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# Steel, Tubular Products and Steel Wire

June 2009



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Statistics Canada  
Manufacturing, Construction and Energy Division

# Steel, Tubular Products and Steel Wire

June 2009

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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

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## Highlights

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### June 2009

- Monthly production of primary steel and pig iron increased 32.2% in June 2009 to 697,264 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 33.4% to 650,878 metric tonnes.
- Between May 2009 and June 2009, production of steel pipe and tubing increased 25.7% to 114,959 metric tonnes.
- Total shipments of steel wire and specified wire products increased 11.8% to 41,014 metric tonnes in June 2009.

## 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 2009**

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	1,714	5,206	3,860	4,097	8,066	0	.
21 Motor vehicles and parts	112	0	51	6	.	4,130	0	.
22 Railway operating	0	.	.	.	0	0	0	.
23 Railroad cars and locomotives	.	0	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	523	963	2,545	36,896	x	0	.
32 Metal building systems	.	0	0	.	0	0	.	.
33 Contractors' products	.	0	0	.	638	0	x	.
34 Miscellaneous stamping and coating	0	0	112	84	.	x	.	.
41 Natural resources and extractive industries	.	52	0	0	540	9,614	0	.
51 Agricultural equipment	.	0	0	13	0	128	.	.
52 Non electrical machinery	.	0	1,226	0	.	4,655	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	0	.	.	.	0	x	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	0	0	.	.	0	0	.	.
<b>Total domestic shipments</b>	<b>112</b>	<b>2,289</b>	<b>7,558</b>	<b>6,508</b>	<b>42,171</b>	<b>28,088</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>2,693</b>	<b>0</b>	<b>.</b>
81 Exports to the United States	x	785	1,130	2,362	222	8,443	x	.
82 Exports to other countries (excluding United States)	x	0	21	0	0	7,984	x	0
<b>Total disposition</b>	<b>x</b>	<b>3,074</b>	<b>8,709</b>	<b>8,870</b>	<b>42,393</b>	<b>44,515</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>3,954</b>	<b>0</b>	<b>.</b>
Producers interchange, for sale	x	.	0	.	.	x	x	.
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 2009

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	1,733	12,405	61,521	13,392	1,843	21,790	135,627
21 Motor vehicles and parts	722	0	11,058	3,909	0	15,780	35,768
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	0	0	.	.	.	0
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	4,107	1,948	0	.	2,210	49,820
32 Metal building systems	.	.	0	.	.	2,088	2,088
33 Contractors' products	x	76	4,333	1,506	.	21,187	27,794
34 Miscellaneous stamping and coating	x	0	x	2,196	.	x	22,007
41 Natural resources and extractive industries	44	0	17	0	.	1	10,268
51 Agricultural equipment	36	327	0	0	.	.	504
52 Non electrical machinery	0	180	110	0	.	0	6,171
53 Electrical machinery	.	.	53	383	.	1,546	1,982
54 Industrial packaging material	.	.	0	4,046	0	0	4,046
61 Pipes and tubes	0	0	47,742	862	.	1,092	49,696
62 Wire and wire products	x	.	x	73	.	x	15,073
63 Containers and closures	0	.	0	0	5,165	.	5,165
64 Appliances and utensils industries	.	.	.	3,455	.	2,014	5,469
70 Miscellaneous industries	29	0	0	.	.	.	29
<b>Total domestic shipments</b>	<b>x</b>	<b>17,095</b>	<b>128,847</b>	<b>29,822</b>	<b>7,008</b>	<b>85,140</b>	<b>371,507</b>
<b>Total domestic alloy shipments</b>	<b>294</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>2,987</b>
81 Exports to the United States	742	4,695	x	10,279	17,002	19,158	137,018
82 Exports to other countries (excluding United States)	0	4,582	x	1,412	640	5,417	142,353
<b>Total disposition</b>	<b>x</b>	<b>26,372</b>	<b>197,686</b>	<b>41,513</b>	<b>24,650</b>	<b>109,715</b>	<b>650,878</b>
<b>Total alloy shipments</b>	<b>248</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>4,202</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	779	3,719	.	0	4,498

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 2009**

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	5	9,248	22,764	23,428	20,267	x	698	.
21 Motor vehicles and parts	385	17	482	51	.	24,247	194	.
22 Railway operating	..	.	.	.	..	18	..	.
23 Railroad cars and locomotives	.	361	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	..	1,860	8,106	14,977	196,304	x	..	.
32 Metal building systems	.	4	21	.	244	133	.	.
33 Contractors' products	.	..	..	.	2,328	x	x	.
34 Miscellaneous stamping and coating	..	..	1,276	954	.	x	.	.
41 Natural resources and extractive industries	.	589	78	..	4,741	65,653	..	.
51 Agricultural equipment	.	..	..	41	..	1,780	.	.
52 Non electrical machinery	.	..	10,809	14	.	31,436	..	.
53 Electrical machinery	.	.	.	.	.	..	.	.
54 Industrial packaging material	.	.	.	.	.	..	.	.
61 Pipes and tubes	.	.	.	.	.	..	.	.
62 Wire and wire products	12,701	.	.	.	339	x	x	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	2,451	..	.	.	..	862	.	.
<b>Total domestic shipments</b>	<b>15,542</b>	<b>12,079</b>	<b>43,536</b>	<b>39,465</b>	<b>224,223</b>	<b>189,401</b>	<b>x</b>	<b>0</b>
<b>Total domestic alloy shipments</b>	..	.	.	.	.	<b>22,651</b>	..	.
81 Exports to the United States	x	5,122	13,560	19,706	819	x	x	.
82 Exports to other countries (excluding United States)	x	..	417	21	..	x	x	..
<b>Total disposition</b>	<b>x</b>	<b>17,201</b>	<b>57,513</b>	<b>59,192</b>	<b>225,042</b>	<b>310,550</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	..	.	.	.	.	<b>33,960</b>	..	.
Producers interchange, for sale	x	.	..	.	.	x	x	.
Exports for conversion and return	.	.	.	.	.	..	.	.
Imports by producers (including conversion)	x	.	.	.	.	.	..	.

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 2009

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	80,951	558,331	124,841	8,567	160,065	1,070,870
21 Motor vehicles and parts	4,618	..	105,208	22,671	..	122,359	280,232
22 Railway operating	..	..	..	..	..	..	18
23 Railroad cars and locomotives	..	190	..	..	..	..	551
24 Shipbuilding	..	..	..	..	..	..	..
31 Steel fabrication	x	24,223	20,411	86	..	15,861	285,712
32 Metal building systems	..	..	493	..	..	10,037	10,932
33 Contractors' products	x	178	23,838	10,221	..	105,783	143,582
34 Miscellaneous stamping and coating	x	..	x	17,743	..	x	116,765
41 Natural resources and extractive industries	145	..	23	..	..	2	71,231
51 Agricultural equipment	408	749	..	..	..	..	2,978
52 Non electrical machinery	..	398	748	..	..	..	43,405
53 Electrical machinery	..	..	153	4,144	..	6,208	10,505
54 Industrial packaging material	..	..	3,251	15,223	..	..	18,474
61 Pipes and tubes	59	..	424,649	7,047	..	9,673	441,428
62 Wire and wire products	x	..	x	227	..	x	100,968
63 Containers and closures	..	..	49	981	32,158	..	33,188
64 Appliances and utensils industries	..	..	..	24,101	..	12,461	36,562
70 Miscellaneous industries	405	34	..	..	..	..	3,752
<b>Total domestic shipments</b>	<b>x</b>	<b>106,723</b>	<b>1,147,954</b>	<b>227,285</b>	<b>40,725</b>	<b>528,487</b>	<b>2,671,153</b>
<b>Total domestic alloy shipments</b>	<b>984</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>23,635</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	x	34,436	x	72,063	75,790	128,976	976,538
82 Exports to other countries (excluding United States)	..	6,369	x	9,065	x	46,776	350,922
<b>Total disposition</b>	<b>x</b>	<b>147,528</b>	<b>1,650,833</b>	<b>308,413</b>	<b>x</b>	<b>704,239</b>	<b>3,998,613</b>
<b>Total alloy shipments</b>	<b>1,102</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>35,062</b>
Producers interchange, for sale	..	..	x	..	..	..	x
Exports for conversion and return <sup>2</sup>	..	..	..	..	..	..	..
Imports by producers (including conversion)	..	27	1,996	7,765	..	..	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	
	2008	2009	2008	2009
	metric tonnes			
Production of pig iron	853,527	362,334	5,021,830	2,442,863

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

	June		Year-to-date	
	2008	2009	2008	2009
	metric tonnes			
Pig iron including pre-reduced iron	832,815	344,537	4,871,138	2,425,810
<b>Scrap</b>				
Own make	137,211	96,811	830,046	640,829
Purchased	563,008	314,241	3,615,915	1,704,639
<b>Total, pig iron and scrap products</b>	<b>1,533,034</b>	<b>755,589</b>	<b>9,317,099</b>	<b>4,771,278</b>

**Table 1-5**  
**Steel primary forms and pig iron — Production and shipments of steel, primary forms, monthly**

	Production		Shipments	
	2008	2009	2008	2009
	metric tonnes			
<b>June</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	536,185	421,308	x	x
Basic oxygen furnace	881,241	275,956	x	x
<b>Steel, primary forms - Total</b>	<b>1,417,426</b>	<b>697,264</b>	<b>269,384</b>	<b>x</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,404,127	606,414	252,939	x

**Table 1-6**  
**Steel primary forms and pig iron — Production and shipments of steel, primary forms, year-to-date**

	Production		Shipments	
	2008	2009	2008	2009
	metric tonnes			
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	3,359,735	1,751,069	x	x
Basic oxygen furnace	5,129,532	2,423,063	x	x
<b>Steel, primary forms - Total</b>	<b>8,489,267</b>	<b>4,174,132</b>	<b>1,464,344</b>	<b>x</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	8,409,537	4,036,116	1,380,697	x

**Table 2-1**  
**Steel pipe and tubing — Production and shipments, monthly 2009**

	Production	Shipments for sale		Total shipments
		Domestic shipments <sup>1</sup>	Exports	
metric tonnes				
<b>June</b>				
<b>Total, pipe and tubing</b>	<b>114,959</b>	<b>61,450</b>	<b>78,527</b>	<b>139,977</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	11	0	11
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	3,336	5,902	0	5,902
over 16" (40.64 cm) outside diameter	34,848	2,474	37,352	39,826
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	14,127	20,228	7,368	27,596
over 16" (40.64 cm) periphery	33,886	11,507	22,298	33,805
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	3,179	863	2,532	3,395
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	3,199	2,823	192	3,015
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	268	76	344
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	244	60	25	85
over 16" (40.64 cm) outside diameter	1,272	0	112	112
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	7,559	4,979	2,432	7,411
Mechanical tubing, welded, produced from cold rolled	5,742	4,207	1,845	6,052
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	8,879	5,222	3,608	8,830
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	80	1,822	267	2,089
<b>Other tubular products</b>	x	1,084	421	1,505

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 2009**

	Production	Shipments for sale		Total shipments
		Domestic shipments <sup>1</sup>	Exports	
metric tonnes				
<b>Year-to-date</b>				
<b>Total, pipe and tubing</b>	<b>840,343</b>	<b>486,760</b>	<b>363,497</b>	<b>850,257</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	547	313	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	47,050	x	x	x
over 16" (40.64 cm) outside diameter	210,610	79,228	141,320	220,548
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	69,256	81,533	38,290	119,823
over 16" (40.64 cm) periphery	169,412	56,811	111,389	169,200
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	14,972	7,605	9,682	17,287
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	8,146	7,203	1,361	8,564
<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	x	x	x	2,627
over 16" (40.64 cm) outside diameter	8,471	491	470	961
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	50,267	39,278	21,165	60,443
Mechanical tubing, welded, produced from cold rolled	39,422	x	x	32,260
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	159,445	126,581	24,826	151,407
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	22,058	13,667	..	15,064
<b>Other tubular products</b>	x	5,579	2,741	8,320

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
	2008	2009		
		Total shipments	Domestic shipments	
metric tonnes				
<b>June</b>				
Barbed wire	x	x	x	x
Uncoated steel wire	16,201	14,884	8,728	6,156
Galvanized steel wire	12,754	10,207	4,127	6,080
Other coated steel wire	x	x	x	x
Farm fencing and wire chain link fabric	3,108	2,625	x	x
Wire mesh, bright or uncoated and galvanized	5,432	3,803	x	x
Wire rope	2,754	1,969	x	x
Nails and staples	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	2,044	1,251	560	691
Staples of iron or steel	x	x	x	x
All other wire products	x	1,872	1,869	3
<b>Grand total</b>	<b>49,220</b>	<b>41,014</b>	<b>25,061</b>	<b>15,953</b>

1. Totals may not add due to rounding.

**Table 3-2**  
**Steel and specified wire products — Factory shipments 1, year-to-date**

	Shipments				Production
	2008	2009			
		Total shipments	Domestic shipments	Exports	
	metric tonnes				
Barbed wire	x	x	x	x	.
Uncoated steel wire	113,464	77,753	44,075	33,678	.
Galvanized steel wire	85,425	55,648	21,824	33,824	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	x	x	x	x	x
Wire mesh, bright or uncoated and galvanized	33,417	19,819	x	x	19,317
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	12,133	5,471	2,563	2,908	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	..	x
<b>Grand total</b>	<b>321,301</b>	<b>224,754</b>	<b>135,941</b>	<b>88,813</b>	.

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) ).