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# Steel, Tubular Products and Steel Wire

September 2009



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Statistics Canada  
Manufacturing, Construction and Energy Division

# Steel, Tubular Products and Steel Wire

September 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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## September 2009

- Monthly production of primary steel and pig iron increased 28.2 % in September 2009 to 939,822 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 19.2 % to 853,176 metric tonnes.
- Between August 2009 and September 2009, production of steel pipe and tubing increased 15 % to 133,098 metric tonnes.
- Total shipments of steel wire and specified wire products increased 6.6 % to 37,171 metric tonnes in September 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>September</b>								
<b>Domestic shipments</b>								
11 Steel service centres and other wholesalers and warehouses	4	1,340	3,939	3,966	4,597	x	0	.
21 Motor vehicles and parts	72	0	53	12	.	5,163	0	.
22 Railway operating	0	.	.	.	0	0	0	.
23 Railroad cars and locomotives	.	109	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	1,021	613	4,192	63,567	x	0	.
32 Metal building systems	.	0	0	.	82	0	.	.
33 Contractors' products	.	0	0	.	132	35	0	.
34 Miscellaneous stamping and coating	0	0	23	97	.	1,474	.	.
41 Natural resources and extractive industries	.	66	12	0	850	10,846	0	.
51 Agricultural equipment	.	0	0	0	0	77	.	0
52 Non electrical machinery	.	0	1,581	0	.	5,720	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>76</b>	<b>2,536</b>	<b>6,221</b>	<b>8,267</b>	<b>69,228</b>	<b>30,131</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>4,018</b>	<b>0</b>	<b>.</b>
81 Exports to the United States	0	577	2,008	3,111	0	11,527	x	.
82 Exports to other countries (excluding United States)	29,271	0	106	0	0	20,304	x	0
<b>Total disposition</b>	<b>29,347</b>	<b>3,113</b>	<b>8,335</b>	<b>11,378</b>	<b>69,228</b>	<b>61,962</b>	<b>x</b>	<b>0</b>
<b>Total alloy shipments</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>6,654</b>	<b>0</b>	<b>.</b>
Producers interchange, for sale	x	.	0	.	.	249	113	.
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>September</b>							
<b>Domestic shipments</b>							
11 Steel service centres and other wholesalers and warehouses	x	13,123	131,121	23,059	1,876	31,014	221,320
21 Motor vehicles and parts	1,182	0	23,113	5,666	0	28,274	63,535
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	109	0	.	.	.	218
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	x	5,032	5,033	0	.	3,483	83,346
32 Metal building systems	.	.	80	.	.	2,933	3,095
33 Contractors' products	x	0	5,304	x	.	23,467	32,556
34 Miscellaneous stamping and coating	x	0	2,588	x	.	18,208	26,499
41 Natural resources and extractive industries	39	3	0	0	.	1	11,817
51 Agricultural equipment	64	621	0	0	.	.	762
52 Non electrical machinery	0	184	335	0	.	0	7,820
53 Electrical machinery	.	.	50	1,902	.	1,645	3,597
54 Industrial packaging material	.	.	20	5,595	0	0	5,615
61 Pipes and tubes	0	0	67,276	1,167	.	1,008	69,451
62 Wire and wire products	x	.	107	35	.	41	19,434
63 Containers and closures	0	.	0	25	4,420	.	4,445
64 Appliances and utensils industries	.	.	.	3,900	.	2,232	6,132
70 Miscellaneous industries	35	0	0	.	.	.	35
<b>Total domestic shipments</b>	<b>x</b>	<b>19,072</b>	<b>235,027</b>	<b>49,001</b>	<b>6,296</b>	<b>112,306</b>	<b>559,677</b>
<b>Total domestic alloy shipments</b>	<b>291</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>4,309</b>
81 Exports to the United States	859	5,571	x	13,207	12,683	31,843	190,112
82 Exports to other countries (excluding United States)	0	0	x	5,654	708	6,022	103,387
<b>Total disposition</b>	<b>x</b>	<b>24,643</b>	<b>356,057</b>	<b>67,862</b>	<b>19,687</b>	<b>150,171</b>	<b>853,176</b>
<b>Total alloy shipments</b>	<b>291</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>6,945</b>
Producers interchange, for sale	0	.	0	0	.	0	x
Exports for conversion and return	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	81	26	2,941	.	0	3,048

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	14	13,528	36,371	35,752	33,648	x	698	.
21 Motor vehicles and parts	773	17	616	81	.	36,779	194	.
22 Railway operating	..	.	.	.	..	60	..	.
23 Railroad cars and locomotives	.	639	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	..	3,400	10,446	23,004	338,070	x	..	.
32 Metal building systems	.	4	21	.	326	210	.	.
33 Contractors' products	..	..	..	..	3,721	x	x	.
34 Miscellaneous stamping and coating	..	..	1,407	1,097	.	x	.	.
41 Natural resources and extractive industries	.	764	90	..	6,483	x	..	.
51 Agricultural equipment	..	..	..	41	..	2,140	.	65
52 Non electrical machinery	.	..	15,951	30	.	47,142	..	.
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>15,939</b>	<b>18,352</b>	<b>64,902</b>	<b>60,005</b>	<b>382,587</b>	<b>275,024</b>	<b>x</b>	<b>65</b>
<b>Total domestic alloy shipments</b>	..	.	.	.	.	<b>33,308</b>	..	.
81 Exports to the United States	x	7,347	19,686	27,862	1,034	x	x	.
82 Exports to other countries (excluding United States)	x	..	534	21	..	x	x	..
<b>Total disposition</b>	<b>x</b>	<b>25,699</b>	<b>85,122</b>	<b>87,888</b>	<b>383,621</b>	<b>478,782</b>	<b>x</b>	<b>65</b>
<b>Total alloy shipments</b>	..	.	.	.	.	<b>50,694</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	123,230	885,095	176,438	12,898	238,002	1,641,506
21 Motor vehicles and parts	7,781	..	160,707	36,796	..	189,520	433,264
22 Railway operating	..	..	..	..	..	..	60
23 Railroad cars and locomotives	..	444	..	..	..	..	1,083
24 Shipbuilding	..	..	..	..	..	..	..
31 Steel fabrication	x	35,102	32,951	86	..	23,981	472,732
32 Metal building systems	..	..	573	..	..	17,210	18,344
33 Contractors' products	x	244	35,474	x	..	180,867	239,063
34 Miscellaneous stamping and coating	x	..	x	x	..	x	188,530
41 Natural resources and extractive industries	277	6	23	..	..	4	x
51 Agricultural equipment	482	1,425	..	..	..	..	4,153
52 Non electrical machinery	..	601	1,234	..	..	..	64,958
53 Electrical machinery	..	..	220	7,362	..	10,256	17,838
54 Industrial packaging material	..	..	3,381	25,894	..	..	29,275
61 Pipes and tubes	59	..	586,688	8,816	..	13,081	608,644
62 Wire and wire products	x	..	x	x	..	x	x
63 Containers and closures	..	..	49	1,006	44,289	..	45,344
64 Appliances and utensils industries	..	..	..	34,464	..	18,308	52,772
70 Miscellaneous industries	514	34	..	..	..	..	3,861
<b>Total domestic shipments</b>	<b>x</b>	<b>161,086</b>	<b>1,722,479</b>	<b>336,193</b>	<b>57,187</b>	<b>831,762</b>	<b>4,076,116</b>
<b>Total domestic alloy shipments</b>	<b>1,772</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>35,080</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	x	50,134	x	102,603	118,035	203,981	1,482,805
82 Exports to other countries (excluding United States)	..	6,369	x	17,278	x	63,604	632,723
<b>Total disposition</b>	<b>x</b>	<b>217,589</b>	<b>2,599,726</b>	<b>456,074</b>	<b>x</b>	<b>1,099,347</b>	<b>6,191,644</b>
<b>Total alloy shipments</b>	<b>1,868</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>52,562</b>
Producers interchange, for sale	..	..	x	..	..	..	x
Exports for conversion and return <sup>2</sup>	..	..	..	..	..	..	..
Imports by producers (including conversion)	..	215	2,733	12,836	..	..	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**

	September		Year-to-date	
	2008	2009	2008	2009
	metric tonnes			
Production of pig iron	722,832	534,109	7,372,349	x

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

	September		Year-to-date	
	2008	2009	2008	2009
	metric tonnes			
Pig iron including pre-reduced iron	719,475	522,231	7,188,741	x
<b>Scrap</b>				
Own make	117,540	102,481	1,203,016	926,739
Purchased	569,681	420,410	5,304,065	2,658,794
<b>Total, pig iron and scrap products</b>	<b>1,406,696</b>	<b>1,045,122</b>	<b>13,695,822</b>	<b>7,263,804</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>September</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	552,736	409,264	x	x
Basic oxygen furnace	786,882	530,558	x	x
<b>Steel, primary forms - Total</b>	<b>1,339,618</b>	<b>939,822</b>	<b>211,605</b>	<b>169,966</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,330,064	932,491	194,749	164,437

**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	4,966,249	x	x	x
Basic oxygen furnace	7,587,797	x	x	x
<b>Steel, primary forms - Total</b>	<b>12,554,046</b>	<b>6,418,888</b>	<b>2,206,815</b>	<b>x</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	12,444,723	6,203,528	2,081,799	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>September</b>				
<b>Total, pipe and tubing</b>	<b>133,098</b>	<b>64,758</b>	<b>39,613</b>	<b>104,371</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	214	..	214
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	11,790	x	x	8,524
over 16" (40.64 cm) outside diameter	19,684	x	x	1,336
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	12,634	12,067	6,050	18,117
over 16" (40.64 cm) periphery	38,887	7,922	13,955	21,877
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	4,323	1,284	2,084	3,368
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	2,000	1,443	187	1,630
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	474	470	135	605
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	808	91	50	141
over 16" (40.64 cm) outside diameter	1,028	41	1	42
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	12,831	9,802	4,883	14,685
Mechanical tubing, welded, produced from cold rolled	9,691	5,355	2,080	7,435
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	17,960	14,636	6,694	21,330
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	31	1,871	924	2,795
<b>Other tubular products</b>	x	1,075	1,197	2,272

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>1,185,120</b>	<b>656,152</b>	<b>500,056</b>	<b>1,156,208</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	x	x	..	x
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	70,914	x	x	x
over 16" (40.64 cm) outside diameter	271,432	x	x	248,312
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	103,994	115,486	56,346	171,832
over 16" (40.64 cm) periphery	272,278	81,894	158,309	241,203
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	26,413	11,948	16,649	28,597
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	13,174	11,044	2,495	13,539
<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	3,056
over 16" (40.64 cm) outside diameter	12,399	x	x	1,185
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	82,344	65,701	33,464	99,165
Mechanical tubing, welded, produced from cold rolled	61,197	x	x	50,515
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	198,341	155,211	36,584	191,795
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	25,864	18,970	..	22,380
<b>Other tubular products</b>	x	8,321	5,928	14,249

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		Exports	
		Total shipments	Domestic shipments		
metric tonnes					
<b>September</b>					
Barbed wire	x	x	x	x	.
Uncoated steel wire	15,188	16,029	8,469	7,560	.
Galvanized steel wire	11,677	6,952	2,738	4,214	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	x	x	x	x	2,634
Wire mesh, bright or uncoated and galvanized	5,235	3,853	x	x	4,243
Wire rope	4,049	x	986	x	x
Nails and staples	x	x	1,633	1,440	x
Wire roofing nails of a length of 25 mm or more, iron or steel	1,087	1,186	x	x	699
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	3	1,596
<b>Grand total</b>	<b>45,341</b>	<b>37,171</b>	<b>21,797</b>	<b>15,374</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	158,355	120,866	67,772	53,094	.
Galvanized steel wire	121,316	75,063	29,867	45,196	.
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	48,865	31,136	x	x	30,567
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	16,395	8,782	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	..	x
<b>Grand total</b>	<b>457,305</b>	<b>330,287</b>	<b>200,008</b>	<b>130,279</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) ).