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# Steel, Tubular Products and Steel Wire

June 2012



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Statistics Canada  
Manufacturing and Energy Division

# Steel, Tubular Products and Steel Wire

June 2012

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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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### June 2012

- Monthly production of primary steel and pig iron decreased 16.6% in June 2012 to 1,010,640 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products decreased 6.6% to 982,189 metric tonnes.
- Between May 2012 and June 2012, production of steel pipe and tubing increased 4.2% to 208,094 metric tonnes.
- Total shipments of steel wire and specified wire products increased 1.3% to 39,549 metric tonnes in June 2012.

## 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 of rolled steel products, by product and industry monthly 2012**

	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>								
Steel service centres and other wholesalers and warehouses	0	1,201	3,760	4,043	398	8,008	0	.
Motor vehicles and parts	102	0	x	24	.	7,542	0	.
Railway operating	0	.	.	.	0	0	0	.
Railroad cars and locomotives	.	0	.	.	.	.	.	.
Shipbuilding	0	.	.	.	.	.	.	.
Steel fabrication	0	126	454	1,937	44,157	896	0	.
Metal building systems	.	0	0	0	0	0	.	.
Contractors' products	.	0	0	.	265	60	521	.
Miscellaneous stamping and coating	0	0	107	194	.	32	.	.
Natural resources and extractive industries	.	0	0	0	992	7,279	0	.
Agricultural equipment	.	0	0	0	0	372	.	0
Non electrical machinery	.	0	1,565	0	.	6,282	0	.
Electrical machinery	.	.	.	.	.	0	.	.
Industrial packaging material	.	.	.	.	.	0	.	.
Pipes and tubes	.	.	.	.	.	0	.	.
Wire and wire products	0	.	.	.	0	383	x	.
Containers and closures	.	.	.	.	.	.	.	.
Appliances and utensils industries	.	.	.	.	.	.	.	.
Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>102</b>	<b>1,327</b>	<b>x</b>	<b>6,198</b>	<b>45,812</b>	<b>30,854</b>	<b>x</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	<b>0</b>	.	.	.	.	<b>4,722</b>	<b>x</b>	.
Exports to the United States	x	656	x	4,635	0	22,493	x	.
Exports to other countries (excluding United States)	x	0	191	8	0	25,744	x	0
<b>Total disposition</b>	<b>x</b>	<b>1,983</b>	<b>9,837</b>	<b>10,841</b>	<b>45,812</b>	<b>79,091</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	.	.	.	.	<b>8,196</b>	<b>x</b>	.
Producers interchange, for sale	x	.	0	.	.	1,019	19	.
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 of rolled steel products, by product and industry monthly 2012**

	Cold finished bars	Plates <sup>1</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>							
Steel service centres and other wholesalers and warehouses	1,473	17,427	167,932	12,540	910	30,721	248,413
Motor vehicles and parts	x	0	30,315	8,065	0	51,683	98,787
Railway operating	.	0	0	.	.	0	0
Railroad cars and locomotives	.	604	0	.	.	.	604
Shipbuilding	.	.	.	.	.	.	0
Steel fabrication	x	5,386	x	0	.	1,889	x
Metal building systems	.	.	0	.	.	0	0
Contractors' products	0	0	6,059	2,417	.	26,056	35,378
Miscellaneous stamping and coating	32	0	8,770	2,974	.	15,985	28,094
Natural resources and extractive industries	17	0	0	0	.	11	8,299
Agricultural equipment	19	487	0	0	.	0	878
Non electrical machinery	318	662	1,108	0	.	0	9,935
Electrical machinery	.	.	44	426	.	1,509	1,979
Industrial packaging material	.	.	0	4,437	0	0	4,437
Pipes and tubes	0	0	90,739	563	.	1,002	92,304
Wire and wire products	x	.	x	190	.	20	x
Containers and closures	0	.	0	288	1,091	.	1,379
Appliances and utensils industries	.	.	0	139	.	819	958
Miscellaneous industries	64	0	0	.	.	.	64
<b>Total domestic shipments</b>	<b>x</b>	<b>24,566</b>	<b>312,172</b>	<b>32,039</b>	<b>2,001</b>	<b>129,695</b>	<b>613,438</b>
<b>Total domestic alloy shipments</b>	<b>107</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
Exports to the United States	x	12,633	x	17,524	20,132	54,873	274,139
Exports to other countries (excluding United States)	0	915	x	4,933	477	16,520	94,612
<b>Total disposition</b>	<b>4,110</b>	<b>38,114</b>	<b>394,512</b>	<b>54,496</b>	<b>22,610</b>	<b>201,088</b>	<b>982,189</b>
<b>Total alloy shipments</b>	<b>488</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	58	58
Imports by producers (including conversion)	.	0	2,334	553	.	0	x

1. 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.

**Note(s):** Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

Table 1-2

**Steel primary forms and pig iron — Disposition of net shipments of rolled steel products, by product and industry, year-to-date 2012**

	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							
Domestic shipments								
Steel service centres and other wholesalers and warehouses	9	9,817	39,591	35,756	19,875	x	0	.
Motor vehicles and parts	x	0	x	145	.	31,120	0	.
Railway operating	0	.	.	.	0	130	0	.
Railroad cars and locomotives	.	0	.	.	.	.	.	.
Shipbuilding	0	.	.	.	.	.	.	.
Steel fabrication	0	755	8,382	10,619	223,134	x	0	.
Metal building systems	.	0	0	0	229	326	.	.
Contractors' products	.	0	0	.	2,453	1,661	1,293	.
Miscellaneous stamping and coating	0	39	1,422	1,452	.	3,773	.	.
Natural resources and extractive industries	.	408	38	0	7,242	57,889	0	.
Agricultural equipment	.	0	24	40	0	2,718	.	0
Non electrical machinery	.	0	7,967	6	.	44,951	0	.
Electrical machinery	.	.	.	.	.	0	.	.
Industrial packaging material	.	.	.	.	.	0	.	.
Pipes and tubes	.	.	.	.	.	0	.	.
Wire and wire products	0	.	.	.	0	1,773	x	.
Containers and closures	.	.	.	.	.	.	.	.
Appliances and utensils industries	.	.	.	.	.	.	.	.
Miscellaneous industries	0	0	.	.	0	0	.	.
Total domestic shipments	x	11,019	x	48,018	252,933	205,744	x	0
Total domestic alloy shipments	0	.	.	.	.	31,313	x	.
Exports to the United States	x	5,257	x	34,052	0	148,347	x	.
Exports to other countries (excluding United States)	x	0	517	18	0	150,206	x	0
Total disposition	x	16,276	84,740	82,088	252,933	504,297	x	0
Total alloy shipments	0	.	.	.	.	56,664	x	.
Producers interchange, for sale	x	.	0	.	.	3,482	481	.
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 of rolled steel products, by product and industry, year-to-date 2012**

	Cold finished bars	Plates <sup>1</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>							
Steel service centres and other wholesalers and warehouses	x	113,207	1,126,789	95,637	6,614	206,336	1,720,702
Motor vehicles and parts	x	0	194,535	49,483	0	302,353	584,678
Railway operating	.	0	0	.	.	0	130
Railroad cars and locomotives	.	3,479	0	.	.	.	3,479
Shipbuilding	.	.	.	.	.	.	0
Steel fabrication	x	38,115	x	203	.	10,232	x
Metal building systems	.	.	0	.	.	10,359	10,914
Contractors' products	408	1,302	30,941	10,436	.	132,411	180,905
Miscellaneous stamping and coating	86	0	32,696	19,155	.	84,874	143,497
Natural resources and extractive industries	465	0	0	3	.	19	66,064
Agricultural equipment	251	2,807	0	0	.	0	5,840
Non electrical machinery	318	1,485	6,452	0	.	0	61,179
Electrical machinery	.	.	394	6,113	.	9,956	16,463
Industrial packaging material	.	.	395	26,812	0	0	27,207
Pipes and tubes	0	0	530,122	4,228	.	11,125	545,475
Wire and wire products	x	.	x	682	.	326	x
Containers and closures	0	.	227	2,342	5,394	.	7,963
Appliances and utensils industries	.	.	0	5,615	.	5,298	10,913
Miscellaneous industries	1,006	0	0	.	.	.	1,006
<b>Total domestic shipments</b>	<b>x</b>	<b>160,395</b>	<b>1,951,599</b>	<b>220,709</b>	<b>12,008</b>	<b>773,289</b>	<b>3,818,434</b>
<b>Total domestic alloy shipments</b>	<b>980</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
<b>Exports (for final sale)</b>							
Exports to the United States	x	81,339	x	102,861	110,973	280,434	1,758,601
Exports to other countries (excluding United States)	41	23,607	x	13,396	4,607	77,647	442,605
<b>Total disposition</b>	<b>x</b>	<b>265,341</b>	<b>2,586,653</b>	<b>336,966</b>	<b>127,588</b>	<b>1,131,370</b>	<b>6,019,640</b>
<b>Total alloy shipments</b>	<b>3,893</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>x</b>
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	58	58
Imports by producers (including conversion)	.	0	16,862	5,959	.	0	x

1. 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.

**Note(s):** Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

Table 1-3

**Steel primary forms and pig iron — Production of pig iron**

	June		Year-to-date	
	2011	2012	2011	2012
metric tonnes				
Production of pig iron	602,220	560,688	3,651,858	3,861,674

Table 1-4

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

	June		Year-to-date	
	2011	2012	2011	2012
	metric tonnes			
Pig iron including pre-reduced iron	627,933	558,989	3,854,164	3,976,370
<b>Scrap</b>				
Own make	115,297	117,691	686,597	808,752
Purchased	485,541	420,438	2,894,042	2,850,372
<b>Total, pig iron and scrap products</b>	<b>1,228,771</b>	<b>1,097,118</b>	<b>7,434,803</b>	<b>7,635,494</b>

Table 1-5

## Steel primary forms and pig iron — Production and shipments of steel, primary forms, monthly

	Production		Shipments	
	2011	2012	2011	2012
	metric tonnes			
<b>June</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	486,824	477,515	x	x
Basic oxygen furnace	605,917	533,125	x	x
<b>Steel, primary forms - Total</b>	<b>1,092,741</b>	<b>1,010,640</b>	<b>177,371</b>	<b>184,624</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,077,164	977,996	165,291	155,201

Table 1-6

## Steel primary forms and pig iron — Production and shipments of steel, primary forms, year-to-date

	Production		Shipments	
	2011	2012	2011	2012
	metric tonnes			
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	2,904,998	2,976,573	x	x
Basic oxygen furnace	3,729,909	3,952,792	x	x
<b>Steel, primary forms - Total</b>	<b>6,634,907</b>	<b>6,929,365</b>	<b>1,064,352</b>	<b>1,049,874</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	6,542,864	6,727,941	995,642	878,647

**Table 2-1**  
**Steel pipe and tubing — Production and shipments, monthly 2012**

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
	metric tonnes			
June				
Total, pipe and tubing	208,094	128,216	105,902	234,119
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	2,426	2,232	0	2,232
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	19,182	x	x	24,939
over 16" (40.64 cm) outside diameter	24,695	0	21,704	21,704
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	5,428	x	x	10,421
over 16" (40.64 cm) periphery	x	x	x	x
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	x	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	x
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	36	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	3,118	x	x	x
over 16" (40.64 cm) outside diameter	x	1,352	30	1,381
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	9,858	15,393	6,788	22,180
Mechanical tubing, welded, produced from cold rolled	x	4,611	1,802	6,412
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	60,867	35,048	26,184	61,232
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	6,597	4,079	x	x
Other tubular products	x	1,393	666	2,059

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 2012**

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
	metric tonnes			
<b>Total, pipe and tubing</b>	<b>1,204,095</b>	<b>794,745</b>	<b>564,026</b>	<b>1,358,773</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	15,145	13,684	0	13,684
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	102,239
over 16" (40.64 cm) outside diameter	125,818	4,130	83,508	87,639
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	x	x	x	75,830
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	x	x	x	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	x
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	x	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	14,322	x	x	x
over 16" (40.64 cm) outside diameter	x	x	110	x
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	65,003	90,564	42,456	133,018
Mechanical tubing, welded, produced from cold rolled	x	29,787	11,713	41,498
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	329,310	226,662	135,467	362,128
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x	39,736	x	x
Other tubular products	x	7,835	4,376	12,209

1. Including for own use by the steel pipe and tubing industries.

**Table 3-1**  
**Steel and specified wire products — Factory shipments, monthly**

	Shipments				Production
	2011	2012			
		Total shipments	Domestic shipments	Exports	
	metric tonnes				
June					
Barbed wire	x	x	x	0	.
Uncoated steel wire	20,405	17,703	8,111	9,592	.
Galvanized steel wire	7,723	7,288	3,333	3,955	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	585	1,006	x	x	1,057
Wire mesh, bright or uncoated and galvanized	5,306	x	3,746	x	4,077
Wire rope	x	x	x	x	x
Nails and staples	2,659	x	1,032	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	2,658	2,909	x	x	2,737
Staples of iron or steel	1	x	x	0	x
All other wire products	x	x	x	4	x
Grand total	41,696	39,549	21,698	17,851	.

**Note(s):** Data has been revised from March 2010 to November 2011. These revised data are available at: [www.statcan.gc.ca/cansim](http://www.statcan.gc.ca/cansim), table 303-0047. Totals may not add due to rounding.

**Table 3-2**  
**Steel and specified wire products — Factory shipments, year-to-date**

	Shipments				Production
	2011	2012			
		Total shipments	Domestic shipments	Exports	
metric tonnes					
Barbed wire	x	x	x	x	.
Uncoated steel wire	119,132	111,820	50,796	61,024	.
Galvanized steel wire	45,559	47,150	21,368	25,782	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	4,829	5,053	x	x	5,135
Wire mesh, bright or uncoated and galvanized	26,625	x	21,118	x	22,821
Wire rope	x	x	x	x	x
Nails and staples	14,687	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	14,684	17,022	x	x	16,248
Staples of iron or steel	3	x	x	0	x
All other wire products	x	x	x	12	x
Grand total	241,645	240,897	131,245	109,652	.

**Note(s):** Data has been revised from March 2010 to November 2011. These revised data are available at: [www.statcan.gc.ca/cansim](http://www.statcan.gc.ca/cansim), table 303-0047. 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 (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 (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 the Annual Survey of Manufactures and Logging (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 Annual Survey of Manufactures (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) ).