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Steel, Tubular Products and Steel Wire

September 2007



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Manufacturing, Construction and Energy Division

Steel, Tubular Products and Steel Wire

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User information

Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published

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Highlights

September 2007

- Monthly production of primary steel and pig iron rose 24.7% in September 2007 to 1,365,784 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products edged down 1.2% to 1,158,504 metric tonnes.
- Between August 2007 and September 2007, production of steel pipe and tubing grew 27.2% to 223,113 metric tonnes.
- Total shipments of steel wire and specified wire products fell 6.7% to 44,063 metric tonnes in September 2007.

Related products

Selected CANSIM tables from Statistics Canada

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

Selected surveys from Statistics Canada

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

Statistical tables

Table 1-1

Steel primary forms and pig iron — Disposition of net shipments ¹ of rolled steel products, by product, monthly 2007

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								
September								
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses	296	4,170	5,441	5,566	2,259	19,596	12	.
21 Motor vehicles and parts	288	.	.	.	.	12,978	0	.
22 Railway operating	0	.	.	.	.	0	0	.
23 Railroad cars and locomotives	.	434	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	0	883	932	3,696	25,206	14,187	0	.
32 Metal building systems	.	.	.	.	0	0	.	.
33 Contractors' products	.	0	0	.	105	434	57	.
34 Miscellaneous stamping and coating	0	107	215	253	.	792	.	.
41 Natural resources and extractive industries	.	.	0	0	1,040	11,336	0	.
51 Agricultural equipment	.	0	0	0	0	270	.	.
52 Non electrical machinery	.	0	0	0	.	293	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	757	.	.	.	0	1,518	27,306	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	0	1,037	.	.
Total domestic shipments	1,341	5,594	6,588	9,515	28,610	62,441	27,375	0
Total domestic alloy shipments	0	.	.	.	.	23,160	0	.
Exports ² (for final sale)								
81 Exports to the United States	x	2,586	9,590	7,959	0	30,539	34,479	.
82 Exports to other countries (excluding United States)	1,151	0	124	.	0	20,012	750	0
Total disposition	x	8,180	16,302	17,474	28,610	112,992	62,604	0
Total alloy shipments	0	.	.	.	.	32,113	0	.
Producers interchange, for sale	63,544	.	0	.	.	677	0	.
Exports for conversion and return ²	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	6,078	.	.	.	.	.	0	.

See footnotes at the end of the table.

Table 1-1 – continued

Steel primary forms and pig iron — Disposition of net shipments ¹ of rolled steel products, by product, monthly 2007

SDC No.	Cold finished bars	Plates ³	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							
September							
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses	2,329	30,306	124,621	26,753	1,933	26,355	249,637
21 Motor vehicles and parts	1,674	0	55,955	12,080	13	54,404	137,392
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	198	0	.	.	.	632
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	74	6,090	4,704	0	.	1,377	57,149
32 Metal building systems	.	.	0	.	.	2,916	2,916
33 Contractors' products	66	101	2,886	1,909	.	30,850	36,408
34 Miscellaneous stamping and coating	180	1,414	2,964	4,256	.	16,831	27,012
41 Natural resources and extractive industries	51	0	0	0	.	0	12,427
51 Agricultural equipment	114	97	89	52	.	.	622
52 Non electrical machinery	28	71	0	0	.	0	392
53 Electrical machinery	.	.	.	2,582	.	1,652	4,234
54 Industrial packaging material	.	.	175	7,353	0	0	7,528
61 Pipes and tubes	113	0	189,882	2,465	.	2,131	194,591
62 Wire and wire products	323	.	1,774	114	.	43	31,835
63 Containers and closures	109	.	2,054	76	9,270	.	11,509
64 Appliances and utensils industries	.	.	.	5,671	.	2,939	8,610
70 Miscellaneous industries	248	.	.	.	.	.	1,285
Total domestic shipments	5,309	38,277	385,104	63,311	11,216	139,498	784,179
Total domestic alloy shipments	209	0	.	0	.	.	23,369
Exports ² (for final sale)							
81 Exports to the United States	6,291	13,715	69,209	x	13,515	32,851	297,671
82 Exports to other countries (excluding United States)	.	1,395	38,944	1,947	1,358	10,973	76,654
Total disposition	11,600	53,387	493,257	x	26,089	183,322	1,158,504
Total alloy shipments	0	0	.	0	.	.	32,113
Producers interchange, for sale	0	.	2,116	x	.	.	78,505
Exports for conversion and return ²	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	1,591	7,988	9,702	.	0	25,359

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 ¹ of rolled steel products, by product, year-to-date 2007

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								
Domestic shipments								
11 Steel service centres and other wholesalers and warehouses	2,485	31,713	73,403	60,076	30,990	173,514	9,854	.
21 Motor vehicles and parts	1,769	.	.	.	.	138,682	1,004	.
22 Railway operating	.	.	.	.	.	0	.	.
23 Railroad cars and locomotives	.	4,318	.	.	.	.	.	.
24 Shipbuilding	0	.	.	.	.	.	.	.
31 Steel fabrication	63	9,143	14,407	35,033	301,342	137,281	0	.
32 Metal building systems	.	.	.	.	0	0	.	.
33 Contractors' products	.	39	0	.	1,316	2,559	1,077	.
34 Miscellaneous stamping and coating	0	295	4,563	3,424	.	14,186	.	.
41 Natural resources and extractive industries	.	.	81	36	9,504	90,594	0	.
51 Agricultural equipment	.	12	15	87	20	2,317	.	.
52 Non electrical machinery	.	64	0	0	.	3,249	0	.
53 Electrical machinery	.	.	.	.	.	0	.	.
54 Industrial packaging material	.	.	.	.	.	0	.	.
61 Pipes and tubes	.	.	.	.	.	0	.	.
62 Wire and wire products	2,776	.	.	.	0	21,461	218,454	.
63 Containers and closures	.	.	.	.	.	.	.	.
64 Appliances and utensils industries	.	.	.	.	.	.	.	.
70 Miscellaneous industries	.	.	.	.	0	3,159	.	.
Total domestic shipments	7,093	45,584	92,469	98,656	343,172	587,002	230,389	0
Total domestic alloy shipments	63	.	.	.	.	184,635	0	.
Exports ² (for final sale)								
81 Exports to the United States	x	22,748	105,457	75,092	13,092	327,508	327,680	.
82 Exports to other countries (excluding United States)	x	78	1,434	.	0	162,852	8,355	0
Total disposition	x	68,410	199,360	173,748	356,264	1,077,362	566,424	0
Total alloy shipments	63	.	.	.	.	306,019	0	.
Producers interchange, for sale	x	.	0	.	.	11,180	215	.
Exports for conversion and return ²	.	.	.	.	.	0	.	.
Imports by producers (including conversion)	30,851	.	.	.	.	.	0	.

See footnotes at the end of the table.

Table 1-2 – continued

Steel primary forms and pig iron — Disposition of net shipments ¹ of rolled steel products, by product, year-to-date 2007

SDC No.	Cold finished bars	Plates ³	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							
Domestic shipments							
11 Steel service centres and other wholesalers and warehouses	24,260	286,435	1,358,434	330,949	19,581	361,526	2,763,220
21 Motor vehicles and parts	18,611	0	615,496	125,856	13	490,646	1,392,077
22 Railway operating	.	0	.	.	.	.	0
23 Railroad cars and locomotives	.	7,973	-19	.	.	.	12,272
24 Shipbuilding	.	.	.	.	.	.	0
31 Steel fabrication	784	49,881	44,117	353	.	7,874	600,278
32 Metal building systems	.	.	0	.	.	26,948	26,948
33 Contractors' products	841	562	39,724	19,912	.	294,610	360,640
34 Miscellaneous stamping and coating	2,197	4,091	55,513	44,237	.	166,198	294,704
41 Natural resources and extractive industries	443	12	28	0	.	1	100,699
51 Agricultural equipment	941	2,866	4,309	690	.	.	11,257
52 Non electrical machinery	293	1,908	2,550	0	.	1,410	9,474
53 Electrical machinery	.	.	.	30,278	.	12,990	43,268
54 Industrial packaging material	.	.	12,929	86,904	262	0	100,095
61 Pipes and tubes	542	0	1,447,786	24,180	.	20,187	1,492,695
62 Wire and wire products	3,731	.	8,895	943	.	234	256,494
63 Containers and closures	402	.	7,891	1,829	86,437	.	96,559
64 Appliances and utensils industries	.	.	.	53,440	.	25,190	78,630
70 Miscellaneous industries	2,276	.	.	.	.	.	5,435
Total domestic shipments	55,321	353,728	3,597,653	719,571	106,293	1,407,814	7,644,745
Total domestic alloy shipments	1,937	0	.	0	.	.	186,635
Exports ² (for final sale)							
81 Exports to the United States	63,593	179,397	771,049	x	103,639	x	2,835,085
82 Exports to other countries (excluding United States)	.	16,313	92,668	x	11,322	x	521,507
Total disposition	118,914	549,438	4,461,370	x	221,254	1,816,860	11,001,337
Total alloy shipments	1,246	0	.	0	.	.	307,328
Producers interchange, for sale	83	.	39,684	x	.	.	702,176
Exports for conversion and return ²	.	.	0	0	.	0	0
Imports by producers (including conversion)	.	34,011	79,053	39,498	.	0	183,413

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	
	2006	2007	2006	2007
metric tonnes				
Production of pig iron	702,530	833,020	6,434,874	6,311,416

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

	September		Year-to-date	
	2006	2007	2006	2007
	metric tonnes			
Pig iron including pre-reduced iron	746,774	854,166	6,842,055	6,675,518
Scrap				
Own make	182,944	175,740	1,581,182	1,419,187
Purchased	518,207	473,292	4,642,164	4,832,939
Total, pig iron and scrap products	1,447,925	1,503,198	13,065,401	12,927,644

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

	Production		Shipments	
	2006	2007	2006	2007
	metric tonnes			
September				
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	557,911	508,694	79,926	x
Basic oxygen furnace	752,603	857,090	11,727	x
Steel, primary forms - Total	1,310,514	1,365,784	91,653	179,921
Included in "Steel primary forms total" above				
Continuous cast steel	1,292,883	1,348,971	88,005	166,194

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

	Production		Shipments	
	2006	2007	2006	2007
	metric tonnes			
Steel, primary forms (carbon and alloy including continuous cast steel)				
Electric furnace	4,871,824	4,893,591	x	x
Basic oxygen furnace	7,045,957	6,864,906	x	x
Steel, primary forms - Total	11,917,781	11,758,497	x	1,253,589
Included in "Steel primary forms total" above				
Continuous cast steel	11,772,403	11,622,332	x	1,200,604

Table 2-1
Steel pipe and tubing — Production and shipments, monthly 2007

	Production	Shipments for sale		Total shipments
		Domestic shipments ¹	Exports ²	
metric tonnes				
September				
Total, pipe and tubing	223,113	119,518	98,159	217,677
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	2,129	3,204	21	3,225
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	5,469	5,037	126	5,163
over 16" (40.64 cm) outside diameter	43,540	13,715	23,583	37,298
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	23,994	10,545	10,980	21,525
over 16" (40.64 cm) periphery	54,870	18,358	35,235	53,593
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	4,200	1,330	3,052	4,382
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	907	855	508	1,363
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	1,535	689	393	1,082
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	596	637	14	651
over 16" (40.64 cm) outside diameter	1,506	144	236	380
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	22,648	16,865	6,251	23,116
Mechanical tubing, welded, produced from cold rolled	12,246	4,543	2,689	7,232
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	43,147	35,678	11,534	47,212
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	5,764	6,223	2,746	8,969
Other tubular products	562	1,695	791	2,486

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 2007

	Production	Shipments for sale		Total shipments
		Domestic ¹ shipments	Exports ²	
metric tonnes				
Year-to-date				
Total, pipe and tubing	1,956,637	1,088,357	1,016,618	2,104,975
Pipe welded and seamless				
Line pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	x	26,998	186	27,184
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	32,273	39,208	7,063	46,271
over 16" (40.64 cm) outside diameter	408,075	107,429	355,518	462,947
Hollow structural sections				
up to and including 16" (40.64 cm) periphery	191,674	98,691	93,429	192,120
over 16" (40.64 cm) periphery	449,732	144,550	298,419	442,969
Standard pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	36,928	18,652	25,232	43,884
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	12,401	15,899	7,556	23,455
Other pipe				
up to and including 4 1/2" (11.43 cm) outside diameter	19,525	6,397	2,302	8,699
over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	19,224	11,815	214	12,029
over 16" (40.64 cm) outside diameter	19,602	8,710	2,386	11,096
Mechanical tubing				
Mechanical tubing, welded, produced from hot rolled	249,103	165,922	73,120	239,042
Mechanical tubing, welded, produced from cold rolled	134,719	50,354	28,439	78,793
Oil country tubular goods				
Oil country tubular goods, welded and seamless, casing (including coupling)	308,279	x	x	x
Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	48,110	x	x	x
Other tubular products	x	x	x	x

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 1, monthly

	Shipments				Production
	2006	2007			
		Total shipments	Domestic shipments	Exports ²	
metric tonnes					
September					
Barbed wire	347	255	x	x	.
Uncoated steel wire	16,346	16,911	9,343	7,568	.
Galvanized steel wire	12,746	12,169	5,248	6,921	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	947	863	863	0	938
Wire mesh, bright or uncoated and galvanized	4,808	4,473	x	x	4,768
Wire rope	3,489	x	x	x	x
Nails and staples	x	x	x	x	3,886
Wire roofing nails of a length of 25 mm or more, iron or steel	3,744	3,348	1,802	1,546	3,789
Staples of iron or steel	x	x	x	x	97
All other wire products	2,165	x	x	1	1,485
Grand total	44,894	44,063	26,172	17,891	.

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 1, year-to-date

	Shipments				Production
	2006	2007			
		Total shipments	Domestic shipments	Exports ²	
	metric tonnes				
Barbed wire	x	x	x	x	.
Uncoated steel wire	167,740	156,290	88,359	67,931	.
Galvanized steel wire	122,444	116,527	48,704	67,823	.
Other coated steel wire	x	x	x	x	.
Farm fencing and wire chain link fabric	9,156	x	x	x	x
Wire mesh, bright or uncoated and galvanized	39,342	40,952	x	x	42,855
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	42,099	39,878	x	x	x
Staples of iron or steel	x	x	x	x	x
All other wire products	x	x	x	x	x
Grand total	439,353	414,157	239,375	174,782	.

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

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

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).