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# Steel, Tubular Products and Steel Wire

May 2010



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Statistics Canada  
Manufacturing, Construction and Energy Division

# Steel, Tubular Products and Steel Wire

May 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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### May 2010

- Monthly production of primary steel and pig iron decreased 3.0% in May 2010 to 1,054,507 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 2.1 % to 1,012,139 metric tonnes.
- Between April 2010 and May 2010, production of steel pipe and tubing increased 5.1 % to 176,358 metric tonnes.
- Total shipments of steel wire and specified wire products decreased 5.9% to 35,629 metric tonnes in May 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>May</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	0	746	4,487	4,929	4,634	x	0	.
21 Motor vehicles and parts	0	0	221	16	.	4,328	0	.
22 Railway operating	0	.	.	.	0	53	0	.
23 Railroad cars and locomotives	.	104	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	721	1,018	1,389	41,589	x	0	.
32 Metal building systems	.	0	0	0	0	0	.	.
33 Contractors' products	.	0	0	.	301	x	322	.
34 Miscellaneous stamping and coating	0	0	227	175	.	480	.	.
41 Natural resources and extractive industries	.	111	37	0	822	11,069	0	.
51 Agricultural equipment	.	0	0	23	0	53	.	0
52 Non electrical machinery	.	0	1,123	0	.	6,557	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	437	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>0</b>	<b>1,682</b>	<b>7,113</b>	<b>6,532</b>	<b>47,346</b>	<b>30,470</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>3,773</b>	<b>x</b>	<b>.</b>
81 Exports to the United States	x	202	2,892	4,870	0	18,313	x	.
82 Exports to other countries (excluding United States)	x	0	62	0	0	26,776	x	0
<b>Total disposition</b>	<b>147,264</b>	<b>1,884</b>	<b>10,067</b>	<b>11,402</b>	<b>47,346</b>	<b>75,559</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>6,955</b>	<b>0</b>	<b>.</b>
Producers interchange, for sale	x	.	0	.	.	549	118	.
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>May</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	x	15,859	145,706	11,371	1,290	22,368	219,728
21 Motor vehicles and parts	1,063	0	27,947	5,239	0	34,880	73,694
22 Railway operating	.	0	0	.	.	0	53
23 Railroad cars and locomotives	.	80	0	.	.	.	184
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	2,507	4,515	0	.	3,081	55,305
32 Metal building systems	.	.	0	.	.	2,094	2,094
33 Contractors' products	0	0	3,322	x	.	24,150	32,925
34 Miscellaneous stamping and coating	8	0	2,949	x	.	17,921	x
41 Natural resources and extractive industries	77	0	0	0	.	0	12,116
51 Agricultural equipment	70	966	0	0	.	.	1,112
52 Non electrical machinery	0	0	514	0	.	0	8,194
53 Electrical machinery	.	.	34	2,223	.	1,832	4,089
54 Industrial packaging material	.	.	0	4,906	0	0	4,906
61 Pipes and tubes	0	0	130,401	942	.	1,951	133,294
62 Wire and wire products	x	.	133	151	.	95	x
63 Containers and closures	0	.	0	973	2,323	.	3,296
64 Appliances and utensils industries	.	.	0	2,961	.	2,567	5,528
70 Miscellaneous industries	111	0	0	.	.	.	111
<b>Total domestic shipments</b>	<b>x</b>	<b>19,412</b>	<b>315,521</b>	<b>36,513</b>	<b>3,613</b>	<b>110,939</b>	<b>601,584</b>
<b>Total domestic alloy shipments</b>	<b>323</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
81 Exports to the United States	1,357	9,875	x	14,916	16,560	33,371	335,331
82 Exports to other countries (excluding United States)	0	1,725	x	902	663	7,552	75,224
<b>Total disposition</b>	<b>x</b>	<b>31,012</b>	<b>400,386</b>	<b>52,331</b>	<b>20,836</b>	<b>151,862</b>	<b>1,012,139</b>
<b>Total alloy shipments</b>	<b>323</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>7,278</b>
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	42	984	5,393	.	0	6,419

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	7	7,962	30,504	25,341	22,903	x	0	.
21 Motor vehicles and parts	667	0	660	77	.	21,462	0	.
22 Railway operating	0	.	.	.	0	127	0	.
23 Railroad cars and locomotives	.	593	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	2,968	5,570	10,207	185,985	x	0	.
32 Metal building systems	.	0	0	14	293	69	.	.
33 Contractors' products	.	0	0	.	2,248	x	1,069	.
34 Miscellaneous stamping and coating	0	0	1,215	360	.	2,896	.	.
41 Natural resources and extractive industries	.	645	61	0	4,365	62,677	0	.
51 Agricultural equipment	.	0	0	31	0	477	.	0
52 Non electrical machinery	.	0	7,904	0	.	34,581	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	1,910	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>674</b>	<b>12,168</b>	<b>45,914</b>	<b>36,030</b>	<b>215,794</b>	<b>160,663</b>	<b>x</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>21,400</b>	<b>x</b>	.
81 Exports to the United States	x	3,175	14,607	18,668	0	97,130	x	.
82 Exports to other countries (excluding United States)	x	0	123	40	0	79,188	x	0
<b>Total disposition</b>	<b>x</b>	<b>15,343</b>	<b>60,644</b>	<b>54,738</b>	<b>215,794</b>	<b>336,981</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>33,948</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	4,469	450	.
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	97,987	854,771	97,725	7,041	146,625	1,333,756
21 Motor vehicles and parts	5,380	0	131,330	33,025	0	166,910	359,511
22 Railway operating	.	0	0	.	.	0	127
23 Railroad cars and locomotives	.	593	0	.	.	.	1,186
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	19,377	17,720	0	.	9,571	253,410
32 Metal building systems	.	.	0	.	.	9,357	9,733
33 Contractors' products	0	62	18,747	x	.	112,738	150,977
34 Miscellaneous stamping and coating	206	0	16,511	x	.	84,646	x
41 Natural resources and extractive industries	235	251	0	0	.	4	68,238
51 Agricultural equipment	275	1,765	0	0	.	.	2,548
52 Non electrical machinery	0	57	2,361	0	.	0	44,903
53 Electrical machinery	.	.	289	8,792	.	8,629	17,710
54 Industrial packaging material	.	.	560	22,394	0	0	22,954
61 Pipes and tubes	5	0	569,988	5,242	.	8,768	584,003
62 Wire and wire products	x	.	843	498	.	418	x
63 Containers and closures	0	.	0	3,526	11,766	.	15,292
64 Appliances and utensils industries	.	.	21	15,092	.	11,587	26,700
70 Miscellaneous industries	947	0	0	.	.	.	947
<b>Total domestic shipments</b>	<b>x</b>	<b>120,092</b>	<b>1,613,141</b>	<b>219,758</b>	<b>18,807</b>	<b>559,253</b>	<b>3,119,115</b>
<b>Total domestic alloy shipments</b>	<b>1,388</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	6,422	47,343	x	89,248	74,984	180,404	1,792,518
82 Exports to other countries (excluding United States)	0	9,047	x	3,566	3,804	x	258,920
<b>Total disposition</b>	<b>x</b>	<b>176,482</b>	<b>2,095,666</b>	<b>312,572</b>	<b>97,595</b>	<b>x</b>	<b>5,170,553</b>
<b>Total alloy shipments</b>	<b>1,537</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>35,485</b>
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return <sup>2</sup>	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	1,457	x	14,603	.	0	29,240

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

	May		Year-to-date	
	2009	2010	2009	2010
metric tonnes				
Production of pig iron	327,958	583,857	2,080,529	3,101,888

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

	May		Year-to-date	
	2009	2010	2009	2010
	metric tonnes			
Pig iron including pre-reduced iron	353,116	567,419	2,081,273	3,050,885
<b>Scrap</b>				
Own make	113,344	108,784	544,018	573,625
Purchased	264,451	492,099	1,390,398	2,325,563
<b>Total, pig iron and scrap products</b>	<b>730,911</b>	<b>1,168,302</b>	<b>4,015,689</b>	<b>5,950,073</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>May</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	241,248	472,151	x	x
Basic oxygen furnace	286,075	582,356	x	x
<b>Steel, primary forms - Total</b>	<b>527,323</b>	<b>1,054,507</b>	<b>x</b>	<b>322,980</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	516,675	1,038,525	x	318,811

**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	1,329,761	2,268,524	x	x
Basic oxygen furnace	2,147,107	3,055,045	x	x
<b>Steel, primary forms - Total</b>	<b>3,476,868</b>	<b>5,323,569</b>	<b>x</b>	<b>1,443,378</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	3,429,702	5,287,079	x	1,398,744

**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		
May				
Total, pipe and tubing	176,358	112,292	77,829	190,121
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	1,277	0	1,277
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	11,574	x	x	10,944
over 16" (40.64 cm) outside diameter	25,611	x	x	24,756
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	11,466	18,640	5,715	24,355
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	2,119	1,617	1,018	2,635
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	287	348	65	413
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	703	689	199	888
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,630	1,543	242	1,785
over 16" (40.64 cm) outside diameter	797	379	241	620
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	x	9,880	x	x
Mechanical tubing, welded, produced from cold rolled	11,834	5,616	1,533	7,149
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	45,113	27,842	25,660	53,502
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	16,868	4,741	8,812	13,553
Other tubular products	798	1,831	573	2,404

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	849,681	480,517	436,809	917,325
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	8,548	4	8,552
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	30,052	x	x	40,356
over 16" (40.64 cm) outside diameter	119,286	x	x	127,097
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	70,301	74,351	36,116	110,467
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	10,011	8,068	5,027	13,095
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	7,477	4,469	831	5,300
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	3,339	801	4,140
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	6,473	7,264	334	7,598
over 16" (40.64 cm) outside diameter	x	3,132	379	3,511
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	x	47,140	x	x
Mechanical tubing, welded, produced from cold rolled	50,996	24,479	7,308	31,787
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	221,972	146,485	96,660	243,145
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	66,024	24,238	33,307	57,544
Other tubular products	x	7,828	3,316	11,144

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		Exports	
		Total shipments	Domestic shipments		
metric tonnes					
May					
Barbed wire	x	675	x	x	.
Uncoated steel wire	13,528	18,412	9,295	9,117	.
Galvanized steel wire	8,001	5,749	1,715	4,034	.
Other coated steel wire	x	x	x	0	.
Farm fencing and wire chain link fabric	2,756	362	x	x	608
Wire mesh, bright or uncoated and galvanized	3,914	3,328	x	x	3,359
Wire rope	2,878	x	998	x	x
Nails and staples	x	x	x	x	2,731
Wire roofing nails of a length of 25 mm or more, iron or steel	1,004	3,702	1,709	1,993	x
Staples of iron or steel	x	x	x	x	x
All other wire products	1,137	x	x	3	x
Grand total	36,691	35,629	19,045	16,584	.

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	62,869	93,592	48,370	45,222	.
Galvanized steel wire	45,441	35,919	14,145	21,774	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	x	x	x	x	2,922
Wire mesh, bright or uncoated and galvanized	16,016	16,270	x	x	16,519
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	4,220	15,290	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	17	x
Grand total	183,740	187,600	105,578	82,022	.

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) ).