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# Steel, Tubular Products and Steel Wire

June 2010



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# Steel, Tubular Products and Steel Wire

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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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### June 2010

- Monthly production of primary steel and pig iron decreased 2.1% in June 2010 to 1,032,212 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 0.3 % to 1,014,824 metric tonnes.
- Between May 2010 and June 2010, production of steel pipe and tubing increased 17.9 % to 207,915 metric tonnes.
- Total shipments of steel wire and specified wire products increased 3.1% to 36,731 metric tonnes in June 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>June</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	0	1,641	4,611	3,549	3,734	x	0	.
21 Motor vehicles and parts	109	0	86	4	.	3,638	0	.
22 Railway operating	0	.	.	.	0	0	0	.
23 Railroad cars and locomotives	.	109	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	353	876	1,405	37,220	x	0	.
32 Metal building systems	.	0	0	0	150	0	.	.
33 Contractors' products	.	0	0	.	407	x	433	.
34 Miscellaneous stamping and coating	0	0	25	73	.	377	.	.
41 Natural resources and extractive industries	.	160	0	0	1,096	11,404	0	.
51 Agricultural equipment	.	0	0	0	0	29	.	0
52 Non electrical machinery	.	0	1,428	0	.	6,985	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	575	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>109</b>	<b>2,263</b>	<b>7,026</b>	<b>5,031</b>	<b>42,607</b>	<b>30,984</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>4,859</b>	<b>x</b>	<b>.</b>
81 Exports to the United States	x	619	3,175	4,988	0	20,213	x	.
82 Exports to other countries (excluding United States)	x	0	42	0	0	21,253	x	0
<b>Total disposition</b>	<b>133,780</b>	<b>2,882</b>	<b>10,243</b>	<b>10,019</b>	<b>42,607</b>	<b>72,450</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>8,053</b>	<b>0</b>	<b>.</b>
Producers interchange, for sale	x	.	0	.	.	600	110	.
Exports for conversion and return	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	x	.	.	.	.	.	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>June</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	x	14,258	181,782	11,545	1,574	24,211	255,894
21 Motor vehicles and parts	1,196	0	26,206	5,317	0	33,437	69,993
22 Railway operating	.	0	0	.	.	0	0
23 Railroad cars and locomotives	.	108	0	.	.	.	217
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	3,281	3,979	0	.	3,015	51,078
32 Metal building systems	.	.	0	.	.	3,219	3,369
33 Contractors' products	0	0	3,632	x	.	23,029	30,437
34 Miscellaneous stamping and coating	59	0	2,958	x	.	19,228	x
41 Natural resources and extractive industries	6	0	68	0	.	5	12,739
51 Agricultural equipment	45	375	0	0	.	..	449
52 Non electrical machinery	0	0	793	0	.	0	9,206
53 Electrical machinery	.	.	35	1,132	.	1,510	2,677
54 Industrial packaging material	.	.	0	3,924	0	0	3,924
61 Pipes and tubes	0	0	109,424	610	.	1,283	111,317
62 Wire and wire products	x	.	92	116	.	36	x
63 Containers and closures	0	.	126	1,039	1,675	.	2,840
64 Appliances and utensils industries	.	.	0	2,820	.	2,316	5,136
70 Miscellaneous industries	145	0	0	.	.	.	145
<b>Total domestic shipments</b>	<b>x</b>	<b>18,022</b>	<b>329,095</b>	<b>32,983</b>	<b>3,249</b>	<b>111,289</b>	<b>603,382</b>
<b>Total domestic alloy shipments</b>	<b>406</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
81 Exports to the United States	1,246	14,025	x	11,591	17,769	39,336	321,184
82 Exports to other countries (excluding United States)	0	4,868	x	633	1,740	7,878	90,258
<b>Total disposition</b>	<b>x</b>	<b>36,915</b>	<b>417,757</b>	<b>45,207</b>	<b>22,758</b>	<b>158,503</b>	<b>1,014,824</b>
<b>Total alloy shipments</b>	<b>406</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>8,459</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	8,785	1,314	.	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 1-2

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	9,603	35,115	28,890	26,637	x	0	.
21 Motor vehicles and parts	776	0	746	81	.	25,100	0	.
22 Railway operating	0	.	.	.	0	127	0	.
23 Railroad cars and locomotives	.	702	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	3,321	6,446	11,612	223,205	x	0	.
32 Metal building systems	.	0	0	14	443	69	.	.
33 Contractors' products	.	0	0	.	2,655	x	1,502	.
34 Miscellaneous stamping and coating	0	0	1,240	433	.	3,273	.	.
41 Natural resources and extractive industries	.	805	61	0	5,461	74,081	0	.
51 Agricultural equipment	.	0	0	31	0	506	.	0
52 Non electrical machinery	.	0	9,332	0	.	41,566	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	2,485	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>783</b>	<b>14,431</b>	<b>52,940</b>	<b>41,061</b>	<b>258,401</b>	<b>191,647</b>	<b>x</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>26,259</b>	<b>x</b>	.
81 Exports to the United States	x	3,794	17,782	23,656	0	117,343	x	.
82 Exports to other countries (excluding United States)	x	0	165	40	0	100,441	x	0
<b>Total disposition</b>	<b>x</b>	<b>18,225</b>	<b>70,887</b>	<b>64,757</b>	<b>258,401</b>	<b>409,431</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>42,001</b>	<b>0</b>	.
Producers interchange, for sale	x	.	0	.	.	5,069	560	.
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	112,245	1,036,553	109,270	8,615	170,836	1,589,650
21 Motor vehicles and parts	6,576	0	157,536	38,342	0	200,347	429,504
22 Railway operating	.	0	0	.	.	0	127
23 Railroad cars and locomotives	.	701	0	.	.	.	1,403
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	22,658	21,699	0	.	12,586	304,488
32 Metal building systems	.	.	0	.	.	12,576	13,102
33 Contractors' products	0	62	22,379	x	.	135,767	181,414
34 Miscellaneous stamping and coating	265	0	19,469	x	.	103,874	x
41 Natural resources and extractive industries	241	251	68	0	.	9	80,977
51 Agricultural equipment	320	2,140	0	0	.	.	2,997
52 Non electrical machinery	0	57	3,154	0	.	0	54,109
53 Electrical machinery	.	.	324	9,924	.	10,139	20,387
54 Industrial packaging material	.	.	560	26,318	0	0	26,878
61 Pipes and tubes	5	0	679,412	5,852	.	10,051	695,320
62 Wire and wire products	x	.	935	614	.	454	x
63 Containers and closures	0	.	126	4,565	13,441	.	18,132
64 Appliances and utensils industries	.	.	21	17,912	.	13,903	31,836
70 Miscellaneous industries	1,092	0	0	.	.	.	1,092
<b>Total domestic shipments</b>	<b>x</b>	<b>138,114</b>	<b>1,942,236</b>	<b>252,741</b>	<b>22,056</b>	<b>670,542</b>	<b>3,722,497</b>
<b>Total domestic alloy shipments</b>	<b>1,794</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	7,668	61,368	x	100,839	92,753	219,740	2,113,702
82 Exports to other countries (excluding United States)	0	13,915	x	4,199	5,544	x	349,178
<b>Total disposition</b>	<b>x</b>	<b>213,397</b>	<b>2,513,423</b>	<b>357,779</b>	<b>120,353</b>	<b>x</b>	<b>6,185,377</b>
<b>Total alloy shipments</b>	<b>1,943</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>43,944</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	15,917	.	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

	June		Year-to-date	
	2009	2010	2009	2010
metric tonnes				
Production of pig iron	361,453	600,343	2,441,982	3,702,231

Table 1-4

## Steel primary forms and pig iron — Pig iron and scrap charged to steel furnaces

	June		Year-to-date	
	2009	2010	2009	2010
	metric tonnes			
Pig iron including pre-reduced iron	344,538	573,580	2,425,811	3,624,465
<b>Scrap</b>				
Own make	95,500	115,102	639,518	688,727
Purchased	299,514	472,745	1,689,912	2,798,308
<b>Total, pig iron and scrap products</b>	<b>739,552</b>	<b>1,161,427</b>	<b>4,755,241</b>	<b>7,111,500</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>June</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	278,846	455,170	x	x
Basic oxygen furnace	401,597	577,042	x	x
<b>Steel, primary forms - Total</b>	<b>680,443</b>	<b>1,032,212</b>	<b>x</b>	<b>307,056</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	589,593	1,017,709	x	303,203

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	1,608,607	2,723,694	x	x
Basic oxygen furnace	2,548,704	3,632,087	x	x
<b>Steel, primary forms - Total</b>	<b>4,157,311</b>	<b>6,355,781</b>	<b>x</b>	<b>1,750,434</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	4,019,295	6,304,788	x	1,701,947

**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		
June				
Total, pipe and tubing	207,915	138,222	72,634	210,856
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	1,930	663	0	663
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	15,603
over 16" (40.64 cm) outside diameter	25,879	x	0	x
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	11,554	15,868	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	1,920	849	859	1,708
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,607	582	292	874
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	407	234	32	266
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	1,793	x	18	2,619
over 16" (40.64 cm) outside diameter	751	100	7	107
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	13,130	10,445	5,049	15,494
Mechanical tubing, welded, produced from cold rolled	10,950	5,657	1,880	7,537
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	60,682	29,153	24,296	53,449
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	22,853	10,263	11,770	22,033
Other tubular products	x	1,786	610	2,396

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		
<b>Year-to-date</b>				
<b>Total, pipe and tubing</b>	<b>1,057,596</b>	<b>618,739</b>	<b>509,443</b>	<b>1,128,181</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	9,211	4	9,215
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	55,959
over 16" (40.64 cm) outside diameter	145,165	x	x	x
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	81,855	90,219	x	x
over 16" (40.64 cm) periphery	x	x	x	x
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	11,931	8,917	5,886	14,803
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	9,084	5,051	1,123	6,174
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	3,573	833	4,406
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	8,266	x	352	10,217
over 16" (40.64 cm) outside diameter	x	3,232	386	3,618
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	x	57,585	x	x
Mechanical tubing, welded, produced from cold rolled	61,946	30,136	9,188	39,324
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	282,654	175,638	120,956	296,594
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	88,877	34,501	45,077	79,577
<b>Other tubular products</b>	x	9,614	3,926	13,540

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					
June					
Barbed wire	x	x	x	x	.
Uncoated steel wire	14,884	19,848	10,525	9,323	.
Galvanized steel wire	10,207	6,059	2,615	3,444	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	2,625	252	x	x	647
Wire mesh, bright or uncoated and galvanized	3,803	3,531	x	x	4,239
Wire rope	1,969	x	1,075	x	x
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	1,251	2,859	1,220	1,639	3,150
Staples of iron or steel	x	x	x	x	x
All other wire products	1,872	x	x	3	x
Grand total	41,014	36,731	20,876	15,855	.

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	77,753	113,440	58,895	54,545	.
Galvanized steel wire	55,648	41,978	16,760	25,218	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	x	x	x	x	3,569
Wire mesh, bright or uncoated and galvanized	19,819	19,801	x	x	20,758
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	5,471	18,149	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	20	x
Grand total	224,754	224,331	126,454	97,877	.

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) ).