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# Steel, Tubular Products and Steel Wire



September 2006



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Statistics Canada  
Manufacturing, Construction and Energy Division

# Steel, Tubular Products and Steel Wire

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## Symbols

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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 2006

- In September, monthly production of primary steel and pig iron increased by 4.6% to reach 1,310,514 metric tonnes.
- Total dispositions of rolled steel products fell 9.6% to 1,196,949 metric tonnes between August and September 2006.
- Steel pipe and tube production in September declined 2.3% to 227,758 metric tonnes.
- Monthly shipments of steel wire products dropped 10.5% to 44,894 metric tonnes in September.

## 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 2006**

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	..	3,925	8,198	4,553	3,371	16,930	..	.
21 Motor vehicles and parts	592	.	.	.	.	16,418	191	.
22 Railway operating	.	.	.	.	.	..	.	.
23 Railroad cars and locomotives	.	277	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	15	832	418	2,191	33,881	13,692	..	.
32 Metal building systems	.	.	.	.	..	..	.	.
33 Contractors' products	.	.	..	.	506	408	230	.
34 Miscellaneous stamping and coating	..	..	103	37	.	2,102	.	.
41 Natural resources and extractive industries	.	.	..	.	1,272	10,350	..	.
51 Agricultural equipment	.	12	7	11	.	208	.	.
52 Non electrical machinery	.	..	..	..	.	704	..	.
53 Electrical machinery	.	.	.	.	.	..	.	.
54 Industrial packaging material	.	.	.	.	.	..	.	.
61 Pipes and tubes	.	.	.	.	.	..	.	.
62 Wire and wire products	1,237	.	.	.	..	3,873	19,148	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	..	.	.	.
<b>Total domestic shipments</b>	<b>1,844</b>	<b>5,046</b>	<b>8,726</b>	<b>6,792</b>	<b>39,030</b>	<b>64,685</b>	<b>19,569</b>	..
<b>Total domestic alloy shipments</b>	.	.	.	.	.	<b>20,253</b>	..	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	41,441	5,263	9,953	6,984	9,347	37,719	30,633	.
82 Exports to other countries (excluding United States)	1,070	..	174	.	..	18,135	3,177	..
<b>Total disposition</b>	<b>44,355</b>	<b>10,309</b>	<b>18,853</b>	<b>13,776</b>	<b>48,377</b>	<b>120,539</b>	<b>53,379</b>	..
<b>Total alloy shipments</b>	.	.	.	.	.	<b>31,056</b>	..	.
Producers interchange, for sale	x	.	..	.	.	2,624	146	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	..	.	.
Imports by producers (including conversion)	17,485	.	.	.	.	.	..	.

See footnotes 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 2006**

SDC No.	Cold finished bars	Plates <sup>3</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	2,649	27,814	150,059	25,315	1,705	40,342	284,861
21 Motor vehicles and parts	2,214	..	71,641	15,505	.	51,100	157,661
22 Railway operating	.	..	.	.	.	.	..
23 Railroad cars and locomotives	.	887	173	.	.	.	1,337
24 Shipbuilding	.	.	.	.	.	.	..
31 Steel fabrication	152	7,703	7,848	..	.	304	67,036
32 Metal building systems	.	.	..	.	.	4,875	4,875
33 Contractors' products	31	16	4,920	1,455	.	36,258	43,824
34 Miscellaneous stamping and coating	182	39	3,595	4,457	.	18,977	29,492
41 Natural resources and extractive industries	11	.	..	..	.	..	11,633
51 Agricultural equipment	99	489	204	.	.	.	1,030
52 Non electrical machinery	62	144	.	..	.	.	910
53 Electrical machinery	.	.	.	3,754	.	1,336	5,090
54 Industrial packaging material	.	.	187	10,093	..	..	10,280
61 Pipes and tubes	5	..	166,249	1,549	.	1,811	169,614
62 Wire and wire products	719	.	1,055	1,000	.	40	27,072
63 Containers and closures	.	.	731	118	12,563	.	13,412
64 Appliances and utensils industries	.	.	.	6,150	.	3,455	9,605
70 Miscellaneous industries	182	.	.	.	.	.	182
<b>Total domestic shipments</b>	<b>6,306</b>	<b>37,092</b>	<b>406,662</b>	<b>69,396</b>	<b>14,268</b>	<b>158,498</b>	<b>837,914</b>
<b>Total domestic alloy shipments</b>	<b>179</b>	<b>..</b>	<b>.</b>	<b>..</b>	<b>.</b>	<b>.</b>	<b>20,432</b>
<b>Exports <sup>2</sup> (for final sale)</b>							
81 Exports to the United States	7,760	18,140	78,890	19,256	12,739	32,335	310,460
82 Exports to other countries (excluding United States)	.	1,714	5,913	3,211	1,128	14,053	48,575
<b>Total disposition</b>	<b>14,066</b>	<b>56,946</b>	<b>491,465</b>	<b>91,863</b>	<b>28,135</b>	<b>204,886</b>	<b>1,196,949</b>
<b>Total alloy shipments</b>	<b>179</b>	<b>..</b>	<b>.</b>	<b>..</b>	<b>.</b>	<b>.</b>	<b>31,235</b>
Producers interchange, for sale	.	.	1,596	x	.	.	73,508
Exports for conversion and return <sup>2</sup>	.	.	..	.	.	.	..
Imports by producers (including conversion)	.	1,407	25,613	14,564	.	3,300	62,369

1. Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

2. These data include exports reported by steel producers only and are not the same as published in the Exports by commodities, catalogue number 65-004-XPB.

3. 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 2006**

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	..	27,921	74,530	63,394	27,777	194,532	..	.
21 Motor vehicles and parts	..	.	.	.	.	204,230	1,592	.
22 Railway operating	.	.	.	.	.	..	.	.
23 Railroad cars and locomotives	.	3,225	.	.	.	.	.	.
24 Shipbuilding	..	.	.	.	.	.	.	.
31 Steel fabrication	..	6,826	15,894	38,999	280,263	138,159	..	.
32 Metal building systems	.	.	.	.	..	..	.	.
33 Contractors' products	.	.	..	.	..	6,276	2,322	.
34 Miscellaneous stamping and coating	..	..	3,458	2,831	.	13,415	.	.
41 Natural resources and extractive industries	.	.	..	.	9,193	103,026	..	.
51 Agricultural equipment	.	..	..	..	.	3,368	.	.
52 Non electrical machinery	.	..	..	..	.	5,348	..	.
53 Electrical machinery	.	.	.	.	.	..	.	.
54 Industrial packaging material	.	.	.	.	.	..	.	.
61 Pipes and tubes	.	.	.	.	.	..	.	.
62 Wire and wire products	..	.	.	.	..	35,416	163,988	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	..	.	.	.
<b>Total domestic shipments</b>	<b>5,084</b>	<b>38,014</b>	<b>94,081</b>	<b>105,290</b>	<b>318,906</b>	<b>703,996</b>	<b>167,975</b>	..
<b>Total domestic alloy shipments</b>	.	.	.	.	.	<b>221,732</b>	..	.
<b>Exports <sup>2</sup> (for final sale)</b>								
81 Exports to the United States	x	24,856	117,421	88,427	34,298	402,328	x	.
82 Exports to other countries (excluding United States)	x	..	3,037	.	..	172,458	x	..
<b>Total disposition</b>	<b>x</b>	<b>63,277</b>	<b>214,539</b>	<b>193,717</b>	<b>353,204</b>	<b>1,278,782</b>	<b>x</b>	..
<b>Total alloy shipments</b>	.	.	.	.	.	<b>355,588</b>	..	.
Producers interchange, for sale	x	.	..	.	.	20,137	550	.
Exports for conversion and return <sup>2</sup>	.	.	.	.	.	..	.	.
Imports by producers (including conversion)	524,321	.	.	.	.	.	..	.

See footnotes 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 2006

SDC No.	Cold finished bars	Plates <sup>3</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	26,246	296,830	1,483,400	299,750	21,258	374,646	2,890,382
21 Motor vehicles and parts	20,023	..	869,510	165,994	.	543,054	1,807,996
22 Railway operating	.	..	.	.	.	.	..
23 Railroad cars and locomotives	.	18,330	4,796	.	.	.	26,351
24 Shipbuilding	.	..	.	.	.	.	..
31 Steel fabrication	1,576	58,182	51,077	..	.	6,586	597,781
32 Metal building systems	.	..	..	.	.	30,932	31,111
33 Contractors' products	454	1,562	44,909	18,061	.	311,330	386,584
34 Miscellaneous stamping and coating	2,184	..	62,121	47,978	.	175,568	317,829
41 Natural resources and extractive industries	627	..	..	..	.	..	112,949
51 Agricultural equipment	1,458	2,204	..	..	.	..	9,300
52 Non electrical machinery	588	3,272	.	..	.	..	9,288
53 Electrical machinery	.	..	.	42,079	.	10,970	53,049
54 Industrial packaging material	.	..	4,377	112,046	..	..	116,911
61 Pipes and tubes	..	..	1,499,148	20,473	.	15,117	1,534,973
62 Wire and wire products	6,326	..	..	2,154	.	402	211,106
63 Containers and closures	.	..	4,920	1,921	120,687	.	127,528
64 Appliances and utensils industries	.	..	.	54,555	.	28,476	83,031
70 Miscellaneous industries	1,388	..	.	.	.	.	1,388
<b>Total domestic shipments</b>	<b>61,005</b>	<b>390,654</b>	<b>4,027,932</b>	<b>765,163</b>	<b>142,355</b>	<b>1,497,102</b>	<b>8,317,557</b>
<b>Total domestic alloy shipments</b>	<b>1,335</b>	..	.	..	.	.	<b>223,067</b>
<b>Exports<sup>2</sup> (for final sale)</b>							
81 Exports to the United States	x	158,304	587,487	171,636	95,798	350,423	2,682,382
82 Exports to other countries (excluding United States)	.	14,314	43,747	13,753	13,418	106,109	403,901
<b>Total disposition</b>	<b>x</b>	<b>563,272</b>	<b>4,659,166</b>	<b>950,552</b>	<b>251,571</b>	<b>1,953,634</b>	<b>11,403,840</b>
<b>Total alloy shipments</b>	<b>1,335</b>	..	.	..	.	.	<b>356,923</b>
Producers interchange, for sale	.	.	21,536	x	.	.	689,997
Exports for conversion and return <sup>2</sup>	.	..	..	.	.	.	..
Imports by producers (including conversion)	.	24,132	213,962	130,847	.	..	896,562

1. Compiled by principal consuming industries, according to distribution of shipments reported by iron and steel mills.

2. These data include exports reported by steel producers only and are not the same as published in the Exports by commodities, catalogue number 65-004-XPB.

3. 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	
	2005	2006	2005	2006
metric tonnes				
Production of pig iron	692,943	702,530	6,228,620	6,434,874

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

	September		Year-to-date	
	2005	2006	2005	2006
	metric tonnes			
Pig iron including pre-reduced iron	714,079	746,774	6,478,447	6,842,055
<b>Scrap</b>				
Own make	159,412	182,944	1,619,998	1,581,182
Purchased	551,566	518,207	4,697,635	4,642,164
<b>Total, pig iron and scrap products</b>	<b>1,425,057</b>	<b>1,447,925</b>	<b>12,796,080</b>	<b>13,065,401</b>

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

	Production		Shipments	
	2005	2006	2005	2006
	metric tonnes			
<b>September</b>				
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	552,860	557,911	39,834	79,926
Basic oxygen furnace	746,847	752,603	..	11,727
<b>Steel, primary forms - Total</b>	<b>1,299,707</b>	<b>1,310,514</b>	<b>39,834</b>	<b>91,653</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	1,284,673	1,292,883	35,176	88,005

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

	Production		Shipments	
	2005	2006	2005	2006
	metric tonnes			
<b>Steel, primary forms (carbon and alloy including continuous cast steel)</b>				
Electric furnace	4,835,983	4,871,824	x	x
Basic oxygen furnace	6,738,624	7,045,957	..	x
<b>Steel, primary forms - Total</b>	<b>11,574,607</b>	<b>11,917,781</b>	<b>x</b>	<b>x</b>
<b>Included in "Steel primary forms total" above</b>				
Continuous cast steel	11,445,962	11,772,403	x	x

**Table 2-1**  
**Steel pipe and tubing — Production and shipments, monthly 2006**

	Production	Shipments for sale		Total shipments
		Domestic <sup>1</sup> shipments	Exports <sup>2</sup>	
metric tonnes				
<b>September</b>				
<b>Total, pipe and tubing</b>	<b>227,758</b>	<b>136,806</b>	<b>91,591</b>	<b>228,397</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	9,842	7,120	63	7,183
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	17,210	19,860	0	19,860
over 16" (40.64 cm) outside diameter	30,313	6,088	28,097	34,185
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	18,405	8,089	9,796	17,885
over 16" (40.64 cm) periphery	46,343	14,261	29,383	43,644
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	5,760	1,662	3,401	5,063
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	2,056	585	959	1,544
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	1,741	815	239	1,054
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	1,638	445	2,083
over 16" (40.64 cm) outside diameter	2,501	1,401	924	2,325
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	26,581	18,521	7,054	25,575
Mechanical tubing, welded, produced from cold rolled	14,185	5,860	2,531	8,391
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	29,375	40,681	5,436	46,117
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	21,395	7,778	2,135	9,913
<b>Other tubular products</b>	x	2,447	1,128	3,575

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

2. As reported by respondents to this survey. For total exports see Exports by commodity, catalogue number 65-004-XPB.

**Table 2-2**  
**Steel pipe and tubing — Production and shipments, year-to-date 2006**

	Production	Shipments for sale		Total shipments
		Domestic <sup>1</sup> shipments	Exports <sup>2</sup>	
metric tonnes				
<b>Year-to-date</b>				
<b>Total, pipe and tubing</b>	<b>2,264,830</b>	<b>1,369,627</b>	<b>890,136</b>	<b>2,259,763</b>
<b>Pipe welded and seamless</b>				
<b>Line pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	103,134	73,504	296	73,800
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	68,721	114,027	..	114,027
over 16" (40.64 cm) outside diameter	334,855	73,390	208,660	282,050
<b>Hollow structural sections</b>				
up to and including 16" (40.64 cm) periphery	198,469	92,968	106,866	199,834
over 16" (40.64 cm) periphery	446,425	135,990	300,051	436,041
<b>Standard pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	41,146	12,332	26,960	39,292
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	11,018	3,021	9,078	12,099
<b>Other pipe</b>				
up to and including 4 1/2" (11.43 cm) outside diameter	14,760	9,253	2,299	11,552
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x	x	x	25,731
over 16" (40.64 cm) outside diameter	28,362	x	x	19,479
<b>Mechanical tubing</b>				
Mechanical tubing, welded, produced from hot rolled	281,124	183,819	82,559	266,378
Mechanical tubing, welded, produced from cold rolled	120,054	50,318	23,363	73,681
<b>Oil country tubular goods</b>				
Oil country tubular goods, welded and seamless, casing (including coupling)	471,385	x	x	561,518
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	118,184	x	x	105,741
<b>Other tubular products</b>	x	x	x	38,540

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

2. As reported by respondents to this survey. For total exports see Exports by commodity, catalogue number 65-004-XPB.

**Table 3-1**  
**Steel and specified wire products — Factory shipments<sup>1</sup>, monthly**

	Shipments			Production	
	2005	2006			
		Total shipments	Domestic shipments		Exports <sup>2</sup>
metric tonnes					
<b>September</b>					
Barbed wire	x	347	x	x	.
Uncoated steel wire	21,457	16,346	8,911	7,435	.
Galvanized steel wire	13,932	12,746	5,253	7,493	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	959	947	x	x	990
Wire mesh, bright or uncoated and galvanized	5,079	4,808	x	x	4,897
Wire rope	3,502	3,489	x	x	3,368
Nails and staples	x	x	x	x	x
Wire roofing nails of a length of 25 mm or more, iron or steel	4,358	3,744	x	x	x
Staples of iron or steel	x	x	x	0	x
All other wire products	2,306	2,165	2,104	x	x
<b>Grand total</b>	<b>52,109</b>	<b>44,894</b>	<b>26,076</b>	<b>18,818</b>	.

1. Totals may not add due to rounding.

2. As reported by respondents to this survey. For total exports see Exports by commodity, catalogue number 65-004-XPB.

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

	Shipments			Production	
	2005	2006			
		Total shipments	Domestic shipments		Exports <sup>2</sup>
metric tonnes					
Barbed wire	x	x	x	x	.
Uncoated steel wire	189,041	167,740	92,826	74,914	.
Galvanized steel wire	117,864	122,444	49,984	72,460	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	8,619	9,156	x	x	9,793
Wire mesh, bright or uncoated and galvanized	x	39,342	x	x	41,861
Wire rope	30,659	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	x	42,099	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
<b>Grand total</b>	<b>x</b>	<b>439,353</b>	<b>248,946</b>	<b>190,407</b>	.

1. Totals may not add due to rounding.

2. As reported by respondents to this survey. For total exports see Exports by commodity, catalogue number 65-004-XPB.



## 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
	percentage	
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.

More detailed information is available from the Annual Survey of Manufactures and Logging, CANSIM Table 301-0003. Specific enquiries should be directed to: The Marketing and Dissemination Section, Manufacturing, Construction and Energy Division, Statistics Canada, Ottawa, Ontario, K1A 0T6 (Telephone: 1-866-873-8789 or (613) 951-9497; Fax: (613) 951-9499; Internet: [manufact@statcan.ca](mailto:manufact@statcan.ca) ).