

# The St. Lawrence Seaway

2016 Traffic Report

# **THE ST. LAWRENCE SEAWAY TRAFFIC REPORT 2016 NAVIGATION SEASON**

PREPARED BY

THE ST. LAWRENCE SEAWAY MANAGEMENT CORPORATION

AND THE

SAINT LAWRENCE SEAWAY DEVELOPMENT CORPORATION

*Available from our web site:* [www.greatlakes-seaway.com](http://www.greatlakes-seaway.com)

## EDITORIAL NOTES

The Traffic Report for The St. Lawrence Seaway Management Corporation is an annual publication prepared jointly by The St. Lawrence Seaway Management Corporation and the Saint Lawrence Seaway Development Corporation. Prior to 1983, the last jointly prepared Traffic Report was published in 1976. During the interim years, separate reports were published by the two entities.

This report covers the navigation year as reported in Table S3. The calendar year or the fiscal year is not considered.

The primary contents of this report are divided into four parts:

- Part I** - Table summaries of the 2016 St. Lawrence Seaway traffic activities.
- Part II** - Table summaries of cargo and vessel movements through the St. Lawrence Seaway. These tables represent total Seaway traffic, eliminating duplication of vessel transits and cargo quantities moved through more than one traffic sector.
- Part III** - Table summaries of cargo and vessel movements through the Montreal - Lake Ontario Section of the St. Lawrence Seaway.
- Part IV** - Table summaries of cargo and vessel movements through the Welland Canal Section of the St. Lawrence Seaway.

Historical tables cover the latest 20 years. Anyone needing historical tables going back to 1959 can find the "Historical Tables" brochure on our web site [www.greatlakes-seaway.com](http://www.greatlakes-seaway.com).

As in past years, transits and gross registered tonnage for non-toll traffic are not included in this report.

Passenger vessels are considered to be cargo vessels. Unless their data are specified under passenger, their transits and gross registered tonnage are included amongst the cargo vessel category.

Prior to 1999, the assessment of tolls required tugs and barges in common transits be considered as one unit. From 1999 onwards, the tug and the barge are each considered to be a separate transit.

**The use of the Harmonized Commodity Coding system was introduced in 2016 with some impact on how statistical data are tabulated. Notes were added to impacted tables.**

Users of this report should note that all cargo and transit figures are based on the transit of at least one lock of the section of the Seaway for which statistics are given.

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**PART I**

**ST. LAWRENCE SEAWAY TOLL TRAFFIC**

**DEFINITIONS**

**AND**

**2016 TRAFFIC SUMMARIES**

## DEFINITIONS

In this report, cargo quantities are recorded in metric tonnes. If required, short ton equivalencies may be calculated by multiplying the metric quantities using the 1.1023 conversion factor.

For the interpretation of the tabulations contained in this report, the following definitions should be noted:

<b>Bulk Cargo</b>	<i>The tonnes of bulk cargo assessed at the Bulk rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls</i>
<b>Cargo Tonnes</b>	<i>The tonnes of cargo carried by a vessel on each or any transit.</i>
<b>Coal Cargo</b>	<i>The tonnes of cargo assessed at the Coal rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls. Previous to 1999, coal was listed under Bulk.</i>
<b>Combined Traffic</b>	<i>Represents total cargo traffic and vessel movements through the St. Lawrence Seaway. It is not the summation of traffic and vessel movements on both sectors. It represents total Seaway traffic, eliminating duplication of vessel transits and cargo quantities moved through more than one traffic sector.</i>
<b>Commodity</b>	<i>The classification of commodities is based on that prescribed by the Canadian Transport Commission and the Interstate Commerce Commission of the United States.</i>
<b>Container Cargo</b>	<i>The tonnes of cargo assessed at the Containers rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.</i>
<b>Destination</b>	<i>The country/port in which the cargo was unloaded.</i>
<b>General Cargo</b>	<i>The tonnes of cargo assessed at the General rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.</i>
<b>Government Aid Cargo</b>	<i>The tonnes of cargo assessed at the Government Aid rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.</i>
<b>Grain Cargo</b>	<i>The tonnes of cargo assessed at the Grains rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.</i>
<b>Gross Registered Tonnage</b>	<i>The gross registered tonnage of a vessel according to the prescribed rules for measurement under the International Convention on Tonnage Measurement of Ships, 1969.</i>

<b>Mixed Cargo</b>	<i>Indicates that a vessel carried a combination of Bulk, Coal, Grain, Government Aid, Containers, General or Steel Slab cargoes.</i>
<b>Origin</b>	<i>The country/port in which the cargo was loaded.</i>
<b>Passenger</b>	<i>Prior to 2003, in Table S1, the Gross Registered Tonnage for the Passenger Vessels was included in the Non-Cargo Vessels.</i>
<b>Steel Slab Cargo</b>	<i>The tonnes of cargo assessed at the Steel Slab rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.</i>
<b>Transit</b>	<i>A partial or complete upbound or downbound passage of a ship through one or more locks of a Seaway Canal.</i>
<b>Tug and Barge Combination</b>	<i>Prior to 1999, the assessment of tolls required tugs and barges in common transits be considered as one unit. From 1999 onwards, the tug and the barge are each considered to be a separate transit, and the number of transits shown under "Barge" are strictly barge transits. Tug transits are now included in the non-cargo category.</i>

It should be noted, in any analysis, that there is not necessarily a relationship between a specific "Commodity" classification and a "Tariff of Tolls" classification. Due to the method of packaging, handling, special refinements or other provisions, an otherwise identical commodity item may be classified in any of the Bulk, Coal, Grain, Government Aid, Containers, General or Steel Slab Tariff of Tolls categories.



**TRAFFIC SUMMARY  
2016**

**TABLE S1**

TRAFFIC AND REVENUE	ST. LAWRENCE SEAWAY			MONTREAL - LAKE ONTARIO SECTION			WELLAND CANAL SECTION		
TRAFFIC	Tonnes and Transits	% of Total	Variance 2015%	Tonnes and Transits	% of Total	Variance 2015%	Tonnes and Transits	% of Total	Variance 2015%
<b>Cargo Tonnes by Toll Classification:</b>									
Bulk (1)	19,159,893	54.7	- 6.4	13,145,708	48.6	- 5.9	12,582,434	48.0	- 12.0
Coal	2,248,123	6.4	- 10.0	537,927	2.0	- 8.5	2,248,123	8.6	- 10.0
Grains	11,265,856	32.2	3.8	11,031,487	40.8	5.4	9,856,724	37.6	1.4
Government Aid	-	-	-	-	-	-	-	-	-
Containers	58,953	0.2	- 15.5	58,953	0.2	- 15.5	18,272	0.1	- 35.6
General Cargo	2,054,777	5.9	- 4.9	2,054,777	7.6	- 4.9	1,496,493	5.7	- 10.9
Steel Slabs	222,357	0.6	9.6	222,357	0.8	9.6	20,308	0.1	4.8
<b>Total Cargo Tonnes</b>	35,009,959	100.0	- 3.4	27,051,209	100.0	- 1.4	26,222,354	100.0	- 7.2
<b>Gross Registered Tonnage:</b>									
Cargo Vessels	44,723,519	99.0	1.6	33,677,775	99.3	4.3	37,863,870	99.0	0.2
Non-Cargo Vessels	313,614	0.7	3.8	173,694	0.5	7.7	277,402	0.7	12.2
Passengers	116,463	0.3	- 39.7	60,804	0.2	- 64.1	96,430	0.3	13.4
<b>Total Gross Registered Tonnage</b>	45,153,596	100.0	1.5	33,912,273	100.0	3.9	38,237,702	100.0	0.4
<b>Vessel Transits:</b>									
Loaded Cargo Vessels	2,131	56.5	- 0.3	1,670	65.6	- 0.1	1,535	50.4	- 4.2
Ballast Cargo Vessels	991	26.3	6.3	583	22.9	14.5	979	32.1	10.1
Non-Cargo Vessels	652	17.3	- 8.4	292	11.5	- 16.3	534	17.5	3.7
<b>Total Vessel Transits</b>	3,774	100.0	- 0.2	2,545	100.0	0.6	3,048	100.0	1.4
<b>Additional Information:</b>	<b>Number</b>			<b>Number</b>			<b>Number</b>		
Passengers (Number)	5,858	-	- 32.6	3,180	-	- 52.8	3,527	-	10.6
Pleasure Craft Lockages	10,690	-	3.0	7,018	-	1.5	3,672	-	5.8
<b>REVENUE (2)</b>	<b>Revenue</b>	<b>% of Total</b>	<b>Variance 2015%</b>	<b>Revenue</b>	<b>% of Total</b>	<b>Variance 2015%</b>	<b>Revenue</b>	<b>% of Total</b>	<b>Variance 2015%</b>
<b>Traffic Revenue (\$) by Toll Classification</b>	\$			\$			\$		
Bulk (1)	22,784,750	34.9	- 6.2	13,570,032	44.3	- 2.7	9,214,718	26.6	- 10.9
Coal	2,043,736	3.1	- 7.0	356,295	1.2	- 6.2	1,687,441	4.9	- 7.2
Grains	14,728,479	22.6	5.8	7,404,404	24.2	7.6	7,324,075	21.2	4.0
Government Aid	-	-	-	-	-	-	-	-	-
Containers	49,940	0.1	- 22.6	38,998	0.1	- 18.5	10,942	0.0	- 34.3
General Cargo	6,969,651	10.7	- 3.9	5,213,634	17.0	- 2.8	1,756,017	5.1	- 7.1
Steel Slabs	550,699	0.8	14.5	533,234	1.7	14.0	17,465	0.1	33.5
Gross Registered Tonnage	9,994,363	15.3	4.3	3,503,549	11.4	7.0	6,490,813	18.8	2.9
Passengers	67,697	0.1	- 21.3	21,208	0.1	- 55.9	46,489	0.1	22.5
Lockage Fees	8,036,742	12.3	3.0	-	-	-	8,036,742	23.2	3.0
<b>Total Tolls - Current Shipping Season</b>	65,226,057	100.0	- 0.7	30,641,354	100.0	0.8	34,584,703	100.0	- 2.0

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

(2) Traffic revenue from commodities and vessels which transited the Seaway during the current shipping season.

**COMMODITY SUMMARY  
2016**

**TABLE S2**

SUMMARY OF MAJOR COMMODITIES	ST. LAWRENCE SEAWAY			MONTREAL - LAKE ONTARIO SECTION			WELLAND CANAL SECTION		
	Tonnes	% of Total	Variance 2015%	Tonnes	% of Total	Variance 2015%	Tonnes	% of Total	Variance 2015%
<b>Agricultural Products:</b>									
Wheat	5,954,961	17.0	- 8.9	5,882,047	21.7	- 9.5	5,739,520	21.9	- 12.0
Corn	1,108,586	3.2	42.2	1,097,994	4.1	91.1	690,668	2.6	27.6
Rye	-	-	-	-	-	-	-	-	-
Oats	12,500	0.0	- 38.8	500	0.0	- 97.6	12,500	0.0	- 38.8
Barley	16,499	0.0	- 43.8	16,499	0.1	- 43.8	16,499	0.1	- 43.8
Soybeans	2,234,906	6.4	14.1	2,234,906	8.3	14.1	1,459,133	5.6	36.7
Flaxseed	84,409	0.2	- 28.5	84,409	0.3	- 28.5	84,409	0.3	- 28.5
Canola (Rapeseed)	1,301,836	3.7	42.2	1,162,973	4.3	53.5	1,301,836	5.0	42.2
Other Grains	552,159	1.6	9.9	552,159	2.0	9.9	552,159	2.1	9.9
<i>Total Grains</i>	11,265,856	32.2	3.7	11,031,487	40.8	5.4	9,856,724	37.6	1.4
Other Agricultural Products	-	-	-	-	-	-	-	-	-
<b>Total Agricultural Products</b>	11,265,856	32.2	3.7	11,031,487	40.8	5.4	9,856,724	37.6	1.4
<b>Mine Products:</b>									
Iron Ore	6,232,825	17.8	- 13.2	5,196,730	19.2	- 14.1	3,449,032	13.2	- 26.1
Coal	2,248,123	6.4	- 10.0	537,927	2.0	- 8.5	2,248,123	8.6	- 10.0
Coke	1,227,059	3.5	- 9.7	785,994	2.9	- 12.2	1,117,006	4.3	- 14.5
Stone, Ground, Crushed, or Rough	385,771	1.1	- 18.1	140,162	0.5	- 60.9	305,298	1.2	138.2
Salt	2,531,186	7.2	- 18.1	888,822	3.3	- 22.0	2,461,649	9.4	- 14.8
Other Mine Products <sup>(1)</sup>	1,352,955	3.9	5.5	1,011,459	3.7	10.9	867,338	3.3	14.0
<b>Total Mine Products</b>	13,977,919	39.9	- 12.0	8,561,094	31.6	- 13.9	10,448,446	39.8	- 14.7
<b>Processed Products:</b>									
Iron and Steel	1,972,086	5.6	- 4.1	1,967,584	7.3	- 4.3	1,442,640	5.5	- 9.8
Steel Slabs	222,357	0.6	9.6	222,357	0.8	9.6	20,308	0.1	4.8
Petroleum Products	2,382,662	6.8	22.0	2,148,368	7.9	15.1	1,619,207	6.2	8.0
Chemicals <sup>(1)</sup>	942,753	2.7	4.5	919,769	3.4	5.4	155,686	0.6	- 27.7
Other Processed Products	4,237,676	12.1	- 3.4	2,191,900	8.1	7.6	2,670,694	10.2	- 9.0
<b>Total Processed Products</b>	9,757,534	27.9	2.7	7,449,978	27.5	5.9	5,908,535	22.5	- 5.8
<b>Miscellaneous Cargo:</b>									
Forest Products	8,650	0.0	11.1	8,650	0.0	11.1	8,649	0.0	11.1
Animal Products	-	-	-	-	-	-	-	-	-
<b>Total Miscellaneous Cargo</b>	8,650	0.0	11.1	8,650	0.0	11.1	8,649	0.0	11.1
<b>GRAND TOTAL</b>	<b>35,009,959</b>	<b>100.0</b>	<b>-3.4</b>	<b>27,051,209</b>	<b>100.0</b>	<b>-1.4</b>	<b>26,222,354</b>	<b>100.0</b>	<b>-7.2</b>

(1) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" starting in 2016.

**ACTUAL OPENING AND CLOSING DATES OF NAVIGATION  
1997 - 2016**

**TABLE S3**

YEAR	MONTREAL - LAKE ONTARIO SECTION			WELLAND CANAL SECTION		
	Opening	Closing	Days of Navigation	Opening	Closing	Days of Navigation
1997	April 2	December 26	269	April 2	December 24	267
1998	March 26	December 28	278	March 24	December 28	280
1999	March 31	December 25	270	March 31	December 25	270
2000	March 27	December 26	275	March 27	December 25	274
2001	March 23	December 24	277	March 23	December 24	277
2002	March 26	December 26	276	March 26	December 25	275
2003	March 31	December 28	273	March 26	December 30	280
2004	March 25	December 30	281	March 23	December 31	284
2005	March 25	December 29	280	March 23	December 30	283
2006	March 23	December 30	283	March 21	December 30	285
2007	March 21	December 28	283	March 20	December 29	285
2008	March 22	December 29	283	March 20	December 30	286
2009	March 31	December 29	274	March 31	December 30	275
2010	March 25	December 29	280	March 25	December 30	281
2011	March 22	December 30	284	March 22	December 30	284
2012	March 22	December 29	283	March 22	December 31	285
2013	March 22	January 1	286	March 22	January 1	286
2014	March 31	January 1	277	March 28	December 31	279
2015	April 2	December 30	273	April 2	December 31	274
2016	March 23	December 31	284	March 21	December 31	286

**ACTUAL DATES:**    **OPENING** = The date the system opened for commercial navigation.  
                              **CLOSING** = The date the last commercial vessel cleared the system.

**PART II**

**ST. LAWRENCE SEAWAY  
COMBINED TOLL TRAFFIC  
FOR BOTH THE  
MONTREAL - LAKE ONTARIO  
AND THE  
WELLAND CANAL SECTIONS**

**TRAFFIC BY CLASS AND TYPE OF VESSEL  
2016**

TABLE C1

ST. LAWRENCE SEAWAY

CLASS AND TYPE OF VESSEL	VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES									
	Loaded	Ballast	Total		Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs	Total	%	
<b>UPBOUND:</b>														
<b>Ocean:</b>	Cargo	280	74	354	5,768,033	1,221,356	10,529	45,912	-	13,815	2,048,652	222,357	3,562,621	10.2
	Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tanker	107	12	119	1,288,499	1,097,635	-	-	-	-	-	-	1,097,635	3.1
	<b>Total Ocean</b>	<b>387</b>	<b>86</b>	<b>473</b>	<b>7,056,532</b>	<b>2,318,991</b>	<b>10,529</b>	<b>45,912</b>	<b>-</b>	<b>13,815</b>	<b>2,048,652</b>	<b>222,357</b>	<b>4,660,256</b>	<b>13.3</b>
<b>Laker:</b>	Cargo	288	429	717	12,772,911	5,745,326	-	67,414	-	5,607	-	-	5,818,347	16.6
	Barge	117	95	212	1,488,154	1,149,762	-	-	-	-	-	-	1,149,762	3.3
	Tanker	96	30	126	1,164,904	899,046	-	-	-	-	-	-	899,046	2.6
	<b>Total Laker</b>	<b>501</b>	<b>554</b>	<b>1,055</b>	<b>15,425,969</b>	<b>7,794,134</b>	<b>-</b>	<b>67,414</b>	<b>-</b>	<b>5,607</b>	<b>-</b>	<b>-</b>	<b>7,867,155</b>	<b>22.5</b>
<b>Non-Cargo</b>	Passenger	-	327	327	155,437	-	-	-	-	-	-	-	-	-
		35	5	40	58,646	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>		<b>923</b>	<b>972</b>	<b>1,895</b>	<b>22,696,584</b>	<b>10,113,125</b>	<b>10,529</b>	<b>113,326</b>	<b>-</b>	<b>19,422</b>	<b>2,048,652</b>	<b>222,357</b>	<b>12,527,411</b>	<b>35.8</b>
<b>DOWNBOUND:</b>														
<b>Ocean:</b>	Cargo	310	35	345	5,626,564	317,547	-	4,707,111	-	7,896	6,125	-	5,038,679	14.4
	Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tanker	56	60	116	1,250,234	491,121	-	-	-	-	-	-	491,121	1.4
	<b>Total Ocean</b>	<b>366</b>	<b>95</b>	<b>461</b>	<b>6,876,798</b>	<b>808,668</b>	<b>-</b>	<b>4,707,111</b>	<b>-</b>	<b>7,896</b>	<b>6,125</b>	<b>-</b>	<b>5,529,800</b>	<b>15.8</b>
<b>Laker:</b>	Cargo	640	73	713	12,681,566	7,035,859	2,237,594	6,350,312	-	31,635	-	-	15,655,400	44.7
	Barge	122	92	214	1,499,704	794,847	-	95,107	-	-	-	-	889,954	2.5
	Tanker	46	81	127	1,182,950	407,394	-	-	-	-	-	-	407,394	1.2
	<b>Total Laker</b>	<b>808</b>	<b>246</b>	<b>1,054</b>	<b>15,364,220</b>	<b>8,238,100</b>	<b>2,237,594</b>	<b>6,445,419</b>	<b>-</b>	<b>31,635</b>	<b>-</b>	<b>-</b>	<b>16,952,748</b>	<b>48.4</b>
<b>Non-Cargo</b>	Passenger	-	325	325	158,177	-	-	-	-	-	-	-	-	-
		34	5	39	57,817	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>		<b>1,208</b>	<b>671</b>	<b>1,879</b>	<b>22,457,012</b>	<b>9,046,768</b>	<b>2,237,594</b>	<b>11,152,530</b>	<b>-</b>	<b>39,531</b>	<b>6,125</b>	<b>-</b>	<b>22,482,548</b>	<b>64.2</b>
<b>TOTALS:</b>														
<b>Ocean:</b>	Cargo	590	109	699	11,394,597	1,538,903	10,529	4,753,023	-	21,711	2,054,777	222,357	8,601,300	24.6
	Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tanker	163	72	235	2,538,733	1,588,756	-	-	-	-	-	-	1,588,756	4.5
	<b>Total Ocean</b>	<b>753</b>	<b>181</b>	<b>934</b>	<b>13,933,330</b>	<b>3,127,659</b>	<b>10,529</b>	<b>4,753,023</b>	<b>-</b>	<b>21,711</b>	<b>2,054,777</b>	<b>222,357</b>	<b>10,190,056</b>	<b>29.1</b>
<b>Laker:</b>	Cargo	928	502	1,430	25,454,477	12,781,185	2,237,594	6,417,726	-	37,242	-	-	21,473,747	61.3
	Barge	239	187	426	2,987,858	1,944,609	-	95,107	-	-	-	-	2,039,716	5.8
	Tanker	142	111	253	2,347,854	1,306,440	-	-	-	-	-	-	1,306,440	3.7
	<b>Total Laker</b>	<b>1,309</b>	<b>800</b>	<b>2,109</b>	<b>30,790,189</b>	<b>16,032,234</b>	<b>2,237,594</b>	<b>6,512,833</b>	<b>-</b>	<b>37,242</b>	<b>-</b>	<b>-</b>	<b>24,819,903</b>	<b>70.9</b>
<b>Non-Cargo</b>	Passenger	-	652	652	313,614	-	-	-	-	-	-	-	-	-
		69	10	79	116,463	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>		<b>2,131</b>	<b>1,643</b>	<b>3,774</b>	<b>45,153,596</b>	<b>19,159,893</b>	<b>2,248,123</b>	<b>11,265,856</b>	<b>-</b>	<b>58,953</b>	<b>2,054,777</b>	<b>222,357</b>	<b>35,009,959</b>	<b>100.0</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

**TRAFFIC BY CLASSIFICATION AND TYPE OF CARGO  
2016**

COMMODITY	CARGO TONNES								% of Total
	Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs	Total	
Wheat	-	-	5,954,961	-	-	-	-	5,954,961	17.0
Corn	-	-	1,108,586	-	-	-	-	1,108,586	3.2
Rye	-	-	-	-	-	-	-	-	-
Oats	-	-	12,500	-	-	-	-	12,500	0.0
Barley	-	-	16,499	-	-	-	-	16,499	0.0
Canola (Rapeseed)	-	-	1,301,836	-	-	-	-	1,301,836	3.7
Canola Meal, Pellets	-	-	17,727	-	-	-	-	17,727	0.1
Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-	-
Soybeans	-	-	2,234,906	-	-	-	-	2,234,906	6.4
Soybean Oil Cake, Meal, Pellets	-	-	123,236	-	-	-	-	123,236	0.4
Beans and Peas	-	-	227,005	-	-	-	-	227,005	0.6
Flaxseed	-	-	84,409	-	-	-	-	84,409	0.2
Sunflower Seeds	-	-	-	-	-	-	-	-	-
Other Agricultural Products	-	-	184,191	-	-	-	-	184,191	0.5
<b>Total Agricultural Products</b>	-	-	11,265,856	-	-	-	-	11,265,856	32.2
Packing House Products, Edible	-	-	-	-	-	-	-	-	-
Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-	-
Other Animal Products	-	-	-	-	-	-	-	-	-
<b>Total Animal Products</b>	-	-	-	-	-	-	-	-	-
Bituminous Coal	-	2,248,123	-	-	-	-	-	2,248,123	6.4
Coke	1,227,059	-	-	-	-	-	-	1,227,059	3.5
Iron Ore	6,232,825	-	-	-	-	-	-	6,232,825	17.8
Aluminum Ore and Concentrates	76,441	-	-	-	-	-	-	76,441	0.2
Clay and Bentonite	62,058	-	-	-	-	-	-	62,058	0.2
Gravel and Sand	135,485	-	-	-	27	-	-	135,512	0.4
Stone	385,771	-	-	-	-	-	-	385,771	1.1
Salt	2,531,186	-	-	-	-	-	-	2,531,186	7.2
Potash (2)	232,743	-	-	-	-	-	-	232,743	0.7
Gypsum	455,547	-	-	-	-	-	-	455,547	1.3
Asphalt	274,612	-	-	-	-	-	-	274,612	0.8
Other Mine Products	113,933	-	-	-	2,109	-	-	116,042	0.3
<b>Total Mine Products</b>	11,727,660	2,248,123	-	-	2,136	-	-	13,977,919	39.9
Lumber	1	-	-	-	-	-	-	1	0.0
Other Forest Products	8,030	-	-	-	500	119	-	8,649	0.0
<b>Total Forest Products</b>	8,031	-	-	-	500	119	-	8,650	0.0
Gasoline	1,164,717	-	-	-	-	-	-	1,164,717	3.3
Fuel Oil	817,090	-	-	-	-	-	-	817,090	2.3
Other Petroleum Products	400,855	-	-	-	-	-	-	400,855	1.1
Chemicals (2)	938,235	-	-	-	3,986	532	-	942,753	2.7
Sodium Products	9,108	-	-	-	-	-	-	9,108	0.0
Tar, Pitch and Creosote	109,151	-	-	-	-	-	-	109,151	0.3
Pig Iron	44,378	-	-	-	-	-	-	44,378	0.1
Iron and Steel	4,502	-	-	-	1,139	1,966,445	-	1,972,086	5.6
Steel Slabs	-	-	-	-	-	-	222,357	222,357	0.6
Machinery and Machines (4)	1,959	-	-	-	5,878	38,710	-	46,547	0.1
Cement	849,156	-	-	-	-	-	-	849,156	2.4
Cement Clinkers	739,033	-	-	-	-	-	-	739,033	2.1
Woodpulp	8,000	-	-	-	-	-	-	8,000	0.0
Newsprint and Paper Products	-	-	-	-	-	-	-	-	-
Syrup and Molasses	-	-	-	-	-	-	-	-	-
Sugar	581,095	-	-	-	-	-	-	581,095	1.7
Food Products	-	-	-	-	52	-	-	52	0.0
Furnace Slags	817,305	-	-	-	-	-	-	817,305	2.3
Scrap Iron and Steel	129,196	-	-	-	39	-	-	129,235	0.4
Other Manufactures and Misc. (3) (4)	810,422	-	-	-	45,223	48,971	-	904,616	2.6
<b>Total Manufactures and Misc.</b>	7,424,202	-	-	-	56,317	2,054,658	222,357	9,757,534	27.9
<b>GRAND TOTAL</b>	<b>19,159,893</b>	<b>2,248,123</b>	<b>11,265,856</b>	<b>-</b>	<b>58,953</b>	<b>2,054,777</b>	<b>222,357</b>	<b>35,009,959</b>	<b>100.0</b>

ST. LAWRENCE SEAWAY

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

(2) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" starting in 2016.

(3) Includes unclassified cargoes.

(4) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2016**

**TABLE C3 - Part A**

**ST. LAWRENCE SEAWAY**

NO.	COMMODITY	from:		UPBOUND TONNES				TOTAL UPBOUND	% OF TOTAL UP-BOUND		
		to:		CANADA		UNITED STATES				FOREIGN	
		Canada	United States	Canada	United States	Canada	United States				
1	Wheat	-	67,414	-	-	6,093	-	73,507	0.6		
2	Corn	-	-	-	-	-	11,477	11,477	0.1		
3	Rye	-	-	-	-	-	-	-	-		
4	Oats	-	-	-	-	-	-	-	-		
5	Barley	-	-	-	-	-	16,499	16,499	0.1		
6	Canola (Rapeseed)	-	-	-	-	-	-	-	-		
7	Canola Meal, Pellets	-	-	-	-	-	-	-	-		
8	Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-		
9	Soybeans	-	-	-	-	-	11,843	11,843	0.1		
10	Soybean Oil Cake, Meal, Pellets	-	-	-	-	-	-	-	-		
11	Beans and Peas	-	-	-	-	-	-	-	-		
12	Flaxseed	-	-	-	-	-	-	-	-		
13	Sunflower Seeds	-	-	-	-	-	-	-	-		
14	Other Agricultural Products	-	-	-	-	-	-	-	-		
15	<b>Total Agricultural Products</b>	-	67,414	-	-	6,093	39,819	113,326	0.9		
16	Packing House Products, Edible	-	-	-	-	-	-	-	-		
17	Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-		
18	Other Animal Products	-	-	-	-	-	-	-	-		
19	<b>Total Animal Products</b>	-	-	-	-	-	-	-	-		
20	Bituminous Coal	-	-	-	-	-	10,529	10,529	0.1		
21	Coke	110,053	-	-	-	-	14,108	124,161	1.0		
22	Iron Ore	2,812,774	742,535	-	-	-	-	3,555,309	28.4		
23	Aluminum Ore and Concentrates	48,544	-	-	-	27,897	-	76,441	0.6		
24	Clay and Bentonite	-	-	-	-	-	32,454	32,454	0.3		
25	Gravel and Sand	-	-	-	-	-	27	27	0.0		
26	Stone	80,473	-	-	-	-	3,999	84,472	0.7		
27	Salt	94,802	42,403	-	-	-	-	137,205	1.1		
28	Potash (1)	-	-	-	-	-	-	-	-		
29	Gypsum	399,308	56,239	-	-	-	-	455,547	3.6		
30	Asphalt	33,431	23,042	-	-	-	-	56,473	0.5		
31	Other Mine Products	5,983	-	-	-	-	105,059	111,042	0.9		
32	<b>Total Mine Products</b>	3,585,368	864,219	-	-	27,897	166,176	4,643,660	37.1		
33	Lumber	-	-	-	-	1	-	1	0.0		
34	Other Forest Products	-	-	-	-	8,030	619	8,649	0.1		
35	<b>Total Forest Products</b>	-	-	-	-	8,031	619	8,650	0.1		
36	Gasoline	584,946	39,383	73,872	22,187	161,870	-	882,258	7.0		
37	Fuel Oil	353,081	39,169	40,476	-	-	-	432,726	3.5		
38	Other Petroleum Products	-	-	62,822	-	26,207	-	89,029	0.7		
39	Chemicals (1)	-	-	133,932	-	515,383	47,181	696,496	5.6		
40	Sodium Products	-	-	-	-	9,108	-	9,108	0.1		
41	Tar, Pitch and Creosote	-	-	-	-	52,474	-	52,474	0.4		
42	Pig Iron	-	27,350	-	-	-	17,028	44,378	0.4		
43	Iron and Steel	-	-	-	-	732,263	1,235,118	1,967,381	15.7		
44	Steel Slabs	-	-	-	-	202,049	20,308	222,357	1.8		
45	Machinery and Machines (2)	736	92	54	772	9,928	27,202	38,784	0.3		
46	Cement	3,139	810,152	-	-	-	17,500	830,791	6.6		
47	Cement Clinkers	-	662,233	-	-	76,800	-	739,033	5.9		
48	Woodpulp	-	-	-	-	-	8,000	8,000	0.1		
49	Newsprint and Paper Products	-	-	-	-	-	-	-	-		
50	Syrup and Molasses	-	-	-	-	-	-	-	-		
51	Sugar	215,744	-	-	-	311,151	54,200	581,095	4.6		
52	Food Products	-	-	-	-	-	52	52	0.0		
53	Furnace Slags	60,200	222,250	-	-	23,427	31,017	336,894	2.7		
54	Scrap Iron and Steel	-	28,586	-	-	-	-	28,586	0.2		
55	Other Manufactures and Misc. (2) (3)	98,642	275,757	82,932	-	288,586	56,416	802,333	6.4		
56	<b>Total Manufactures and Misc.</b>	1,316,488	2,104,972	394,088	22,959	2,409,246	1,514,022	7,761,775	62.0		
57	<b>GRAND TOTAL</b>	<b>4,901,856</b>	<b>3,036,605</b>	<b>394,088</b>	<b>22,959</b>	<b>2,451,267</b>	<b>1,720,636</b>	<b>12,527,411</b>	<b>100.0</b>		

(1) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" starting in 2016.

(2) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.

(3) Includes unclassified cargoes.

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2016**

**TABLE C3 - Part B**

**ST. LAWRENCE SEAWAY**

DOWNBOUND TONNES						TOTAL DOWN- BOUND	% OF TOTAL DOWN- BOUND	GRAND TOTALS		NO.
CANADA			UNITED STATES					TOTAL CARGO TONNES	% OF TOTAL	
Canada	United States	Foreign	Canada	United States	Foreign					
3,821,591	-	892,848	352,369	-	814,646	5,881,454	26.2	5,954,961	17.0	1
87,604	-	422,190	42,115	-	545,200	1,097,109	4.9	1,108,586	3.2	2
-	-	-	-	-	-	-	-	-	-	3
12,500	-	-	-	-	-	12,500	0.1	12,500	0.0	4
-	-	-	-	-	-	-	-	16,499	0.0	5
671,040	-	586,762	-	-	44,034	1,301,836	5.8	1,301,836	3.7	6
-	-	17,727	-	-	-	17,727	0.1	17,727	0.1	7
-	-	-	-	-	-	-	-	-	-	8
842,646	-	603,781	546,629	-	230,007	2,223,063	9.9	2,234,906	6.4	9
54,410	-	68,826	-	-	-	123,236	0.5	123,236	0.4	10
-	-	227,005	-	-	-	227,005	1.0	227,005	0.6	11
14,515	-	61,894	-	-	8,000	84,409	0.4	84,409	0.2	12
-	-	-	-	-	-	-	-	-	-	13
-	-	27,948	-	-	156,243	184,191	0.8	184,191	0.5	14
5,504,306	-	2,908,981	941,113	-	1,798,130	11,152,530	49.6	11,265,856	32.2	15
-	-	-	-	-	-	-	-	-	-	16
-	-	-	-	-	-	-	-	-	-	17
-	-	-	-	-	-	-	-	-	-	18
-	-	-	-	-	-	-	-	-	-	19
255,201	-	-	1,982,393	-	-	2,237,594	10.0	2,248,123	6.4	20
361,662	-	-	678,366	-	62,870	1,102,898	4.9	1,227,059	3.5	21
34,938	-	-	2,642,578	-	-	2,677,516	11.9	6,232,825	17.8	22
-	-	-	-	-	-	-	-	76,441	0.2	23
-	-	-	-	-	29,604	29,604	0.1	62,058	0.2	24
-	-	-	135,485	-	-	135,485	0.6	135,512	0.4	25
272,951	-	-	28,348	-	-	301,299	1.3	385,771	1.1	26
1,924,860	114,460	-	354,661	-	-	2,393,981	10.6	2,531,186	7.2	27
75,091	30,553	127,099	-	-	-	232,743	1.0	172,719	0.5	28
-	-	-	-	-	-	-	-	455,547	1.3	29
120,069	-	-	98,070	-	-	218,139	1.0	274,612	0.8	30
-	-	-	-	-	5,000	5,000	0.0	116,042	0.3	31
3,044,772	145,013	127,099	5,919,901	-	97,474	9,334,259	41.5	13,917,895	39.8	32
-	-	-	-	-	-	-	-	1	0.0	33
-	-	-	-	-	-	-	-	8,649	0.0	34
-	-	-	-	-	-	-	-	8,650	0.0	35
227,232	20,418	23,314	11,495	-	-	282,459	1.3	1,164,717	3.3	36
344,396	13,250	26,718	-	-	-	384,364	1.7	817,090	2.3	37
16,774	42,690	159,751	72,498	20,113	-	311,826	1.4	400,855	1.1	38
11,901	52,871	105,434	73,853	-	2,198	246,257	1.1	1,002,777	2.9	39
-	-	-	-	-	-	-	-	9,108	0.0	40
40,680	-	15,997	-	-	-	56,677	0.3	109,151	0.3	41
-	-	-	-	-	-	-	-	44,378	0.1	42
-	-	31	4,502	-	172	4,705	0.0	1,972,086	5.6	43
-	-	-	-	-	-	-	-	222,357	0.6	44
359	-	6,196	130	-	1,078	7,763	0.0	39,323	0.1	45
18,365	-	-	-	-	-	18,365	0.1	849,156	2.4	46
-	-	-	-	-	-	-	-	739,033	2.1	47
-	-	-	-	-	-	-	-	8,000	0.0	48
-	-	-	-	-	-	-	-	-	-	49
-	-	-	-	-	-	-	-	-	-	50
-	-	-	-	-	-	-	-	581,095	1.7	51
-	-	-	-	-	-	-	-	52	0.0	52
326,812	-	-	153,599	-	-	480,411	2.1	817,305	2.3	53
35,619	-	64,991	-	-	39	100,649	0.4	129,235	0.4	54
89,305	55	10,442	-	150	2,331	102,283	0.5	911,840	2.6	55
1,111,443	129,284	412,874	316,077	20,263	5,818	1,995,759	8.9	9,817,558	28.0	56
9,660,521	274,297	3,448,954	7,177,091	20,263	1,901,422	22,482,548	100.0	35,009,959	100.0	57



**TRAFFIC BY MAJOR 25 CANADIAN PORTS  
2016**

**TABLE C4**

**ST. LAWRENCE SEAWAY**

PORT OR AREA (2)	SHIP- MENTS	CARGO TONNES (3)								
		Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs	Total	%
<b>INBOUND:</b>										
Hamilton	552	5,583,639	1,466,218	150,863	-	422	310,176	202,049	7,713,367	16.8
Quebec City	124	1,772,873	27,720	922,517	-	-	-	-	2,723,110	5.9
Montreal	100	532,533	-	1,218,135	-	-	-	-	1,750,668	3.8
Baie Comeau	56	-	-	1,556,048	-	-	-	-	1,556,048	3.4
Tracy/Sorel	89	77,491	-	1,227,505	-	-	-	-	1,304,996	2.8
Port Cartier	45	133,785	-	1,007,607	-	-	-	-	1,141,392	2.5
Toronto	47	1,096,133	-	-	-	-	-	-	1,096,133	2.4
Clarkson/Mississauga	64	808,462	56,172	-	-	-	-	-	864,634	1.9
Cote Ste Catherine	101	620,175	26,378	-	-	2,324	-	-	648,877	1.4
Oakville	75	618,815	-	-	-	-	-	-	618,815	1.3
Belledune	16	162,886	304,295	-	-	-	-	-	467,181	1.0
Johnstown	28	465,149	-	-	-	-	448	-	465,597	1.0
Sarnia	52	444,095	-	-	-	-	-	-	444,095	1.0
Valleyfield	167	357,080	-	-	-	5,001	33,531	-	395,612	0.9
Bowmanville	14	252,185	134,784	-	-	-	-	-	386,969	0.8
Oshawa	52	172,073	-	-	-	-	194,497	-	366,570	0.8
Pictou	14	220,475	53,022	-	-	-	4,882	-	278,379	0.6
Becancour	10	41,044	-	211,177	-	-	-	-	252,221	0.5
Windsor	36	56,176	-	-	-	-	172,471	-	228,647	0.5
Sydney	8	146,426	52,515	-	-	-	-	-	198,941	0.4
Thorold	10	177,609	-	-	-	-	-	-	177,609	0.4
Nanticoke	15	152,017	-	-	-	-	-	-	152,017	0.3
Sept Iles	6	150,819	-	-	-	-	-	-	150,819	0.3
Trois Rivieres	10	62,519	78,214	9,801	-	-	-	-	150,534	0.3
Bath	10	140,976	-	-	-	-	-	-	140,976	0.3
Other Canada	183	649,100	38,276	147,859	-	32,590	42,791	-	910,616	2.0
<b>Total Inbound</b>	<b>1,884</b>	<b>14,894,535</b>	<b>2,237,594</b>	<b>6,451,512</b>	<b>-</b>	<b>40,337</b>	<b>758,796</b>	<b>202,049</b>	<b>24,584,823</b>	<b>53.6</b>
<b>OUTBOUND:</b>										
Thunder Bay	336	560,472	255,201	6,176,237	-	1,693	2,687	-	6,996,290	15.2
Port Cartier	103	2,862,648	-	-	-	-	-	-	2,862,648	6.2
Hamilton	99	330,014	-	1,141,465	-	28	1,230	-	1,472,737	3.2
Goderich	81	1,188,354	-	216,544	-	-	-	-	1,404,898	3.1
Quebec City	75	1,307,129	-	-	-	-	-	-	1,307,129	2.8
Bowmanville	109	1,148,059	-	-	-	-	-	-	1,148,059	2.5
Windsor	71	883,661	-	213,113	-	-	-	-	1,096,774	2.4
Sarnia	84	566,406	-	375,479	-	-	-	-	941,885	2.1
Montreal	129	921,881	-	-	-	-	-	-	921,881	2.0
Nanticoke	36	406,319	-	-	-	-	-	-	406,319	0.9
Sept Iles	44	358,108	-	-	-	-	-	-	358,108	0.8
Halifax	11	291,117	-	-	-	-	-	-	291,117	0.6
Johnstown	16	-	-	289,832	-	-	-	-	289,832	0.6
Sault Ste. Marie	18	233,195	-	-	-	-	-	-	233,195	0.5
Clarkson/Mississauga	25	207,551	-	-	-	-	-	-	207,551	0.5
Bruce Mines	11	191,705	-	-	-	-	-	-	191,705	0.4
Valleyfield	68	159,534	-	-	-	18,778	842	-	179,154	0.4
Tracy/Sorel	17	176,439	-	-	-	-	-	-	176,439	0.4
Bath	28	164,228	-	-	-	-	-	-	164,228	0.4
Cote Ste Catherine	51	93,161	-	-	-	14,128	-	-	107,289	0.2
Pictou	16	101,898	-	-	-	-	-	-	101,898	0.2
Long Pond	7	80,473	-	-	-	-	-	-	80,473	0.2
Magdalen Islands	3	69,537	-	-	-	-	-	-	69,537	0.2
Port Colborne	4	53,904	-	9,605	-	-	-	-	63,509	0.1
Stephenville	2	50,996	-	-	-	-	-	-	50,996	0.1
Other Canada	116	134,227	-	58,426	-	5,607	322	-	198,582	0.4
<b>Total Outbound</b>	<b>1,560</b>	<b>12,541,016</b>	<b>255,201</b>	<b>8,480,701</b>	<b>-</b>	<b>40,234</b>	<b>5,081</b>	<b>-</b>	<b>21,322,233</b>	<b>46.4</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

(2) Area includes all ports or installations within a 20 kilometre (12.5 mile) radius of the main harbour.

(3) Tonnage figures are limited to cargo volumes moved through the Seaway lock structures.

**TRAFFIC BY MAJOR 25 UNITED STATES PORTS  
2016**

**TABLE C5**

**ST. LAWRENCE SEAWAY**

PORT OR AREA (2)	SHIP- MENTS	CARGO TONNES (3)								
		Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs	Total	%
<b>INBOUND:</b>										
Detroit	188	787,119	-	-	-	89	272,067	-	1,059,275	7.3
Cleveland	400	661,954	-	-	-	9,763	321,724	-	993,441	6.8
Burns Harbour	67	612,638	-	-	-	151	116,531	20,308	749,628	5.1
Chicago	187	72,225	5,279	11,843	-	-	368,226	-	457,573	3.1
Toledo	63	355,783	-	67,414	-	-	7,124	-	430,321	2.9
Ashtabula	17	255,578	-	11,477	-	-	-	-	267,055	1.8
Milwaukee	86	-	-	16,499	-	-	177,992	-	194,491	1.3
Indiana Harbour	6	162,681	-	-	-	-	-	-	162,681	1.1
Oswego	24	157,606	-	-	-	-	26	-	157,632	1.1
Duluth	18	111,293	-	-	-	717	7,570	-	119,580	0.8
Ogdensburg	8	71,797	-	-	-	-	12,330	-	84,127	0.6
Buffalo	12	81,913	-	-	-	-	-	-	81,913	0.6
New York City	7	73,795	-	-	-	-	-	-	73,795	0.5
Lake Michigan	6	56,239	-	-	-	-	3,861	-	60,100	0.4
Houston	7	49,847	-	-	-	-	55	-	49,902	0.3
Green Bay	4	33,548	-	-	-	-	-	-	33,548	0.2
Lake Huron	3	21,536	-	-	-	-	-	-	21,536	0.1
Marinette	4	16,453	-	-	-	-	-	-	16,453	0.1
Bay City	3	11,500	-	-	-	-	2,532	-	14,032	0.1
Providence	1	12,604	-	-	-	-	-	-	12,604	0.1
Other Delaware	1	10,072	-	-	-	-	-	-	10,072	0.1
Baltimore	1	8,574	-	-	-	-	-	-	8,574	0.1
Menominee	1	8,000	-	-	-	-	-	-	8,000	0.1
Muskegon	1	-	5,250	-	-	-	-	-	5,250	0.0
Baton Rouge	1	3,024	-	-	-	-	-	-	3,024	0.0
Other U.S. Ports	3	150	-	-	-	-	3	-	153	0.0
<b>Total Inbound</b>	<b>1,119</b>	<b>3,635,929</b>	<b>10,529</b>	<b>107,233</b>	<b>-</b>	<b>10,720</b>	<b>1,290,041</b>	<b>20,308</b>	<b>5,074,760</b>	<b>34.8</b>
<b>OUTBOUND:</b>										
Toledo	95	273,489	817,184	992,186	-	-	-	-	2,082,859	14.3
Superior	67	1,272,692	356,810	142,780	-	-	-	-	1,772,282	12.1
Duluth	81	111,174	-	1,158,831	-	-	-	-	1,270,005	8.7
Conneaut	34	955,336	-	-	-	-	-	-	955,336	6.5
Sandusky	59	157,814	671,657	-	-	-	-	-	829,471	5.7
Cleveland	123	354,661	-	-	-	4,889	864	-	360,414	2.5
Milwaukee	14	-	-	273,095	-	-	-	-	273,095	1.9
Gary	7	179,985	-	-	-	-	-	-	179,985	1.2
Marquette	6	156,551	-	-	-	-	-	-	156,551	1.1
Ashtabula	6	5,000	136,742	-	-	-	-	-	141,742	1.0
Detroit	21	131,443	-	-	-	-	-	-	131,443	0.9
Chicago	7	44,413	-	81,991	-	-	-	-	126,404	0.9
Tampa	7	121,299	-	-	-	-	-	-	121,299	0.8
Burns Harbour	9	28,842	-	90,360	-	15	50	-	119,267	0.8
Silver Bay	4	116,630	-	-	-	-	-	-	116,630	0.8
Lake Michigan	5	116,388	-	-	-	-	-	-	116,388	0.8
Two Harbours	3	87,494	-	-	-	-	-	-	87,494	0.6
Indiana Harbour	3	85,923	-	-	-	-	-	-	85,923	0.6
Green Bay	15	85,200	-	-	-	-	-	-	85,200	0.6
New York City	9	75,862	-	-	-	-	-	-	75,862	0.5
Ludington	10	61,151	-	-	-	-	-	-	61,151	0.4
Donaldsonville	5	59,431	-	-	-	-	-	-	59,431	0.4
Escanaba	2	53,875	-	-	-	-	-	-	53,875	0.4
New Orleans	4	40,476	-	-	-	-	-	-	40,476	0.3
Morehead City	2	36,134	-	-	-	-	-	-	36,134	0.2
Other U.S. Ports	19	176,922	-	-	-	-	184	-	177,106	1.2
<b>Total Outbound</b>	<b>617</b>	<b>4,788,185</b>	<b>1,982,393</b>	<b>2,739,243</b>	<b>-</b>	<b>4,904</b>	<b>1,098</b>	<b>-</b>	<b>9,515,823</b>	<b>65.2</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

(2) Area includes all ports or installations within a 20 kilometre (12.5 mile) radius of the main harbour.

(3) Tonnage figures are limited to cargo volumes moved through the Seaway lock structures.

**TRAFFIC RESULTS**  
**1997 - 2016**

**TABLE C6**

**ST. LAWRENCE SEAWAY**

YEAR	VESSEL TRANSITS			CARGO TONNES			GROSS REGISTERED TONNAGE		
	Upbound	Downbound	Total	Upbound	Downbound	Total	Upbound	Downbound	Total
1997	2,051	2,010	4,061	22,390,130	26,562,765	48,952,895	25,372,516	24,402,455	49,774,971
1998	2,209	2,157	4,366	26,183,719	24,947,562	51,131,281	27,072,903	26,285,213	53,358,116
1999	2,342	2,314	4,656	23,244,713	24,614,650	47,859,363	24,341,426	24,040,344	48,381,770
2000	2,106	2,079	4,185	22,612,033	23,961,411	46,573,444	23,309,675	22,954,852	46,264,527
2001	2,057	2,028	4,085	19,234,141	22,471,184	41,705,325	21,927,563	21,626,296	43,553,859
2002	1,949	1,942	3,891	20,374,620	21,013,630	41,388,250	21,504,691	21,304,198	42,808,889
2003	1,948	1,938	3,886	19,829,065	21,018,744	40,847,809	20,609,519	20,372,407	40,981,926
2004	2,506	1,584	4,090	20,782,503	22,699,067	43,481,570	21,477,380	21,428,094	42,905,474
2005	2,172	2,189	4,361	20,345,001	22,956,145	43,301,146	21,532,816	21,470,054	43,002,870
2006	2,317	2,296	4,613	22,386,679	24,777,481	47,164,160	23,261,882	23,026,783	46,288,665
2007	2,220	2,230	4,450	17,795,395	25,214,796	43,010,191	22,620,354	22,494,172	45,114,526
2008	2,114	2,118	4,232	15,812,767	24,985,325	40,798,092	21,793,611	21,735,721	43,529,332
2009	1,830	1,801	3,631	8,833,663	21,874,333	30,707,996	18,594,575	18,426,700	37,021,275
2010	1,952	1,973	3,925	13,095,330	23,452,037	36,547,367	21,042,606	20,909,857	41,952,463
2011	2,121	2,106	4,227	13,740,741	23,798,869	37,539,610	22,494,822	22,262,047	44,756,869
2012	2,047	2,036	4,083	14,424,943	24,630,523	39,055,466	23,210,732	22,953,151	46,163,883
2013	1,950	1,950	3,900	11,946,988	25,107,681	37,054,669	22,640,639	22,502,914	45,143,553
2014	1,980	1,957	3,937	13,842,660	26,044,382	39,887,042	24,748,282	24,324,218	49,072,500
2015	1,903	1,878	3,781	14,326,354	21,923,218	36,249,572	22,435,191	22,068,722	44,503,913
2016	1,895	1,879	3,774	12,527,411	22,482,548	35,009,959	22,696,584	22,457,012	45,153,596
<b>TOTAL</b>	<b>41,669</b>	<b>40,465</b>	<b>82,134</b>	<b>353,728,856</b>	<b>474,536,351</b>	<b>828,265,207</b>	<b>452,687,767</b>	<b>447,045,210</b>	<b>899,732,977</b>

**CARGO BY TARIFF CLASSIFICATION  
1997 - 2016**

**TABLE C7**

**ST. LAWRENCE SEAWAY**

YEAR	BULK (1)		COAL		GRAINS		GOVT. AID		CONTAINERS		GENERAL CARGO		STEEL SLABS		TOTAL
	Tonnes	%	TONNES	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	TONNES
1997	29,965,961	61.2	N/A	-	13,862,565	28.3	-	-	11,816	0.0	5,112,553	10.4	N/A	-	48,952,895
1998	30,638,868	59.9	N/A	-	13,452,842	26.3	30,828	0.1	5,211	0.0	7,003,532	13.7	N/A	-	51,131,281
1999	24,563,155	51.3	4,541,600	9.5	14,084,611	29.4	80,692	0.2	11,573	0.0	4,165,674	8.7	412,058	0.9	47,859,363
2000	23,933,895	51.4	4,345,503	9.3	13,199,859	28.3	9,655	0.0	19,521	0.0	4,703,411	10.1	361,600	0.8	46,573,444
2001	22,087,887	53.0	4,803,620	11.5	11,792,163	28.3	-	-	16,471	0.0	2,621,102	6.3	384,082	0.9	41,705,325
2002	22,615,138	54.6	4,114,092	9.9	10,461,094	25.3	25,834	0.1	14,721	0.0	3,019,259	7.3	1,138,112	2.7	41,388,250
2003	24,436,923	59.8	4,196,191	10.3	9,645,630	23.6	7,826	0.0	15,208	0.0	2,118,663	5.2	427,368	1.0	40,847,809
2004	25,661,995	59.0	4,230,079	9.7	9,322,479	21.4	-	-	14,983	0.0	3,708,282	8.5	543,752	1.3	43,481,570
2005	26,558,285	61.3	3,693,199	8.5	9,773,084	22.6	-	-	17,285	0.0	2,632,002	6.1	627,291	1.4	43,301,146
2006	27,336,704	58.0	3,714,491	7.9	11,538,123	24.5	11,064	0.0	19,358	0.0	3,646,846	7.7	897,574	1.9	47,164,160
2007	27,016,397	62.8	3,159,070	7.3	10,405,868	24.2	-	-	23,377	0.1	1,988,841	4.6	416,638	1.0	43,010,191
2008	27,625,491	67.7	3,638,907	8.9	7,592,107	18.6	-	-	27,266	0.1	1,851,389	4.5	62,932	0.2	40,798,092
2009	18,718,941	61.0	2,852,049	9.3	8,181,113	26.6	-	-	45,351	0.1	849,280	2.8	61,262	0.2	30,707,996
2010	22,063,968	60.4	3,695,900	10.1	9,206,753	25.2	-	-	38,015	0.1	1,463,210	4.0	79,521	0.2	36,547,367
2011	23,657,035	63.0	3,739,848	10.0	8,613,271	22.9	-	-	36,702	0.1	1,410,756	3.8	81,998	0.2	37,539,610
2012	24,067,976	61.6	4,595,715	11.8	8,619,112	22.1	-	-	34,122	0.1	1,578,012	4.0	160,529	0.4	39,055,466
2013	22,825,891	61.6	4,453,956	12.0	8,373,966	22.6	-	-	36,653	0.1	1,343,061	3.6	21,142	0.1	37,054,669
2014	20,629,092	51.7	4,204,227	10.5	12,100,960	30.3	-	-	44,073	0.1	2,554,080	6.4	354,610	0.9	39,887,042
2015	20,460,152	56.4	2,497,029	6.9	10,858,549	30.0	-	-	69,797	0.2	2,161,175	6.0	202,870	0.6	36,249,572
2016	19,159,893	54.7	2,248,123	6.4	11,265,856	32.2	-	-	58,953	0.2	2,054,777	5.9	222,357	0.6	35,009,959
<b>TOTAL</b>	<b>484,023,647</b>	<b>58.4</b>	<b>68,723,599</b>	<b>8.3</b>	<b>212,350,005</b>	<b>25.6</b>	<b>165,899</b>	<b>0.0</b>	<b>560,456</b>	<b>0.1</b>	<b>55,985,905</b>	<b>6.8</b>	<b>6,455,696</b>	<b>0.8</b>	<b>828,265,207</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition to domestic in the Tariff of Tolls.

**PART III**

**ST. LAWRENCE SEAWAY**

**TOLL TRAFFIC**

**FOR THE**

**MONTREAL - LAKE ONTARIO SECTION**

**TRAFFIC BY CLASS AND TYPE OF VESSEL  
2016**

TABLE M1

MONTREAL-LAKE ONTARIO SECTION

CLASS AND TYPE OF VESSEL		VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES								
		Loaded	Ballast	Total		Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs	Total	%
<b>UPBOUND:</b>														
<b>Ocean:</b>	Cargo	280	67	347	5,631,590	1,221,356	10,529	45,912	-	13,815	2,048,652	222,357	3,562,621	13.2
	Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tanker	107	10	117	1,263,586	1,097,635	-	-	-	-	-	-	1,097,635	4.1
	<b>Total Ocean</b>	<b>387</b>	<b>77</b>	<b>464</b>	<b>6,895,176</b>	<b>2,318,991</b>	<b>10,529</b>	<b>45,912</b>	<b>-</b>	<b>13,815</b>	<b>2,048,652</b>	<b>222,357</b>	<b>4,660,256</b>	<b>17.2</b>
<b>Laker:</b>	Cargo	216	226	442	8,414,853	4,858,877	-	-	-	5,607	-	-	4,864,484	18.0
	Barge	45	36	81	500,914	375,873	-	-	-	-	-	-	375,873	1.4
	Tanker	96	11	107	985,836	899,046	-	-	-	-	-	-	899,046	3.3
	<b>Total Laker</b>	<b>357</b>	<b>273</b>	<b>630</b>	<b>9,901,603</b>	<b>6,133,796</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,607</b>	<b>-</b>	<b>-</b>	<b>6,139,403</b>	<b>22.7</b>
<b>Non-Cargo</b>		-	147	147	84,438	-	-	-	-	-	-	-	-	-
<b>Passenger</b>		26	4	30	30,402	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>		<b>770</b>	<b>501</b>	<b>1,271</b>	<b>16,911,619</b>	<b>8,452,787</b>	<b>10,529</b>	<b>45,912</b>	<b>-</b>	<b>19,422</b>	<b>2,048,652</b>	<b>222,357</b>	<b>10,799,659</b>	<b>39.9</b>
<b>DOWNBOUND:</b>														
<b>Ocean:</b>	Cargo	310	33	343	5,591,887	317,547	-	4,707,111	-	7,896	6,125	-	5,038,679	18.6
	Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tanker	55	61	116	1,250,234	482,638	-	-	-	-	-	-	482,638	1.8
	<b>Total Ocean</b>	<b>365</b>	<b>94</b>	<b>459</b>	<b>6,842,121</b>	<b>800,185</b>	<b>-</b>	<b>4,707,111</b>	<b>-</b>	<b>7,896</b>	<b>6,125</b>	<b>-</b>	<b>5,521,317</b>	<b>20.4</b>
<b>Laker:</b>	Cargo	420	29	449	8,516,606	3,280,048	527,398	6,183,357	-	31,635	-	-	10,022,438	37.0
	Barge	67	16	83	523,081	431,105	-	95,107	-	-	-	-	526,212	1.9
	Tanker	22	86	108	999,188	181,583	-	-	-	-	-	-	181,583	0.7
	<b>Total Laker</b>	<b>509</b>	<b>131</b>	<b>640</b>	<b>10,038,875</b>	<b>3,892,736</b>	<b>527,398</b>	<b>6,278,464</b>	<b>-</b>	<b>31,635</b>	<b>-</b>	<b>-</b>	<b>10,730,233</b>	<b>39.7</b>
<b>Non-Cargo</b>		-	145	145	89,256	-	-	-	-	-	-	-	-	-
<b>Passenger</b>		26	4	30	30,402	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>		<b>900</b>	<b>374</b>	<b>1,274</b>	<b>17,000,654</b>	<b>4,692,921</b>	<b>527,398</b>	<b>10,985,575</b>	<b>-</b>	<b>39,531</b>	<b>6,125</b>	<b>-</b>	<b>16,251,550</b>	<b>60.1</b>
<b>TOTALS:</b>														
<b>Ocean:</b>	Cargo	590	100	690	11,223,477	1,538,903	10,529	4,753,023	-	21,711	2,054,777	222,357	8,601,300	31.8
	Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tanker	162	71	233	2,513,820	1,580,273	-	-	-	-	-	-	1,580,273	5.8
	<b>Total Ocean</b>	<b>752</b>	<b>171</b>	<b>923</b>	<b>13,737,297</b>	<b>3,119,176</b>	<b>10,529</b>	<b>4,753,023</b>	<b>-</b>	<b>21,711</b>	<b>2,054,777</b>	<b>222,357</b>	<b>10,181,573</b>	<b>37.6</b>
<b>Laker:</b>	Cargo	636	255	891	16,931,459	8,138,925	527,398	6,183,357	-	37,242	-	-	14,886,922	55.0
	Barge	112	52	164	1,023,995	806,978	-	95,107	-	-	-	-	902,085	3.3
	Tanker	118	97	215	1,985,024	1,080,629	-	-	-	-	-	-	1,080,629	4.0
	<b>Total Laker</b>	<b>866</b>	<b>404</b>	<b>1,270</b>	<b>19,940,478</b>	<b>10,026,532</b>	<b>527,398</b>	<b>6,278,464</b>	<b>-</b>	<b>37,242</b>	<b>-</b>	<b>-</b>	<b>16,869,636</b>	<b>62.4</b>
<b>Non-Cargo</b>		-	292	292	173,694	-	-	-	-	-	-	-	-	-
<b>Passenger</b>		52	8	60	60,804	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>		<b>1,670</b>	<b>875</b>	<b>2,545</b>	<b>33,912,273</b>	<b>13,145,708</b>	<b>537,927</b>	<b>11,031,487</b>	<b>-</b>	<b>58,953</b>	<b>2,054,777</b>	<b>222,357</b>	<b>27,051,209</b>	<b>100.0</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls

**TRAFFIC BY CLASSIFICATION AND TYPE OF CARGO  
2016**

**TABLE M2** **MONTREAL-LAKE ONTARIO SECTION**

COMMODITY	CARGO TONNES								% of Total
	Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs	Total	
Wheat	-	-	5,882,047	-	-	-	-	5,882,047	21.7
Corn	-	-	1,097,994	-	-	-	-	1,097,994	4.1
Rye	-	-	-	-	-	-	-	-	-
Oats	-	-	500	-	-	-	-	500	0.0
Barley	-	-	16,499	-	-	-	-	16,499	0.1
Canola (Rapeseed)	-	-	1,162,973	-	-	-	-	1,162,973	4.3
Canola Meal, Pellets	-	-	17,727	-	-	-	-	17,727	0.1
Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-	-
Soybeans	-	-	2,234,906	-	-	-	-	2,234,906	8.3
Soybean Oil Cake, Meal, Pellets	-	-	123,236	-	-	-	-	123,236	0.5
Beans and Peas	-	-	227,005	-	-	-	-	227,005	0.8
Flaxseed	-	-	84,409	-	-	-	-	84,409	0.3
Sunflower Seeds	-	-	-	-	-	-	-	-	-
Other Agricultural Products	-	-	184,191	-	-	-	-	184,191	0.7
<b>Total Agricultural Products</b>	-	-	11,031,487	-	-	-	-	11,031,487	40.8
Packing House Products, Edible	-	-	-	-	-	-	-	-	-
Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-	-
Other Animal Products	-	-	-	-	-	-	-	-	-
<b>Total Animal Products</b>	-	-	-	-	-	-	-	-	-
Bituminous Coal	-	537,927	-	-	-	-	-	537,927	2.0
Coke	785,994	-	-	-	-	-	-	785,994	2.9
Iron Ore	5,196,730	-	-	-	-	-	-	5,196,730	19.2
Aluminum Ore and Concentrates	76,441	-	-	-	-	-	-	76,441	0.3
Clay and Bentonite	62,058	-	-	-	-	-	-	62,058	0.2
Gravel and Sand	-	-	-	-	27	-	-	27	0.0
Stone	140,162	-	-	-	-	-	-	140,162	0.5
Salt	888,822	-	-	-	-	-	-	888,822	3.3
Potash (2)	145,769	-	-	-	-	-	-	145,769	0.5
Gypsum	455,547	-	-	-	-	-	-	455,547	1.7
Asphalt	155,575	-	-	-	-	-	-	155,575	0.6
Other Mine Products	113,933	-	-	-	2,109	-	-	116,042	0.4
<b>Total Mine Products</b>	8,021,031	537,927	-	-	2,136	-	-	8,561,094	31.6
Lumber	1	-	-	-	-	-	-	1	0.0
Other Forest Products	8,030	-	-	-	500	119	-	8,649	0.0
<b>Total Forest Products</b>	8,031	-	-	-	500	119	-	8,650	0.0
Gasoline	955,603	-	-	-	-	-	-	955,603	3.5
Fuel Oil	791,910	-	-	-	-	-	-	791,910	2.9
Other Petroleum Products	400,855	-	-	-	-	-	-	400,855	1.5
Chemicals (2)	915,251	-	-	-	3,986	532	-	919,769	3.4
Sodium Products	9,108	-	-	-	-	-	-	9,108	0.0
Tar, Pitch and Creosote	68,471	-	-	-	-	-	-	68,471	0.3
Pig Iron	44,378	-	-	-	-	-	-	44,378	0.2
Iron and Steel	-	-	-	-	1,139	1,966,445	-	1,967,584	7.3
Steel Slabs	-	-	-	-	-	-	222,357	222,357	0.8
Machinery and Machines (4)	1,776	-	-	-	5,878	38,710	-	46,364	0.2
Cement	35,865	-	-	-	-	-	-	35,865	0.1
Cement Clinkers	76,800	-	-	-	-	-	-	76,800	0.3
Woodpulp	8,000	-	-	-	-	-	-	8,000	0.0
Newsprint and Paper Products	-	-	-	-	-	-	-	-	-
Syrup and Molasses	-	-	-	-	-	-	-	-	-
Sugar	581,095	-	-	-	-	-	-	581,095	2.1
Food Products	-	-	-	-	52	-	-	52	0.0
Furnace Slags	316,502	-	-	-	-	-	-	316,502	1.2
Scrap Iron and Steel	100,610	-	-	-	39	-	-	100,649	0.4
Other Manufactures and Misc. (3) (4)	810,422	-	-	-	45,223	48,971	-	904,616	3.3
<b>Total Manufactures and Misc.</b>	5,116,646	-	-	-	56,317	2,054,658	222,357	7,449,978	27.5
<b>GRAND TOTAL</b>	<b>13,145,708</b>	<b>537,927</b>	<b>11,031,487</b>	<b>-</b>	<b>58,953</b>	<b>2,054,777</b>	<b>222,357</b>	<b>27,051,209</b>	<b>100.0</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

(2) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" starting in 2016.

(3) Includes unclassified cargoes.

(4) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2016**

**TABLE M3 - Part A**

**MONTREAL-LAKE ONTARIO SECTION**

NO.	COMMODITY	from: to:		UPBOUND TONNES				TOTAL UPBOUND	% OF TOTAL UP- BOUND		
				CANADA		UNITED STATES				FOREIGN	
				Canada	United States	Canada	United States			Canada	United States
1	Wheat	-	-	-	-	6,093	-	6,093	0.1		
2	Corn	-	-	-	-	-	11,477	11,477	0.1		
3	Rye	-	-	-	-	-	-	-	-		
4	Oats	-	-	-	-	-	-	-	-		
5	Barley	-	-	-	-	-	16,499	16,499	0.2		
6	Canola (Rapeseed)	-	-	-	-	-	-	-	-		
7	Canola Meal, Pellets	-	-	-	-	-	-	-	-		
8	Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-		
9	Soybeans	-	-	-	-	-	11,843	11,843	0.1		
10	Soybean Oil Cake, Meal, Pellets	-	-	-	-	-	-	-	-		
11	Beans and Peas	-	-	-	-	-	-	-	-		
12	Flaxseed	-	-	-	-	-	-	-	-		
13	Sunflower Seeds	-	-	-	-	-	-	-	-		
14	Other Agricultural Products	-	-	-	-	-	-	-	-		
15	<b>Total Agricultural Products</b>	-	-	-	-	6,093	39,819	45,912	0.4		
16	Packing House Products, Edible	-	-	-	-	-	-	-	-		
17	Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-		
18	Other Animal Products	-	-	-	-	-	-	-	-		
19	<b>Total Animal Products</b>	-	-	-	-	-	-	-	-		
20	Bituminous Coal	-	-	-	-	-	10,529	10,529	0.1		
21	Coke	110,053	-	-	-	-	14,108	124,161	1.1		
22	Iron Ore	2,812,774	714,995	-	-	-	-	3,527,769	32.7		
23	Aluminum Ore and Concentrates	48,544	-	-	-	27,897	-	76,441	0.7		
24	Clay and Bentonite	-	-	-	-	-	32,454	32,454	0.3		
25	Gravel and Sand	-	-	-	-	-	27	27	0.0		
26	Stone	80,473	-	-	-	-	3,999	84,472	0.8		
27	Salt	69,537	42,403	-	-	-	-	111,940	1.0		
28	Potash (1)	-	-	-	-	-	-	-	-		
29	Gypsum	399,308	56,239	-	-	-	-	455,547	4.2		
30	Asphalt	33,431	23,042	-	-	-	-	56,473	0.5		
31	Other Mine Products	5,983	-	-	-	-	105,059	111,042	1.0		
32	<b>Total Mine Products</b>	3,560,103	836,679	-	-	27,897	166,176	4,590,855	42.5		
33	Lumber	-	-	-	-	1	-	1	0.0		
34	Other Forest Products	-	-	-	-	8,030	619	8,649	0.1		
35	<b>Total Forest Products</b>	-	-	-	-	8,031	619	8,650	0.1		
36	Gasoline	584,946	39,383	73,872	22,187	161,870	-	882,258	8.2		
37	Fuel Oil	353,081	39,169	40,476	-	-	-	432,726	4.0		
38	Other Petroleum Products	-	-	62,822	-	26,207	-	89,029	0.8		
39	Chemicals (1)	-	-	133,932	-	515,383	47,181	696,496	6.4		
40	Sodium Products	-	-	-	-	9,108	-	9,108	0.1		
41	Tar, Pitch and Creosote	-	-	-	-	52,474	-	52,474	0.5		
42	Pig Iron	-	27,350	-	-	-	17,028	44,378	0.4		
43	Iron and Steel	-	-	-	-	732,263	1,235,118	1,967,381	18.2		
44	Steel Slabs	-	-	-	-	202,049	20,308	222,357	2.1		
45	Machinery and Machines (2)	645	-	54	772	9,928	27,202	38,601	0.4		
46	Cement	-	-	-	-	-	17,500	17,500	0.2		
47	Cement Clinkers	-	-	-	-	76,800	-	76,800	0.7		
48	Woodpulp	-	-	-	-	-	8,000	8,000	0.1		
49	Newsprint and Paper Products	-	-	-	-	-	-	-	-		
50	Syrup and Molasses	-	-	-	-	-	-	-	-		
51	Sugar	215,744	-	-	-	311,151	54,200	581,095	5.4		
52	Food Products	-	-	-	-	-	52	52	0.0		
53	Furnace Slags	4,200	175,010	-	-	23,427	31,017	233,654	2.2		
54	Scrap Iron and Steel	-	-	-	-	-	-	-	-		
55	Other Manufactures and Misc. (2) (3)	98,642	275,757	82,932	-	288,586	56,416	802,333	7.4		
56	<b>Total Manufactures and Misc.</b>	1,257,258	556,669	394,088	22,959	2,409,246	1,514,022	6,154,242	57.0		
57	<b>GRAND TOTAL</b>	4,817,361	1,393,348	394,088	22,959	2,451,267	1,720,636	10,799,659	100.0		

(1) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" starting in 2016.

(2) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.

(3) Includes unclassified cargoes.



**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2016**

**TABLE M3 - Part B**

**MONTREAL-LAKE ONTARIO SECTION**

DOWNBOUND TONNES						TOTAL DOWN- BOUND	% OF TOTAL DOWN- BOUND	GRAND TOTALS		NO.
CANADA			UNITED STATES					TOTAL CARGO TONNES	% OF TOTAL	
Canada	United States	Foreign	Canada	United States	Foreign					
3,816,091	-	892,848	352,369	-	814,646	5,875,954	36.2	5,882,047	21.7	1
87,604	-	422,190	31,523	-	545,200	1,086,517	6.7	1,097,994	4.1	2
-	-	-	-	-	-	-	-	-	-	3
500	-	-	-	-	-	500	0.0	500	0.0	4
-	-	-	-	-	-	-	-	16,499	0.1	5
532,177	-	586,762	-	-	44,034	1,162,973	7.2	1,162,973	4.3	6
-	-	17,727	-	-	-	17,727	0.1	17,727	0.1	7
-	-	-	-	-	-	-	-	-	-	8
842,646	-	603,781	546,629	-	230,007	2,223,063	13.7	2,234,906	8.3	9
54,410	-	68,826	-	-	-	123,236	0.8	123,236	0.5	10
-	-	227,005	-	-	-	227,005	1.4	227,005	0.8	11
14,515	-	61,894	-	-	8,000	84,409	0.5	84,409	0.3	12
-	-	-	-	-	-	-	-	-	-	13
-	-	27,948	-	-	156,243	184,191	1.1	184,191	0.7	14
5,347,943	-	2,908,981	930,521	-	1,798,130	10,985,575	67.6	11,031,487	40.8	15
-	-	-	-	-	-	-	-	-	-	16
-	-	-	-	-	-	-	-	-	-	17
-	-	-	-	-	-	-	-	-	-	18
-	-	-	-	-	-	-	-	-	-	19
-	-	-	527,398	-	-	527,398	3.2	537,927	2.0	20
334,401	-	-	264,562	-	62,870	661,833	4.1	785,994	2.9	21
34,938	-	-	1,634,023	-	-	1,668,961	10.3	5,196,730	19.2	22
-	-	-	-	-	-	-	-	76,441	0.3	23
-	-	-	-	-	29,604	29,604	0.2	62,058	0.2	24
-	-	-	-	-	-	-	-	27	0.0	25
27,342	-	-	28,348	-	-	55,690	0.3	140,162	0.5	26
713,896	-	-	62,986	-	-	776,882	4.8	888,822	3.3	27
10,096	8,574	127,099	-	-	-	145,769	0.9	85,745	0.3	28
-	-	-	-	-	-	-	-	455,547	1.7	29
61,049	-	-	38,053	-	-	99,102	0.6	155,575	0.6	30
-	-	-	-	-	5,000	5,000	0.0	116,042	0.4	31
1,181,722	8,574	127,099	2,555,370	-	97,474	3,970,239	24.4	8,501,070	31.4	32
-	-	-	-	-	-	-	-	1	0.0	33
-	-	-	-	-	-	-	-	8,649	0.0	34
-	-	-	-	-	-	-	-	8,650	0.0	35
18,118	20,418	23,314	11,495	-	-	73,345	0.5	955,603	3.5	36
319,216	13,250	26,718	-	-	-	359,184	2.2	791,910	2.9	37
16,774	42,690	159,751	72,498	20,113	-	311,826	1.9	400,855	1.5	38
11,901	52,871	105,434	50,869	-	2,198	223,273	1.4	979,793	3.6	39
-	-	-	-	-	-	-	-	9,108	0.0	40
-	-	15,997	-	-	-	15,997	0.1	68,471	0.3	41
-	-	-	-	-	-	-	-	44,378	0.2	42
-	-	31	-	-	172	203	0.0	1,967,584	7.3	43
-	-	-	-	-	-	-	-	222,357	0.8	44
359	-	6,196	130	-	1,078	7,763	0.0	39,232	0.1	45
18,365	-	-	-	-	-	18,365	0.1	35,865	0.1	46
-	-	-	-	-	-	-	-	76,800	0.3	47
-	-	-	-	-	-	-	-	8,000	0.0	48
-	-	-	-	-	-	-	-	-	-	49
-	-	-	-	-	-	-	-	-	-	50
-	-	-	-	-	-	-	-	581,095	2.1	51
-	-	-	-	-	-	-	-	52	0.0	52
82,848	-	-	-	-	-	82,848	0.5	316,502	1.2	53
35,619	-	64,991	-	-	39	100,649	0.6	100,649	0.4	54
89,305	55	10,442	-	150	2,331	102,283	0.6	911,748	3.4	55
592,505	129,284	412,874	134,992	20,263	5,818	1,295,736	8.0	7,510,002	27.8	56
7,122,170	137,858	3,448,954	3,620,883	20,263	1,901,422	16,251,550	100.0	27,051,209	100.0	57

**TRAFFIC BY MONTH AND TYPE OF CARGO  
2016**

**TABLE M4** **MONTREAL- LAKE ONTARIO SECTION**

DIRECTION AND MONTH	VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES								
	Loaded	Ballast	Total		Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs	Total	%
<b>UPBOUND:</b>													
March	13	10	23	314,420	161,046	-	-	-	916	27,085	-	189,047	0.7
April	63	34	97	1,321,014	675,934	-	23,320	-	732	232,732	-	932,718	3.4
May	85	28	113	1,442,441	897,757	-	-	-	2,217	208,638	40,114	1,148,726	4.2
June	94	48	142	1,466,156	1,021,311	-	-	-	398	219,869	-	1,241,578	4.6
July	87	54	141	1,639,092	1,004,693	-	16,499	-	2,669	168,188	40,785	1,232,834	4.6
August	92	47	139	1,822,077	1,014,692	-	-	-	1,881	213,876	40,190	1,270,639	4.7
September	91	56	147	1,922,240	792,303	-	-	-	2,972	249,722	40,844	1,085,841	4.0
October	102	91	193	2,797,718	1,175,310	10,529	6,093	-	3,079	221,077	-	1,416,088	5.2
November	94	73	167	2,581,086	992,026	-	-	-	2,354	412,005	40,415	1,446,800	5.3
December	49	60	109	1,605,375	717,715	-	-	-	2,204	95,460	20,009	835,388	3.1
January	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>	770	501	1,271	16,911,619	8,452,787	10,529	45,912	-	19,422	2,048,652	222,357	10,799,659	39.9
<b>DOWNBOUND:</b>													
March	9	9	18	154,610	27,665	-	133,429	-	-	-	-	161,094	0.6
April	59	23	82	1,095,748	246,821	31,750	744,387	-	364	1,836	-	1,025,158	3.8
May	69	48	117	1,544,347	281,311	58,050	867,562	-	854	1,013	-	1,208,790	4.5
June	77	59	136	1,534,573	292,608	94,190	732,773	-	7,057	452	-	1,127,080	4.2
July	84	51	135	1,587,998	319,577	121,673	990,284	-	4,400	368	-	1,436,302	5.3
August	110	31	141	1,818,887	574,451	68,942	1,112,457	-	13,274	355	-	1,769,479	6.5
September	106	46	152	1,912,315	660,075	54,446	1,152,733	-	11,101	1,374	-	1,879,729	6.9
October	139	52	191	2,685,477	820,634	37,120	1,873,634	-	1,912	342	-	2,733,642	10.1
November	125	36	161	2,424,733	750,092	34,849	1,732,254	-	484	374	-	2,518,053	9.3
December	122	19	141	2,241,966	719,687	26,378	1,646,062	-	85	11	-	2,392,223	8.8
January	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>	900	374	1,274	17,000,654	4,692,921	527,398	10,985,575	-	39,531	6,125	-	16,251,550	60.1
<b>TOTALS:</b>													
March	22	19	41	469,030	188,711	-	133,429	-	916	27,085	-	350,141	1.3
April	122	57	179	2,416,762	922,755	31,750	767,707	-	1,096	234,568	-	1,957,876	7.2
May	154	76	230	2,986,788	1,179,068	58,050	867,562	-	3,071	209,651	40,114	2,357,516	8.7
June	171	107	278	3,000,729	1,313,919	94,190	732,773	-	7,455	220,321	-	2,368,658	8.8
July	171	105	276	3,227,090	1,324,270	121,673	1,006,783	-	7,069	168,556	40,785	2,669,136	9.9
August	202	78	280	3,640,964	1,589,143	68,942	1,112,457	-	15,155	214,231	40,190	3,040,118	11.2
September	197	102	299	3,834,555	1,452,378	54,446	1,152,733	-	14,073	251,096	40,844	2,965,570	11.0
October	241	143	384	5,483,195	1,995,944	47,649	1,879,727	-	4,991	221,419	-	4,149,730	15.3
November	219	109	328	5,005,819	1,742,118	34,849	1,732,254	-	2,838	412,379	40,415	3,964,853	14.7
December	171	79	250	3,847,341	1,437,402	26,378	1,646,062	-	2,289	95,471	20,009	3,227,611	11.9
January	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>	1,670	875	2,545	33,912,273	13,145,708	537,927	11,031,487	-	58,953	2,054,777	222,357	27,051,209	100.0

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

**TRAFFIC RESULTS  
1997 - 2016**

**TABLE M5**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	VESSEL TRANSITS			CARGO TONNES			GROSS REGISTERED TONNAGE		
	Upbound	Downbound	Total	Upbound	Downbound	Total	Upbound	Downbound	Total
1997	1,401	1,408	2,809	18,853,653	18,047,570	36,901,223	18,471,686	18,533,642	37,005,328
1998	1,576	1,582	3,158	22,569,978	16,675,931	39,245,909	20,612,520	20,629,006	41,241,526
1999	1,590	1,578	3,168	19,594,116	16,817,495	36,411,611	18,687,785	18,663,440	37,351,225
2000	1,485	1,492	2,977	19,168,176	16,238,036	35,406,212	17,887,643	17,888,427	35,776,070
2001	1,293	1,295	2,588	15,583,223	14,694,601	30,277,824	15,173,745	15,097,139	30,270,884
2002	1,300	1,312	2,612	16,904,264	13,098,028	30,002,292	15,642,884	15,739,501	31,382,385
2003	1,291	1,288	2,579	16,436,399	12,464,041	28,900,440	15,155,287	15,043,211	30,198,498
2004	1,326	1,357	2,683	17,201,797	13,598,583	30,800,380	15,096,224	15,278,202	30,374,426
2005	1,340	1,355	2,695	16,753,223	14,520,099	31,273,322	15,369,033	15,467,988	30,837,021
2006	1,472	1,470	2,942	19,022,669	16,549,316	35,571,985	17,498,515	17,476,836	34,975,351
2007	1,431	1,447	2,878	14,922,021	17,033,269	31,955,290	15,979,840	16,002,071	31,981,911
2008	1,347	1,356	2,703	13,571,413	15,781,659	29,353,072	15,256,750	15,280,924	30,537,674
2009	1,203	1,192	2,395	7,031,214	13,667,692	20,698,906	12,114,288	12,116,769	24,231,057
2010	1,353	1,375	2,728	11,274,424	15,644,061	26,918,485	15,016,783	14,982,075	29,998,858
2011	1,499	1,501	3,000	11,312,761	17,408,783	28,721,544	16,678,188	16,669,859	33,348,047
2012	1,484	1,491	2,975	12,457,633	18,930,294	31,387,927	17,917,065	17,895,029	35,812,094
2013	1,376	1,392	2,768	10,083,102	18,478,326	28,561,428	17,055,789	17,094,685	34,150,474
2014	1,334	1,323	2,657	12,080,289	17,991,325	30,071,614	17,963,129	17,830,107	35,793,236
2015	1,272	1,257	2,529	12,355,669	15,091,620	27,447,289	16,357,192	16,272,431	32,629,623
2016	1,271	1,274	2,545	10,799,659	16,251,550	27,051,209	16,911,619	17,000,654	33,912,273
<b>TOTAL</b>	<b>27,644</b>	<b>27,745</b>	<b>55,389</b>	<b>297,975,683</b>	<b>318,982,279</b>	<b>616,957,962</b>	<b>330,845,965</b>	<b>330,961,996</b>	<b>661,807,961</b>

**CARGO BY TARIFF CLASSIFICATION  
1997 - 2016**

**TABLE M6**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	BULK (1)		COAL		GRAINS		GOVT. AID		CONTAINERS		GENERAL CARGO		STEEL SLABS		TOTAL TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1997	18,294,915	49.6	N/A	-	13,482,327	36.5	-	-	11,816	0.0	5,112,165	13.9	N/A	-	36,901,223
1998	19,243,487	49.0	N/A	-	12,963,846	33.0	30,828	0.1	5,211	0.0	7,002,537	17.8	N/A	-	39,245,909
1999	17,923,481	49.2	266,364	0.7	13,552,844	37.2	80,692	0.2	11,573	0.0	4,164,599	11.4	412,058	1.1	36,411,611
2000	17,474,021	49.4	334,489	0.9	12,503,515	35.3	9,655	0.0	19,521	0.1	4,703,411	13.3	361,600	1.0	35,406,212
2001	15,687,342	51.8	407,336	1.3	11,161,951	36.9	-	-	16,471	0.1	2,620,642	8.7	384,082	1.3	30,277,824
2002	15,604,029	52.0	336,425	1.1	9,863,912	32.9	25,834	0.1	14,721	0.0	3,019,259	10.1	1,138,112	3.8	30,002,292
2003	16,927,793	58.6	214,728	0.7	9,188,854	31.8	7,826	0.0	15,208	0.1	2,118,663	7.3	427,368	1.5	28,900,440
2004	16,896,034	54.9	639,722	2.1	9,048,588	29.4	-	-	14,983	0.0	3,707,357	12.0	493,696	1.6	30,800,380
2005	17,746,415	56.7	726,720	2.3	9,524,577	30.5	-	-	17,285	0.1	2,631,034	8.4	627,291	2.0	31,273,322
2006	18,975,206	53.3	684,090	1.9	11,338,573	31.9	11,064	0.0	19,358	0.1	3,646,120	10.2	897,574	2.5	35,571,985
2007	19,003,057	59.5	419,737	1.3	10,103,640	31.6	-	-	23,377	0.1	1,988,841	6.2	416,638	1.3	31,955,290
2008	19,129,832	65.2	957,400	3.3	7,324,253	25.0	-	-	27,266	0.1	1,851,389	6.3	62,932	0.2	29,353,072
2009	11,165,408	53.9	736,293	3.6	7,841,312	37.9	-	-	45,351	0.2	849,280	4.1	61,262	0.3	20,698,906
2010	15,363,805	57.1	909,723	3.4	9,064,211	33.7	-	-	38,015	0.1	1,463,210	5.4	79,521	0.3	26,918,485
2011	17,760,733	61.8	1,148,224	4.0	8,283,131	28.8	-	-	36,702	0.1	1,410,756	4.9	81,998	0.3	28,721,544
2012	19,159,043	61.0	2,104,952	6.7	8,351,269	26.6	-	-	34,122	0.1	1,578,012	5.0	160,529	0.5	31,387,927
2013	17,045,945	59.7	1,970,046	6.9	8,144,581	28.5	-	-	36,653	0.1	1,343,061	4.7	21,142	0.1	28,561,428
2014	13,349,516	44.4	2,031,888	6.8	11,737,447	39.0	-	-	44,073	0.1	2,554,080	8.5	354,610	1.2	30,071,614
2015	13,962,552	50.9	587,740	2.1	10,463,155	38.1	-	-	69,797	0.3	2,161,175	7.9	202,870	0.7	27,447,289
2016	13,145,708	48.6	537,927	2.0	11,031,487	40.8	-	-	58,953	0.2	2,054,777	7.6	222,357	0.8	27,051,209
<b>TOTAL</b>	<b>333,858,322</b>	<b>54.1</b>	<b>15,013,804</b>	<b>2.4</b>	<b>204,973,473</b>	<b>33.2</b>	<b>165,899</b>	<b>0.0</b>	<b>560,456</b>	<b>0.1</b>	<b>55,980,368</b>	<b>9.1</b>	<b>6,405,640</b>	<b>1.0</b>	<b>616,957,962</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

**VESSEL TRANSITS  
1997 - 2016**

**TABLE M7**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	UPBOUND				DOWNBOUND				TOTAL			
	CARGO TONNES	TRANSITS			CARGO TONNES	TRANSITS			CARGO TONNES	TRANSITS		
		Loaded	Ballast	Total		Loaded	Ballast	Total		Loaded	Ballast	Total
1997	18,853,653	1,076	325	1,401	18,047,570	1,007	401	1,408	36,901,223	2,083	726	2,809
1998	22,569,978	1,309	267	1,576	16,675,931	1,001	581	1,582	39,245,909	2,310	848	3,158
1999	19,594,116	1,166	424	1,590	16,817,495	987	591	1,578	36,411,611	2,153	1,015	3,168
2000	19,168,176	1,145	340	1,485	16,238,036	994	498	1,492	35,406,212	2,139	838	2,977
2001	15,583,223	971	322	1,293	14,694,601	896	399	1,295	30,277,824	1,867	721	2,588
2002	16,904,264	1,022	278	1,300	13,098,028	796	516	1,312	30,002,292	1,818	794	2,612
2003	16,436,399	967	324	1,291	12,464,041	768	520	1,288	28,900,440	1,735	844	2,579
2004	17,201,797	1,030	296	1,326	13,598,583	799	558	1,357	30,800,380	1,829	854	2,683
2005	16,753,223	1,004	336	1,340	14,520,099	840	515	1,355	31,273,322	1,844	851	2,695
2006	19,022,669	1,120	352	1,472	16,549,316	936	534	1,470	35,571,985	2,056	886	2,942
2007	14,922,021	943	488	1,431	17,033,269	1,007	440	1,447	31,955,290	1,950	928	2,878
2008	13,571,413	849	498	1,347	15,781,659	924	432	1,356	29,353,072	1,773	930	2,703
2009	7,031,214	486	717	1,203	13,667,692	838	354	1,192	20,698,906	1,324	1,071	2,395
2010	11,274,424	747	606	1,353	15,644,061	930	445	1,375	26,918,485	1,677	1,051	2,728
2011	11,312,761	764	735	1,499	17,408,783	1,006	495	1,501	28,721,544	1,770	1,230	3,000
2012	12,457,633	775	709	1,484	18,930,294	1,066	425	1,491	31,387,927	1,841	1,134	2,975
2013	10,083,102	648	728	1,376	18,478,326	1,036	356	1,392	28,561,428	1,684	1,084	2,768
2014	12,080,289	776	558	1,334	17,991,325	1,000	323	1,323	30,071,614	1,776	881	2,657
2015	12,355,669	823	449	1,272	15,091,620	848	409	1,257	27,447,289	1,671	858	2,529
2016	10,799,659	770	501	1,271	16,251,550	900	374	1,274	27,051,209	1,670	875	2,545
<b>TOTAL</b>	<b>297,975,683</b>	<b>18,391</b>	<b>9,253</b>	<b>27,644</b>	<b>318,982,279</b>	<b>18,579</b>	<b>9,166</b>	<b>27,745</b>	<b>616,957,962</b>	<b>36,970</b>	<b>18,419</b>	<b>55,389</b>

## COMMODITY GROUPS 1997 - 2016

**TABLE M8**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	AGRICULTURAL PRODUCTS		ANIMAL PRODUCTS		MINE PRODUCTS <sup>(1)</sup>		FOREST PRODUCTS		MANUFACTURES & MISCELLANEOUS <sup>(2)</sup>		TOTAL TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
<b>1997</b>	13,491,031	36.6	32,732	0.1	14,676,645	39.8	11,761	0.0	8,689,054	23.5	36,901,223
<b>1998</b>	12,964,357	33.0	34,885	0.1	14,724,161	37.5	1,456	0.0	11,521,050	29.4	39,245,909
<b>1999</b>	13,637,630	37.5	35,318	0.1	14,239,776	39.1	1,526	0.0	8,497,361	23.3	36,411,611
<b>2000</b>	12,513,041	35.3	38,240	0.1	13,978,179	39.5	7,477	0.0	8,869,275	25.1	35,406,212
<b>2001</b>	11,170,044	36.9	25,452	0.1	12,104,055	40.0	21,183	0.1	6,957,090	23.0	30,277,824
<b>2002</b>	9,889,299	33.0	31,251	0.1	11,933,604	39.8	98,953	0.3	8,049,185	26.8	30,002,292
<b>2003</b>	9,201,438	31.8	31,849	0.1	12,799,316	44.3	70,476	0.2	6,797,361	23.5	28,900,440
<b>2004</b>	9,059,002	29.4	35,157	0.1	13,011,315	42.2	51,986	0.2	8,642,920	28.1	30,800,380
<b>2005</b>	9,533,823	30.5	24,274	0.1	14,011,158	44.8	105,430	0.3	7,598,637	24.3	31,273,322
<b>2006</b>	11,387,097	32.0	25,052	0.1	15,103,420	42.5	49,455	0.1	9,006,961	25.3	35,571,985
<b>2007</b>	10,116,362	31.7	20,714	0.1	14,592,191	45.7	4,908	0.0	7,221,115	22.6	31,955,290
<b>2008</b>	7,330,431	25.0	5,093	0.0	15,590,563	53.1	-	-	6,426,985	21.9	29,353,072
<b>2009</b>	7,857,417	38.0	7,581	0.0	8,587,376	41.5	-	-	4,246,532	20.5	20,698,906
<b>2010</b>	9,070,585	33.7	6,924	0.0	11,977,259	44.5	-	-	5,863,717	21.8	26,918,485
<b>2011</b>	8,303,839	28.9	-	-	13,497,350	47.0	-	-	6,920,355	24.1	28,721,544
<b>2012</b>	8,351,269	26.6	4,565	0.0	16,364,612	52.1	-	-	6,667,481	21.2	31,387,927
<b>2013</b>	8,151,693	28.5	3,508	0.0	13,986,336	49.0	-	-	6,419,891	22.5	28,561,428
<b>2014</b>	11,744,575	39.1	-	-	10,497,096	34.9	-	-	7,829,943	26.0	30,071,614
<b>2015</b>	10,463,531	38.1	-	-	9,940,650	36.2	7,786	0.0	7,035,322	25.6	27,447,289
<b>2016</b>	11,031,487	40.8	-	-	8,561,094	31.6	8,650	0.0	7,449,978	27.5	27,051,209
<b>TOTAL</b>	<b>205,267,951</b>	<b>33.3</b>	<b>362,595</b>	<b>0.1</b>	<b>260,176,156</b>	<b>42.2</b>	<b>441,047</b>	<b>0.1</b>	<b>150,710,213</b>	<b>24.4</b>	<b>616,957,962</b>

(1) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" starting in 2016.

(2) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.

**U.S. GRAINS  
1997 - 2016**

**TABLE M9** **MONTREAL-LAKE ONTARIO SECTION**

YEAR	WHEAT		CORN		RYE & OATS		CANOLA		BARLEY		SOYBEANS		FLAXSEED		ALL OTHER U.S. GRAINS		TOTAL U.S. GRAINS
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	TONNES
1997	1,694,195	37.1	420,803	9.2	-	-	N/A	-	576,832	12.6	1,816,377	39.8	-	-	56,354	1.2	4,564,561
1998	2,063,314	33.7	1,903,585	31.1	-	-	N/A	-	46,303	0.8	1,685,201	27.5	8,856	0.1	411,646	6.7	6,118,905
1999	1,625,184	24.6	2,632,760	39.8	-	-	-	-	42,557	0.6	2,140,080	32.4	-	-	166,725	2.5	6,607,306
2000	2,012,948	35.2	1,548,581	27.1	-	-	-	-	93,785	1.6	1,880,086	32.9	31,084	0.5	152,595	2.7	5,719,079
2001	2,098,403	41.8	1,146,924	22.8	20,959	0.4	-	-	24,960	0.5	1,467,067	29.2	56,728	1.1	205,276	4.1	5,020,317
2002	1,864,851	44.1	717,870	17.0	-	-	-	-	24,451	0.6	1,438,093	34.0	69,736	1.6	112,496	2.7	4,227,497
2003	1,810,637	53.7	559,997	16.6	-	-	-	-	2,213	0.1	819,511	24.3	48,860	1.4	129,489	3.8	3,370,707
2004	1,928,223	54.1	434,362	12.2	-	-	-	-	5,962	0.2	996,703	28.0	31,895	0.9	167,431	4.7	3,564,576
2005	2,090,363	53.9	554,740	14.3	-	-	-	-	37,594	1.0	781,691	20.2	93,076	2.4	319,244	8.2	3,876,708
2006	1,296,785	30.7	1,448,243	34.3	-	-	-	-	-	-	1,188,623	28.1	24,953	0.6	268,925	6.4	4,227,529
2007	2,688,049	64.9	536,941	13.0	-	-	-	-	20,917	0.5	630,121	15.2	51,753	1.2	213,960	5.2	4,141,741
2008	777,776	55.1	118,442	8.4	-	-	21,078	1.5	-	-	300,270	21.3	21,112	1.5	172,442	12.2	1,411,120
2009	967,069	45.9	192,085	9.1	-	-	48,897	2.3	-	-	721,838	34.3	14,754	0.7	162,815	7.7	2,107,458
2010	1,901,201	63.7	115,453	3.9	-	-	39,030	1.3	40,739	1.4	654,418	21.9	46,550	1.6	185,773	6.2	2,983,164
2011	974,408	62.1	56,596	3.6	-	-	21,455	1.4	-	-	391,176	24.9	10,507	0.7	114,703	7.3	1,568,845
2012	479,895	35.0	31,277	2.3	-	-	40,595	3.0	-	-	709,634	51.7	10,593	0.8	99,854	7.3	1,371,848
2013	899,170	52.2	-	-	-	-	-	-	-	-	699,464	40.6	-	-	124,687	7.2	1,723,321
2014	896,043	38.5	220,345	9.5	-	-	42,369	1.8	-	-	1,024,680	44.1	-	-	142,627	6.1	2,326,064
2015	973,207	46.8	288,893	13.9	-	-	46,071	2.2	-	-	641,923	30.9	-	-	127,293	6.1	2,077,387
2016	1,167,015	42.8	576,723	21.1	-	-	44,034	1.6	-	-	776,636	28.5	8,000	0.3	156,243	5.7	2,728,651
<b>TOTAL</b>	<b>30,208,736</b>	<b>43.3</b>	<b>13,504,620</b>	<b>19.4</b>	<b>20,959</b>	<b>0.0</b>	<b>303,529</b>	<b>0.4</b>	<b>916,313</b>	<b>1.3</b>	<b>20,763,592</b>	<b>29.8</b>	<b>528,457</b>	<b>0.8</b>	<b>3,490,578</b>	<b>5.0</b>	<b>69,736,784</b>

**CANADIAN GRAINS  
1997 - 2016**

**TABLE M10**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	WHEAT		CORN		RYE & OATS		CANOLA		BARLEY		SOYBEANS		FLAXSEED		ALL OTHER CDN. GRAINS		TOTAL CDN. GRAINS
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	TONNES
1997	7,025,506	79.1	8,614	0.1	14,956	0.2	N/A	-	111,791	1.3	336,182	3.8	462,489	5.2	921,823	10.4	8,881,361
1998	4,588,263	68.1	46,054	0.7	3,168	0.0	N/A	-	31,946	0.5	366,538	5.4	491,617	7.3	1,207,790	17.9	6,735,376
1999	4,742,337	68.5	394,025	5.7	8,482	0.1	243,358	3.5	85,495	1.2	384,012	5.5	221,353	3.2	848,876	12.3	6,927,938
2000	4,511,696	66.5	155,668	2.3	11,679	0.2	274,822	4.1	5,749	0.1	304,019	4.5	458,601	6.8	1,062,202	15.7	6,784,436
2001	4,380,974	71.8	54,660	0.9	9,407	0.2	321,964	5.3	32,908	0.5	231,211	3.8	475,014	7.8	599,723	9.8	6,105,861
2002	3,993,735	71.8	97,757	1.8	32,344	0.6	210,181	3.8	115,963	2.1	391,679	7.0	534,353	9.6	182,779	3.3	5,558,791
2003	4,386,858	75.9	5,399	0.1	42,534	0.7	278,592	4.8	46,615	0.8	339,687	5.9	454,788	7.9	228,150	3.9	5,782,623
2004	4,110,448	75.0	53,343	1.0	-	-	224,145	4.1	-	-	379,630	6.9	350,048	6.4	366,398	6.7	5,484,012
2005	3,764,914	66.7	21,945	0.4	14,961	0.3	414,092	7.3	-	-	474,507	8.4	324,783	5.8	632,667	11.2	5,647,869
2006	5,138,163	72.3	93,303	1.3	58,150	0.8	478,939	6.7	9,409	0.1	395,286	5.6	442,759	6.2	495,035	7.0	7,111,044
2007	4,312,323	72.3	119,310	2.0	4,602	0.1	338,971	5.7	15,952	0.3	469,520	7.9	458,821	7.7	242,400	4.1	5,961,899
2008	4,538,953	76.8	153,456	2.6	-	-	195,157	3.3	1,794	0.0	366,365	6.2	438,258	7.4	214,791	3.6	5,908,774
2009	4,336,904	75.6	51,072	0.9	-	-	276,843	4.8	-	-	709,356	12.4	231,182	4.0	128,497	2.2	5,733,854
2010	3,953,858	65.0	375,499	6.2	2,199	0.0	242,401	4.0	14,615	0.2	1,006,748	16.6	249,718	4.1	236,009	3.9	6,081,047
2011	4,436,564	66.1	322,795	4.8	2,200	0.0	767,262	11.4	1,882	0.0	897,098	13.4	88,925	1.3	197,560	2.9	6,714,286
2012	4,751,830	68.2	64,149	0.9	4,312	0.1	562,860	8.1	-	-	1,291,616	18.5	36,031	0.5	258,243	3.7	6,969,041
2013	4,294,428	67.4	281,923	4.4	2,182	0.0	313,270	4.9	-	-	1,081,022	17.0	113,536	1.8	285,450	4.5	6,371,811
2014	6,315,838	67.5	770,459	8.2	35,153	0.4	690,846	7.4	-	-	1,036,144	11.1	159,719	1.7	342,221	3.7	9,350,380
2015	5,522,639	66.4	270,611	3.3	-	-	711,543	8.6	-	-	1,314,169	15.8	117,975	1.4	374,955	4.5	8,311,892
2016	4,708,939	57.0	509,794	6.2	500	0.0	1,118,939	13.6	-	-	1,446,427	17.5	76,409	0.9	395,916	4.8	8,256,924
<b>TOTAL</b>	<b>93,815,170</b>	<b>69.7</b>	<b>3,849,836</b>	<b>2.9</b>	<b>246,829</b>	<b>0.2</b>	<b>7,664,185</b>	<b>5.7</b>	<b>474,119</b>	<b>0.4</b>	<b>13,221,216</b>	<b>9.8</b>	<b>6,186,379</b>	<b>4.6</b>	<b>9,221,485</b>	<b>6.8</b>	<b>134,679,219</b>



**SELECTED MINING COMMODITIES  
1997 - 2016**

**TABLE M11**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	COAL		COKE		IRON ORE		CLAY & BENTONITE		GRAVEL & SAND		STONE		SALT		OTHER MINING <sup>(1)</sup>		TOTAL MINING TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1997	534,507	3.6	775,129	5.3	10,121,109	69.0	254,791	1.7	20,037	0.1	400,683	2.7	1,227,534	8.4	1,342,855	9.1	14,676,645
1998	191,356	1.3	624,131	4.2	11,104,515	75.4	250,534	1.7	-	-	559,951	3.8	732,983	5.0	1,260,691	8.6	14,724,161
1999	266,364	1.9	566,637	4.0	10,686,169	75.0	176,461	1.2	21,010	0.1	313,953	2.2	745,098	5.2	1,464,084	10.3	14,239,776
2000	334,489	2.4	931,110	6.7	10,167,877	72.7	161,835	1.2	4,072	0.0	359,032	2.6	657,137	4.7	1,362,627	9.7	13,978,179
2001	407,336	3.4	753,722	6.2	8,386,036	69.3	84,269	0.7	12,982	0.1	299,277	2.5	891,450	7.4	1,268,983	10.5	12,104,055
2002	336,425	2.8	847,622	7.1	8,166,897	68.4	110,613	0.9	24,405	0.2	323,541	2.7	853,795	7.2	1,270,306	10.6	11,933,604
2003	214,728	1.7	680,875	5.3	9,259,086	72.3	109,485	0.9	3,050	0.0	272,054	2.1	766,237	6.0	1,493,801	11.7	12,799,316
2004	639,722	4.9	957,071	7.4	8,337,875	64.1	180,934	1.4	6,435	0.0	425,443	3.3	951,337	7.3	1,512,498	11.6	13,011,315
2005	726,720	5.2	964,293	6.9	8,974,766	64.1	128,894	0.9	6,004	0.0	398,169	2.8	1,220,522	8.7	1,591,790	11.4	14,011,158
2006	684,090	4.5	1,460,589	9.7	9,542,869	63.2	177,648	1.2	6,000	0.0	564,975	3.7	1,154,644	7.6	1,512,605	10.0	15,103,420
2007	419,737	2.9	1,040,419	7.1	9,741,873	66.8	147,736	1.0	-	-	664,284	4.6	1,133,846	7.8	1,444,296	9.9	14,592,191
2008	957,400	6.1	2,161,487	13.9	9,148,037	58.7	121,479	0.8	50,335	0.3	449,677	2.9	1,448,098	9.3	1,254,050	8.0	15,590,563
2009	736,293	8.6	1,427,143	16.6	3,871,775	45.1	62,556	0.7	-	-	256,319	3.0	1,308,022	15.2	925,268	10.8	8,587,376
2010	909,723	7.6	1,430,524	11.9	7,203,786	60.1	69,279	0.6	2,000	0.0	277,592	2.3	937,215	7.8	1,147,140	9.6	11,977,259
2011	1,148,224	8.5	1,449,054	10.7	8,212,486	60.8	108,199	0.8	6,069	0.0	228,227	1.7	1,250,759	9.3	1,094,332	8.1	13,497,350
2012	2,104,952	12.9	1,322,609	8.1	10,280,774	62.8	79,487	0.5	-	-	171,944	1.1	1,397,047	8.5	1,007,799	6.2	16,364,612
2013	1,970,046	14.1	1,284,461	9.2	8,751,079	62.6	91,444	0.7	-	-	100,822	0.7	892,241	6.4	896,243	6.4	13,986,336
2014	2,031,888	19.4	1,189,871	11.3	4,932,611	47.0	50,608	0.5	-	-	6,405	0.1	1,554,284	14.8	731,429	7.0	10,497,096
2015	587,740	5.9	895,506	9.0	6,048,504	60.8	43,126	0.4	-	-	358,034	3.6	1,138,939	11.5	868,801	8.7	9,940,650
2016	537,927	6.3	785,994	9.2	5,196,730	60.7	62,058	0.7	27	0.0	140,162	1.6	888,822	10.4	949,374	11.1	8,561,094
<b>TOTAL</b>	<b>15,739,667</b>	<b>6.0</b>	<b>21,548,247</b>	<b>8.3</b>	<b>168,134,854</b>	<b>64.6</b>	<b>2,471,436</b>	<b>0.9</b>	<b>162,426</b>	<b>0.1</b>	<b>6,570,544</b>	<b>2.5</b>	<b>21,150,010</b>	<b>8.1</b>	<b>24,398,972</b>	<b>9.4</b>	<b>260,176,156</b>

**SELECTED PROCESSED COMMODITIES  
1997 - 2016**

**TABLE M12**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	GASOLINE		FUEL OIL		CHEMICALS <sup>(1)</sup>		SODIUM PRODUCTS		PIG IRON		MANUFACTURED IRON & STEEL <sup>(2)</sup>		CEMENT		SCRAP IRON & STEEL		OTHER PROCESSED <sup>(3)</sup>	
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%
1997	204,185	2.3	795,854	9.2	454,874	5.2	119,691	1.4	221,101	2.5	4,879,709	56.2	63,182	0.7	181,502	2.1	1,768,956	20.4
1998	372,054	3.2	1,086,624	9.4	677,309	5.9	126,097	1.1	272,545	2.4	6,909,049	60.0	38,869	0.3	80,847	0.7	1,957,656	17.0
1999	331,133	3.9	782,463	9.2	405,651	4.8	148,298	1.7	306,157	3.6	4,317,382	50.8	11,415	0.1	96,160	1.1	2,098,702	24.7
2000	376,158	4.2	674,597	7.6	546,984	6.2	150,169	1.7	212,512	2.4	4,881,723	55.0	30,865	0.3	37,787	0.4	1,958,480	22.1
2001	695,875	10.0	826,001	11.9	502,435	7.2	84,617	1.2	219,545	3.2	2,896,389	41.6	8,810	0.1	-	-	1,723,418	24.8
2002	722,291	9.0	454,928	5.7	557,911	6.9	76,218	0.9	232,784	2.9	4,067,662	50.5	86,187	1.1	55,833	0.7	1,795,371	22.3
2003	602,920	8.9	931,187	13.7	632,152	9.3	73,758	1.1	179,104	2.6	2,494,287	36.7	81,196	1.2	50,196	0.7	1,752,561	25.8
2004	481,748	5.6	1,005,031	11.6	629,566	7.3	47,589	0.6	167,619	1.9	4,101,729	47.5	74,783	0.9	327,634	3.8	1,807,221	20.9
2005	556,725	7.3	895,565	11.8	627,015	8.3	19,181	0.3	229,091	3.0	3,042,941	40.0	75,954	1.0	214,318	2.8	1,937,847	25.5
2006	646,140	7.2	1,005,669	11.2	678,854	7.5	15,283	0.2	238,334	2.6	4,363,220	48.4	52,097	0.6	127,809	1.4	1,879,555	20.9
2007	796,162	11.0	1,165,908	16.1	689,369	9.5	20,936	0.3	259,328	3.6	2,260,338	31.3	103,240	1.4	154,647	2.1	1,771,187	24.5
2008	544,526	8.5	984,683	15.3	429,440	6.7	15,010	0.2	171,444	2.7	1,803,613	28.1	163,884	2.5	141,367	2.2	2,173,018	33.8
2009	418,931	9.9	723,208	17.0	349,964	8.2	-	-	101,916	2.4	865,597	20.4	120,632	2.8	114,782	2.7	1,551,502	36.5
2010	521,413	8.9	706,859	12.1	608,446	10.4	-	-	256,029	4.4	1,433,263	24.4	108,178	1.8	197,103	3.4	2,032,426	34.7
2011	858,828	12.4	1,317,506	19.0	626,884	9.1	-	-	187,453	2.7	1,409,101	20.4	61,218	0.9	181,182	2.6	2,278,183	32.9
2012	496,004	7.4	1,063,030	15.9	793,348	11.9	1,998	0.0	178,685	2.7	1,622,826	24.3	68,300	1.0	134,785	2.0	2,308,505	34.6
2013	418,132	6.5	1,453,446	22.6	719,951	11.2	25,111	0.4	137,812	2.1	1,312,363	20.4	-	-	86,382	1.3	2,266,694	35.3
2014	563,281	7.2	1,162,594	14.8	861,020	11.0	-	-	74,383	0.9	2,854,518	36.5	-	-	101,278	1.3	2,212,869	28.3
2015	674,976	9.6	697,833	9.9	872,284	12.4	4,209	0.1	113,628	1.6	2,259,557	32.1	13,618	0.2	62,499	0.9	2,336,718	33.2
2016	955,603	12.8	791,910	10.6	919,769	12.3	9,108	0.1	44,378	0.6	2,189,941	29.4	35,865	0.5	100,649	1.4	2,402,755	32.3
<b>TOTAL</b>	<b>11,237,085</b>	<b>7.5</b>	<b>18,524,896</b>	<b>12.3</b>	<b>12,583,226</b>	<b>8.3</b>	<b>937,273</b>	<b>0.6</b>	<b>3,803,848</b>	<b>2.5</b>	<b>59,965,208</b>	<b>39.8</b>	<b>1,198,293</b>	<b>0.8</b>	<b>2,446,760</b>	<b>1.6</b>	<b>40,013,624</b>	<b>26.6</b>

(1) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" under mining commodities starting in 2016.

(2) Includes steel slabs but excludes domestic general and domestic slabs.

(3) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.

**PART IV**

**ST. LAWRENCE SEAWAY**

**TOLL TRAFFIC**

**FOR THE**

**WELLAND CANAL SECTION**

**TRAFFIC BY CLASS AND TYPE OF VESSEL  
2016**

**WELLAND CANAL SECTION**

**TABLE W1**

CLASS AND TYPE OF VESSEL	VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES									
	Loaded	Ballast	Total		Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs	Total	%	
<b>UPBOUND:</b>														
<b>Ocean:</b>	Cargo	186	99	285	4,646,741	360,406	10,529	45,912	-	11,675	1,492,762	20,308	1,941,592	7.4
	Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tanker	29	16	45	493,945	294,448	-	-	-	-	-	-	294,448	1.1
	<b>Total Ocean</b>	215	115	330	5,140,686	654,854	10,529	45,912	-	11,675	1,492,762	20,308	2,236,040	8.5
<b>Laker:</b>	Cargo	124	511	635	11,596,039	2,000,174	-	67,414	-	-	-	-	2,067,588	7.9
	Barge	105	96	201	1,460,401	1,051,253	-	-	-	-	-	-	1,051,253	4.0
	Tanker	41	37	78	731,716	379,319	-	-	-	-	-	-	379,319	1.4
	<b>Total Laker</b>	270	644	914	13,788,156	3,430,746	-	67,414	-	-	-	-	3,498,160	13.3
<b>Non-Cargo</b>		-	270	270	137,281	-	-	-	-	-	-	-	-	-
<b>Passenger</b>		13	1	14	48,215	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>		498	1,030	1,528	19,114,338	4,085,600	10,529	113,326	-	11,675	1,492,762	20,308	5,734,200	21.9
<b>DOWNBOUND:</b>														
<b>Ocean:</b>	Cargo	259	24	283	4,629,903	248,566	-	3,974,624	-	6,597	3,731	-	4,233,518	16.1
	Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tanker	24	20	44	480,593	207,753	-	-	-	-	-	-	207,753	0.8
	<b>Total Ocean</b>	283	44	327	5,110,496	456,319	-	3,974,624	-	6,597	3,731	-	4,441,271	16.9
<b>Laker:</b>	Cargo	578	57	635	11,610,165	6,853,517	2,237,594	5,673,667	-	-	-	-	14,764,778	56.3
	Barge	119	83	202	1,475,895	789,044	-	95,107	-	-	-	-	884,151	3.4
	Tanker	44	34	78	738,472	397,954	-	-	-	-	-	-	397,954	1.5
	<b>Total Laker</b>	741	174	915	13,824,532	8,040,515	2,237,594	5,768,774	-	-	-	-	16,046,883	61.2
<b>Non-Cargo</b>		-	264	264	140,121	-	-	-	-	-	-	-	-	-
<b>Passenger</b>		13	1	14	48,215	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>		1,037	483	1,520	19,123,364	8,496,834	2,237,594	9,743,398	-	6,597	3,731	-	20,488,154	78.1
<b>TOTALS:</b>														
<b>Ocean:</b>	Cargo	445	123	568	9,276,644	608,972	10,529	4,020,536	-	18,272	1,496,493	20,308	6,175,110	23.5
	Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tanker	53	36	89	974,538	502,201	-	-	-	-	-	-	502,201	1.9
	<b>Total Ocean</b>	498	159	657	10,251,182	1,111,173	10,529	4,020,536	-	18,272	1,496,493	20,308	6,677,311	25.5
<b>Laker:</b>	Cargo	702	568	1,270	23,206,204	8,853,691	2,237,594	5,741,081	-	-	-	-	16,832,366	64.2
	Barge	224	179	403	2,936,296	1,840,297	-	95,107	-	-	-	-	1,935,404	7.4
	Tanker	85	71	156	1,470,188	777,273	-	-	-	-	-	-	777,273	3.0
	<b>Total Laker</b>	1,011	818	1,829	27,612,688	11,471,261	2,237,594	5,836,188	-	-	-	-	19,545,043	74.5
<b>Non-Cargo</b>		-	534	534	277,402	-	-	-	-	-	-	-	-	-
<b>Passenger</b>		26	2	28	96,430	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>		1,535	1,513	3,048	38,237,702	12,582,434	2,248,123	9,856,724	-	18,272	1,496,493	20,308	26,222,354	100.0

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls

**TRAFFIC BY CLASSIFICATION AND TYPE OF CARGO  
2016**

**TABLE W2**

**WELLAND CANAL SECTION**

COMMODITY	CARGO TONNES							Total	% of Total
	Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs		
Wheat	-	-	5,739,520	-	-	-	-	5,739,520	21.9
Corn	-	-	690,668	-	-	-	-	690,668	2.6
Rye	-	-	-	-	-	-	-	-	-
Oats	-	-	12,500	-	-	-	-	12,500	0.0
Barley	-	-	16,499	-	-	-	-	16,499	0.1
Canola (Rapeseed)	-	-	1,301,836	-	-	-	-	1,301,836	5.0
Canola Meal, Pellets	-	-	17,727	-	-	-	-	17,727	0.1
Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-	-
Soybeans	-	-	1,459,133	-	-	-	-	1,459,133	5.6
Soybean Oil Cake, Meal, Pellets	-	-	123,236	-	-	-	-	123,236	0.5
Beans and Peas	-	-	227,005	-	-	-	-	227,005	0.9
Flaxseed	-	-	84,409	-	-	-	-	84,409	0.3
Sunflower Seeds	-	-	-	-	-	-	-	-	-
Other Agricultural Products	-	-	184,191	-	-	-	-	184,191	0.7
<b>Total Agricultural Products</b>	-	-	<b>9,856,724</b>	-	-	-	-	<b>9,856,724</b>	<b>37.6</b>
Packing House Products, Edible	-	-	-	-	-	-	-	-	-
Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-	-
Other Animal Products	-	-	-	-	-	-	-	-	-
<b>Total Animal Products</b>	-	-	-	-	-	-	-	-	-
Bituminous Coal	-	2,248,123	-	-	-	-	-	2,248,123	8.6
Coke	1,117,006	-	-	-	-	-	-	1,117,006	4.3
Iron Ore	3,449,032	-	-	-	-	-	-	3,449,032	13.2
Aluminum Ore and Concentrates	28,857	-	-	-	-	-	-	28,857	0.1
Clay and Bentonite	62,058	-	-	-	-	-	-	62,058	0.2
Gravel and Sand	135,485	-	-	-	27	-	-	135,512	0.5
Stone	305,298	-	-	-	-	-	-	305,298	1.2
Salt	2,461,649	-	-	-	-	-	-	2,461,649	9.4
Potash (2)	232,743	-	-	-	-	-	-	232,743	0.9
Gypsum	56,239	-	-	-	-	-	-	56,239	0.2
Asphalt	235,887	-	-	-	-	-	-	235,887	0.9
Other Mine Products	113,933	-	-	-	2,109	-	-	116,042	0.4
<b>Total Mine Products</b>	<b>8,198,187</b>	<b>2,248,123</b>	-	-	<b>2,136</b>	-	-	<b>10,448,446</b>	<b>39.8</b>
Lumber	-	-	-	-	-	-	-	-	-
Other Forest Products	8,030	-	-	-	500	119	-	8,649	0.0
<b>Total Forest Products</b>	<b>8,030</b>	-	-	-	<b>500</b>	<b>119</b>	-	<b>8,649</b>	<b>0.0</b>
Gasoline	695,922	-	-	-	-	-	-	695,922	2.7
Fuel Oil	646,222	-	-	-	-	-	-	646,222	2.5
Other Petroleum Products	277,063	-	-	-	-	-	-	277,063	1.1
Chemicals (2)	152,775	-	-	-	2,911	-	-	155,686	0.6
Sodium Products	-	-	-	-	-	-	-	-	-
Tar, Pitch and Creosote	40,680	-	-	-	-	-	-	40,680	0.2
Pig Iron	44,378	-	-	-	-	-	-	44,378	0.2
Iron and Steel	4,502	-	-	-	1,101	1,437,037	-	1,442,640	5.5
Steel Slabs	-	-	-	-	-	-	20,308	20,308	0.1
Machinery and Machines (4)	955	-	-	-	4,493	29,470	-	34,918	0.1
Cement	830,791	-	-	-	-	-	-	830,791	3.2
Cement Clinkers	662,233	-	-	-	-	-	-	662,233	2.5
Woodpulp	8,000	-	-	-	-	-	-	8,000	0.0
Newsprint and Paper Products	-	-	-	-	-	-	-	-	-
Syrup and Molasses	-	-	-	-	-	-	-	-	-
Sugar	54,200	-	-	-	-	-	-	54,200	0.2
Food Products	-	-	-	-	52	-	-	52	0.0
Furnace Slags	706,830	-	-	-	-	-	-	706,830	2.7
Scrap Iron and Steel	38,213	-	-	-	39	-	-	38,252	0.1
Other Manufactures and Misc. (3) (4)	213,453	-	-	-	7,040	29,867	-	250,360	1.0
<b>Total Manufactures and Misc.</b>	<b>4,376,217</b>	-	-	-	<b>15,636</b>	<b>1,496,374</b>	<b>20,308</b>	<b>5,908,535</b>	<b>22.5</b>
<b>GRAND TOTAL</b>	<b>12,582,434</b>	<b>2,248,123</b>	<b>9,856,724</b>	<b>-</b>	<b>18,272</b>	<b>1,496,493</b>	<b>20,308</b>	<b>26,222,354</b>	<b>100.0</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

(2) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" starting in 2016.

(3) Includes unclassified cargoes.

(4) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2016**

**TABLE W3 - Part A**

**MONTREAL-LAKE ONTARIO SECTION**

NO.	COMMODITY	from: to:		UPBOUND TONNES				TOTAL UPBOUND	% OF TOTAL UP- BOUND		
				CANADA		UNITED STATES				FOREIGN	
				Canada	United States	Canada	United States			Canada	United States
1	Wheat	-	67,414	-	-	6,093	-	73,507	1.3		
2	Corn	-	-	-	-	-	11,477	11,477	0.2		
3	Rye	-	-	-	-	-	-	-	-		
4	Oats	-	-	-	-	-	-	-	-		
5	Barley	-	-	-	-	-	16,499	16,499	0.3		
6	Canola (Rapeseed)	-	-	-	-	-	-	-	-		
7	Canola Meal, Pellets	-	-	-	-	-	-	-	-		
8	Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-		
9	Soybeans	-	-	-	-	-	11,843	11,843	0.2		
10	Soybean Oil Cake, Meal, Pellets	-	-	-	-	-	-	-	-		
11	Beans and Peas	-	-	-	-	-	-	-	-		
12	Flaxseed	-	-	-	-	-	-	-	-		
13	Sunflower Seeds	-	-	-	-	-	-	-	-		
14	Other Agricultural Products	-	-	-	-	-	-	-	-		
15	<b>Total Agricultural Products</b>	-	67,414	-	-	6,093	39,819	113,326	2.0		
16	Packing House Products, Edible	-	-	-	-	-	-	-	-		
17	Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-		
18	Other Animal Products	-	-	-	-	-	-	-	-		
19	<b>Total Animal Products</b>	-	-	-	-	-	-	-	-		
20	Bituminous Coal	-	-	-	-	-	10,529	10,529	0.2		
21	Coke	-	-	-	-	-	14,108	14,108	0.2		
22	Iron Ore	28,981	742,535	-	-	-	-	771,516	13.5		
23	Aluminum Ore and Concentrates	28,857	-	-	-	-	-	28,857	0.5		
24	Clay and Bentonite	-	-	-	-	-	32,454	32,454	0.6		
25	Gravel and Sand	-	-	-	-	-	27	27	0.0		
26	Stone	-	-	-	-	-	3,999	3,999	0.1		
27	Salt	25,265	42,403	-	-	-	-	67,668	1.2		
28	Potash (1)	-	-	-	-	-	-	-	-		
29	Gypsum	-	56,239	-	-	-	-	56,239	1.0		
30	Asphalt	-	23,042	-	-	-	-	23,042	0.4		
31	Other Mine Products	5,983	-	-	-	-	105,059	111,042	1.9		
32	<b>Total Mine Products</b>	89,086	864,219	-	-	-	166,176	1,119,481	19.5		
33	Lumber	-	-	-	-	-	-	-	-		
34	Other Forest Products	-	-	-	-	8,030	619	8,649	0.2		
35	<b>Total Forest Products</b>	-	-	-	-	8,030	619	8,649	0.2		
36	Gasoline	219,197	39,383	73,872	22,187	61,404	-	416,043	7.3		
37	Fuel Oil	211,849	32,592	40,476	-	-	-	284,917	5.0		
38	Other Petroleum Products	-	-	62,822	-	11,174	-	73,996	1.3		
39	Chemicals (1)	-	-	-	-	-	47,181	47,181	0.8		
40	Sodium Products	-	-	-	-	-	-	-	-		
41	Tar, Pitch and Creosote	-	-	-	-	-	-	-	-		
42	Pig Iron	-	27,350	-	-	-	17,028	44,378	0.8		
43	Iron and Steel	-	-	-	-	202,848	1,235,118	1,437,966	25.1		
44	Steel Slabs	-	-	-	-	-	20,308	20,308	0.4		
45	Machinery and Machines (2)	91	92	-	772	1,199	27,176	29,330	0.5		
46	Cement	3,139	810,152	-	-	-	17,500	830,791	14.5		
47	Cement Clinkers	-	662,233	-	-	-	-	662,233	11.5		
48	Woodpulp	-	-	-	-	-	8,000	8,000	0.1		
49	Newsprint and Paper Products	-	-	-	-	-	-	-	-		
50	Syrup and Molasses	-	-	-	-	-	-	-	-		
51	Sugar	-	-	-	-	-	54,200	54,200	0.9		
52	Food Products	-	-	-	-	-	52	52	0.0		
53	Furnace Slags	56,000	222,250	-	-	-	31,017	309,267	5.4		
54	Scrap Iron and Steel	-	28,586	-	-	-	-	28,586	0.5		
55	Other Manufactures and Misc. (2) (3)	-	189,370	-	-	12,040	44,086	245,496	4.3		
56	<b>Total Manufactures and Misc.</b>	490,276	2,012,008	177,170	22,959	288,665	1,501,666	4,492,744	78.3		
57	<b>GRAND TOTAL</b>	579,362	2,943,641	177,170	22,959	302,788	1,708,280	5,734,200	100.0		

(1) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" starting in 2016.

(2) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.

(3) Includes unclassified cargoes.

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2016**

**TABLE W3 - Part B**

**MONTREAL-LAKE ONTARIO SECTION**

DOWNBOUND TONNES						TOTAL DOWN- BOUND	% OF TOTAL DOWN- BOUND	GRAND TOTALS		NO.
CANADA			UNITED STATES					TOTAL	% OF	
Canada	United States	Foreign	Canada	United States	Foreign			CARGO TONNES	TOTAL	
3,644,659	-	854,339	352,369	-	814,646	5,666,013	27.7	5,739,520	21.9	1
11,582	-	80,294	42,115	-	545,200	679,191	3.3	690,668	2.6	2
-	-	-	-	-	-	-	-	-	-	3
12,500	-	-	-	-	-	12,500	0.1	12,500	0.0	4
-	-	-	-	-	-	-	-	16,499	0.1	5
671,040	-	586,762	-	-	44,034	1,301,836	6.4	1,301,836	5.0	6
-	-	17,727	-	-	-	17,727	0.1	17,727	0.1	7
-	-	-	-	-	-	-	-	-	-	8
418,955	-	251,699	546,629	-	230,007	1,447,290	7.1	1,459,133	5.6	9
54,410	-	68,826	-	-	-	123,236	0.6	123,236	0.5	10
-	-	227,005	-	-	-	227,005	1.1	227,005	0.9	11
14,515	-	61,894	-	-	8,000	84,409	0.4	84,409	0.3	12
-	-	-	-	-	-	-	-	-	-	13
-	-	27,948	-	-	156,243	184,191	0.9	184,191	0.7	14
4,827,661	-	2,176,494	941,113	-	1,798,130	9,743,398	47.6	9,856,724	37.6	15
-	-	-	-	-	-	-	-	-	-	16
-	-	-	-	-	-	-	-	-	-	17
-	-	-	-	-	-	-	-	-	-	18
-	-	-	-	-	-	-	-	-	-	19
255,201	-	-	1,982,393	-	-	2,237,594	10.9	2,248,123	8.6	20
361,662	-	-	678,366	-	62,870	1,102,898	5.4	1,117,006	4.3	21
34,938	-	-	2,642,578	-	-	2,677,516	13.1	3,449,032	13.2	22
-	-	-	-	-	-	-	-	28,857	0.1	23
-	-	-	-	-	29,604	29,604	0.1	62,058	0.2	24
-	-	-	135,485	-	-	135,485	0.7	135,512	0.5	25
272,951	-	-	28,348	-	-	301,299	1.5	305,298	1.2	26
1,924,860	114,460	-	354,661	-	-	2,393,981	11.7	2,461,649	9.4	27
75,091	30,553	127,099	-	-	-	232,743	1.1	172,719	0.7	28
-	-	-	-	-	-	-	-	56,239	0.2	29
114,775	-	-	98,070	-	-	212,845	1.0	235,887	0.9	30
-	-	-	-	-	5,000	5,000	0.0	116,042	0.4	31
3,039,478	145,013	127,099	5,919,901	-	97,474	9,328,965	45.5	10,388,422	39.6	32
-	-	-	-	-	-	-	-	-	-	33
-	-	-	-	-	-	-	-	8,649	0.0	34
-	-	-	-	-	-	-	-	8,649	0.0	35
227,232	20,418	20,734	11,495	-	-	279,879	1.4	695,922	2.7	36
337,358	13,250	10,697	-	-	-	361,305	1.8	646,222	2.5	37
14,372	42,690	53,394	72,498	20,113	-	203,067	1.0	277,063	1.1	38
11,901	18,026	2,527	73,853	-	2,198	108,505	0.5	215,710	0.8	39
-	-	-	-	-	-	-	-	-	-	40
40,680	-	-	-	-	-	40,680	0.2	40,680	0.2	41
-	-	-	-	-	-	-	-	44,378	0.2	42
-	-	-	4,502	-	172	4,674	0.0	1,442,640	5.5	43
-	-	-	-	-	-	-	-	20,308	0.1	44
-	-	4,380	130	-	1,078	5,588	0.0	30,135	0.1	45
-	-	-	-	-	-	-	-	830,791	3.2	46
-	-	-	-	-	-	-	-	662,233	2.5	47
-	-	-	-	-	-	-	-	8,000	0.0	48
-	-	-	-	-	-	-	-	-	-	49
-	-	-	-	-	-	-	-	-	-	50
-	-	-	-	-	-	-	-	54,200	0.2	51
-	-	-	-	-	-	-	-	52	0.0	52
243,964	-	-	153,599	-	-	397,563	1.9	706,830	2.7	53
9,627	-	-	-	-	39	9,666	0.0	38,252	0.1	54
2,533	-	-	-	-	2,331	4,864	0.0	255,143	1.0	55
887,667	94,384	91,732	316,077	20,113	5,818	1,415,791	6.9	5,968,559	22.8	56
8,754,806	239,397	2,395,325	7,177,091	20,113	1,901,422	20,488,154	100.0	26,222,354	100.0	57

**TRAFFIC BY MONTH AND TYPE OF CARGO  
2016**

**TABLE W4**

**WELLAND CANAL SECTION**

DIRECTION AND MONTH	VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES (1)								
	Loaded	Ballast	Total		Bulk (1)	Coal	Grains	Govt. Aid	Containers	General Cargo	Steel Slabs	Total	%
<b>UPBOUND:</b>													
March	14	27	41	498,931	128,676	-	-	-	916	16,052	-	145,644	0.6
April	45	95	140	1,723,216	385,445	-	23,320	-	271	150,246	-	559,282	2.1
May	55	99	154	1,815,837	373,365	-	-	-	1,794	139,315	-	514,474	2.0
June	62	90	152	1,624,875	519,119	-	-	-	398	186,695	-	706,212	2.7
July	61	107	168	1,888,751	488,228	-	38,273	-	1,968	131,066	-	659,535	2.5
August	66	116	182	2,241,524	533,491	-	24,966	-	208	178,910	-	737,575	2.8
September	51	114	165	2,110,631	443,173	-	-	-	1,857	162,662	-	607,692	2.3
October	54	139	193	2,588,945	477,269	10,529	6,093	-	844	178,738	-	673,473	2.6
November	61	140	201	2,740,402	444,729	-	10,888	-	1,269	285,097	20,308	762,291	2.9
December	29	103	132	1,881,226	292,105	-	9,786	-	2,150	63,981	-	368,022	1.4
January	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>	<b>498</b>	<b>1,030</b>	<b>1,528</b>	<b>19,114,338</b>	<b>4,085,600</b>	<b>10,529</b>	<b>113,326</b>	<b>-</b>	<b>11,675</b>	<b>1,492,762</b>	<b>20,308</b>	<b>5,734,200</b>	<b>21.9</b>
<b>DOWNBOUND:</b>													
March	12	12	24	264,929	91,723	-	133,429	-	-	-	-	225,152	0.9
April	80	39	119	1,473,278	653,437	307,863	689,087	-	222	1,825	-	1,652,434	6.3
May	95	66	161	1,879,144	851,225	255,333	810,670	-	748	472	-	1,918,448	7.3
June	90	62	152	1,762,595	807,256	232,051	660,582	-	880	13	-	1,700,782	6.5
July	101	54	155	1,768,348	707,649	281,253	867,287	-	826	-	-	1,857,015	7.1
August	120	55	175	2,147,699	826,545	345,981	1,091,904	-	966	79	-	2,265,475	8.6
September	118	55	173	2,180,321	1,169,383	124,525	1,076,986	-	2,242	1,013	-	2,374,149	9.1
October	139	59	198	2,523,607	1,154,416	178,743	1,473,284	-	296	-	-	2,806,739	10.7
November	140	50	190	2,464,315	1,171,635	202,675	1,376,852	-	417	329	-	2,751,908	10.5
December	142	31	173	2,659,128	1,063,565	309,170	1,563,317	-	-	-	-	2,936,052	11.2
January	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>	<b>1,037</b>	<b>483</b>	<b>1,520</b>	<b>19,123,364</b>	<b>8,496,834</b>	<b>2,237,594</b>	<b>9,743,398</b>	<b>-</b>	<b>6,597</b>	<b>3,731</b>	<b>-</b>	<b>20,488,154</b>	<b>78.1</b>
<b>TOTALS:</b>													
March	26	39	65	763,860	220,399	-	133,429	-	916	16,052	-	370,796	1.4
April	125	134	259	3,196,494	1,038,882	307,863	712,407	-	493	152,071	-	2,211,716	8.4
May	150	165	315	3,694,981	1,224,590	255,333	810,670	-	2,542	139,787	-	2,432,922	9.3
June	152	152	304	3,387,470	1,326,375	232,051	660,582	-	1,278	186,708	-	2,406,994	9.2
July	162	161	323	3,657,099	1,195,877	281,253	905,560	-	2,794	131,066	-	2,516,550	9.6
August	186	171	357	4,389,223	1,360,036	345,981	1,116,870	-	1,174	178,989	-	3,003,050	11.5
September	169	169	338	4,290,952	1,612,556	124,525	1,076,986	-	4,099	163,675	-	2,981,841	11.4
October	193	198	391	5,112,552	1,631,685	189,272	1,479,377	-	1,140	178,738	-	3,480,212	13.3
November	201	190	391	5,204,717	1,616,364	202,675	1,387,740	-	1,686	285,426	20,308	3,514,199	13.4
December	171	134	305	4,540,354	1,355,670	309,170	1,573,103	-	2,150	63,981	-	3,304,074	12.6
January	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>	<b>1,535</b>	<b>1,513</b>	<b>3,048</b>	<b>38,237,702</b>	<b>12,582,434</b>	<b>2,248,123</b>	<b>9,856,724</b>	<b>-</b>	<b>18,272</b>	<b>1,496,493</b>	<b>20,308</b>	<b>26,222,354</b>	<b>100.0</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.



**TRAFFIC RESULTS  
1997 - 2016**

**TABLE W5**

**WELLAND CANAL SECTION**

YEAR	VESSEL TRANSITS			CARGO TONNES			GROSS REGISTERED TONNAGE		
	Upbound	Downbound	Total	Upbound	Downbound	Total	Upbound	Downbound	Total
1997	1,687	1,697	3,384	14,964,754	25,937,733	40,902,487	22,383,678	22,317,899	44,701,577
1998	1,716	1,711	3,427	16,490,774	24,154,823	40,645,597	22,562,174	22,498,816	45,060,990
1999	1,836	1,844	3,680	13,772,519	23,668,366	37,440,885	20,861,259	20,898,258	41,759,517
2000	1,681	1,670	3,351	13,433,945	23,138,232	36,572,177	20,473,915	20,428,640	40,902,555
2001	1,706	1,683	3,389	10,623,437	21,861,460	32,484,897	19,489,594	19,430,309	38,919,903
2002	1,506	1,510	3,016	11,689,831	20,418,339	32,108,170	18,103,106	18,134,151	36,237,257
2003	1,512	1,515	3,027	11,697,639	20,172,827	31,870,466	17,525,485	17,478,649	35,004,134
2004	1,584	1,601	3,185	12,595,988	21,688,828	34,284,816	18,311,694	18,360,863	36,672,557
2005	1,710	1,733	3,443	12,256,402	21,893,152	34,149,554	18,372,670	18,406,586	36,779,256
2006	1,840	1,833	3,673	13,976,985	23,442,679	37,419,664	19,862,855	19,823,505	39,686,360
2007	1,833	1,838	3,671	10,866,311	24,069,114	34,935,425	20,125,587	20,080,540	40,206,127
2008	1,749	1,768	3,517	10,402,209	23,177,702	33,579,911	18,965,112	19,047,659	38,012,771
2009	1,404	1,395	2,799	5,900,260	20,480,199	26,380,459	16,256,539	16,257,628	32,514,167
2010	1,558	1,577	3,135	7,685,414	21,497,922	29,183,336	18,428,256	18,379,890	36,808,146
2011	1,650	1,646	3,296	7,690,451	21,946,208	29,636,659	19,225,477	19,153,605	38,379,082
2012	1,621	1,622	3,243	7,298,643	22,681,823	29,980,466	20,087,310	19,992,130	40,079,440
2013	1,567	1,566	3,133	6,253,749	22,983,212	29,236,961	19,591,123	19,581,806	39,172,929
2014	1,634	1,638	3,272	7,641,255	24,115,717	31,756,972	21,303,838	21,253,291	42,557,129
2015	1,504	1,502	3,006	7,916,791	20,325,042	28,241,833	19,097,928	19,004,435	38,102,363
2016	1,528	1,520	3,048	5,734,200	20,488,154	26,222,354	19,114,338	19,123,364	38,237,702
<b>TOTAL</b>	<b>32,826</b>	<b>32,869</b>	<b>65,695</b>	<b>208,891,557</b>	<b>448,141,532</b>	<b>657,033,089</b>	<b>390,141,938</b>	<b>389,652,024</b>	<b>779,793,962</b>

**CARGO BY TARIFF CLASSIFICATION  
1997 - 2016**

**TABLE W6**

**WELLAND CANAL SECTION**

YEAR	BULK (1)		COAL		GRAINS		GOVT. AID		CONTAINERS		GENERAL CARGO		STEEL SLABS		TOTAL TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1997	23,110,570	56.5	N/A	-	13,721,447	33.5	-	-	2,209	0.0	4,068,261	9.9	N/A	-	40,902,487
1998	22,004,090	54.1	N/A	-	13,162,425	32.4	15,828	0.0	837	0.0	5,462,417	13.4	N/A	-	40,645,597
1999	15,880,743	42.4	4,518,099	12.1	13,508,319	36.1	69,469	0.2	355	0.0	3,286,495	8.8	177,405	0.5	37,440,885
2000	15,811,645	43.2	4,345,503	11.9	12,871,409	35.2	9,655	0.0	1,283	0.0	3,382,207	9.2	150,475	0.4	36,572,177
2001	13,826,823	42.6	4,803,620	14.8	11,645,522	35.8	-	-	1,616	0.0	2,033,454	6.3	173,862	0.5	32,484,897
2002	14,956,780	46.6	4,114,092	12.8	10,323,175	32.2	25,834	0.1	848	0.0	2,133,952	6.6	553,489	1.7	32,108,170
2003	16,635,881	52.2	4,196,191	13.2	9,342,431	29.3	7,826	0.0	791	0.0	1,682,564	5.3	4,782	0.0	31,870,466
2004	18,017,251	52.6	4,230,079	12.3	9,044,708	26.4	-	-	867	0.0	2,904,893	8.5	87,018	0.3	34,284,816
2005	19,095,444	55.9	3,693,199	10.8	9,391,899	27.5	-	-	398	0.0	1,884,844	5.5	83,770	0.2	34,149,554
2006	19,810,684	52.9	3,714,491	9.9	10,751,735	28.7	11,064	0.0	3,372	0.0	2,774,914	7.4	353,404	0.9	37,419,664
2007	19,911,584	57.0	3,159,070	9.0	9,921,492	28.4	-	-	871	0.0	1,527,846	4.4	414,562	1.2	34,935,425
2008	21,850,486	65.1	3,631,509	10.8	6,848,996	20.4	-	-	1,566	0.0	1,231,106	3.7	16,248	0.0	33,579,911
2009	15,318,345	58.1	2,852,049	10.8	7,518,954	28.5	-	-	790	0.0	669,054	2.5	21,267	0.1	26,380,459
2010	16,298,195	55.8	3,670,410	12.6	8,013,820	27.5	-	-	11,761	0.0	1,188,862	4.1	288	0.0	29,183,336
2011	17,218,186	58.1	3,739,848	12.6	7,539,218	25.4	-	-	6,385	0.0	1,131,409	3.8	1,613	0.0	29,636,659
2012	16,714,239	55.8	4,557,243	15.2	7,560,197	25.2	-	-	2,762	0.0	1,106,219	3.7	39,806	0.1	29,980,466
2013	16,623,014	56.9	4,453,956	15.2	7,076,699	24.2	-	-	282	0.0	1,082,402	3.7	608	0.0	29,236,961
2014	14,706,279	46.3	4,204,227	13.2	10,666,290	33.6	-	-	7,554	0.0	1,924,037	6.1	248,585	0.8	31,756,972
2015	14,300,508	50.6	2,497,029	8.8	9,717,230	34.4	-	-	28,386	0.1	1,679,308	5.9	19,372	0.1	28,241,833
2016	12,582,434	48.0	2,248,123	8.6	9,856,724	37.6	-	-	18,272	0.1	1,496,493	5.7	20,308	0.1	26,222,354
<b>TOTAL</b>	<b>344,673,181</b>	<b>52.5</b>	<b>68,628,738</b>	<b>10.4</b>	<b>198,482,690</b>	<b>30.2</b>	<b>139,676</b>	<b>0.0</b>	<b>91,205</b>	<b>0.0</b>	<b>42,650,737</b>	<b>6.5</b>	<b>2,366,862</b>	<b>0.4</b>	<b>657,033,089</b>

(1) Bulk, as per previous years, includes domestic general and domestic steel slabs, as per the definition of domestic in the Tariff of Tolls.

**VESSEL TRANSITS  
1997 - 2016**

**TABLE W7**

**WELLAND CANAL SECTION**

YEAR	UPBOUND				DOWNBOUND				TOTAL			
	CARGO TONNES	TRANSITS			CARGO TONNES	TRANSITS			CARGO TONNES	TRANSITS		
		Loaded	Ballast	Total		Loaded	Ballast	Total		Loaded	Ballast	Total
1997	14,964,754	917	770	1,687	25,937,733	1,296	401	1,697	40,902,487	2,213	1,171	3,384
1998	16,490,774	1,062	654	1,716	24,154,823	1,254	457	1,711	40,645,597	2,316	1,111	3,427
1999	13,772,519	905	931	1,836	23,668,366	1,227	617	1,844	37,440,885	2,132	1,548	3,680
2000	13,433,945	849	832	1,681	23,138,232	1,214	456	1,670	36,572,177	2,063	1,288	3,351
2001	10,623,437	746	960	1,706	21,861,460	1,147	536	1,683	32,484,897	1,893	1,496	3,389
2002	11,689,831	766	740	1,506	20,418,339	1,041	469	1,510	32,108,170	1,807	1,209	3,016
2003	11,697,639	725	787	1,512	20,172,827	1,036	479	1,515	31,870,466	1,761	1,266	3,027
2004	12,595,988	806	778	1,584	21,688,828	1,089	512	1,601	34,284,816	1,895	1,290	3,185
2005	12,256,402	793	917	1,710	21,893,152	1,126	607	1,733	34,149,554	1,919	1,524	3,443
2006	13,976,985	862	978	1,840	23,442,679	1,207	626	1,833	37,419,664	2,069	1,604	3,673
2007	10,866,311	714	1,119	1,833	24,069,114	1,266	572	1,838	34,935,425	1,980	1,691	3,671
2008	10,402,209	657	1,092	1,749	23,177,702	1,178	590	1,768	33,579,911	1,835	1,682	3,517
2009	5,900,260	388	1,016	1,404	20,480,199	1,023	372	1,395	26,380,459	1,411	1,388	2,799
2010	7,685,414	549	1,009	1,558	21,497,922	1,085	492	1,577	29,183,336	1,634	1,501	3,135
2011	7,690,451	549	1,101	1,650	21,946,208	1,126	520	1,646	29,636,659	1,675	1,621	3,296
2012	7,298,643	503	1,118	1,621	22,681,823	1,167	455	1,622	29,980,466	1,670	1,573	3,243
2013	6,253,749	443	1,124	1,567	22,983,212	1,159	407	1,566	29,236,961	1,602	1,531	3,133
2014	7,641,255	537	1,097	1,634	24,115,717	1,222	416	1,638	31,756,972	1,759	1,513	3,272
2015	7,916,791	587	917	1,504	20,325,042	1,015	487	1,502	28,241,833	1,602	1,404	3,006
2016	5,734,200	498	1,030	1,528	20,488,154	1,037	483	1,520	26,222,354	1,535	1,513	3,048
<b>TOTAL</b>	<b>208,891,557</b>	<b>13,856</b>	<b>18,970</b>	<b>32,826</b>	<b>448,141,532</b>	<b>22,915</b>	<b>9,954</b>	<b>32,869</b>	<b>657,033,089</b>	<b>36,771</b>	<b>28,924</b>	<b>65,695</b>

# COMMODITY GROUPS

1997 - 2016

**TABLE W8**

**WELLAND CANAL SECTION**

YEAR	AGRICULTURAL PRODUCTS		ANIMAL PRODUCTS		MINE PRODUCTS <sup>(1)</sup>		FOREST PRODUCTS		MANUFACTURES & MISCELLANEOUS <sup>(2)</sup>		TOTAL TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
<b>1997</b>	13,721,447	33.5	13,964	0.0	18,152,561	44.4	10,073	0.0	9,004,442	22.0	40,902,487
<b>1998</b>	13,144,176	32.3	14,053	0.0	16,345,069	40.2	-	-	11,142,299	27.4	40,645,597
<b>1999</b>	13,577,788	36.3	11,580	0.0	15,195,354	40.6	-	-	8,656,163	23.1	37,440,885
<b>2000</b>	12,875,981	35.2	7,080	0.0	15,324,880	41.9	-	-	8,364,236	22.9	36,572,177
<b>2001</b>	11,645,522	35.8	4,042	0.0	13,287,209	40.9	20,181	0.1	7,527,943	23.2	32,484,897
<b>2002</b>	10,348,562	32.2	5,172	0.0	13,907,368	43.3	89,156	0.3	7,757,912	24.2	32,108,170
<b>2003</b>	9,349,427	29.3	-	-	15,637,122	49.1	70,402	0.2	6,813,515	21.4	31,870,466
<b>2004</b>	9,044,708	26.4	-	-	16,596,194	48.4	51,915	0.2	8,591,999	25.1	34,284,816
<b>2005</b>	9,391,899	27.5	-	-	17,154,098	50.2	105,430	0.3	7,498,127	22.0	34,149,554
<b>2006</b>	10,757,638	28.7	-	-	17,818,154	47.6	49,455	0.1	8,794,417	23.5	37,419,664
<b>2007</b>	9,921,492	28.4	5,239	0.0	17,054,983	48.8	4,908	0.0	7,948,803	22.8	34,935,425
<b>2008</b>	6,848,996	20.4	-	-	20,506,190	61.1	-	-	6,224,725	18.5	33,579,911
<b>2009</b>	7,518,954	28.5	-	-	14,700,836	55.7	-	-	4,160,669	15.8	26,380,459
<b>2010</b>	8,013,820	27.5	-	-	15,887,398	54.4	-	-	5,282,118	18.1	29,183,336
<b>2011</b>	7,539,218	25.4	-	-	15,707,442	53.0	-	-	6,389,999	21.6	29,636,659
<b>2012</b>	7,560,197	25.2	-	-	16,075,484	53.6	-	-	6,344,785	21.2	29,980,466
<b>2013</b>	7,076,699	24.2	-	-	16,033,061	54.8	-	-	6,127,201	21.0	29,236,961
<b>2014</b>	10,666,349	33.6	-	-	14,212,844	44.8	-	-	6,877,779	21.7	31,756,972
<b>2015</b>	9,717,230	34.4	-	-	12,247,674	43.4	7,786	0.0	6,269,143	22.2	28,241,833
<b>2016</b>	9,856,724	37.6	-	-	10,448,446	39.8	8,649	0.0	5,908,535	22.5	26,222,354
<b>TOTAL</b>	<b>198,576,827</b>	<b>30.2</b>	<b>61,130</b>	<b>0.0</b>	<b>312,292,367</b>	<b>47.5</b>	<b>417,955</b>	<b>0.1</b>	<b>145,684,810</b>	<b>22.2</b>	<b>657,033,089</b>

*(1) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" starting in 2016.*

*(2) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.*

**U.S. GRAINS  
1997 - 2016**

**TABLE W9** **WELLAND CANAL SECTION**

YEAR	WHEAT		CORN		RYE & OATS		CANOLA		BARLEY		SOYBEANS		FLAXSEED		ALL OTHER U.S. GRAINS		TOTAL U.S. GRAINS TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1997	1,694,195	36.0	560,724	11.9	-	-	N/A	-	576,832	12.2	1,833,522	38.9	-	-	45,562	1.0	4,710,835
1998	2,063,314	33.1	2,018,736	32.4	-	-	N/A	-	46,303	0.7	1,685,671	27.1	8,856	0.1	406,790	6.5	6,229,670
1999	1,625,184	24.3	2,705,940	40.5	-	-	-	-	42,557	0.6	2,140,080	32.0	-	-	165,111	2.5	6,678,872
2000	2,012,948	33.6	1,763,090	29.4	-	-	43,694	0.7	93,785	1.6	1,894,632	31.6	31,084	0.5	149,299	2.5	5,988,532
2001	2,098,403	38.8	1,444,889	26.7	20,959	0.4	-	-	24,960	0.5	1,568,703	29.0	56,728	1.0	199,541	3.7	5,414,183
2002	1,864,851	40.7	1,003,946	21.9	-	-	-	-	24,451	0.5	1,510,436	33.0	69,736	1.5	105,852	2.3	4,579,272
2003	1,810,637	48.0	885,817	23.5	-	-	-	-	2,213	0.1	901,268	23.9	48,860	1.3	125,065	3.3	3,773,860
2004	1,928,223	50.6	635,111	16.7	-	-	-	-	5,962	0.2	1,039,391	27.3	31,895	0.8	167,431	4.4	3,808,013
2005	2,090,363	51.3	761,437	18.7	-	-	-	-	37,594	0.9	778,751	19.1	93,076	2.3	315,383	7.7	4,076,604
2006	1,296,785	29.6	1,636,069	37.4	-	-	-	-	-	-	1,153,975	26.4	24,953	0.6	265,099	6.1	4,376,881
2007	2,688,049	61.7	751,755	17.3	-	-	-	-	20,917	0.5	626,779	14.4	51,753	1.2	213,960	4.9	4,353,213
2008	777,776	49.8	269,818	17.3	-	-	21,078	1.3	-	-	300,270	19.2	21,112	1.4	172,442	11.0	1,562,496
2009	967,069	41.7	346,831	15.0	-	-	61,785	2.7	-	-	764,078	33.0	14,754	0.6	162,815	7.0	2,317,332
2010	1,901,201	63.6	119,280	4.0	-	-	39,030	1.3	40,739	1.4	654,418	21.9	46,550	1.6	185,773	6.2	2,986,991
2011	974,408	57.6	165,537	9.8	-	-	21,455	1.3	-	-	405,757	24.0	10,507	0.6	114,703	6.8	1,692,367
2012	479,895	34.9	41,446	3.0	-	-	40,595	3.0	-	-	703,485	51.2	10,593	0.8	98,602	7.2	1,374,616
2013	899,170	52.3	-	-	-	-	-	-	-	-	694,582	40.4	-	-	124,687	7.3	1,718,439
2014	896,043	37.3	298,676	12.4	-	-	42,369	1.8	-	-	1,024,680	42.6	-	-	142,627	5.9	2,404,395
2015	973,207	42.7	493,945	21.7	-	-	46,071	2.0	-	-	637,131	28.0	-	-	127,293	5.6	2,277,647
2016	1,167,015	42.6	587,315	21.4	-	-	44,034	1.6	-	-	776,636	28.4	8,000	0.3	156,243	5.7	2,739,243
<b>TOTAL</b>	<b>30,208,736</b>	<b>41.3</b>	<b>16,490,362</b>	<b>22.6</b>	<b>20,959</b>	<b>0.0</b>	<b>360,111</b>	<b>0.5</b>	<b>916,313</b>	<b>1.3</b>	<b>21,094,245</b>	<b>28.9</b>	<b>528,457</b>	<b>0.7</b>	<b>3,444,278</b>	<b>4.7</b>	<b>73,063,461</b>

**CANADIAN GRAINS  
1997 - 2016**

**TABLE W10**

**WELLAND CANAL SECTION**

YEAR	WHEAT		CORN		RYE & OATS		CANOLA		BARLEY		SOYBEANS		FLAXSEED		ALL OTHER CDN. GRAINS		TOTAL CDN. GRAINS TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1997	7,136,235	79.5	1,892	0.0	14,956	0.2	N/A	-	130,753	1.5	261,228	2.9	462,489	5.2	966,654	10.8	8,974,207
1998	4,689,907	68.7	18,656	0.3	3,168	0.0	N/A	-	31,946	0.5	220,901	3.2	491,617	7.2	1,366,995	20.0	6,823,190
1999	4,797,664	70.4	321,393	4.7	8,482	0.1	243,358	3.6	83,825	1.2	289,152	4.2	221,353	3.2	846,620	12.4	6,811,847
2000	4,651,847	67.6	114,367	1.7	11,679	0.2	340,413	4.9	-	-	249,090	3.6	458,601	6.7	1,056,880	15.4	6,882,877
2001	4,521,487	72.8	45,687	0.7	9,407	0.2	321,964	5.2	32,908	0.5	207,275	3.3	475,014	7.6	599,127	9.6	6,212,869
2002	4,202,114	74.2	66,033	1.2	23,844	0.4	208,316	3.7	114,193	2.0	335,380	5.9	534,353	9.4	182,046	3.2	5,666,279
2003	4,174,626	75.4	5,399	0.1	42,534	0.8	278,592	5.0	46,615	0.8	302,343	5.5	454,788	8.2	228,150	4.1	5,533,047
2004	3,995,747	76.3	21,119	0.4	-	-	235,670	4.5	-	-	267,713	5.1	350,048	6.7	366,398	7.0	5,236,695
2005	3,754,479	70.6	-	-	14,961	0.3	414,092	7.8	-	-	174,313	3.3	324,783	6.1	632,667	11.9	5,315,295
2006	4,746,558	74.5	31,733	0.5	58,150	0.9	461,209	7.2	9,409	0.1	130,001	2.0	442,759	6.9	495,035	7.8	6,374,854
2007	4,185,531	75.2	67,585	1.2	7,589	0.1	395,103	7.1	14,218	0.3	197,032	3.5	458,821	8.2	242,400	4.4	5,568,279
2008	4,142,230	78.4	50,507	1.0	-	-	293,934	5.6	1,794	0.0	140,627	2.7	438,258	8.3	214,791	4.1	5,282,141
2009	4,243,517	81.6	2,286	0.0	-	-	327,769	6.3	-	-	268,371	5.2	231,182	4.4	128,497	2.5	5,201,622
2010	3,708,664	73.8	80,504	1.6	2,199	0.0	354,376	7.0	1,761	0.0	403,258	8.0	249,718	5.0	226,349	4.5	5,026,829
2011	4,272,918	73.1	42,844	0.7	2,200	0.0	909,984	15.6	-	-	332,420	5.7	88,925	1.5	197,560	3.4	5,846,851
2012	4,741,194	76.8	42,265	0.7	2,204	0.0	745,331	12.1	-	-	349,933	5.7	36,031	0.6	258,243	4.2	6,175,201
2013	4,064,898	76.6	93,145	1.8	2,182	0.0	455,939	8.6	-	-	293,661	5.5	113,536	2.1	285,450	5.4	5,308,811
2014	6,111,484	74.5	254,739	3.1	35,153	0.4	858,239	10.5	-	-	439,337	5.4	159,719	1.9	342,221	4.2	8,200,892
2015	5,543,789	75.3	32,185	0.4	-	-	869,233	11.8	-	-	427,570	5.8	117,975	1.6	374,955	5.1	7,365,707
2016	4,566,412	64.6	91,876	1.3	12,500	0.2	1,257,802	17.8	-	-	670,654	9.5	76,409	1.1	395,916	5.6	7,071,569
<b>TOTAL</b>	<b>92,251,301</b>	<b>73.9</b>	<b>1,384,215</b>	<b>1.1</b>	<b>251,208</b>	<b>0.2</b>	<b>8,971,324</b>	<b>7.2</b>	<b>467,422</b>	<b>0.4</b>	<b>5,960,259</b>	<b>4.8</b>	<b>6,186,379</b>	<b>5.0</b>	<b>9,406,954</b>	<b>7.5</b>	<b>124,879,062</b>

**SELECTED MINING COMMODITIES  
1997 - 2016**

TABLE W11

WELLAND CANAL SECTION

YEAR	COAL		COKE		IRON ORE		CLAY & BENTONITE		GRAVEL & SAND		STONE		SALT		OTHER MINING <sup>(1)</sup>		TOTAL MINING TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1997	4,613,589	25.4	815,321	4.5	7,882,197	43.4	254,791	1.4	221,370	1.2	1,149,189	6.3	2,339,016	12.9	877,088	4.8	18,152,561
1998	4,631,960	28.3	698,915	4.3	6,514,907	39.9	250,534	1.5	176,521	1.1	1,297,412	7.9	1,976,360	12.1	798,460	4.9	16,345,069
1999	4,518,099	29.7	623,627	4.1	5,822,615	38.3	175,661	1.2	228,871	1.5	859,859	5.7	2,154,900	14.2	811,722	5.3	15,195,354
2000	4,345,503	28.4	964,887	6.3	6,128,438	40.0	161,835	1.1	214,291	1.4	894,193	5.8	1,725,627	11.3	890,106	5.8	15,324,880
2001	4,803,620	36.2	901,018	6.8	3,486,873	26.2	84,269	0.6	204,364	1.5	945,002	7.1	2,149,714	16.2	712,349	5.4	13,287,209
2002	4,114,092	29.6	1,194,300	8.6	5,042,945	36.3	110,613	0.8	181,670	1.3	739,559	5.3	1,888,696	13.6	635,493	4.6	13,907,368
2003	4,196,191	26.8	1,004,157	6.4	6,560,453	42.0	109,485	0.7	210,126	1.3	799,893	5.1	2,070,106	13.2	686,711	4.4	15,637,122
2004	4,230,079	25.5	1,286,492	7.8	6,630,538	40.0	180,934	1.1	195,122	1.2	1,193,515	7.2	2,367,741	14.3	511,773	3.1	16,596,194
2005	3,693,199	21.5	1,346,009	7.8	7,419,461	43.3	128,894	0.8	210,483	1.2	1,213,462	7.1	2,547,366	14.8	595,224	3.5	17,154,098
2006	3,714,491	20.8	1,877,911	10.5	7,191,865	40.4	177,648	1.0	190,485	1.1	1,151,332	6.5	2,891,149	16.2	623,273	3.5	17,818,154
2007	3,159,070	18.5	1,376,874	8.1	8,283,147	48.6	147,736	0.9	138,281	0.8	823,881	4.8	2,479,604	14.5	646,390	3.8	17,054,983
2008	3,631,509	17.7	2,538,277	12.4	9,502,278	46.3	121,479	0.6	159,991	0.8	656,039	3.2	3,053,544	14.9	843,073	4.1	20,506,190
2009	2,852,049	19.4	1,406,990	9.6	6,251,224	42.5	62,556	0.4	76,657	0.5	423,888	2.9	2,939,181	20.0	688,291	4.7	14,700,836
2010	3,670,410	23.1	1,666,050	10.5	7,135,127	44.9	69,279	0.4	113,404	0.7	501,003	3.2	1,981,436	12.5	750,689	4.7	15,887,398
2011	3,739,848	23.8	2,079,628	13.2	5,961,836	38.0	108,199	0.7	108,432	0.7	466,745	3.0	2,569,434	16.4	673,320	4.3	15,707,442
2012	4,557,243	28.3	1,334,955	8.3	6,264,484	39.0	79,487	0.5	160,277	1.0	437,461	2.7	2,585,462	16.1	656,115	4.1	16,075,484
2013	4,453,956	27.8	1,414,934	8.8	6,792,569	42.4	91,444	0.6	125,132	0.8	315,707	2.0	2,267,310	14.1	572,009	3.6	16,033,061
2014	4,204,227	29.6	1,487,269	10.5	4,517,320	31.8	50,608	0.4	123,117	0.9	360,410	2.5	3,012,803	21.2	457,090	3.2	14,212,844
2015	2,497,029	20.4	1,306,554	10.7	4,664,602	38.1	43,126	0.4	137,535	1.1	128,177	1.0	2,890,371	23.6	580,280	4.7	12,247,674
2016	2,248,123	21.5	1,117,006	10.7	3,449,032	33.0	62,058	0.6	135,512	1.3	305,298	2.9	2,461,649	23.6	669,768	6.4	10,448,446
<b>TOTAL</b>	<b>77,874,287</b>	<b>24.9</b>	<b>26,441,174</b>	<b>8.5</b>	<b>125,501,911</b>	<b>40.2</b>	<b>2,470,636</b>	<b>0.8</b>	<b>3,311,641</b>	<b>1.1</b>	<b>14,662,025</b>	<b>4.7</b>	<b>48,351,469</b>	<b>15.5</b>	<b>13,679,224</b>	<b>4.4</b>	<b>312,292,367</b>

(1) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "other mining" starting in 2016.

**SELECTED PROCESSED COMMODITIES  
1997 - 2016**

**TABLE W12**

**WELLAND CANAL SECTION**

YEAR	GASOLINE		FUEL OIL		CHEMICALS <sup>(1)</sup>		SODIUM PRODUCTS		PIG IRON		MANUFACTURED IRON & STEEL <sup>(2)</sup>		CEMENT		SCRAP IRON & STEEL		OTHER PROCESSED <sup>(3)</sup>	
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%
1997	76,415	0.8	634,957	7.1	519,555	5.8	62,988	0.7	128,689	1.4	3,856,640	42.8	1,516,733	16.8	299,133	3.3	1,909,332	21.2
1998	150,900	1.4	613,464	5.5	655,361	5.9	69,849	0.6	266,790	2.4	5,361,673	48.1	1,673,028	15.0	106,380	1.0	2,244,854	20.1
1999	63,662	0.7	474,539	5.5	397,024	4.6	77,394	0.9	225,935	2.6	3,334,738	38.5	1,602,864	18.5	126,082	1.5	2,353,925	27.2
2000	108,365	1.3	354,049	4.2	496,847	5.9	84,646	1.0	202,512	2.4	3,458,677	41.4	1,258,259	15.0	138,016	1.7	2,262,865	27.1
2001	285,450	3.8	492,370	6.5	435,129	5.8	73,898	1.0	199,013	2.6	2,145,531	28.5	1,540,165	20.5	124,709	1.7	2,231,678	29.6
2002	147,641	1.9	293,209	3.8	421,416	5.4	74,087	1.0	229,653	3.0	2,643,181	34.1	1,305,972	16.8	83,128	1.1	2,559,625	33.0
2003	158,411	2.3	570,348	8.4	436,386	6.4	68,800	1.0	177,603	2.6	1,652,648	24.3	1,297,109	19.0	134,222	2.0	2,317,988	34.0
2004	173,561	2.0	600,026	7.0	554,959	6.5	47,589	0.6	162,506	1.9	2,914,863	33.9	1,226,938	14.3	244,612	2.8	2,666,945	31.0
2005	248,352	3.3	667,545	8.9	395,011	5.3	19,181	0.3	177,542	2.4	1,854,248	24.7	1,230,805	16.4	171,761	2.3	2,733,682	36.5
2006	381,603	4.3	776,324	8.8	467,652	5.3	15,283	0.2	233,129	2.7	3,099,721	35.2	1,064,495	12.1	317,236	3.6	2,438,974	27.7
2007	530,160	6.7	1,030,625	13.0	370,354	4.7	15,938	0.2	257,022	3.2	1,918,301	24.1	1,087,934	13.7	311,265	3.9	2,427,204	30.5
2008	507,338	8.2	789,629	12.7	239,492	3.8	15,010	0.2	167,061	2.7	1,202,260	19.3	775,575	12.5	177,685	2.9	2,350,675	37.8
2009	215,424	5.2	640,750	15.4	153,810	3.7	-	-	101,887	2.4	659,314	15.8	660,877	15.9	94,702	2.3	1,633,905	39.3
2010	294,125	5.6	660,930	12.5	239,362	4.5	-	-	254,220	4.8	1,119,501	21.2	859,159	16.3	114,127	2.2	1,740,694	33.0
2011	561,244	8.8	1,214,324	19.0	243,440	3.8	-	-	182,143	2.9	1,115,852	17.5	809,991	12.7	314,413	4.9	1,948,592	30.5
2012	339,498	5.4	1,026,176	16.2	289,171	4.6	-	-	175,034	2.8	1,129,565	17.8	896,565	14.1	170,131	2.7	2,318,645	36.5
2013	262,790	4.3	1,316,976	21.5	256,228	4.2	-	-	135,601	2.2	1,043,009	17.0	732,134	11.9	82,054	1.3	2,298,409	37.5
2014	306,133	4.5	1,056,948	15.4	325,457	4.7	-	-	74,383	1.1	2,133,660	31.0	865,840	12.6	120,015	1.7	1,995,343	29.0
2015	480,061	7.7	651,625	10.4	215,389	3.4	-	-	113,628	1.8	1,619,284	25.8	957,032	15.3	62,239	1.0	2,169,885	34.6
2016	695,922	11.8	646,222	10.9	155,686	2.6	-	-	44,378	0.8	1,462,948	24.8	830,791	14.1	38,252	0.6	2,034,336	34.4
<b>TOTAL</b>	<b>5,987,055</b>	<b>4.1</b>	<b>14,511,036</b>	<b>10.0</b>	<b>7,267,729</b>	<b>5.0</b>	<b>624,663</b>	<b>0.4</b>	<b>3,508,729</b>	<b>2.4</b>	<b>43,725,614</b>	<b>30.0</b>	<b>22,192,266</b>	<b>15.2</b>	<b>3,230,162</b>	<b>2.2</b>	<b>44,637,556</b>	<b>30.6</b>

(1) Please note that the commodity "muriate of potash", which was historically filed under chemicals products, has been regrouped with "potash" under mining commodities starting in 2016.

(2) Includes steel slabs but excludes domestic general and domestic slabs.

(3) Please note that the commodity "machinery parts", which was historically filed under manufactured products, has been regrouped with "machinery & machines" starting in 2016.



## NOTES