# Steel, Tubular Products and Steel Wire



March 2012



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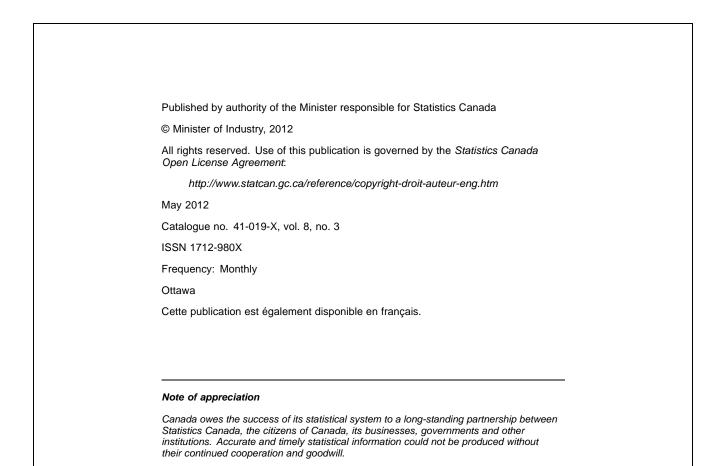
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# Steel, Tubular Products and Steel Wire

March 2012



# **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
- 0<sup>s</sup> value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the Statistics Act
- E use with caution
- F too unreliable to be published
- \* significantly different from reference category (p < 0.05)

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# **Highlights**

### March 2012

- Monthly production of primary steel and pig iron increased 5.5% in March 2012 to 1,207,267 metric tonnes.
- In the same month, the total disposition of shipments of rolled steel products increased 0.3% to 989,166 metric tonnes.
- Between February 2012 and March 2012, production of steel pipe and tubing increased 0.9% to 208,511 metric tonnes.
- Total shipments of steel wire and specified wire products increased 4.8% to 42,722 metric tonnes in March 2012.

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

	Steel primary forms	Rails and heavy structural sections	Intermediate structural sections	Light structural sections	Concrete reinforcing bars	Other hot rolled bars	Wire rods	Railway track material
				metric to	nnes			
March								
Domestic shipments								
Steel service centres and other wholesalers and warehouses Motor vehicles and parts Railway operating Railroad cars and locomotives Shipbuilding Steel fabrication Metal building systems Contractors'products Miscellaneous stamping and coating Natural resources and extractive industries Agricultural equipment Non electrical machinery Electrical machinery Industrial packaging material Pipes and tubes Wire and wire products Containers and closures Appliances and utensils industries	0 x 0	1,570 0 318 0 0 247 0 247 0	8,034 168 1,634 0 0 559 38 0 1,438	5,560 12	3,045 0  33,761 0 124  953 0  0 	x 5,212 27 x 0 587 3 11,035 602 7,793 0 0 0 0 264	0 0 0	
Miscellaneous industries Total domestic shipments	0 X	0 <b>2,135</b>	11,871	7,036	0 <b>37,883</b>	0 <b>38,890</b>	X	0
Total domestic alloy shipments	0	2,135		7,030		5,511	x	
Exports to the United States Exports to other countries (excluding United States)	x x	1,061 0	3,241 20	5,643 0	0 0	26,538 24,110	x x	0
Total disposition	52,548	3,196	15,132	12,679	37,883	89,538	x	0
Total alloy shipments	0					9,760	x	
Producers interchange, for sale	х		0			319	108	
Exports for conversion and return						0		
Imports by producers (including conversion)	х						0	

See notes at the end of the table.

#### Table 1-1 - continued

Steel primary forms and pig iron — Disposition of net shipments of rolled steel products, by product and industry
monthly 2012

	Cold finished bars	Plates <sup>1</sup>	Hot rolled sheets and coils	Cold reduced sheets and strip and other cold rolled and coated	Tin plate and tin free steel (T.F.S.)	Galvanized sheets including galvalume	Total, rolled steel products
			n	netric tonnes			
March							
Domestic shipments							
Steel service centres and other wholesalers and warehouses Motor vehicles and parts Railway operating Railroad cars and locomotives Shipbuilding Steel fabrication Metal building systems Contractors products Miscellaneous stamping and coating Natural resources and extractive industries Agricultural equipment Non electrical machinery Electrical machinery Industrial packaging material Pipes and tubes Wire and wire products Containers and closures Appliances and utensils industries Miscellaneous industries	x x 0 22 0 32 0 0 x 0 0 0 x 0 0 0 0 0 0 0	18,656 0 645 5,785 7 0 0 362 0 0 0 0	$\begin{array}{c} 166,941\\ 34,451\\ 0\\ 0\\ 0\\ 4,434\\ 0\\ 5,772\\ 5,218\\ 0\\ 0\\ 1,117\\ 87\\ 0\\ 92,182\\ 160\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	11,403 8,672 0 1,640 2,175 0 0 0 968 4,912 1,246 107 279 1,729	1,433 0	33,146 51,951 0 1,682 2,688 18,539 12,760 0 0 1,687 0 1,687 0 1,464 0 989	264,381 101,327 645 0 x 2,688 26,758 21,028 12,273 1,005 10,348 2,742 4,912 94,892 x 1,232 2,718 0
Total domestic shipments	x	25,455	310,362	33,131	2,386	124,906	617,246
Total domestic alloy shipments	177	0	•	0	•	•	x
Exports to the United States Exports to other countries (excluding United States)	x 0	13,832 1,477	x x	18,004 2,096	16,986 883	47,738 11,812	314,010 57,910
Total disposition	x	40,764	414,442	53,231	20,255	184,456	989,166
Total alloy shipments	603	0	•	0	•	•	х
Producers interchange, for sale	0		0	0		0	х
Exports for conversion and return			0	0		0	0
Imports by producers (including conversion)		0	4,899	704		0	х

1. Effective January 2000, producers have changed the way they report hot rolled products. The result is a change in definitions. Plates including plates for pipes and tubes becomes plates. Hot rolled sheet and strip becomes hot rolled sheets and coils and now includes all hot rolled flat products in coils, regardless of thickness.

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

#### Table 1-2

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

	Steel primary forms	Rails and heavy structural sections	Intermediate structural sections	Light structural sections	Concrete reinforcing bars	Other hot rolled bars	Wire rods	Railway track material
				metric to	nnes			
Domestic shipments								
Steel service centres and other wholesalers and warehouses Motor vehicles and parts Railway operating Railroad cars and locomotives Shipbuilding Steel fabrication Metal building systems Contractors'products Miscellaneous stamping and coating Natural resources and extractive industries Agricultural equipment Non electrical machinery Electrical machinery Electrical machinery Industrial packaging material Pipes and tubes Wire and wire products Containers and closures Appliances and utensils industries Miscellaneous industries	4 x 0 0 0	5,183 0 429 0 0 8 329 0 0	22,748 742 4,680 0 0 1,016 38 9 3,639	18,659 93 5,152 0 862 0 31 6	10,607 94,307 75 1,046	x 14,092 81 x 160 1,451 732 33,120 1,466 24,287 0 0 0 868 0	0 0 0 2777 0	· · · · · · · · · · · · · · · · · · ·
Total domestic shipments	x	5,949	32,872	24,803	109,288	110,169	x	0
Total domestic alloy shipments	0	•		•	•	17,041	x	
Exports to the United States Exports to other countries (excluding United States) Total disposition	x x x	2,933 0 <b>8,882</b>	12,395 208 <b>45,475</b>	17,006 10 <b>41,819</b>	0 0 <b>109,288</b>	75,252 72,431 <b>257,852</b>	x x x	0 <b>0</b>
Total alloy shipments	0	-,- <b></b> -	,		· · · · <b>·</b> ·	30,183	x	
Producers interchange, for sale	x		0			1,326	288	
Exports for conversion and return						0		
Imports by producers (including conversion)	x						0	

See notes at the end of the table.

#### Table 1-2 - continued

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

,							
	Cold finished bars	Plates <sup>1</sup>	Hot rolled sheets and coils	Cold reduced sheets and strip and other cold rolled and coated	Tin plate and tin free steel (T.F.S.)	Galvanized sheets including galvalume	Total, rolled steel products
				metric tonnes			
Domestic shipments							
Steel service centres and other wholesalers and warehouses Motor vehicles and parts Railway operating Railroad cars and locomotives Shipbuilding Steel fabrication Metal building systems Contractors products Miscellaneous stamping and coating Natural resources and extractive industries Agricultural equipment Non electrical machinery Electrical machinery Industrial packaging material Pipes and tubes Wire and wire products Containers and closures Appliances and utensils industries	x x	62,106 0 1,613 17,881 1,279 0 0 1,214 162 0 0	611,908 97,251 0 10,258 0 17,687 13,014 0 3,178 184 0 254,315 721 0 0 0 0	51,659 25,381	3,630 0	114,146 140,839 0 4,571 6,772 58,629 40,470 6 0 40,470 6 0 4,888 0 7,285 129 2,321	938,012 281,269 81 1,613 0 x 7,007 85,297 66,314 36,930 2,869 31,272 8,372 12,829 263,641 x 4,061 6,272
Miscellaneous industries Total domestic shipments	474 <b>x</b>	0 <b>84,255</b>	0 <b>1,008,516</b>	115,820	6,414	380,056	474 <b>1,941,633</b>
Total domestic alloy shipments	552	04,200	.,	0			x
Exports (for final sale)							
Exports to the United States Exports to other countries (excluding United States)	x 25	36,565 13,291	x x	53,726 5,682	54,447 2,331	125,141 34,642	850,113 203,972
Total disposition	x	134,111	1,326,818	175,228	63,192	539,839	2,995,718
Total alloy shipments	2,051	0		0			x
Producers interchange, for sale	0		0	0		0	х
Exports for conversion and return			0	0		0	0
Imports by producers (including conversion)		0	9,631	1,300		0	x

 Effective January 2000, producers have changed the way they report hot rolled products. The result is a change in definitions. Plates including plates for pipes and tubes becomes plates. Hot rolled sheet and strip becomes hot rolled sheets and coils and now includes all hot rolled flat products in coils, regardless of thickness.

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

# Table 1-3 Steel primary forms and pig iron — Production of pig iron

	March		Year-to-date	
	2011	2012	2011	2012
		metric tonnes		
Production of pig iron	664,895	673,477	1,720,333	1,984,879

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

	March		Year-to-date	
	2011	2012	2011	2012
		metric tonnes	3	
Pig iron including pre-reduced iron	705,345	698,529	1,820,403	2,057,463
<b>Scrap</b> Own make Purchased	131,834 502,146	145,278 493,752	324,993 1,381,922	423,871 1,431,804
Total, pig iron and scrap products	1,339,325	1,337,559	3,527,318	3,913,138

#### Table 1-5

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

	Production		Shipments		
	2011	2012	2011	2012	
	metric tonnes				
March					
Steel, primary forms (carbon and alloy including continuous cast steel)					
Electric furnace Basic oxygen furnace	516,490 683,084	509,841 697,426	x x	x x	
Steel, primary forms - Total	1,199,574	1,207,267	166,910	176,253	
Included in "Steel primary forms total" above Continuous cast steel	1,183,761	824,470	155,162	146,121	

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

	Production		Shipments		
	2011	2012	2011	2012	
	metric tonnes				
Steel, primary forms (carbon and alloy including continuous cast steel) Electric furnace	1,414,932	1,484,359	x	x	
Basic oxygen furnace	1,742,542	2,055,902	x	×	
Steel, primary forms - Total	3,157,474	3,540,261	546,589	536,495	
Included in "Steel primary forms total" above Continuous cast steel	3,113,462	3,092,701	514,288	451,899	

#### Table 2-1

### Steel pipe and tubing — Production and shipments, monthly 2012

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
_		metric tonn	es	
March				
Total, pipe and tubing	208,511	132,159	104,860	237,020
Pipe welded and seamless				
Line pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter over 16" (40.64 cm) outside diameter	1,760 15,635 24,541	1,848 x 203	0 x 15,078	1,848 15,397 15,281
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	6,487 x	x x	x x	15,135 x
Standard pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x x	x x	x x	x x
Other pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter over 16" (40.64 cm) outside diameter	x 2,528 x	x x 2,087	99 × 0	x x 2,087
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	12,943 x	15,271 3,803	6,798 1,811	22,069 5,614
<b>Oil country tubular goods</b> Oil country tubular goods, welded and seamless, casing (including coupling) Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x x	36,863 4,852	27,295 x	64,157 x
Other tubular products	x	1,397	682	2,079

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

#### Table 2-2

### Steel pipe and tubing — Production and shipments, year-to-date 2012

	Production	Shipments for sale		
		Domestic shipments <sup>1</sup>	Exports	Total shipments
_	metric tonnes			
Total, pipe and tubing	617,229	440,572	262,720	703,290
Pipe welded and seamless				
Line pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter over 16" (40.64 cm) outside diameter	8,796 x 55,981	8,031 x 3,164	0 x 34,549	8,031 48,196 37,714
Hollow structural sections up to and including 16" (40.64 cm) periphery over 16" (40.64 cm) periphery	x x	x x	x x	42,414 x
Standard pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter	x x	x x	x x	x x
Other pipe up to and including 4 1/2" (11.43 cm) outside diameter over 4 1/2" (11.43 cm) up to and including 16" (40.64 cm) outside diameter over 16" (40.64 cm) outside diameter	x 6,545 x	x x x	x x 27	x x x
Mechanical tubing Mechanical tubing, welded, produced from hot rolled Mechanical tubing, welded, produced from cold rolled	34,186 x	44,159 14,031	20,328 5,853	64,488 19,882
<b>Oil country tubular goods</b> Oil country tubular goods, welded and seamless, casing (including coupling) Oil country tubular goods, welded and seamless, oilwell tubing (including coupling)	x x	136,619 25,053	58,995 x	195,613 x
Other tubular products	x	4,442	2,058	6,500

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

#### Table 3-1

#### Steel and specified wire products — Factory shipments, monthly

	Shipments			Production	
	2011	2012			
		Total shipments	Domestic shipments	Exports	
_			metric tonnes		
March					
Barbed wire	х	х	х	0	
Uncoated steel wire	22,636	19,789	9,029	10,760	-
Galvanized steel wire	7,916	8,130	3,794	4,336	
Other coated steel wire	Х	Х	Х	Х	
Farm fencing and wire chain link fabric	1,258	1,087	х	х	885
Wire mesh, bright or uncoated and galvanized	4,465	х	3,229	х	3,614
Wire rope	х	х	х	х	х
Nails and staples	3,005	Х	1,328	Х	х
Wire roofing nails of a length of 25 mm or more, iron or steel	3,005	3,226	х	х	2,918
Staples of iron or steel	0	х	х	0	х
All other wire products	х	х	х	1	х
Grand total	46,075	42,722	23,963	18,759	

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

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

	Shipments			Production	
_	2011 2012				
		Total shipments	Domestic shipments	Exports	
_			metric tonnes		
Barbed wire	х	х	х	0	
Uncoated steel wire	61,105	57,404	25,851	31,553	
Galvanized steel wire	24,459	23,644	11,561	12,083	
Other coated steel wire	х	х	х	х	
Farm fencing and wire chain link fabric	2,835	2,371	х	х	2,364
Wire mesh, bright or uncoated and galvanized	12,727	х	8,877	х	9,555
Wire rope	х	х	х	х	х
Nails and staples	7,277	х	х	х	х
Wire roofing nails of a length of 25 mm or more, iron or steel	7,277	8,797	х	х	7,884
Staples of iron or steel	0	х	х	0	х
All other wire products	х	х	х	3	х
Grand total	126,369	121,895	67,048	54,847	

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

# 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 (ASML) (Survey ID 2103). This means that estimates from the monthly surveys do not cover the entire universe of steel producers in Canada because the ASML does not survey all businesses. Instead, the ASML uses administrative data to cover the small and medium-sized establishments. These manufacturers are not part of the four monthly surveys.

### **General methodology**

Data are collected each month, directly from survey respondents using a mail-out / mail-back process. Data capture and preliminary editing are performed simultaneously to ensure validity of the data. Businesses from whom no response has been received or whose data may contain errors are followed-up by telephone or fax.

Missing data for the current month are imputed automatically by applying to the previous month's value, the month-to-month change observed for the same period in the previous year, for the unit in question. However, an option exists for analysts to manually override this imputation with a better estimate based on pertinent knowledge about the industry or the business.

Various confidentiality rules are applied to all data before they are released to prevent the publication or disclosure of any information deemed confidential. If necessary, data are suppressed to prevent the direct or residual disclosure of identifiable data.

Direct disclosure could occur when the value in a tabulation cell is composed of a few respondents or when the cell is dominated by a few companies. Residual disclosure could occur when confidential information can be derived indirectly by piecing together information from different sources or data series.

Under normal circumstances, data are collected, captured, edited, tabulated and published within 6-8 weeks after the reference month.

### **Revisions**

Data may be revised to include amended information or reports from respondents that are received after the end of a collection cycle. Revisions are disseminated in subsequent periods and reflected in the CANSIM series and in the tables of this publication.

### **Data accuracy**

The methodology of these surveys has been designed to promote data accuracy. Since data are collected from all Canadian producers of primary steel, steel products, pig iron, steel pipe and tubing and steel wire within the target population, the resulting estimates are not subject to sampling error. However, the results are still subject to the non-sampling errors associated with coverage, non-response, inaccurate reporting, and processing. Errors relating to coverage and non-response can be measured and are summarized in text table 1. All attempts are made to control inaccurate reporting and processing errors.

Moreover, survey results are analyzed to ensure comparability with patterns observed in historical data series and the economic condition of the industry. Information available from other sources such as the Steel Primary Forms Weekly Survey (Survey ID 2131) and the Monthly Survey of Manufacturing (MSM) (Survey ID 2101) are also used in the validation process.

### **Coverage error**

There is a degree of under coverage (referred to as coverage error) in the survey results as there is generally a lag between the time a new business comes into existence and when it is included in the universe of these sub-annual surveys. This occurs because the list of businesses surveyed is derived from the latest available survey results for the ASML which are not available until 15 months after the reference period.

This error is kept at a minimum by also using advance information from the ASML frame, feedback from the MSM and other sources such as the Canadian Steel Producer's Association, trade journals and newspaper articles, to identify new survey units.

#### **Non-response error**

Some respondents may be unable to provide data for numerous reasons (i.e. fire, theft, strike, economic hardship, etc.), while others may be late in responding. To minimize non-response, delinquent respondents are followed up rigorously by phone or fax. Data for non-responding units are imputed using industry trend and other related information. Data are revised at a later date, if completed questionnaires are received after the end of a collection cycle.

#### Inaccurate response

Inaccuracy may result from poor questionnaire design or an inability on the part of respondents to provide the requested information or from misinterpretation of the survey questions. To reduce such errors the format and wording in the questionnaire are reviewed from time to time and modified based on feedback from survey respondents and data users. Respondents are also reminded of the importance of their contribution and of the need for accurate data reporting.

### **Processing errors**

These errors may occur at various stages in the processing of survey data such as data entry, verification, editing and tabulation. Data are examined for such errors using automated edits along with an analytical review by subject matter experts. Several checks are performed on the collected data to verify internal consistency and comparability over time.

#### Text table 1 Coverage and non-response errors

	Coverage error based on the Annual Survey of Manufactures and Logging (ASML) 2004	Non-response error- annual average 2005
Steel primary forms steel castings and pig iron Ingots and rolled steel products Steel pipe and tubing Steel wire	percent 0 3 0 0	6 0 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 Annual Survey of Manufactures (ASM) shipment values for products included in a given sub-annual survey from businesses surveyed by the same sub-annual survey.

#### Non-response rate:

Number of non-responses in the year, divided by the number of total expected responses in the year.

Number of non-responses in the year, divided by the number of total expected responses in the year. More detailed information is available from the Annual Survey of Manufactures and Logging, CANSIM Table 301-0006. Specific enquiries should be directed to: The Dissemination and Frame Services section, Manufacturing and Energy Division, Statistics Canada, Ottawa, Ontario, K1A OT6 (Telephone: 1-866-873-8789 or 613-951-9497; Fax line: 613-951-3877; Internet: *manufact@statcan.gc.ca* ).