152	.	.
33 Contractors' products	.	0	0	.	6,976	x	x	.
34 Miscellaneous stamping and coating	0	0	1,665	859	.	4,819	.	.
41 Natural resources and extractive industries	.	1,178	61	0	9,475	111,581	0	.
51 Agricultural equipment	.	0	0	31	0	1,431	.	0
52 Non electrical machinery	.	0	16,519	0	.	71,865	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	6,218	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>1,153</b>	<b>22,465</b>	<b>86,885</b>	<b>72,389</b>	<b>431,994</b>	<b>318,240</b>	<b>x</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>44,911</b>	<b>x</b>	.
81 Exports to the United States	x	5,972	30,897	40,491	0	203,684	x	.
82 Exports to other countries (excluding United States)	x	0	248	60	0	168,474	x	0
<b>Total disposition</b>	<b>x</b>	<b>28,437</b>	<b>118,030</b>	<b>112,940</b>	<b>431,994</b>	<b>690,398</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>72,112</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	7,404	1,041	.
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	177,368	1,832,157	182,878	13,372	283,059	2,734,556
21 Motor vehicles and parts	10,101	0	273,600	65,159	0	335,851	732,222
22 Railway operating	.	0	0	.	.	0	242
23 Railroad cars and locomotives	.	1,246	0	.	.	.	2,498
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	33,134	34,034	0	.	20,203	509,239
32 Metal building systems	.	.	0	.	.	19,772	20,460
33 Contractors' products	0	150	34,751	x	.	218,938	288,267
34 Miscellaneous stamping and coating	381	0	33,606	x	.	170,693	x
41 Natural resources and extractive industries	411	285	1,121	0	.	668	124,780
51 Agricultural equipment	641	3,133	0	0	.	..	5,236
52 Non electrical machinery	0	343	6,278	0	.	0	95,005
53 Electrical machinery	.	.	446	16,036	.	16,772	33,254
54 Industrial packaging material	.	.	560	41,392	0	0	41,952
61 Pipes and tubes	5	0	1,086,676	8,682	.	13,972	1,109,335
62 Wire and wire products	x	.	1,549	967	.	954	x
63 Containers and closures	0	.	382	8,161	14,464	.	23,007
64 Appliances and utensils industries	.	.	21	27,765	.	21,746	49,532
70 Miscellaneous industries	1,592	0	0	.	.	.	1,592
<b>Total domestic shipments</b>	<b>x</b>	<b>215,659</b>	<b>3,305,181</b>	<b>409,719</b>	<b>27,836</b>	<b>1,102,628</b>	<b>6,216,089</b>
<b>Total domestic alloy shipments</b>	<b>3,061</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	11,728	109,239	x	153,830	160,195	346,905	3,574,737
82 Exports to other countries (excluding United States)	0	29,098	x	7,169	10,714	x	598,090
<b>Total disposition</b>	<b>x</b>	<b>353,996</b>	<b>4,264,026</b>	<b>570,718</b>	<b>198,745</b>	<b>x</b>	<b>10,388,916</b>
<b>Total alloy shipments</b>	<b>3,210</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>75,322</b>
Producers interchange, for sale	0	.	1,110	0	.	0	x
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	1,039	1,039
Imports by producers (including conversion)	.	4,006	x	23,396	.	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	
	2009	2010	2009	2010
metric tonnes				
Production of pig iron	449,918	560,861	x	6,413,249

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

	October		Year-to-date	
	2009	2010	2009	2010
	metric tonnes			
Pig iron including pre-reduced iron	460,580	565,761	x	6,321,919
<b>Scrap</b>				
Own make	84,249	139,730	1,010,856	1,205,165
Purchased	414,797	460,453	x	4,717,400
<b>Total, pig iron and scrap products</b>	<b>959,626</b>	<b>1,165,944</b>	<b>8,223,327</b>	<b>12,244,484</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>October</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	440,394	455,097	x	x
Basic oxygen furnace	426,916	556,512	x	x
<b>Steel, primary forms - Total</b>	<b>867,310</b>	<b>1,011,609</b>	<b>254,987</b>	<b>214,663</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	856,342	992,702	244,621	200,155

**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	4,503,162	x	x
Basic oxygen furnace	x	6,378,643	x	x
<b>Steel, primary forms - Total</b>	<b>7,286,198</b>	<b>10,881,805</b>	<b>x</b>	<b>2,783,502</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	7,059,870	10,778,362	x	2,692,841

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

	Production	Shipments for sale		Total shipments
		Domestic shipments <sup>1</sup>	Exports	
	metric tonnes			
October				
Total, pipe and tubing	214,849	150,986	67,654	218,640
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	1,722	0	1,722
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	16,253	x	x	14,625
over 16" (40.64 cm) outside diameter	26,894	x	0	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	x	7,041	4,230	11,271
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	3,620	2,085	967	3,052
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	1,178	7	1,185
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	392	857	25	882
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	2,699	2,147	30	2,177
over 16" (40.64 cm) outside diameter	1,345	x	x	1,283
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	13,560	11,106	x	x
Mechanical tubing, welded, produced from cold rolled	10,950	4,466	1,640	6,106
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	61,530	48,342	18,488	66,830
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	18,747	10,096	8,058	18,154
Other tubular products	836	1,729	807	2,536

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	1,875,207	1,193,263	771,250	1,964,512
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	15,421	4	15,425
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	94,344
over 16" (40.64 cm) outside diameter	247,125	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	22,395	15,845	9,337	25,182
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	8,421	1,347	9,768
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	6,852	953	7,805
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	16,652	x	x	20,062
over 16" (40.64 cm) outside diameter	x	x	x	6,680
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	x	x	x	x
Mechanical tubing, welded, produced from cold rolled	101,445	48,253	15,122	63,375
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	514,882	349,629	186,469	536,098
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	169,534	78,473	81,456	159,928
Other tubular products	x	x	x	22,689

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					
October					
Barbed wire	x	332	x	x	.
Uncoated steel wire	16,112	17,794	7,804	9,990	.
Galvanized steel wire	6,685	14,604	7,747	6,857	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	797	x	x	x	3,411
Wire mesh, bright or uncoated and galvanized	3,826	4,338	x	x	4,696
Wire rope	x	x	x	x	x
Nails and staples	2,817	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	x	1,917	920	997	2,163
Staples of iron or steel	x	x	x	x	x
All other wire products	x	1,246	1,239	7	1,326
Grand total	34,560	54,289	30,747	23,542	.

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	136,978	186,099	92,748	93,351	.
Galvanized steel wire	81,748	106,250	52,569	53,681	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	x	x	x	x	19,543
Wire mesh, bright or uncoated and galvanized	34,962	34,429	x	x	37,340
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	27,172	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	36	x
Grand total	364,847	457,871	261,461	196,410	.

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) ).