



# The St. Lawrence Seaway

2002 Traffic Report



# THE ST. LAWRENCE SEAWAY TRAFFIC REPORT 2002 NAVIGATION SEASON

PREPARED BY  
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AND THE  
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## 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, page 7. The calendar year or the fiscal year is not considered.

As of 1999, the format of this report has been modified; some of the tables published in prior Traffic Reports have been removed. However, the primary contents of this report are still divided into four parts:

- Part I** - Table summaries of the 2002 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.

Starting with the 1993 report, historical tables cover the latest 20 years. Anyone needing historical tables going back to 1959 can request the "Historical Tables" brochure from either office.

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, and for transit and gross registered tonnage purposes, are included amongst the loaded or ballast transits of the cargo vessel category.

Prior to 1999, each tug and barge combination was considered to be one unit and / or one transit. From that period onward, each vessel is considered to be a separate transit.

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**

**2002 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:

- a) **Bulk Cargo**                      *The tonnes of bulk cargo assessed at the Bulk rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls*
- b) **Cargo Tonnes**                      *The tonnes of cargo carried by a vessel on each or any transit.*
- c) **Coal Cargo**                      *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.*
- d) **Commodity**                      *The classification of commodities is based on that prescribed by the Canadian Transport Commission and the Interstate Commerce Commission of the United States.*
- e) **Container Cargo**                      *The tonnes of cargo assessed at the Containers rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.*
- f) **Destination**                      *The country in which the cargo was unloaded and/or the transit terminated.*
- g) **General Cargo**                      *The tonnes of cargo assessed at the General rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.*
- h) **Government Aid Cargo**                      *The tonnes of cargo assessed at the Government Aid rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.*
- i) **Grain Cargo**                      *The tonnes of cargo assessed at the Grains rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.*
- j) **Gross Registered Tonnage**                      *The gross registered tonnage of a vessel according to the Lloyd's Register of Ships designation.*
- k) **Mixed Cargo**                      *Indicates that a vessel carried a combination of Bulk, Coal, Grain, Government Aid, Containers, General or Steel Slab cargoes.*

- l) **Origin** *The country in which the cargo was loaded and/or the transit originated.*
- m) **Package Freight** *In the historical tables, designates cargo consisting of miscellaneous packages generally identified as to commodity and carried only on vessels licensed by the respective authorities in Canada and the United States. **This commodity classification is no longer applicable.***
- n) **Steel Slab Cargo** *The tonnes of cargo assessed at the Steel Slab rate of tolls as defined in the St. Lawrence Seaway Tariff of Tolls.*
- o) **Transit** *A partial or complete upbound or downbound passage of a ship through one or more locks of a Seaway Canal.*
- p) **Tug and Barge Combination** *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.*

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 2002

**TABLE S1**

TRAFFIC AND REVENUE	ST. LAWRENCE SEAWAY			MONTREAL-LAKE ONTARIO SECTION			WELLAND CANAL SECTION		
TRAFFIC	Tonnes and Transits	% of Total	Variance % 2001	Tonnes and Transits	% of Total	Variance % 2001	Tonnes and Transits	% of Total	Variance % 2001
<b>Cargo Tonnes by Toll Classification:</b>									
Bulk	22 615 138	54.6	2.4	15 604 029	52.0	-0.5	14 956 780	46.6	8.2
Coal	4 114 092	9.9	-14.4	336 425	1.1	-17.4	4 114 092	12.8	-14.4
Grains	10 461 094	25.3	-11.3	9 863 912	32.9	-11.6	10 323 175	32.2	-11.4
Government Aid	25 834	0.1	100.0	25 834	0.1	100.0	25 834	0.1	100.0
Containers	14 721	0.0	-10.6	14 721	0.0	-10.6	848	0.0	-47.5
General Cargo	3 019 259	7.3	15.2	3 019 259	10.1	15.2	2 133 952	6.6	5.0
Steel Slab	1 138 112	2.7	196.3	1 138 112	3.8	196.3	553 489	1.7	218.3
<b>Total Cargo Tonnes</b>	<b>41 388 250</b>	<b>100.0</b>	<b>-0.8</b>	<b>30 002 292</b>	<b>100.0</b>	<b>-0.9</b>	<b>32 108 170</b>	<b>100.0</b>	<b>-1.2</b>
<b>Gross Registered Tonnage:</b>									
Cargo Vessels	42 413 989	99.1	-1.7	31 187 403	99.4	3.8	35 935 951	99.2	-6.9
Non-Cargo Vessels	394 900	0.9	-2.7	194 982	0.6	-12.5	301 306	0.8	-9.0
<b>Total Gross Registered Tonnage</b>	<b>42 808 889</b>	<b>100.0</b>	<b>-1.7</b>	<b>31 382 385</b>	<b>100.0</b>	<b>3.7</b>	<b>36 237 257</b>	<b>100.0</b>	<b>-6.9</b>
<b>Vessel Transits:</b>									
Loaded Cargo Vessels	2 433	62.5	-3.0	1 818	69.6	-2.6	1 807	59.9	-4.5
Ballast Cargo Vessels	841	21.6	-4.9	531	20.3	11.8	775	25.7	-16.3
Non-Cargo Vessels	617	15.9	-10.8	263	10.1	6.9	434	14.4	-23.9
<b>Total Vessel Transits</b>	<b>3 891</b>	<b>100.0</b>	<b>-4.7</b>	<b>2 612</b>	<b>100.0</b>	<b>0.9</b>	<b>3 016</b>	<b>100.0</b>	<b>-11.0</b>
<b>Additional Information:</b>	<b>Number</b>			<b>Number</b>			<b>Number</b>		
Passengers (Number)	7 636	-	-25.0	5 614	-	-35.2	2 275	-	-26.8
Pleasure Craft Lockages	16 362	-	-8.7	9 986	-	-14.9	6 376	-	3.1
REVENUE (1)	Revenue	% of Total	Variance % 2001	Revenue	% of Total	Variance % 2001	Revenue	% of Total	Variance % 2001
<b>Traffic Revenue (\$) by Toll Classification</b>	\$			\$			\$		
Bulk	22 421 891	34.7	4.7	13 630 331	44.0	1.0	8 791 559	26.1	11.1
Coal	2 655 596	4.1	-13.2	157 519	0.5	-21.4	2 498 077	7.4	-12.6
Grains	11 606 964	18.0	-10.1	5 540 702	17.9	-10.1	6 066 262	18.0	-10.2
Government Aid	-	-	-	-	-	-	-	-	-
Containers	8 883	0.0	-17.3	8 368	0.0	-14.4	515	0.0	-46.5
General Cargo	8 681 582	13.4	14.5	6 608 021	21.3	17.1	2 073 561	6.2	7.1
Steel Slab	2 659 410	4.1	205.3	2 274 403	7.3	202.2	385 007	1.1	224.7
Gross Registered Tonnage	7 760 553	12.0	-1.9	2 704 588	8.7	5.6	5 055 965	15.0	-5.5
Passengers	49 317	0.1	-36.0	28 217	0.1	-37.7	21 100	0.1	-33.5
Lockage Fees	8 805 639	13.6	-6.5	-	-	-	8 805 639	26.1	-6.5
<b>Total Tolls - Current Shipping Season</b>	<b>64 649 835</b>	<b>100.0</b>	<b>2.2</b>	<b>30 952 149</b>	<b>100.0</b>	<b>7.2</b>	<b>33 697 685</b>	<b>100.0</b>	<b>-2.0</b>

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

**COMMODITY SUMMARY  
2002**

**TABLE S2**

SUMMARY OF MAJOR COMMODITIES	ST. LAWRENCE SEAWAY			MONTREAL-LAKE ONTARIO SECTION			WELLAND CANAL SECTION		
	Tonnes	% of Total	Variance % 2001	Tonnes	% of Total	Variance % 2001	Tonnes	% of Total	Variance % 2001
<b>Agricultural Products:</b>									
Wheat	6 087 099	14.7	-9.3	5 858 586	19.5	-9.6	6 066 965	18.9	-8.4
Corn	1 116 703	2.7	-25.5	830 627	2.8	-30.9	1 084 979	3.4	-27.2
Rye	-	-	-	-	-	-	-	-	-
Oats	109 968	0.3	66.3	109 968	0.4	66.3	101 468	0.3	107.8
Barley	140 414	0.3	142.6	140 414	0.5	142.6	138 644	0.4	139.6
Soybeans	1 912 365	4.6	6.2	1 829 772	6.1	7.7	1 845 816	5.7	3.9
Flaxseed	604 089	1.5	13.6	604 089	2.0	13.6	604 089	1.9	13.6
Canola (Rapeseed)	210 181	0.5	-34.7	210 181	0.7	-34.7	208 316	0.6	-35.3
Other Grains	305 662	0.7	-62.0	305 662	1.0	-62.0	298 285	0.9	-62.7
<i>Total Grains</i>	10 486 481	25.3	-11.1	9 889 299	33.0	-11.4	10 348 562	32.2	-11.1
Other Agricultural Products	-	-	-	-	-	-	-	-	-
<b>Total Agricultural Products</b>	10 486 481	25.3	-11.1	9 889 299	33.0	-11.5	10 348 562	32.2	-11.1
<b>Mine Products:</b>									
Iron Ore	9 640 306	23.3	11.4	8 166 897	27.2	-2.6	5 042 945	15.7	44.6
Coal	4 114 092	9.9	-14.4	336 425	1.1	-17.4	4 114 092	12.8	-14.4
Coke	1 227 534	3.0	29.4	847 622	2.8	12.5	1 194 300	3.7	32.6
Stone, Ground, Crushed, or Rough	739 559	1.8	-21.7	323 541	1.1	8.1	739 559	2.3	-21.7
Salt	1 921 757	4.6	-15.3	853 795	2.8	-4.2	1 888 696	5.9	-12.1
Other Mine Products	1 672 181	4.0	-0.6	1 405 324	4.7	2.9	927 776	2.9	-7.3
<b>Total Mine Products</b>	19 315 429	46.7	0.1	11 933 604	39.8	-1.4	13 907 368	43.3	4.7
<b>Processed Products:</b>									
Iron and Steel	2 929 550	7.1	16.5	2 929 550	9.8	16.6	2 089 692	6.5	6.0
Steel Slab	1 138 112	2.7	196.3	1 138 112	3.8	196.3	553 489	1.7	218.3
Petroleum Products	1 320 969	3.2	-25.1	1 250 209	4.2	-22.6	440 850	1.4	-43.8
Chemicals	678 876	1.6	15.5	557 911	1.9	11.0	421 416	1.3	-3.2
Other Processed Products	5 388 629	13.0	1.6	2 173 403	7.2	11.9	4 252 465	13.2	2.1
<b>Total Processed Products</b>	11 456 136	27.7	8.6	8 049 185	26.8	15.7	7 757 912	24.2	3.1
<b>Miscellaneous Cargo:</b>									
Forest Products	98 953	0.2	367.1	98 953	0.3	367.1	89 156	0.3	341.8
Animal Products	31 251	0.1	22.8	31 251	0.1	22.8	5 172	0.0	28.0
<b>Total Miscellaneous Cargo</b>	130 204	0.3	179.2	130 204	0.4	179.2	94 328	0.3	289.4
<b>GRAND TOTAL</b>	<b>41 388 250</b>	<b>100.0</b>	<b>-0.8</b>	<b>30 002 292</b>	<b>100.0</b>	<b>-0.9</b>	<b>32 108 170</b>	<b>100.0</b>	<b>-1.2</b>

**ACTUAL OPENING AND CLOSING DATES OF NAVIGATION  
1983 - 2002**

**TABLE S3**

YEAR	MONTREAL-LAKE ONTARIO SECTION			WELLAND CANAL SECTION		
	Opening	Closing	Days of Navigation	Opening	Closing	Days of Navigation
1983	March 31	December 19	264	April 5	December 27	267
1984	April 2	January 2	276	March 28	January 1	280
1985	April 1	December 30	274	April 1	December 30	274
1986	April 3	December 27	269	April 3	December 26	268
1987	March 31	December 26	271	April 1	December 28	272
1988	March 29	December 23	270	March 30	December 25	271
1989	March 30	December 23	269	March 31	December 23	268
1990	March 28	December 26	274	March 28	December 24	272
1991	March 26	December 24	274	March 26	December 24	274
1992	March 30	December 23	269	March 30	December 24	270
1993	March 30	December 26	272	March 30	December 25	271
1994	April 5	December 29	269	April 5	December 30	270
1995	March 24	December 28	280	March 24	December 25	277
1996	March 29	December 27	274	March 29	December 25	272
1997	April 2	December 26	269	April 2	December 24	267
1998	March 26	December 27	277	March 24	December 28	280
1999	March 31	December 25	270	March 30	December 25	271
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

**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  
2002**

TABLE C1

ST. LAWRENCE SEAWAY

CLASS AND TYPE OF VESSEL	VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES								
	Loaded	Ballast	Total		Bulk	Coal	Grains	Govt. Aid	Con-tainers	General	Steel Slab	Total	%
<b>UPBOUND:</b>													
<b>Ocean:</b> Cargo	435	30	465	6 891 023	1 818 118	-	77 624	-	1 455	2 994 071	1 138 112	6 029 380	14.6
Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanker	96	16	112	822 041	785 031	-	-	-	-	-	-	785 031	1.9
<b>Total Ocean</b>	<b>531</b>	<b>46</b>	<b>577</b>	<b>7 713 064</b>	<b>2 603 149</b>	<b>-</b>	<b>77 624</b>	<b>-</b>	<b>1 455</b>	<b>2 994 071</b>	<b>1 138 112</b>	<b>6 814 411</b>	<b>16.5</b>
<b>Laker:</b> Cargo	567	207	774	11 918 072	12 140 573	-	62 476	-	959	-	-	12 204 008	29.5
Barge	94	81	175	1 284 304	1 110 914	-	-	-	-	1 316	-	1 112 230	2.7
Tanker	29	26	55	356 392	243 971	-	-	-	-	-	-	243 971	0.6
<b>Total Laker</b>	<b>690</b>	<b>314</b>	<b>1 004</b>	<b>13 558 768</b>	<b>13 495 458</b>	<b>-</b>	<b>62 476</b>	<b>-</b>	<b>959</b>	<b>1 316</b>	<b>-</b>	<b>13 560 209</b>	<b>32.8</b>
<b>Non-Cargo</b>	-	309	309	172 782	-	-	-	-	-	-	-	-	-
<b>Passenger</b>	44	15	59	60 077	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>	<b>1 265</b>	<b>684</b>	<b>1 949</b>	<b>21 504 691</b>	<b>16 098 607</b>	<b>-</b>	<b>140 100</b>	<b>-</b>	<b>2 414</b>	<b>2 995 387</b>	<b>1 138 112</b>	<b>20 374 620</b>	<b>49.2</b>
<b>DOWNBOUND:</b>													
<b>Ocean:</b> Cargo	345	111	456	6 742 694	537 278	-	4 634 782	25 834	6 127	23 853	-	5 227 874	12.6
Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanker	47	65	112	813 959	250 250	-	-	-	-	-	-	250 250	0.6
<b>Total Ocean</b>	<b>392</b>	<b>176</b>	<b>568</b>	<b>7 556 653</b>	<b>787 528</b>	<b>-</b>	<b>4 634 782</b>	<b>25 834</b>	<b>6 127</b>	<b>23 853</b>	<b>-</b>	<b>5 478 124</b>	<b>13.2</b>
<b>Laker:</b> Cargo	619	150	769	11 846 336	4 997 850	4 114 092	5 442 893	-	6 180	19	-	14 561 034	35.2
Barge	84	99	183	1 333 022	517 125	-	243 319	-	-	-	-	760 444	1.8
Tanker	28	27	55	356 392	214 028	-	-	-	-	-	-	214 028	0.5
<b>Total Laker</b>	<b>731</b>	<b>276</b>	<b>1 007</b>	<b>13 535 750</b>	<b>5 729 003</b>	<b>4 114 092</b>	<b>5 686 212</b>	<b>-</b>	<b>6 180</b>	<b>19</b>	<b>-</b>	<b>15 535 506</b>	<b>37.5</b>
<b>Non-Cargo</b>	-	308	308	151 229	-	-	-	-	-	-	-	-	-
<b>Passenger</b>	45	14	59	60 566	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>	<b>1 168</b>	<b>774</b>	<b>1 942</b>	<b>21 304 198</b>	<b>6 516 531</b>	<b>4 114 092</b>	<b>10 320 994</b>	<b>25 834</b>	<b>12 307</b>	<b>23 872</b>	<b>-</b>	<b>21 013 630</b>	<b>50.8</b>
<b>TOTALS:</b>													
<b>Ocean:</b> Cargo	780	141	921	13 633 717	2 355 396	-	4 712 406	25 834	7 582	3 017 924	1 138 112	11 257 254	27.2
Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanker	143	81	224	1 636 000	1 035 281	-	-	-	-	-	-	1 035 281	2.5
<b>Total Ocean</b>	<b>923</b>	<b>222</b>	<b>1 145</b>	<b>15 269 717</b>	<b>3 390 677</b>	<b>-</b>	<b>4 712 406</b>	<b>25 834</b>	<b>7 582</b>	<b>3 017 924</b>	<b>1 138 112</b>	<b>12 292 535</b>	<b>29.7</b>
<b>Laker:</b> Cargo	1 186	357	1 543	23 764 408	17 138 423	4 114 092	5 505 369	-	7 139	19	-	26 765 042	64.7
Barge	178	180	358	2 617 326	1 628 039	-	243 319	-	-	1 316	-	1 872 674	4.5
Tanker	57	53	110	712 784	457 999	-	-	-	-	-	-	457 999	1.1
<b>Total Laker</b>	<b>1 421</b>	<b>590</b>	<b>2 011</b>	<b>27 094 518</b>	<b>19 224 461</b>	<b>4 114 092</b>	<b>5 748 688</b>	<b>-</b>	<b>7 139</b>	<b>1 335</b>	<b>-</b>	<b>29 095 715</b>	<b>70.3</b>
<b>Non-Cargo</b>	-	617	617	324 011	-	-	-	-	-	-	-	-	-
<b>Passenger</b>	89	29	118	120 643	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>	<b>2 433</b>	<b>1 458</b>	<b>3 891</b>	<b>42 808 889</b>	<b>22 615 138</b>	<b>4 114 092</b>	<b>10 461 094</b>	<b>25 834</b>	<b>14 721</b>	<b>3 019 259</b>	<b>1 138 112</b>	<b>41 388 250</b>	<b>100.0</b>

**TRAFFIC BY CLASSIFICATION AND TYPE OF CARGO  
2002**

**TABLE C2**

**ST. LAWRENCE SEAWAY**

COMMODITY	CARGO TONNES								% of Total
	Bulk	Coal	Grains	Govt. Aid	Con-tainers	General	Steel Slab	Total	
Wheat	-	-	6 087 099	-	-	-	-	6 087 099	14.7
Corn	-	-	1 101 703	15 000	-	-	-	1 116 703	2.7
Rye	-	-	-	-	-	-	-	-	-
Oats	-	-	109 968	-	-	-	-	109 968	0.3
Barley	-	-	140 414	-	-	-	-	140 414	0.3
Canola (Rapeseed)	-	-	210 181	-	-	-	-	210 181	0.5
Canola Meal, Pellets	-	-	3 185	-	-	-	-	3 185	0.0
Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-	-
Soybeans	-	-	1 912 365	-	-	-	-	1 912 365	4.6
Soybean Oil Cake, Meal, Pellets	-	-	50 259	-	-	-	-	50 259	0.1
Beans and Peas	-	-	62 676	2 088	-	-	-	64 764	0.2
Flaxseed	-	-	604 089	-	-	-	-	604 089	1.5
Sunflower Seeds	-	-	-	-	-	-	-	-	-
Other Agricultural Products	-	-	179 155	8 299	-	-	-	187 454	0.5
<b>Total Agricultural Products</b>	-	-	10 461 094	25 387	-	-	-	10 486 481	25.3
Packing House Products, Edible	-	-	-	-	-	-	-	-	-
Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-	-
Other Animal Products	30 378	-	-	-	873	-	-	31 251	0.1
<b>Total Animal Products</b>	30 378	-	-	-	873	-	-	31 251	0.1
Bituminous Coal	-	4 114 092	-	-	-	-	-	4 114 092	9.9
Coke	1 227 534	-	-	-	-	-	-	1 227 534	3.0
Iron Ore	9 640 306	-	-	-	-	-	-	9 640 306	23.3
Aluminum Ore and Concentrates	87 912	-	-	-	-	-	-	87 912	0.2
Clay and Bentonite	110 613	-	-	-	-	-	-	110 613	0.3
Gravel and Sand	189 965	-	-	-	-	-	-	189 965	0.5
Stone	739 559	-	-	-	-	-	-	739 559	1.8
Salt	1 921 757	-	-	-	-	-	-	1 921 757	4.6
Potash	97 157	-	-	-	-	-	-	97 157	0.2
Gypsum	520 951	-	-	-	-	-	-	520 951	1.3
Asphalt	228 888	-	-	-	-	-	-	228 888	0.6
Other Mine Products	436 695	-	-	-	-	-	-	436 695	1.1
<b>Total Mine Products</b>	15 201 337	4 114 092	-	-	-	-	-	19 315 429	46.7
Lumber	98 944	-	-	-	-	-	-	98 944	0.2
Other Forest Products	-	-	-	-	-	9	-	9	0.0
<b>Total Forest Products</b>	98 944	-	-	-	-	9	-	98 953	0.2
Gasoline	722 291	-	-	-	-	-	-	722 291	1.7
Fuel Oil	525 688	-	-	-	-	-	-	525 688	1.3
Other Petroleum Products	72 990	-	-	-	-	-	-	72 990	0.2
Chemicals	678 865	-	-	-	11	-	-	678 876	1.6
Sodium Products	76 218	-	-	-	-	-	-	76 218	0.2
Tar, Pitch and Creosote	33 313	-	-	-	-	-	-	33 313	0.1
Pig Iron	232 784	-	-	-	-	-	-	232 784	0.6
Iron and Steel	38	-	-	-	-	2 929 512	-	2 929 550	7.1
Steel Slab	-	-	-	-	-	-	1 138 112	1 138 112	2.7
Machinery and Machines	979	-	-	-	657	18 606	-	20 242	0.0
Cement	1 392 159	-	-	-	-	-	-	1 392 159	3.4
Cement Clinker	1 324 473	-	-	-	-	-	-	1 324 473	3.2
Woodpulp	219 295	-	-	-	-	-	-	219 295	0.5
Newsprint and Paper Products	-	-	-	-	-	4	-	4	0.0
Syrup and Molasses	-	-	-	-	-	-	-	-	-
Sugar	558 517	-	-	-	-	-	-	558 517	1.3
Food Products	-	-	-	-	39	29	-	68	0.0
Furnace Slags	841 668	-	-	-	-	-	-	841 668	2.0
Scrap Iron and Steel	138 961	-	-	-	-	-	-	138 961	0.3
Other Manufactures and Misc. (1)	466 240	-	-	447	13 141	71 099	-	550 927	1.3
<b>Total Manufactures and Misc.</b>	7 284 479	-	-	447	13 848	3 019 250	1 138 112	11 456 136	27.7
<b>GRAND TOTAL</b>	<b>22 615 138</b>	<b>4 114 092</b>	<b>10 461 094</b>	<b>25 834</b>	<b>14 721</b>	<b>3 019 259</b>	<b>1 138 112</b>	<b>41 388 250</b>	<b>100.0</b>

(1) Includes unclassified cargoes

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2002**

**TABLE C3 - Part A**

**ST. LAWRENCE SEAWAY**

NO.	COMMODITY	UPBOUND TONNES						TOTAL UPBOUND	% OF TOTAL UP-BOUND
		CANADA		UNITED STATES		FOREIGN			
		Canada	United States	Canada	United States	Canada	United States		
1	Wheat	15 774	16 649	-	-	-	-	32 423	0.2
2	Corn	-	-	-	-	-	-	-	-
3	Rye	-	-	-	-	-	-	-	-
4	Oats	8 500	21 553	-	-	-	77 624	107 677	0.5
5	Barley	-	-	-	-	-	-	-	-
6	Canola (Rapeseed)	-	-	-	-	-	-	-	-
7	Canola Meal, Pellets	-	-	-	-	-	-	-	-
8	Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-
9	Soybeans	-	-	-	-	-	-	-	-
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>	24 274	38 202	-	-	-	77 624	140 100	0.7
16	Packing House Products, Edible	-	-	-	-	-	-	-	-
17	Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-
18	Other Animal Products	-	-	-	-	-	-	-	-
19	<b>Total Animal Products</b>	-	-	-	-	-	-	-	-
20	Bituminous Coal	-	-	-	-	-	-	-	-
21	Coke	174 047	140 425	22 570	-	-	-	337 042	1.7
22	Iron Ore	5 292 466	2 958 105	-	-	-	-	8 250 571	40.5
23	Aluminum Ore and Concentrates	-	-	-	-	33 979	53 933	87 912	0.4
24	Clay and Bentonite	-	-	-	-	4 362	4 799	9 161	0.0
25	Gravel and Sand	-	-	-	-	8 295	16 110	24 405	0.1
26	Stone	-	412 386	-	-	-	-	412 386	2.0
27	Salt	33 061	-	-	-	-	4 000	37 061	0.2
28	Potash	-	-	-	-	-	-	-	-
29	Gypsum	520 951	-	-	-	-	-	520 951	2.6
30	Asphalt	24 649	75 062	-	-	-	9 947	109 658	0.5
31	Other Mine Products	23 002	37 215	-	-	152 717	144 216	357 150	1.8
32	<b>Total Mine Products</b>	6 068 176	3 623 193	22 570	-	199 353	233 005	10 146 297	49.8
33	Lumber	-	-	-	-	9 650	89 147	98 797	0.5
34	Other Forest Products	-	-	-	-	-	9	9	0.0
35	<b>Total Forest Products</b>	-	-	-	-	9 650	89 156	98 806	0.5
36	Gasoline	598 587	-	-	-	123 704	-	722 291	3.5
37	Fuel Oil	130 440	6 907	-	-	-	-	137 347	0.7
38	Other Petroleum Products	-	-	20 962	-	-	-	20 962	0.1
39	Chemicals	-	-	35 783	-	186 626	40 846	263 255	1.3
40	Sodium Products	-	-	74 087	-	2 131	-	76 218	0.4
41	Tar, Pitch and Creosote	-	-	-	-	-	-	-	-
42	Pig Iron	5 775	101 527	-	-	-	125 482	232 784	1.1
43	Iron & Steel	-	635	6	-	1 116 730	1 796 678	2 914 049	14.3
44	Steel Slab	-	-	-	-	742 934	395 178	1 138 112	5.6
45	Machinery and Machines	550	78	250	-	9 007	9 172	19 057	0.1
46	Cement	102 620	1 221 497	-	-	-	-	1 324 117	6.5
47	Cement Clinker	-	1 219 700	-	-	29 733	75 040	1 324 473	6.5
48	Woodpulp	-	3 184	-	-	-	149 193	152 377	0.7
49	Newsprint and Paper Products	-	-	-	-	4	-	4	0.0
50	Syrup and Molasses	-	-	-	-	-	-	-	-
51	Sugar	102 540	-	-	-	447 464	8 513	558 517	2.7
52	Food Products	-	-	-	-	-	-	-	-
53	Furnace Slags	130 379	353 512	-	-	-	131 494	615 385	3.0
54	Scrap Iron and Steel	-	83 128	-	-	-	-	83 128	0.4
55	Other Manufactures and Misc. (1)	149 055	681	-	-	216 162	41 443	407 341	2.0
56	<b>Total Manufactures and Misc.</b>	1 219 946	2 990 849	131 088	-	2 874 495	2 773 039	9 989 417	49.0
57	<b>GRAND TOTAL</b>	7 312 396	6 652 244	153 658	-	3 083 498	3 172 824	20 374 620	100.0

(1) Includes unclassified cargoes

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2002**

**TABLE C3 - Part B**

**ST. LAWRENCE SEAWAY**

		DOWNBOUND TONNES						TOTAL DOWN- BOUND	% OF TOTAL DOWN BOUND	GRAND TOTALS		NO.
from:	CANADA			UNITED STATES			TOTAL CARGO TONNES			% OF TOTAL		
	to:	Canada	United States	Foreign	Canada	United States					Foreign	
		3 065 974	-	1 123 851	451 376	-	1 413 475	6 054 676	28.8	6 087 099	14.7	1
		78 667	-	34 090	805 481	-	198 465	1 116 703	5.3	1 116 703	2.7	2
		-	-	-	-	-	-	-	-	-	-	3
		-	-	2 291	-	-	-	2 291	0.0	109 968	0.3	4
		1 770	-	114 193	-	-	24 451	140 414	0.7	140 414	0.3	5
		1 865	-	208 316	-	-	-	210 181	1.0	210 181	0.5	6
		3 185	-	-	-	-	-	3 185	0.0	3 185	0.0	7
		-	-	-	-	-	-	-	-	-	-	8
		265 675	-	136 254	1 003 207	-	507 229	1 912 365	9.1	1 912 365	4.6	9
		3 912	-	46 347	-	-	-	50 259	0.2	50 259	0.1	10
		-	-	62 676	-	-	2 088	64 764	0.3	64 764	0.2	11
		5 100	-	529 253	-	-	69 736	604 089	2.9	604 089	1.5	12
		-	-	-	-	-	-	-	-	-	-	13
		-	-	66 659	-	-	120 795	187 454	0.9	187 454	0.5	14
		3 426 148	-	2 323 930	2 260 064	-	2 336 239	10 346 381	49.2	10 486 481	25.3	15
		-	-	-	-	-	-	-	-	-	-	16
		-	-	-	-	-	-	-	-	-	-	17
		-	-	26 079	-	-	5 172	31 251	0.1	31 251	0.1	18
		-	-	26 079	-	-	5 172	31 251	0.1	31 251	0.1	19
		446 126	-	-	3 667 966	-	-	4 114 092	19.6	4 114 092	9.9	20
		105 939	-	53 538	640 971	-	90 044	890 492	4.2	1 227 534	3.0	21
		-	-	-	1 389 735	-	-	1 389 735	6.6	9 640 306	23.3	22
		-	-	-	-	-	-	-	-	87 912	0.2	23
		-	-	-	7 851	-	93 601	101 452	0.5	110 613	0.3	24
		-	-	-	165 560	-	-	165 560	0.8	189 965	0.5	25
		314 917	-	-	12 256	-	-	327 173	1.6	739 559	1.8	26
		1 447 149	96 498	-	341 049	-	-	1 884 696	9.0	1 921 757	4.6	27
		68 315	9 113	19 729	-	-	-	97 157	0.5	97 157	0.2	28
		-	-	-	-	-	-	-	-	520 951	1.3	29
		31 597	-	-	87 633	-	-	119 230	0.6	228 888	0.6	30
		64 433	-	-	-	-	15 112	79 545	0.4	436 695	1.1	31
		2 478 476	105 611	73 267	6 313 021	-	198 757	9 169 132	43.6	19 315 429	46.7	32
		-	-	147	-	-	-	147	0.0	98 944	0.2	33
		-	-	-	-	-	-	-	-	9	0.0	34
		-	-	147	-	-	-	147	0.0	98 953	0.2	35
		-	-	-	-	-	-	-	-	722 291	1.7	36
		349 446	2 561	-	36 334	-	-	388 341	1.8	525 688	1.3	37
		16 722	2 502	32 804	-	-	-	52 028	0.2	72 990	0.2	38
		140 517	80 052	172 936	22 116	-	-	415 621	2.0	678 876	1.6	39
		-	-	-	-	-	-	-	-	76 218	0.2	40
		33 313	-	-	-	-	-	33 313	0.2	33 313	0.1	41
		-	-	-	-	-	-	-	-	232 784	0.6	42
		38	-	15 463	-	-	-	15 501	0.1	2 929 550	7.1	43
		-	-	-	-	-	-	-	-	1 138 112	2.7	44
		429	-	756	-	-	-	1 185	0.0	20 242	0.0	45
		68 042	-	-	-	-	-	68 042	0.3	1 392 159	3.4	46
		-	-	-	-	-	-	-	-	1 324 473	3.2	47
		-	-	66 918	-	-	-	66 918	0.3	219 295	0.5	48
		-	-	-	-	-	-	-	-	4	0.0	49
		-	-	-	-	-	-	-	-	-	-	50
		-	-	-	-	-	-	-	-	558 517	1.3	51
		-	-	68	-	-	-	68	0.0	68	0.0	52
		226 283	-	-	-	-	-	226 283	1.1	841 668	2.0	53
		30 533	25 300	-	-	-	-	55 833	0.3	138 961	0.3	54
		46 108	277	4 972	91 505	163	561	143 586	0.7	550 927	1.3	55
		911 431	110 692	293 917	149 955	163	561	1 466 719	7.0	11 456 136	27.7	56
		6 816 055	216 303	2 717 340	8 723 040	163	2 540 729	21 013 630	100.0	41 388 250	100.0	57



## TRAFFIC BY MAJOR 25 CANADIAN PORTS 2002

TABLE C4

ST. LAWRENCE SEAWAY

PORT OR AREA (2)	SHIP- MENTS	CARGO TONNES (1)								
		Bulk	Coal	Grains	Govt. Aid	Con- tainers	General	Steel Slab	Total	%
<b>INBOUND:</b>										
Hamilton	834	7 221 860	2 594 437	82 593	-	139	445 207	584 623	10 928 859	21.9
Port Cartier	93	505 955	-	1 794 529	-	-	2 054	-	2 302 538	4.6
Toronto	104	942 529	-	-	-	-	220 064	-	1 162 593	2.3
Baie Comeau	46	-	-	1 069 036	-	-	-	-	1 069 036	2.1
Quebec City	50	159 954	-	854 110	-	-	-	-	1 014 064	2.0
Montreal	55	301 157	-	565 204	-	-	-	-	866 361	1.7
Côte Ste Catherine	67	710 332	81 015	5 677	-	1 295	27 960	-	826 279	1.7
Nanticoke	31	746 088	-	-	-	-	389	-	746 477	1.5
Port Credit	26	-	679 426	-	-	-	-	-	679 426	1.4
Clarkson	26	367 584	158 791	-	-	-	-	-	526 375	1.1
Bowmanville	19	325 342	124 707	-	-	-	-	-	450 049	0.9
Sault Ste Marie	39	154 424	-	-	-	-	115 532	158 311	428 267	0.9
Rameys Bend	27	-	-	382 327	-	-	-	-	382 327	0.8
Valleyfield	69	252 972	16 071	25 317	-	157	48 081	-	342 598	0.7
Sorel	23	-	20 496	312 928	-	-	-	-	333 424	0.7
Trois Rivières	22	69 507	80 021	161 848	-	-	-	-	311 376	0.6
Windsor	54	128 682	-	-	-	7	178 394	-	307 083	0.6
Pictou	12	147 900	147 363	-	-	-	-	-	295 263	0.6
Johnstown	11	278 342	-	-	-	-	-	-	278 342	0.6
Sarnia	32	254 508	-	-	-	-	106	-	254 614	0.5
Oshawa	39	108 877	-	-	-	-	122 754	-	231 631	0.5
Halifax	16	38	25 232	202 550	-	-	-	-	227 820	0.5
Morrisburg	11	201 017	-	-	-	-	-	-	201 017	0.4
Mississauga	23	196 668	-	-	-	-	-	-	196 668	0.4
Oakville	21	188 758	-	-	-	-	-	-	188 758	0.4
Other Canada	183	1 081 192	186 533	254 367	-	11 631	3 679	-	1 537 402	3.1
<b>Total Inbound</b>	<b>1 933</b>	<b>14 343 686</b>	<b>4 114 092</b>	<b>5 710 486</b>	<b>-</b>	<b>13 229</b>	<b>1 164 220</b>	<b>742 934</b>	<b>26 088 647</b>	<b>52.4</b>
<b>OUTBOUND:</b>										
Thunder Bay	326	305 778	446 126	5 138 090	-	-	-	-	5 889 994	11.8
Pointe Noire	153	3 998 185	-	-	-	-	-	-	3 998 185	8.0
Port Cartier	93	2 364 493	-	-	-	-	-	-	2 364 493	4.7
Sept-Iles	47	1 257 496	-	-	-	-	-	-	1 257 496	2.5
Bowmanville	92	1 253 941	-	-	-	-	-	-	1 253 941	2.5
Quebec City	64	1 162 080	-	37 327	-	-	-	-	1 199 407	2.4
Windsor	69	834 604	-	249 395	-	-	-	-	1 083 999	2.2
Hamilton	101	732 226	-	116 240	-	974	19 915	-	869 355	1.7
Goderich	52	719 999	-	105 677	15 000	-	-	-	840 676	1.7
Pictou	53	624 262	-	-	-	-	-	-	624 262	1.3
Montreal	74	582 686	-	-	-	-	-	-	582 686	1.2
Rameys Bend	33	389 624	-	-	-	-	-	-	389 624	0.8
Bath	63	370 814	-	-	-	-	-	-	370 814	0.7
Meldrum Bay	14	360 637	-	-	-	-	-	-	360 637	0.7
Sault Ste Marie	20	287 459	-	-	-	-	-	-	287 459	0.6
Little Narrows	13	263 529	-	-	-	-	-	-	263 529	0.5
Sarnia	27	134 846	-	109 767	-	-	-	-	244 613	0.5
Halifax	11	243 650	-	-	-	-	-	-	243 650	0.5
Nanticoke	23	224 022	-	-	-	-	-	-	224 022	0.4
Sorel	46	157 781	-	8 500	-	-	78	-	166 359	0.3
Clarkson	12	163 658	-	-	-	-	-	-	163 658	0.3
Amherstburg	21	156 862	-	-	-	-	-	-	156 862	0.3
Come by chance	12	117 846	-	-	-	-	-	-	117 846	0.2
Mississauga	31	106 465	-	-	-	-	-	-	106 465	0.2
Valleyfield	16	86 682	-	-	-	5 010	-	-	91 692	0.2
Other Canada	147	519 664	-	32 558	-	7 750	2 642	-	562 614	1.1
<b>Total Outbound</b>	<b>1 613</b>	<b>17 419 289</b>	<b>446 126</b>	<b>5 797 554</b>	<b>15 000</b>	<b>13 734</b>	<b>22 635</b>	<b>-</b>	<b>23 714 338</b>	<b>47.6</b>
<b>GRAND TOTAL</b>	<b>3 546</b>	<b>31 762 975</b>	<b>4 560 218</b>	<b>11 508 040</b>	<b>15 000</b>	<b>26 963</b>	<b>1 186 855</b>	<b>742 934</b>	<b>49 802 985</b>	<b>100.0</b>

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

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

**TRAFFIC BY MAJOR 25 UNITED STATES PORTS  
2002**

**TABLE C5**

**ST. LAWRENCE SEAWAY**

PORT OR AREA (2)	SHIP- MENTS	CARGO TONNES (1)								
		Bulk	Coal	Grains	Govt. Aid	Con- tainers	General	Steel Slab	Total	%
<b>INBOUND:</b>										
Detroit	262	1 405 362	-	-	-	-	373 395	176 958	1 955 715	9.1
Cleveland	346	1 171 247	-	-	-	-	401 388	23	1 572 658	7.3
Burns Harbour	263	657 383	-	-	-	137	496 655	195 068	1 349 243	6.3
Ashtabula	63	1 233 662	-	-	-	-	52 704	-	1 286 366	6.0
Toledo	121	248 872	-	69 260	-	11	126 198	41	444 382	2.1
Indiana Harbour	21	329 060	-	-	-	-	100 182	-	429 242	2.0
Essexville	21	427 654	-	-	-	-	1 316	-	428 970	2.0
Chicago	74	41 142	-	-	-	-	204 419	5 087	250 648	1.2
Duluth	35	196 416	-	19 110	-	-	26 661	-	242 187	1.1
Gary	9	238 759	-	-	-	-	-	-	238 759	1.1
Huron	11	213 562	-	10 807	-	-	-	-	224 369	1.0
Conneault	8	217 246	-	-	-	-	-	-	217 246	1.0
Milwaukee	84	163 945	-	-	-	95	41 998	213	206 251	1.0
Marinette	21	183 208	-	-	-	-	-	-	183 208	0.9
Lorain	8	172 304	-	-	-	-	-	-	172 304	0.8
Menominee	35	158 838	-	-	-	-	10	-	158 848	0.7
Buffalo	23	126 364	-	16 649	-	-	4 546	-	147 559	0.7
Oswego	20	131 777	-	-	-	-	-	-	131 777	0.6
Ogdensburg	4	96 498	-	-	-	-	-	-	96 498	0.4
Green Bay	14	74 464	-	-	-	-	-	-	74 464	0.3
Lake Michigan	3	22 121	-	-	-	-	-	17 788	39 909	0.2
East Coast	6	38 198	-	-	-	-	277	-	38 475	0.2
Gulf of Mexico	8	31 685	-	-	-	-	-	-	31 685	0.1
Ludington	5	28 407	-	-	-	-	-	-	28 407	0.1
Ferrysburg	2	28 109	-	-	-	-	-	-	28 109	0.1
Other U.S.A. Ports	18	59 962	-	-	-	56	4 237	-	64 255	0.3
<b>Total Inbound</b>	<b>1 485</b>	<b>7 696 245</b>	<b>-</b>	<b>115 826</b>	<b>-</b>	<b>299</b>	<b>1 833 986</b>	<b>395 178</b>	<b>10 041 534</b>	<b>46.8</b>
<b>OUTBOUND (3):</b>										
Duluth	222	783 412	-	2 939 525	-	-	-	-	3 722 937	17.3
Toledo	94	166 239	235 822	1 015 072	-	-	-	-	1 417 133	6.6
Sandusky	46	-	1 210 143	-	-	-	-	-	1 210 143	5.6
Ashtabula	45	-	1 149 051	-	-	-	-	-	1 149 051	5.4
Conneaut	40	-	1 072 950	-	-	-	-	-	1 072 950	5.0
Superior	28	707 775	-	-	-	-	-	-	707 775	3.3
Chicago	23	324 390	-	120 807	-	-	-	-	445 197	2.1
Milwaukee	26	50 417	-	369 582	10 834	-	488	-	431 321	2.0
Fairport City	19	307 111	-	-	-	-	-	-	307 111	1.4
Gary	11	280 822	-	-	-	-	-	-	280 822	1.3
Detroit	29	174 661	-	-	-	25	89	-	174 775	0.8
Burns Harbour	7	-	-	126 802	-	-	-	-	126 802	0.6
Gulf of Mexico	16	112 509	-	-	-	-	256	-	112 765	0.5
Lake Michigan	6	109 721	-	-	-	-	-	-	109 721	0.5
East Coast	2	40 893	-	-	-	-	-	-	40 893	0.2
Cleveland	3	39 360	-	-	-	-	-	-	39 360	0.2
Ludington	6	32 116	-	-	-	-	-	-	32 116	0.1
Port Inland	1	12 256	-	-	-	-	-	-	12 256	0.1
Ogdensburg	3	5 112	-	6 644	-	-	-	-	11 756	0.1
Huron	1	-	-	7 484	-	-	-	-	7 484	0.0
Green Bay	2	3 168	-	-	-	-	-	-	3 168	0.0
Erie	1	-	-	-	-	-	2 054	-	2 054	0.0
<b>Total Outbound</b>	<b>631</b>	<b>3 149 962</b>	<b>3 667 966</b>	<b>4 585 916</b>	<b>10 834</b>	<b>25</b>	<b>2 887</b>	<b>-</b>	<b>11 417 590</b>	<b>53.2</b>
<b>GRAND TOTAL</b>	<b>2 116</b>	<b>10 846 207</b>	<b>3 667 966</b>	<b>4 701 742</b>	<b>10 834</b>	<b>324</b>	<b>1 836 873</b>	<b>395 178</b>	<b>21 459 124</b>	<b>100.0</b>

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

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

(3) This year there are only 22 ports in the outbound section.

**TRAFFIC RESULTS  
1983 - 2002**

**TABLE C6**

**ST. LAWRENCE SEAWAY**

YEAR	VESSEL TRANSITS			CARGO TONNES			GROSS REGISTERED TONNAGE		
	Upbound	Downbound	Total	Upbound	Downbound	Total	Upbound	Downbound	Total
1983	2 629	2 611	5 240	16 799 443	39 181 910	55 981 353	32 256 617	31 755 291	64 011 908
1984	2 681	2 641	5 322	19 984 880	40 944 288	60 929 168	34 056 771	33 342 809	67 399 580
1985	2 243	2 185	4 428	16 307 416	32 246 874	48 554 290	27 953 450	27 039 682	54 993 132
1986	2 344	2 258	4 602	16 306 485	32 264 732	48 571 217	28 865 047	28 050 099	56 915 146
1987	2 351	2 238	4 589	18 647 923	32 005 339	50 653 262	28 772 497	27 518 198	56 290 695
1988	2 320	2 260	4 580	20 543 989	31 933 347	52 477 336	28 251 634	27 442 545	55 694 179
1989	2 100	2 083	4 183	19 415 461	28 946 228	48 361 689	25 218 762	25 219 816	50 438 578
1990	2 164	2 126	4 290	19 758 502	28 648 369	48 406 871	25 068 643	24 536 448	49 605 091
1991	2 152	2 103	4 255	14 574 623	30 612 638	45 187 261	25 319 458	24 528 868	49 848 326
1992	1 935	1 903	3 838	16 179 879	26 156 107	42 335 986	22 741 885	22 357 721	45 099 606
1993	1 787	1 763	3 550	19 693 203	21 291 668	40 984 871	20 942 313	20 435 090	41 377 403
1994	2 045	2 014	4 059	24 429 448	24 461 658	48 891 106	24 388 400	23 936 121	48 324 521
1995	1 969	1 899	3 868	20 485 138	27 638 877	48 124 015	24 896 719	23 870 958	48 767 677
1996	2 015	1 938	3 953	24 319 878	25 619 327	49 939 205	25 974 980	24 572 584	50 547 564
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
<b>TOTAL</b>	<b>43 449</b>	<b>42 552</b>	<b>86 001</b>	<b>401 485 624</b>	<b>565 522 564</b>	<b>967 008 188</b>	<b>518 235 950</b>	<b>505 219 588</b>	<b>1 023 455 538</b>

**CARGO BY TARIFF CLASSIFICATION  
1983 - 2002**

**TABLE C7**

**ST. LAWRENCE SEAWAY**

YEAR	BULK		COAL		GRAINS		GOVT. AID		CONTAINERS		GENERAL		STEEL SLAB		TOTAL
	Tonnes	%	TONNES	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	TONNES
1983	26 969 832	48.2	N/A	-	25 372 045	45.3	294 379	0.5	60 073	0.1	3 285 024	5.9	N/A	-	55 981 353
1984	31 203 330	51.2	N/A	-	24 556 241	40.3	231 107	0.4	140 684	0.2	4 797 806	7.9	N/A	-	60 929 168
1985	26 827 670	55.3	N/A	-	17 418 609	35.9	261 917	0.5	113 671	0.2	3 932 423	8.1	N/A	-	48 554 290
1986	27 156 533	55.9	N/A	-	17 175 451	35.4	227 670	0.5	59 943	0.1	3 951 620	8.1	N/A	-	48 571 217
1987	27 187 830	53.7	N/A	-	19 208 840	37.9	211 044	0.4	42 945	0.1	4 002 603	7.9	N/A	-	50 653 262
1988	31 646 241	60.3	N/A	-	16 138 512	30.7	87 456	0.2	38 853	0.1	4 566 274	8.7	N/A	-	52 477 336
1989	31 552 895	65.2	N/A	-	12 196 741	25.2	168 750	0.4	31 728	0.1	4 411 575	9.1	N/A	-	48 361 689
1990	31 700 610	65.5	N/A	-	12 841 740	26.5	87 737	0.2	23 918	0.0	3 752 866	7.8	N/A	-	48 406 871
1991	25 478 640	56.4	N/A	-	16 010 432	35.4	159 449	0.4	20 472	0.0	3 518 268	7.8	N/A	-	45 187 261
1992	26 076 870	61.6	N/A	-	12 856 280	30.3	89 273	0.2	23 577	0.1	3 289 986	7.8	N/A	-	42 335 986
1993	25 259 176	61.6	N/A	-	11 278 837	27.5	54 905	0.1	29 636	0.1	4 362 317	10.7	N/A	-	40 984 871
1994	28 030 480	57.3	N/A	-	13 787 626	28.2	54 768	0.1	17 799	0.0	7 000 433	14.3	N/A	-	48 891 106
1995	28 188 111	58.6	N/A	-	15 158 613	31.5	35 964	0.1	25 060	0.1	4 716 267	9.8	N/A	-	48 124 015
1996	31 240 673	62.6	N/A	-	12 788 770	25.6	-	-	15 075	0.0	5 894 687	11.8	N/A	-	49 939 205
1997	29 965 961	61.2	N/A	-	13 862 565	28.3	-	-	11 816	0.0	5 112 553	10.5	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
<b>TOTAL</b>	<b>552 323 795</b>	<b>57.1</b>	<b>17 804 815</b>	<b>1.8</b>	<b>303 641 871</b>	<b>31.4</b>	<b>2 111 428</b>	<b>0.2</b>	<b>722 747</b>	<b>0.1</b>	<b>88 107 680</b>	<b>9.1</b>	<b>2 295 852</b>	<b>0.2</b>	<b>967 008 188</b>

**PART III**

**ST. LAWRENCE SEAWAY**

**TOLL TRAFFIC**

**FOR THE**

**MONTREAL - LAKE ONTARIO SECTION**

**TRAFFIC BY CLASS AND TYPE OF VESSEL  
2002**

**TABLE M1**

**MONTREAL-LAKE ONTARIO SECTION**

CLASS AND TYPE OF VESSEL	VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES								
	Loaded	Ballast	Total		Bulk	Coal	Grains	Govt. Aid	Con-tainers	General	Steel Slab	Total	%
<b>UPBOUND:</b>													
Ocean: Cargo	435	23	458	6 778 863	1 818 118	-	77 624	-	1 455	2 994 071	1 138 112	6 029 380	20.1
Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanker	96	15	111	808 662	785 031	-	-	-	-	-	-	785 031	2.6
<b>Total Ocean</b>	<b>531</b>	<b>38</b>	<b>569</b>	<b>7 587 525</b>	<b>2 603 149</b>	<b>-</b>	<b>77 624</b>	<b>-</b>	<b>1 455</b>	<b>2 994 071</b>	<b>1 138 112</b>	<b>6 814 411</b>	<b>22.7</b>
Laker: Cargo	390	50	440	7 223 357	9 379 269	-	45 827	-	959	-	-	9 426 055	31.4
Barge	40	23	63	395 398	427 376	-	-	-	-	1 316	-	428 692	1.4
Tanker	27	22	49	322 127	235 106	-	-	-	-	-	-	235 106	0.8
<b>Total Laker</b>	<b>457</b>	<b>95</b>	<b>552</b>	<b>7 940 882</b>	<b>10 041 751</b>	<b>-</b>	<b>45 827</b>	<b>-</b>	<b>959</b>	<b>1 316</b>	<b>-</b>	<b>10 089 853</b>	<b>33.6</b>
Non-Cargo	-	131	131	73 780	-	-	-	-	-	-	-	-	-
Passenger	34	14	48	40 697	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>	<b>1 022</b>	<b>278</b>	<b>1 300</b>	<b>15 642 884</b>	<b>12 644 900</b>	<b>-</b>	<b>123 451</b>	<b>-</b>	<b>2 414</b>	<b>2 995 387</b>	<b>1 138 112</b>	<b>16 904 264</b>	<b>56.3</b>
<b>DOWNBOUND:</b>													
Ocean: Cargo	345	111	456	6 742 694	537 278	-	4 634 782	25 834	6 127	23 853	-	5 227 874	17.4
Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanker	46	66	112	813 959	242 303	-	-	-	-	-	-	242 303	0.8
<b>Total Ocean</b>	<b>391</b>	<b>177</b>	<b>568</b>	<b>7 556 653</b>	<b>779 581</b>	<b>-</b>	<b>4 634 782</b>	<b>25 834</b>	<b>6 127</b>	<b>23 853</b>	<b>-</b>	<b>5 470 177</b>	<b>18.2</b>
Laker: Cargo	318	127	445	7 307 469	1 816 387	336 425	5 088 162	-	6 180	19	-	7 247 173	24.2
Barge	25	45	70	440 750	164 941	-	17 517	-	-	-	-	182 458	0.6
Tanker	26	23	49	322 127	198 220	-	-	-	-	-	-	198 220	0.7
<b>Total Laker</b>	<b>369</b>	<b>195</b>	<b>564</b>	<b>8 070 346</b>	<b>2 179 548</b>	<b>336 425</b>	<b>5 105 679</b>	<b>-</b>	<b>6 180</b>	<b>19</b>	<b>-</b>	<b>7 627 851</b>	<b>25.4</b>
Non-Cargo	-	132	132	71 316	-	-	-	-	-	-	-	-	-
Passenger	36	12	48	41 186	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>	<b>796</b>	<b>516</b>	<b>1 312</b>	<b>15 739 501</b>	<b>2 959 129</b>	<b>336 425</b>	<b>9 740 461</b>	<b>25 834</b>	<b>12 307</b>	<b>23 872</b>	<b>-</b>	<b>13 098 028</b>	<b>43.7</b>
<b>TOTALS:</b>													
Ocean: Cargo	780	134	914	13 521 557	2 355 396	-	4 712 406	25 834	7 582	3 017 924	1 138 112	11 257 254	37.5
Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanker	142	81	223	1 622 621	1 027 334	-	-	-	-	-	-	1 027 334	3.4
<b>Total Ocean</b>	<b>922</b>	<b>215</b>	<b>1 137</b>	<b>15 144 178</b>	<b>3 382 730</b>	<b>-</b>	<b>4 712 406</b>	<b>25 834</b>	<b>7 582</b>	<b>3 017 924</b>	<b>1 138 112</b>	<b>12 284 588</b>	<b>40.9</b>
Laker: Cargo	708	177	885	14 530 826	11 195 656	336 425	5 133 989	-	7 139	19	-	16 673 228	55.6
Barge	65	68	133	836 148	592 317	-	17 517	-	-	1 316	-	611 150	2.0
Tanker	53	45	98	644 254	433 326	-	-	-	-	-	-	433 326	1.4
<b>Total Laker</b>	<b>826</b>	<b>290</b>	<b>1 116</b>	<b>16 011 228</b>	<b>12 221 299</b>	<b>336 425</b>	<b>5 151 506</b>	<b>-</b>	<b>7 139</b>	<b>1 335</b>	<b>-</b>	<b>17 717 704</b>	<b>59.1</b>
Non-Cargo	-	263	263	145 096	-	-	-	-	-	-	-	-	-
Passenger	70	26	96	81 883	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>	<b>1 818</b>	<b>794</b>	<b>2 612</b>	<b>31 382 385</b>	<b>15 604 029</b>	<b>336 425</b>	<b>9 863 912</b>	<b>25 834</b>	<b>14 721</b>	<b>3 019 259</b>	<b>1 138 112</b>	<b>30 002 292</b>	<b>100.0</b>

**TRAFFIC BY CLASSIFICATION AND TYPE OF CARGO  
2002**

**TABLE M2**

**MONTREAL-LAKE ONTARIO SECTION**

COMMODITY	CARGO TONNES								% of Total
	Bulk	Coal	Grains	Govt. Aid	Con-tainers	General	Steel Slab	Total	
Wheat	-	-	5 858 586	-	-	-	-	5 858 586	19.5
Corn	-	-	815 627	15 000	-	-	-	830 627	2.8
Rye	-	-	-	-	-	-	-	-	-
Oats	-	-	109 968	-	-	-	-	109 968	0.4
Barley	-	-	140 414	-	-	-	-	140 414	0.5
Canola (Rapeseed)	-	-	210 181	-	-	-	-	210 181	0.7
Canola Meal, Pellets	-	-	3 185	-	-	-	-	3 185	0.0
Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-	-
Soybeans	-	-	1 829 772	-	-	-	-	1 829 772	6.1
Soybean Oil Cake, Meal, Pellets	-	-	50 259	-	-	-	-	50 259	0.2
Beans and Peas	-	-	62 676	2 088	-	-	-	64 764	0.2
Flaxseed	-	-	604 089	-	-	-	-	604 089	2.0
Sunflower Seeds	-	-	-	-	-	-	-	-	-
Other Agricultural Products	-	-	179 155	8 299	-	-	-	187 454	0.6
<b>Total Agricultural Products</b>	-	-	9 863 912	25 387	-	-	-	9 889 299	33.0
Packing House Products, Edible	-	-	-	-	-	-	-	-	-
Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-	-
Other Animal Products	30 378	-	-	-	873	-	-	31 251	0.1
<b>Total Animal Products</b>	30 378	-	-	-	873	-	-	31 251	0.1
Bituminous Coal	-	336 425	-	-	-	-	-	336 425	1.1
Coke	847 622	-	-	-	-	-	-	847 622	2.8
Iron Ore	8 166 897	-	-	-	-	-	-	8 166 897	27.2
Aluminum Ore and Concentrates	87 912	-	-	-	-	-	-	87 912	0.3
Clay and Bentonite	110 613	-	-	-	-	-	-	110 613	0.4
Gravel and Sand	24 405	-	-	-	-	-	-	24 405	0.1
Stone	323 541	-	-	-	-	-	-	323 541	1.1
Salt	853 795	-	-	-	-	-	-	853 795	2.8
Potash	52 949	-	-	-	-	-	-	52 949	0.2
Gypsum	520 951	-	-	-	-	-	-	520 951	1.7
Asphalt	171 799	-	-	-	-	-	-	171 799	0.6
Other Mine Products	436 695	-	-	-	-	-	-	436 695	1.5
<b>Total Mine Products</b>	11 597 179	336 425	-	-	-	-	-	11 933 604	39.8
Lumber	98 944	-	-	-	-	-	-	98 944	0.3
Other Forest Products	-	-	-	-	-	9	-	9	0.0
<b>Total Forest Products</b>	98 944	-	-	-	-	9	-	98 953	0.3
Gasoline	722 291	-	-	-	-	-	-	722 291	2.4
Fuel Oil	454 928	-	-	-	-	-	-	454 928	1.5
Other Petroleum Products	72 990	-	-	-	-	-	-	72 990	0.2
Chemicals	557 900	-	-	-	11	-	-	557 911	1.9
Sodium Products	76 218	-	-	-	-	-	-	76 218	0.3
Tar, Pitch and Creosote	-	-	-	-	-	-	-	-	-
Pig Iron	232 784	-	-	-	-	-	-	232 784	0.8
Iron and Steel	38	-	-	-	-	2 929 512	-	2 929 550	9.8
Steel Slab	-	-	-	-	-	-	1 138 112	1 138 112	3.8
Machinery and Machines	979	-	-	-	657	18 606	-	20 242	0.1
Cement	86 187	-	-	-	-	-	-	86 187	0.3
Cement Clinker	226 932	-	-	-	-	-	-	226 932	0.8
Woodpulp	219 295	-	-	-	-	-	-	219 295	0.7
Newsprint and Paper Products	-	-	-	-	-	4	-	4	0.0
Syrup and Molasses	-	-	-	-	-	-	-	-	-
Sugar	558 517	-	-	-	-	-	-	558 517	1.9
Food Products	-	-	-	-	39	29	-	68	0.0
Furnace Slags	235 522	-	-	-	-	-	-	235 522	0.8
Scrap Iron and Steel	55 833	-	-	-	-	-	-	55 833	0.2
Other Manufactures and Misc. (1)	377 114	-	-	447	13 141	71 099	-	461 801	1.5
<b>Total Manufactures and Misc.</b>	3 877 528	-	-	447	13 848	3 019 250	1 138 112	8 049 185	26.8
<b>GRAND TOTAL</b>	<b>15 604 029</b>	<b>336 425</b>	<b>9 863 912</b>	<b>25 834</b>	<b>14 721</b>	<b>3 019 259</b>	<b>1 138 112</b>	<b>30 002 292</b>	<b>100.0</b>

(1) Includes unclassified cargoes

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2002**

**TABLE M3 - Part A**

**MONTREAL-LAKE ONTARIO SECTION**

NO.	COMMODITY	UPBOUND TONNES						TOTAL UP-BOUND	% OF TOTAL UP-BOUND
		CANADA		UNITED STATES		FOREIGN			
		Canada	United States	Canada	United States	Canada	United States		
1	Wheat	15 774	-	-	-	-	-	15 774	0.1
2	Corn	-	-	-	-	-	-	-	-
3	Rye	-	-	-	-	-	-	-	-
4	Oats	8 500	21 553	-	-	-	77 624	107 677	0.6
5	Barley	-	-	-	-	-	-	-	-
6	Canola (Rapeseed)	-	-	-	-	-	-	-	-
7	Canola Meal, Pellets	-	-	-	-	-	-	-	-
8	Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-
9	Soybeans	-	-	-	-	-	-	-	-
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>	24 274	21 553	-	-	-	77 624	123 451	0.7
16	Packing House Products, Edible	-	-	-	-	-	-	-	-
17	Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-
18	Other Animal Products	-	-	-	-	-	-	-	-
19	<b>Total Animal Products</b>	-	-	-	-	-	-	-	-
20	Bituminous Coal	-	-	-	-	-	-	-	-
21	Coke	174 047	58 147	22 570	-	-	-	254 764	1.5
22	Iron Ore	5 292 466	2 874 431	-	-	-	-	8 166 897	48.3
23	Aluminum Ore and Concentrates	-	-	-	-	33 979	53 933	87 912	0.5
24	Clay and Bentonite	-	-	-	-	4 362	4 799	9 161	0.1
25	Gravel and Sand	-	-	-	-	8 295	16 110	24 405	0.1
26	Stone	-	-	-	-	-	-	-	-
27	Salt	33 061	-	-	-	-	4 000	37 061	0.2
28	Potash	-	-	-	-	-	-	-	-
29	Gypsum	520 951	-	-	-	-	-	520 951	3.1
30	Asphalt	24 649	75 062	-	-	-	9 947	109 658	0.6
31	Other Mine Products	23 002	37 215	-	-	152 717	144 216	357 150	2.1
32	<b>Total Mine Products</b>	6 068 176	3 044 855	22 570	-	199 353	233 005	9 567 959	56.6
33	Lumber	-	-	-	-	9 650	89 147	98 797	0.6
34	Other Forest Products	-	-	-	-	-	9	9	0.0
35	<b>Total Forest Products</b>	-	-	-	-	9 650	89 156	98 806	0.6
36	Gasoline	598 587	-	-	-	123 704	-	722 291	4.3
37	Fuel Oil	121 575	6 907	-	-	-	-	128 482	0.8
38	Other Petroleum Products	-	-	20 962	-	-	-	20 962	0.1
39	Chemicals	-	-	35 783	-	186 626	40 846	263 255	1.6
40	Sodium Products	-	-	74 087	-	2 131	-	76 218	0.5
41	Tar, Pitch and Creosote	-	-	-	-	-	-	-	-
42	Pig Iron	5 775	101 527	-	-	-	125 482	232 784	1.4
43	Iron & Steel	-	635	6	-	1 116 730	1 796 678	2 914 049	17.2
44	Steel Slab	-	-	-	-	742 934	395 178	1 138 112	6.7
45	Machinery and Machines	550	78	250	-	9 007	9 172	19 057	0.1
46	Cement	18 145	-	-	-	-	-	18 145	0.1
47	Cement Clinker	-	122 159	-	-	29 733	75 040	226 932	1.3
48	Woodpulp	-	3 184	-	-	-	149 193	152 377	0.9
49	Newsprint and Paper Products	-	-	-	-	4	-	4	0.0
50	Syrup and Molasses	-	-	-	-	-	-	-	-
51	Sugar	102 540	-	-	-	447 464	8 513	558 517	3.3
52	Food Products	-	-	-	-	-	-	-	0.0
53	Furnace Slags	-	104 028	-	-	-	131 494	235 522	1.4
54	Scrap Iron and Steel	-	-	-	-	-	-	-	-
55	Other Manufactures and Misc. (1)	149 055	681	-	-	216 162	41 443	407 341	2.4
56	<b>Total Manufactures and Misc.</b>	996 227	339 199	131 088	-	2 874 495	2 773 039	7 114 048	42.1
57	<b>GRAND TOTAL</b>	7 088 677	3 405 607	153 658	-	3 083 498	3 172 824	16 904 264	100.0

(1) Includes unclassified cargoes



**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2002**

**TABLE M3 - Part B**

**MONTREAL-LAKE ONTARIO SECTION**

		DOWNBOUND TONNES						TOTAL	% OF TOTAL DOWN- BOUND	GRAND TOTALS		NO.
from:		CANADA			UNITED STATES					TOTAL CARGO TONNES	% OF TOTAL	
to:		Canada	United States	Foreign	Canada	United States	Foreign					
		2 854 110	-	1 123 851	451 376	-	1 413 475	5 842 812	44.6	5 858 586	19.5	1
		78 667	-	34 090	519 405	-	198 465	830 627	6.3	830 627	2.8	2
		-	-	-	-	-	-	-	-	-	-	3
		-	-	2 291	-	-	-	2 291	0.0	109 968	0.4	4
		1 770	-	114 193	-	-	24 451	140 414	1.1	140 414	0.5	5
		1 865	-	208 316	-	-	-	210 181	1.6	210 181	0.7	6
		3 185	-	-	-	-	-	3 185	0.0	3 185	0.0	7
		-	-	-	-	-	-	-	-	-	-	8
		255 425	-	136 254	930 864	-	507 229	1 829 772	14.0	1 829 772	6.1	9
		3 912	-	46 347	-	-	-	50 259	0.4	50 259	0.2	10
		-	-	62 676	-	-	2 088	64 764	0.5	64 764	0.2	11
		5 100	-	529 253	-	-	69 736	604 089	4.6	604 089	2.0	12
		-	-	-	-	-	-	-	-	-	-	13
		-	-	66 659	-	-	120 795	187 454	1.4	187 454	0.6	14
		3 204 034	-	2 323 930	1 901 645	-	2 336 239	9 765 848	74.6	9 889 299	33.0	15
		-	-	-	-	-	-	-	-	-	-	16
		-	-	-	-	-	-	-	-	-	-	17
		-	-	26 079	-	-	5 172	31 251	0.2	31 251	0.1	18
		-	-	26 079	-	-	5 172	31 251	0.2	31 251	0.1	19
		-	-	-	336 425	-	-	336 425	2.6	336 425	1.1	20
		105 939	-	53 538	343 337	-	90 044	592 858	4.5	847 622	2.8	21
		-	-	-	-	-	-	-	-	8 166 897	27.2	22
		-	-	-	-	-	-	-	-	87 912	0.3	23
		-	-	-	7 851	-	93 601	101 452	0.8	110 613	0.4	24
		-	-	-	-	-	-	-	-	24 405	0.1	25
		311 285	-	-	12 256	-	-	323 541	2.5	323 541	1.1	26
		747 263	-	-	69 471	-	-	816 734	6.2	853 795	2.8	27
		33 220	-	19 729	-	-	-	52 949	0.4	52 949	0.2	28
		-	-	-	-	-	-	-	-	520 951	1.7	29
		15 404	-	-	46 737	-	-	62 141	0.5	171 799	0.6	30
		64 433	-	-	-	-	15 112	79 545	0.6	436 695	1.5	31
		1 277 544	-	73 267	816 077	-	198 757	2 365 645	18.1	11 933 604	39.8	32
		-	-	147	-	-	-	147	0.0	98 944	0.3	33
		-	-	-	-	-	-	-	-	9	0.0	34
		-	-	147	-	-	-	147	0.0	98 953	0.3	35
		-	-	-	-	-	-	-	-	722 291	2.4	36
		304 013	2 561	-	19 872	-	-	326 446	2.5	454 928	1.5	37
		16 722	2 502	32 804	-	-	-	52 028	0.4	72 990	0.2	38
		72 254	39 357	172 936	10 109	-	-	294 656	2.2	557 911	1.9	39
		-	-	-	-	-	-	-	-	76 218	0.3	40
		-	-	-	-	-	-	-	-	-	-	41
		-	-	-	-	-	-	-	-	232 784	0.8	42
		38	-	15 463	-	-	-	15 501	0.1	2 929 550	9.8	43
		-	-	-	-	-	-	-	-	1 138 112	3.8	44
		429	-	756	-	-	-	1 185	0.0	20 242	0.1	45
		68 042	-	-	-	-	-	68 042	0.5	86 187	0.3	46
		-	-	-	-	-	-	-	-	226 932	0.8	47
		-	-	66 918	-	-	-	66 918	0.5	219 295	0.7	48
		-	-	-	-	-	-	-	-	4	0.0	49
		-	-	-	-	-	-	-	-	-	-	50
		-	-	-	-	-	-	-	-	558 517	1.9	51
		-	-	68	-	-	-	68	0.0	68	0.0	52
		-	-	-	-	-	-	-	-	235 522	0.8	53
		30 533	25 300	-	-	-	-	55 833	0.4	55 833	0.2	54
		46 108	277	4 972	2 542	-	561	54 460	0.4	461 801	1.5	55
		538 139	69 997	293 917	32 523	-	561	935 137	7.1	8 049 185	26.8	56
		5 019 717	69 997	2 717 340	2 750 245	-	2 540 729	13 098 028	100.0	30 002 292	100.0	57

**TRAFFIC BY MONTH AND TYPE OF CARGO  
2002**

**TABLE M4**

**MONTREAL-LAKE ONTARIO SECTION**

DIRECTION AND MONTH	VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES								
	Loaded	Ballast	Total		Bulk	Coal	Grains	Govt. Aid	Con- tainers	General	Steel Slab	Total	%
<b>UPBOUND:</b>													
March	10	4	14	194 905	118 311	-	-	-	-	28 964	-	147 275	0.5
April	82	24	106	1 357 916	1 135 024	-	-	-	32	184 873	42 111	1 362 040	4.5
May	119	39	158	1 800 092	1 499 848	-	-	22 014	122	327 362	94 370	1 943 716	6.5
June	115	38	153	1 724 640	1 325 960	-	-	15 000	-	302 243	194 001	1 837 204	6.1
July	114	29	143	1 628 028	1 280 217	-	-	-	11	419 479	134 039	1 833 746	6.1
August	126	31	157	1 753 142	1 313 142	-	-	8 500	461	426 679	137 523	1 886 305	6.3
September	124	29	153	1 799 149	1 559 699	-	-	21 500	1 119	239 085	196 935	2 018 338	6.7
October	128	40	168	2 062 669	1 575 388	-	-	56 437	217	382 530	188 556	2 203 128	7.3
November	138	24	162	2 101 930	1 741 074	-	-	-	445	495 135	140 503	2 377 157	7.9
December	66	20	86	1 220 413	1 096 237	-	-	-	7	189 037	10 074	1 295 355	4.3
January	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>	1 022	278	1 300	15 642 884	12 644 900	-	-	123 451	2 414	2 995 387	1 138 112	16 904 264	56.3
<b>DOWNBOUND:</b>													
March	2	2	4	75 394	-	-	45 457	-	-	-	-	45 457	0.2
April	66	33	99	1 222 034	243 834	27 242	914 196	-	306	154	-	1 185 732	4.0
May	90	62	152	1 701 850	332 359	59 231	1 177 358	-	-	15 463	-	1 584 411	5.3
June	95	65	160	1 755 289	267 713	27 268	1 076 124	-	2 791	823	-	1 374 719	4.6
July	76	69	145	1 717 473	256 830	34 281	875 776	10 834	2 215	2 949	-	1 182 885	3.9
August	73	86	159	1 707 164	210 398	26 941	811 065	-	2 551	7	-	1 050 962	3.5
September	81	68	149	1 723 616	475 413	58 415	676 569	15 000	3 291	266	-	1 228 954	4.1
October	113	56	169	2 073 003	408 343	27 587	1 454 798	-	798	5	-	1 891 531	6.3
November	98	47	145	1 886 875	316 321	48 554	1 402 131	-	125	3 946	-	1 771 077	5.9
December	102	28	130	1 876 803	447 918	26 906	1 306 987	-	230	259	-	1 782 300	5.9
January	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>	796	516	1 312	15 739 501	2 959 129	336 425	9 740 461	25 834	12 307	23 872	-	13 098 028	43.7
<b>TOTALS:</b>													
March	12	6	18	270 299	118 311	-	45 457	-	-	28 964	-	192 732	0.6
April	148	57	205	2 579 950	1 378 858	27 242	914 196	-	338	185 027	42 111	2 547 772	8.5
May	209	101	310	3 501 942	1 832 207	59 231	1 199 372	-	122	342 825	94 370	3 528 127	11.8
June	210	103	313	3 479 929	1 593 673	27 268	1 091 124	-	2 791	303 066	194 001	3 211 923	10.7
July	190	98	288	3 345 501	1 537 047	34 281	875 776	10 834	2 226	422 428	134 039	3 016 631	10.1
August	199	117	316	3 460 306	1 523 540	26 941	819 565	-	3 012	426 686	137 523	2 937 267	9.8
September	205	97	302	3 522 765	2 035 112	58 415	698 069	15 000	4 410	239 351	196 935	3 247 292	10.8
October	241	96	337	4 135 672	1 983 731	27 587	1 511 235	-	1 015	382 535	188 556	4 094 659	13.6
November	236	71	307	3 988 805	2 057 395	48 554	1 402 131	-	570	499 081	140 503	4 148 234	13.8
December	168	48	216	3 097 216	1 544 155	26 906	1 306 987	-	237	189 296	10 074	3 077 655	10.3
January	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>	1 818	794	2 612	31 382 385	15 604 029	336 425	9 863 912	25 834	14 721	3 019 259	1 138 112	30 002 292	100.0

**TRAFFIC RESULTS  
1983 - 2002**

**TABLE M5**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	VESSEL TRANSITS			CARGO TONNES			GROSS REGISTERED TONNAGE		
	Upbound	Downbound	Total	Upbound	Downbound	Total	Upbound	Downbound	Total
1983	1 931	1 939	3 870	15 579 017	29 481 964	45 060 981	24 194 830	24 155 396	48 350 226
1984	1 878	1 881	3 759	18 636 683	28 868 773	47 505 456	24 133 253	24 198 087	48 331 340
1985	1 538	1 550	3 088	14 825 309	22 496 389	37 321 698	19 348 019	19 581 652	38 929 671
1986	1 663	1 644	3 307	14 646 185	22 935 623	37 581 808	20 702 503	20 768 506	41 471 009
1987	1 614	1 613	3 227	16 810 464	23 158 151	39 968 615	20 135 888	20 350 874	40 486 762
1988	1 576	1 566	3 142	18 654 260	21 903 409	40 557 669	19 505 633	19 433 211	38 938 844
1989	1 375	1 393	2 768	17 527 216	19 543 154	37 070 370	17 388 156	17 751 692	35 139 848
1990	1 389	1 379	2 768	17 647 222	19 008 717	36 655 939	17 004 251	16 884 323	33 888 574
1991	1 432	1 427	2 859	12 980 554	21 929 889	34 910 443	17 749 725	17 645 476	35 395 201
1992	1 250	1 243	2 493	13 991 464	17 368 702	31 360 166	15 346 970	15 267 842	30 614 812
1993	1 149	1 156	2 305	17 026 988	14 943 483	31 970 471	14 996 361	15 041 759	30 038 120
1994	1 423	1 434	2 857	21 017 489	17 404 635	38 422 124	18 794 120	18 947 491	37 741 611
1995	1 392	1 385	2 777	17 352 381	21 332 380	38 684 761	18 986 120	18 963 526	37 949 646
1996	1 358	1 349	2 707	20 652 379	17 422 753	38 075 132	18 314 343	18 131 262	36 445 605
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
<b>TOTAL</b>	<b>29 613</b>	<b>29 626</b>	<b>59 239</b>	<b>350 021 021</b>	<b>393 369 683</b>	<b>743 390 704</b>	<b>373 076 435</b>	<b>373 672 252</b>	<b>746 748 687</b>

**CARGO BY TARIFF CLASSIFICATION  
1983 - 2002**

**TABLE M6**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	BULK		COAL		GRAINS		GOVT. AID		CONTAINERS		GENERAL		STEEL SLAB		TOTAL TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1983	17 158 894	38.1	N/A	-	24 262 669	53.8	294 379	0.7	60 073	0.1	3 284 966	7.3	N/A	-	45 060 981
1984	18 835 140	39.6	N/A	-	23 500 719	49.5	231 107	0.5	140 684	0.3	4 797 806	10.1	N/A	-	47 505 456
1985	16 638 709	44.6	N/A	-	16 374 978	43.9	261 917	0.7	113 671	0.3	3 932 423	10.5	N/A	-	37 321 698
1986	16 988 516	45.2	N/A	-	16 354 059	43.5	227 670	0.6	59 943	0.2	3 951 620	10.5	N/A	-	37 581 808
1987	17 387 886	43.5	N/A	-	18 324 137	45.8	211 044	0.5	42 945	0.1	4 002 603	10.0	N/A	-	39 968 615
1988	20 396 561	50.3	N/A	-	15 468 940	38.1	87 456	0.2	38 853	0.1	4 565 859	11.3	N/A	-	40 557 669
1989	21 010 319	56.7	N/A	-	11 448 020	30.9	168 750	0.5	31 728	0.1	4 411 553	11.9	N/A	-	37 070 370
1990	20 562 535	56.1	N/A	-	12 229 063	33.4	87 737	0.2	23 918	0.1	3 752 686	10.2	N/A	-	36 655 939
1991	15 771 687	45.2	N/A	-	15 444 845	44.2	159 449	0.5	20 472	0.1	3 513 990	10.1	N/A	-	34 910 443
1992	15 712 016	50.1	N/A	-	12 245 314	39.0	89 273	0.3	23 577	0.1	3 289 986	10.5	N/A	-	31 360 166
1993	16 671 366	52.1	N/A	-	10 852 996	33.9	54 905	0.2	29 636	0.1	4 361 568	13.6	N/A	-	31 970 471
1994	18 104 743	47.1	N/A	-	13 245 446	34.5	54 768	0.1	16 923	0.0	7 000 244	18.2	N/A	-	38 422 124
1995	19 320 911	49.9	N/A	-	14 587 031	37.7	35 964	0.1	25 060	0.1	4 715 795	12.2	N/A	-	38 684 761
1996	19 864 497	52.2	N/A	-	12 303 449	32.3	-	-	15 075	0.0	5 892 111	15.5	N/A	-	38 075 132
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
<b>TOTAL</b>	<b>358 651 055</b>	<b>48.2</b>	<b>1 344 614</b>	<b>0.2</b>	<b>290 170 061</b>	<b>39.0</b>	<b>2 111 428</b>	<b>0.3</b>	<b>721 871</b>	<b>0.1</b>	<b>88 095 823</b>	<b>11.9</b>	<b>2 295 852</b>	<b>0.3</b>	<b>743 390 704</b>

**VESSEL TRANSITS  
1983 - 2002**

**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
1983	15 579 017	955	976	1 931	29 481 964	1 770	169	1 939	45 060 981	2 725	1 145	3 870
1984	18 636 683	1 119	759	1 878	28 868 773	1 694	187	1 881	47 505 456	2 813	946	3 759
1985	14 825 309	924	614	1 538	22 496 389	1 361	189	1 550	37 321 698	2 285	803	3 088
1986	14 646 185	971	692	1 663	22 935 623	1 404	240	1 644	37 581 808	2 375	932	3 307
1987	16 810 464	1 054	560	1 614	23 158 151	1 313	300	1 613	39 968 615	2 367	860	3 227
1988	18 654 260	1 131	445	1 576	21 903 409	1 251	315	1 566	40 557 669	2 382	760	3 142
1989	17 527 216	995	380	1 375	19 543 154	1 150	243	1 393	37 070 370	2 145	623	2 768
1990	17 647 222	999	390	1 389	19 008 717	1 105	274	1 379	36 655 939	2 104	664	2 768
1991	12 980 554	791	641	1 432	21 929 889	1 220	207	1 427	34 910 443	2 011	848	2 859
1992	13 991 464	834	416	1 250	17 368 702	1 006	237	1 243	31 360 166	1 840	653	2 493
1993	17 026 988	951	198	1 149	14 943 483	857	299	1 156	31 970 471	1 808	497	2 305
1994	21 017 489	1 170	253	1 423	17 404 635	1 001	433	1 434	38 422 124	2 171	686	2 857
1995	17 352 381	931	461	1 392	21 332 380	1 139	246	1 385	38 684 761	2 070	707	2 777
1996	20 652 379	1 109	249	1 358	17 422 753	987	362	1 349	38 075 132	2 096	611	2 707
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
<b>TOTAL</b>	<b>350 021 021</b>	<b>20 623</b>	<b>8 990</b>	<b>29 613</b>	<b>393 369 683</b>	<b>22 939</b>	<b>6 687</b>	<b>29 626</b>	<b>743 390 704</b>	<b>43 562</b>	<b>15 677</b>	<b>59 239</b>

**COMMODITY GROUPS  
1983 - 2002**

**TABLE M8**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	AGRICULTURAL PRODUCTS		ANIMAL PRODUCTS		MINE PRODUCTS		FOREST PRODUCTS		MANUFACTURES & MISCELLANEOUS		TOTAL TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1983	24 449 080	54.3	95 902	0.2	13 081 176	29.0	24 164	0.1	7 410 659	16.4	45 060 981
1984	23 649 862	49.8	85 109	0.2	14 802 071	31.2	70 517	0.1	8 897 897	18.7	47 505 456
1985	16 486 803	44.2	90 157	0.2	12 491 239	33.5	33 555	0.1	8 219 944	22.0	37 321 698
1986	16 490 065	43.9	67 872	0.2	12 253 937	32.6	7 375	0.0	8 762 559	23.3	37 581 808
1987	18 454 108	46.2	54 982	0.1	13 219 140	33.1	10 987	0.0	8 229 398	20.6	39 968 615
1988	15 545 348	38.3	73 483	0.2	16 220 120	40.0	30 228	0.1	8 688 490	21.4	40 557 669
1989	11 669 000	31.5	71 394	0.2	16 774 670	45.3	47 967	0.1	8 507 339	22.9	37 070 370
1990	12 387 373	33.8	45 992	0.1	16 543 066	45.1	64 676	0.2	7 614 832	20.8	36 655 939
1991	15 532 704	44.5	51 270	0.1	12 362 544	35.4	27 619	0.1	6 936 306	19.9	34 910 443
1992	12 242 050	39.0	83 637	0.3	12 714 825	40.5	13 112	0.0	6 306 542	20.1	31 360 166
1993	10 915 255	34.1	50 028	0.2	13 746 322	43.0	8 283	0.0	7 250 583	22.7	31 970 471
1994	13 280 877	34.6	73 055	0.2	15 032 373	39.1	7 123	0.0	10 028 696	26.1	38 422 124
1995	14 598 465	37.7	100 300	0.3	16 498 831	42.6	1 696	0.0	7 485 469	19.3	38 684 761
1996	12 294 655	32.3	35 984	0.1	16 655 651	43.7	3 411	0.0	9 085 431	23.9	38 075 132
1997	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
1998	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
1999	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
2000	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
2001	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
2002	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>TOTAL</b>	<b>291 661 047</b>	<b>39.2</b>	<b>1 177 043</b>	<b>0.2</b>	<b>284 052 385</b>	<b>38.2</b>	<b>493 069</b>	<b>0.1</b>	<b>166 007 160</b>	<b>22.3</b>	<b>743 390 704</b>

**U.S. GRAINS  
1983 - 2002**

**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
1983	2 824 695	41.7	2 083 258	30.8	24 320	0.4	N/A	-	831 164	12.3	270 977	4.0	1 025	0.0	731 945	10.8	6 767 384
1984	3 124 417	40.9	2 257 653	29.5	11 453	0.1	N/A	-	608 831	8.0	826 106	10.8	5 180	0.1	814 086	10.6	7 647 726
1985	1 958 906	38.6	1 938 864	38.2	-	-	N/A	-	132 080	2.6	660 270	13.0	-	-	391 183	7.7	5 081 303
1986	2 324 945	49.7	692 382	14.8	5 500	0.1	N/A	-	332 051	7.1	1 041 258	22.3	31 504	0.7	249 633	5.3	4 677 273
1987	1 703 876	33.3	1 718 123	33.6	19 458	0.4	N/A	-	464 631	9.1	1 018 785	19.9	-	-	194 871	3.8	5 119 744
1988	2 046 771	37.1	2 022 111	36.7	10 410	0.2	N/A	-	599 748	10.9	597 140	10.8	-	-	239 415	4.3	5 515 595
1989	2 203 974	38.1	1 959 943	33.9	7 704	0.1	N/A	-	939 432	16.2	625 055	10.8	-	-	51 035	0.9	5 787 143
1990	1 871 197	47.0	1 018 239	25.6	-	-	N/A	-	846 871	21.3	234 925	5.9	-	-	11 965	0.3	3 983 197
1991	1 331 577	39.3	993 198	29.3	-	-	N/A	-	533 535	15.7	365 474	10.8	-	-	164 731	4.9	3 388 515
1992	1 586 460	35.0	873 917	19.3	-	-	N/A	-	1 052 638	23.2	917 778	20.2	-	-	102 199	2.3	4 532 992
1993	2 087 128	45.9	1 132 499	24.9	-	-	N/A	-	657 582	14.4	578 188	12.7	-	-	95 754	2.1	4 551 151
1994	1 533 046	29.3	865 693	16.6	-	-	N/A	-	1 130 725	21.6	1 484 285	28.4	-	-	213 825	4.1	5 227 574
1995	2 971 424	40.9	2 152 244	29.6	1 900	0.0	N/A	-	173 287	2.4	1 624 272	22.4	-	-	337 135	4.6	7 260 262
1996	2 718 233	46.1	1 083 567	18.4	11 777	0.2	N/A	-	54 725	0.9	1 992 116	33.8	-	-	41 910	0.7	5 902 328
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
<b>TOTAL</b>	<b>41 645 544</b>	<b>38.7</b>	<b>29 162 214</b>	<b>27.1</b>	<b>113 481</b>	<b>0.1</b>	<b>-</b>	<b>-</b>	<b>9 166 188</b>	<b>8.5</b>	<b>22 663 533</b>	<b>21.0</b>	<b>204 113</b>	<b>0.2</b>	<b>4 744 779</b>	<b>4.4</b>	<b>107 699 852</b>

**CANADIAN GRAINS  
1983 - 2002**

**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
1983	12 784 633	73.3	684 709	3.9	186 697	1.1	N/A	-	2 875 079	16.5	29 813	0.2	359 750	2.1	520 170	3.0	17 440 851
1984	12 813 292	80.8	516 774	3.3	62 835	0.4	N/A	-	1 788 891	11.3	72 408	0.5	227 519	1.4	371 200	2.3	15 852 919
1985	9 543 110	84.5	570 008	5.0	36 143	0.3	N/A	-	554 518	4.9	76 320	0.7	339 500	3.0	173 673	1.5	11 293 272
1986	8 845 790	75.8	358 788	3.1	100 362	0.9	N/A	-	1 579 297	13.5	148 087	1.3	370 568	3.2	273 722	2.3	11 676 614
1987	10 855 319	82.2	398 976	3.0	121 893	0.9	N/A	-	957 375	7.3	85 602	0.6	374 843	2.8	410 385	3.1	13 204 393
1988	8 531 550	85.7	210 549	2.1	38 121	0.4	N/A	-	515 792	5.2	118 464	1.2	258 288	2.6	280 581	2.8	9 953 345
1989	4 836 888	84.8	89 983	1.6	36 204	0.6	N/A	-	290 205	5.1	51 343	0.9	236 815	4.2	161 650	2.8	5 703 088
1990	7 405 022	89.8	187 804	2.3	11 313	0.1	N/A	-	278 472	3.4	37 939	0.5	165 696	2.0	159 602	1.9	8 245 848
1991	10 885 314	90.4	510 424	4.2	2 453	0.0	N/A	-	130 672	1.1	103 938	0.9	171 718	1.4	236 847	2.0	12 041 366
1992	6 538 222	85.0	173 490	2.3	8 801	0.1	N/A	-	114 808	1.5	172 710	2.2	151 311	2.0	534 510	6.9	7 693 852
1993	4 728 825	75.0	43 730	0.7	14 278	0.2	N/A	-	38 974	0.6	216 157	3.4	254 058	4.0	1 006 252	16.0	6 302 274
1994	5 133 605	64.0	172 995	2.2	27 355	0.3	N/A	-	140 140	1.7	368 328	4.6	439 356	5.5	1 736 093	21.7	8 017 872
1995	5 119 158	69.9	106 927	1.5	1 330	0.0	N/A	-	32 954	0.4	401 164	5.5	432 596	5.9	1 232 602	16.8	7 326 731
1996	4 208 814	66.1	126 825	2.0	22 400	0.4	N/A	-	366 280	5.8	325 244	5.1	359 269	5.6	956 471	15.0	6 365 303
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
<b>TOTAL</b>	<b>141 472 053</b>	<b>77.7</b>	<b>4 908 760</b>	<b>2.7</b>	<b>750 221</b>	<b>0.4</b>	<b>1 050 325</b>	<b>0.6</b>	<b>10 047 309</b>	<b>5.5</b>	<b>4 221 158</b>	<b>2.3</b>	<b>6 784 714</b>	<b>3.7</b>	<b>12 876 951</b>	<b>7.1</b>	<b>182 111 491</b>



**SELECTED MINING COMMODITIES  
1983 - 2002**

**TABLE M11**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	COAL		COKE		IRON ORE		CLAY & BENTONITE		GRAVEL & SAND		STONE		SALT		OTHER MINING		TOTAL MINING TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1983	350 171	2.7	638 042	4.9	10 280 210	78.6	76 849	0.6	7 975	0.1	47 754	0.4	878 535	6.7	801 641	6.1	13 081 177
1984	452 898	3.1	793 112	5.4	11 421 521	77.2	157 206	1.1	6 992	0.0	117 233	0.8	818 931	5.5	1 034 178	7.0	14 802 071
1985	607 108	4.9	802 266	6.4	8 679 210	69.5	162 410	1.3	1	0.0	258 745	2.1	657 494	5.3	1 324 005	10.6	12 491 239
1986	609 619	5.0	867 412	7.1	8 026 080	65.5	161 366	1.3	16 009	0.1	272 148	2.2	874 520	7.1	1 426 783	11.6	12 253 937
1987	233 756	1.8	654 432	5.0	9 557 376	72.3	164 766	1.2	-	-	231 658	1.8	928 559	7.0	1 448 593	11.0	13 219 140
1988	712 945	4.4	1 466 718	9.0	10 810 682	66.6	240 823	1.5	-	-	432 411	2.7	1 027 602	6.3	1 528 939	9.4	16 220 120
1989	776 999	4.6	1 272 068	7.6	11 185 264	66.7	215 214	1.3	-	-	448 647	2.7	1 377 273	8.2	1 499 205	8.9	16 774 670
1990	489 355	3.0	946 154	5.7	11 527 835	69.7	229 581	1.4	-	-	715 617	4.3	1 183 829	7.2	1 450 695	8.8	16 543 066
1991	591 980	4.8	503 410	4.1	8 455 027	68.4	151 485	1.2	-	-	598 944	4.8	1 029 814	8.3	1 031 884	8.3	12 362 544
1992	336 327	2.6	705 253	5.5	8 727 467	68.6	145 918	1.1	-	-	561 300	4.4	965 099	7.6	1 273 461	10.0	12 714 825
1993	242 958	1.8	846 742	6.2	9 963 598	72.5	171 967	1.3	26 000	0.2	811 602	5.9	651 414	4.7	1 032 041	7.5	13 746 322
1994	535 301	3.6	634 407	4.2	11 047 880	73.5	183 725	1.2	-	-	735 214	4.9	706 190	4.7	1 189 656	7.9	15 032 373
1995	942 386	5.7	886 224	5.4	10 959 374	66.4	231 066	1.4	-	-	808 074	4.9	1 449 077	8.8	1 222 630	7.4	16 498 831
1996	508 129	3.1	804 960	4.8	11 596 270	69.6	221 755	1.3	22 675	0.1	763 123	4.6	1 449 578	8.7	1 289 161	7.7	16 655 651
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
<b>TOTAL</b>	<b>9 460 409</b>	<b>3.3</b>	<b>16 319 551</b>	<b>5.7</b>	<b>200 870 397</b>	<b>70.7</b>	<b>3 552 634</b>	<b>1.3</b>	<b>162 158</b>	<b>0.1</b>	<b>9 058 907</b>	<b>3.2</b>	<b>19 105 912</b>	<b>6.7</b>	<b>25 522 418</b>	<b>9.0</b>	<b>284 052 386</b>

**SELECTED PROCESSED COMMODITIES  
1983 - 2002**

**TABLE M12**

**MONTREAL-LAKE ONTARIO SECTION**

YEAR	GASOLINE		FUEL OIL		CHEMICALS		SODIUM PRODUCTS		PIG IRON		MANUFACTURED IRON & STEEL (1)		CEMENT		SCRAP IRON & STEEL		OTHER PROCESSED	
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%
1983	249 993	3.4	936 121	12.6	634 880	8.6	213 622	2.9	161 017	2.2	2 896 137	39.1	2 522	0.0	390 006	5.3	1 926 361	26.0
1984	237 388	2.7	745 378	8.4	748 700	8.4	99 951	1.1	243 817	2.7	4 453 231	50.0	10	0.0	303 619	3.4	2 065 803	23.2
1985	111 419	1.4	558 770	6.8	751 092	9.1	126 246	1.5	103 610	1.3	3 603 221	43.8	175 111	2.1	635 622	7.7	2 154 853	26.2
1986	206 107	2.4	641 156	7.3	869 268	9.9	171 615	2.0	96 925	1.1	3 548 802	40.5	152 616	1.7	740 276	8.4	2 335 794	26.7
1987	167 472	2.0	481 049	5.8	812 778	9.9	135 308	1.6	124 355	1.5	3 614 403	43.9	242 758	2.9	344 352	4.2	2 306 923	28.0
1988	248 120	2.9	879 438	10.1	1 036 759	11.9	125 032	1.4	93 248	1.1	4 316 733	49.7	32 101	0.4	369 397	4.3	1 587 662	18.3
1989	485 319	5.7	569 627	6.7	819 447	9.6	86 287	1.0	70 938	0.8	4 186 116	49.2	27 463	0.3	320 630	3.8	1 941 512	22.8
1990	481 265	6.3	890 612	11.7	817 062	10.7	105 284	1.4	67 942	0.9	3 607 475	47.4	28 431	0.4	233 668	3.1	1 383 093	18.2
1991	378 315	5.5	866 101	12.5	568 383	8.2	78 479	1.1	37 505	0.5	3 438 134	49.6	340 350	4.9	137 600	2.0	1 091 439	15.7
1992	362 649	5.8	615 685	9.8	565 561	9.0	95 345	1.5	72 934	1.2	3 119 218	49.5	114 841	1.8	112 810	1.8	1 247 499	19.8
1993	295 003	4.1	591 868	8.2	684 411	9.4	153 043	2.1	59 313	0.8	4 138 812	57.1	16 343	0.2	109 631	1.5	1 202 159	16.6
1994	462 198	4.6	839 482	8.4	415 570	4.1	156 233	1.6	87 748	0.9	6 766 616	67.5	-	-	46 254	0.5	1 254 595	12.5
1995	245 777	3.3	703 107	9.4	520 757	7.0	124 573	1.7	141 342	1.9	4 528 312	60.5	-	-	149 854	2.0	1 071 747	14.3
1996	341 420	3.8	695 658	7.7	512 731	5.6	92 129	1.0	171 740	1.9	5 687 894	62.6	16 180	0.2	42 768	0.5	1 524 911	16.8
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
<b>TOTAL</b>	<b>6 974 141</b>	<b>4.2</b>	<b>14 634 519</b>	<b>8.8</b>	<b>12 902 563</b>	<b>7.8</b>	<b>2 468 237</b>	<b>1.5</b>	<b>2 997 078</b>	<b>1.8</b>	<b>85 857 018</b>	<b>51.7</b>	<b>1 388 054</b>	<b>0.8</b>	<b>4 388 616</b>	<b>2.6</b>	<b>34 396 934</b>	<b>20.7</b>

(1) Includes Steel Slab

**PART IV**

**ST. LAWRENCE SEAWAY**

**TOLL TRAFFIC**

**FOR THE**

**WELLAND CANAL SECTION**

**TRAFFIC BY CLASS AND TYPE OF VESSEL  
2002**

**TABLE W1**

**WELLAND CANAL SECTION**

CLASS AND TYPE OF VESSEL	VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES								
	Loaded	Ballast	Total		Bulk	Coal	Grains	Govt. Aid	Con-tainers	General	Steel Slab	Total	%
<b>UPBOUND:</b>													
<b>Ocean:</b> Cargo	295	78	373	5 650 985	962 897	-	77 624	-	823	2 130 005	553 489	3 724 838	11.6
Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanker	23	8	31	268 934	197 608	-	-	-	-	-	-	197 608	0.6
<b>Total Ocean</b>	<b>318</b>	<b>86</b>	<b>404</b>	<b>5 919 919</b>	<b>1 160 505</b>	<b>-</b>	<b>77 624</b>	<b>-</b>	<b>823</b>	<b>2 130 005</b>	<b>553 489</b>	<b>3 922 446</b>	<b>12.2</b>
<b>Laker:</b> Cargo	370	323	693	10 723 580	6 933 609	-	53 976	-	-	-	-	6 987 585	21.8
Barge	59	79	138	1 043 298	735 760	-	-	-	-	1 316	-	737 076	2.3
Tanker	6	31	37	233 065	42 724	-	-	-	-	-	-	42 724	0.1
<b>Total Laker</b>	<b>435</b>	<b>433</b>	<b>868</b>	<b>11 999 943</b>	<b>7 712 093</b>	<b>-</b>	<b>53 976</b>	<b>-</b>	<b>-</b>	<b>1 316</b>	<b>-</b>	<b>7 767 385</b>	<b>24.2</b>
<b>Non-Cargo Passenger</b>	-	219	219	140 318	-	-	-	-	-	-	-	-	-
	13	2	15	42 926	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>	<b>766</b>	<b>740</b>	<b>1 506</b>	<b>18 103 106</b>	<b>8 872 598</b>	<b>-</b>	<b>131 600</b>	<b>-</b>	<b>823</b>	<b>2 131 321</b>	<b>553 489</b>	<b>11 689 831</b>	<b>36.4</b>
<b>DOWNBOUND:</b>													
<b>Ocean:</b> Cargo	318	56	374	5 664 766	487 286	-	4 600 923	25 834	25	2 631	-	5 116 699	15.9
Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanker	14	17	31	268 934	80 131	-	-	-	-	-	-	80 131	0.2
<b>Total Ocean</b>	<b>332</b>	<b>73</b>	<b>405</b>	<b>5 933 700</b>	<b>567 417</b>	<b>-</b>	<b>4 600 923</b>	<b>25 834</b>	<b>25</b>	<b>2 631</b>	<b>-</b>	<b>5 196 830</b>	<b>16.2</b>
<b>Laker:</b> Cargo	591	103	694	10 745 400	4 835 497	4 114 092	5 347 333	-	-	-	-	14 296 922	44.5
Barge	81	61	142	1 070 569	492 346	-	243 319	-	-	-	-	735 665	2.3
Tanker	23	14	37	233 065	188 922	-	-	-	-	-	-	188 922	0.6
<b>Total Laker</b>	<b>695</b>	<b>178</b>	<b>873</b>	<b>12 049 034</b>	<b>5 516 765</b>	<b>4 114 092</b>	<b>5 590 652</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15 221 509</b>	<b>47.4</b>
<b>Non-Cargo Passenger</b>	-	215	215	107 725	-	-	-	-	-	-	-	-	-
	14	3	17	43 692	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>	<b>1 041</b>	<b>469</b>	<b>1 510</b>	<b>18 134 151</b>	<b>6 084 182</b>	<b>4 114 092</b>	<b>10 191 575</b>	<b>25 834</b>	<b>25</b>	<b>2 631</b>	<b>-</b>	<b>20 418 339</b>	<b>63.6</b>
<b>TOTALS:</b>													
<b>Ocean:</b> Cargo	613	134	747	11 315 751	1 450 183	-	4 678 547	25 834	848	2 132 636	553 489	8 841 537	27.5
Barge	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanker	37	25	62	537 868	277 739	-	-	-	-	-	-	277 739	0.9
<b>Total Ocean</b>	<b>650</b>	<b>159</b>	<b>809</b>	<b>11 853 619</b>	<b>1 727 922</b>	<b>-</b>	<b>4 678 547</b>	<b>25 834</b>	<b>848</b>	<b>2 132 636</b>	<b>553 489</b>	<b>9 119 276</b>	<b>28.4</b>
<b>Laker:</b> Cargo	961	426	1 387	21 468 980	11 769 106	4 114 092	5 401 309	-	-	-	-	21 284 507	66.3
Barge	140	140	280	2 113 867	1 228 106	-	243 319	-	-	1 316	-	1 472 741	4.6
Tanker	29	45	74	466 130	231 646	-	-	-	-	-	-	231 646	0.7
<b>Total Laker</b>	<b>1 130</b>	<b>611</b>	<b>1 741</b>	<b>24 048 977</b>	<b>13 228 858</b>	<b>4 114 092</b>	<b>5 644 628</b>	<b>-</b>	<b>-</b>	<b>1 316</b>	<b>-</b>	<b>22 988 894</b>	<b>71.6</b>
<b>Non-Cargo Passenger</b>	-	434	434	248 043	-	-	-	-	-	-	-	-	-
	27	5	32	86 618	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>	<b>1 807</b>	<b>1 209</b>	<b>3 016</b>	<b>36 237 257</b>	<b>14 956 780</b>	<b>4 114 092</b>	<b>10 323 175</b>	<b>25 834</b>	<b>848</b>	<b>2 133 952</b>	<b>553 489</b>	<b>32 108 170</b>	<b>100.0</b>

**TRAFFIC BY CLASSIFICATION AND TYPE OF CARGO  
2002**

**TABLE W2**

**WELLAND CANAL SECTION**

COMMODITY	CARGO TONNES							Total	% of Total
	Bulk	Coal	Grains	Govt. Aid	Con-tainer	General	Steel Slab		
Wheat	-	-	6 066 965	-	-	-	-	6 066 965	18.9
Corn	-	-	1 069 979	15 000	-	-	-	1 084 979	3.4
Rye	-	-	-	-	-	-	-	-	-
Oats	-	-	101 468	-	-	-	-	101 468	0.3
Barley	-	-	138 644	-	-	-	-	138 644	0.4
Canola (Rapeseed)	-	-	208 316	-	-	-	-	208 316	0.6
Canola Meal, Pellets	-	-	3 185	-	-	-	-	3 185	0.0
Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-	-
Soybeans	-	-	1 845 816	-	-	-	-	1 845 816	5.7
Soybean Oil Cake, Meal, Pellets	-	-	50 259	-	-	-	-	50 259	0.2
Beans and Peas	-	-	62 676	2 088	-	-	-	64 764	0.2
Flaxseed	-	-	604 089	-	-	-	-	604 089	1.9
Sunflower Seeds	-	-	-	-	-	-	-	-	-
Other Agricultural Products	-	-	171 778	8 299	-	-	-	180 077	0.6
<b>Total Agricultural Products</b>	-	-	10 323 175	25 387	-	-	-	10 348 562	32.2
Packing House Products, Edible	-	-	-	-	-	-	-	-	-
Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-	-
Other Animal Products	5 172	-	-	-	-	-	-	5 172	0.0
<b>Total Animal Products</b>	5 172	-	-	-	-	-	-	5 172	0.0
Bituminous Coal	-	4 114 092	-	-	-	-	-	4 114 092	12.8
Coke	1 194 300	-	-	-	-	-	-	1 194 300	3.7
Iron Ore	5 042 945	-	-	-	-	-	-	5 042 945	15.7
Aluminum Ore and Concentrates	53 933	-	-	-	-	-	-	53 933	0.2
Clay and Bentonite	110 613	-	-	-	-	-	-	110 613	0.3
Gravel and Sand	181 670	-	-	-	-	-	-	181 670	0.6
Stone	739 559	-	-	-	-	-	-	739 559	2.3
Salt	1 888 696	-	-	-	-	-	-	1 888 696	5.9
Potash	97 157	-	-	-	-	-	-	97 157	0.3
Gypsum	-	-	-	-	-	-	-	-	-
Asphalt	129 177	-	-	-	-	-	-	129 177	0.4
Other Mine Products	355 226	-	-	-	-	-	-	355 226	1.1
<b>Total Mine Products</b>	9 793 276	4 114 092	-	-	-	-	-	13 907 368	43.3
Lumber	89 147	-	-	-	-	-	-	89 147	0.3
Other Forest Products	-	-	-	-	-	9	-	9	0.0
<b>Total Forest Products</b>	89 147	-	-	-	-	9	-	89 156	0.3
Gasoline	147 641	-	-	-	-	-	-	147 641	0.5
Fuel Oil	293 209	-	-	-	-	-	-	293 209	0.9
Other Petroleum Products	-	-	-	-	-	-	-	-	-
Chemicals	421 405	-	-	-	11	-	-	421 416	1.3
Sodium Products	74 087	-	-	-	-	-	-	74 087	0.2
Tar, Pitch and Creosote	33 313	-	-	-	-	-	-	33 313	0.1
Pig Iron	229 653	-	-	-	-	-	-	229 653	0.7
Iron and Steel	-	-	-	-	-	2 089 692	-	2 089 692	6.5
Steel Slab	-	-	-	-	-	-	553 489	553 489	1.7
Machinery and Machines	-	-	-	-	517	12 355	-	12 872	0.0
Cement	1 305 972	-	-	-	-	-	-	1 305 972	4.1
Cement Clinker	1 294 740	-	-	-	-	-	-	1 294 740	4.0
Woodpulp	219 295	-	-	-	-	-	-	219 295	0.7
Newsprint and Paper Products	-	-	-	-	-	-	-	-	-
Syrup and Molasses	-	-	-	-	-	-	-	-	-
Sugar	8 513	-	-	-	-	-	-	8 513	0.0
Food Products	-	-	-	-	-	-	-	-	-
Furnace Slags	841 668	-	-	-	-	-	-	841 668	2.6
Scrap Iron and Steel	83 128	-	-	-	-	-	-	83 128	0.3
Other Manufactures and Misc. (1)	116 561	-	-	447	320	31 896	-	149 224	0.5
<b>Total Manufactures and Misc.</b>	5 069 185	-	-	447	848	2 133 943	553 489	7 757 912	24.2
<b>GRAND TOTAL</b>	<b>14 956 780</b>	<b>4 114 092</b>	<b>10 323 175</b>	<b>25 834</b>	<b>848</b>	<b>2 133 952</b>	<b>553 489</b>	<b>32 108 170</b>	<b>100.0</b>

(1) Includes unclassified cargoes

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2002**

**TABLE W3 - Part A**

**WELLAND CANAL SECTION**

NO.	COMMODITY	from:		UPBOUND TONNES				TOTAL UPBOUND	% OF TOTAL UP-BOUN
		CANADA		UNITED STATES		FOREIGN			
		Canada	United States	Canada	United States	Canada	United States		
1	Wheat	15 774	16 649	-	-	-	-	32 423	0.3
2	Corn	-	-	-	-	-	-	-	-
3	Rye	-	-	-	-	-	-	-	-
4	Oats	-	21 553	-	-	-	77 624	99 177	0.8
5	Barley	-	-	-	-	-	-	-	-
6	Canola (Rapeseed)	-	-	-	-	-	-	-	-
7	Canola Meal, Pellets	-	-	-	-	-	-	-	-
8	Flour, Wheat & Other Edible	-	-	-	-	-	-	-	-
9	Soybeans	-	-	-	-	-	-	-	-
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>	15 774	38 202	-	-	-	77 624	131 600	1.1
16	Packing House Products, Edible	-	-	-	-	-	-	-	-
17	Hides, Skins, Pelts, Wool	-	-	-	-	-	-	-	-
18	Other Animal Products	-	-	-	-	-	-	-	-
19	<b>Total Animal Products</b>	-	-	-	-	-	-	-	-
20	Bituminous Coal	-	-	-	-	-	-	-	-
21	Coke	174 047	140 425	22 570	-	-	-	337 042	2.9
22	Iron Ore	695 105	2 958 105	-	-	-	-	3 653 210	31.3
23	Aluminum Ore and Concentrates	-	-	-	-	-	53 933	53 933	0.5
24	Clay and Bentonite	-	-	-	-	4 362	4 799	9 161	0.1
25	Gravel and Sand	-	-	-	-	-	16 110	16 110	0.1
26	Stone	-	412 386	-	-	-	-	412 386	3.5
27	Salt	-	-	-	-	-	4 000	4 000	0.0
28	Potash	-	-	-	-	-	-	-	-
29	Gypsum	-	-	-	-	-	-	-	-
30	Asphalt	-	-	-	-	-	9 947	9 947	0.1
31	Other Mine Products	23 002	37 215	-	-	91 441	144 216	295 874	2.5
32	<b>Total Mine Products</b>	892 154	3 548 131	22 570	-	95 803	233 005	4 791 663	41.0
33	Lumber	-	-	-	-	-	89 147	89 147	0.8
34	Other Forest Products	-	-	-	-	-	9	9	0.0
35	<b>Total Forest Products</b>	-	-	-	-	-	89 156	89 156	0.8
36	Gasoline	111 509	-	-	-	36 132	-	147 641	1.3
37	Fuel Oil	12 158	-	-	-	-	-	12 158	0.1
38	Other Petroleum Products	-	-	-	-	-	-	-	-
39	Chemicals	-	-	-	-	-	40 846	40 846	0.3
40	Sodium Products	-	-	74 087	-	-	-	74 087	0.6
41	Tar, Pitch and Creosote	-	-	-	-	-	-	-	-
42	Pig Iron	2 644	101 527	-	-	-	125 482	229 653	2.0
43	Iron and Steel	-	635	-	-	292 379	1 796 678	2 089 692	17.9
44	Steel Slab	-	-	-	-	158 311	395 178	553 489	4.7
45	Machinery and Machines	-	78	-	-	3 622	9 172	12 872	0.1
46	Cement	84 475	1 221 497	-	-	-	-	1 305 972	11.2
47	Cement Clinker	-	1 219 700	-	-	-	75 040	1 294 740	11.1
48	Woodpulp	-	3 184	-	-	-	149 193	152 377	1.3
49	Newsprint and Paper Products	-	-	-	-	-	-	-	-
50	Syrup and Molasses	-	-	-	-	-	-	-	-
51	Sugar	-	-	-	-	-	8 513	8 513	0.1
52	Food Products	-	-	-	-	-	-	-	-
53	Furnace Slags	130 379	353 512	-	-	-	131 494	615 385	5.3
54	Scrap Iron and Steel	-	83 128	-	-	-	-	83 128	0.7
55	Other Manufactures and Misc. (1)	-	681	-	-	14 735	41 443	56 859	0.5
56	<b>Total Manufactures and Misc.</b>	341 165	2 983 942	74 087	-	505 179	2 773 039	6 677 412	57.1
57	<b>GRAND TOTAL</b>	1 249 093	6 570 275	96 657	-	600 982	3 172 824	11 689 831	100.0

(1) Includes unclassified cargoes

**TRAFFIC BY COMMODITY CLASSIFICATION AND NATIONALITY  
2002**

**TABLE W3 - Part B**

**WELLAND CANAL SECTION**

		DOWNBOUND TONNES						TOTAL DOWN- BOUND	% OF TOTAL DOWN- BOUND	GRAND TOTALS		NO.
from:	CANADA			UNITED STATES			TOTAL CARGO TONNES			% OF TOTAL		
to:	Canada	United States	Foreign	Canada	United States	Foreign						
	3 045 840	-	1 123 851	451 376	-	1 413 475	6 034 542	29.6	6 066 965	18.9	1	
	53 633	-	27 400	805 481	-	198 465	1 084 979	5.3	1 084 979	3.4	2	
	-	-	-	-	-	-	-	-	-	-	3	
	-	-	2 291	-	-	-	2 291	0.0	101 468	0.3	4	
	-	-	114 193	-	-	24 451	138 644	0.7	138 644	0.4	5	
	-	-	208 316	-	-	-	208 316	1.0	208 316	0.6	6	
	3 185	-	-	-	-	-	3 185	0.0	3 185	0.0	7	
	-	-	-	-	-	-	-	-	-	-	8	
	218 918	-	116 462	1 003 207	-	507 229	1 845 816	9.0	1 845 816	5.7	9	
	3 912	-	46 347	-	-	-	50 259	0.2	50 259	0.2	10	
	-	-	62 676	-	-	2 088	64 764	0.3	64 764	0.2	11	
	5 100	-	529 253	-	-	69 736	604 089	3.0	604 089	1.9	12	
	-	-	-	-	-	-	-	-	-	-	13	
	-	-	65 926	-	-	114 151	180 077	0.9	180 077	0.6	14	
	3 330 588	-	2 296 715	2 260 064	-	2 329 595	10 216 962	50.0	10 348 562	32.2	15	
	-	-	-	-	-	-	-	-	-	-	16	
	-	-	-	-	-	-	-	-	-	-	17	
	-	-	-	-	-	5 172	5 172	0.0	5 172	0.0	18	
	-	-	-	-	-	5 172	5 172	0.0	5 172	0.0	19	
	446 126	-	-	3 667 966	-	-	4 114 092	20.1	4 114 092	12.8	20	
	79 999	-	46 244	640 971	-	90 044	857 258	4.2	1 194 300	3.7	21	
	-	-	-	1 389 735	-	-	1 389 735	6.8	5 042 945	15.7	22	
	-	-	-	-	-	-	-	-	53 933	0.2	23	
	-	-	-	7 851	-	93 601	101 452	0.5	110 613	0.3	24	
	-	-	-	165 560	-	-	165 560	0.8	181 670	0.6	25	
	314 917	-	-	12 256	-	-	327 173	1.6	739 559	2.3	26	
	1 447 149	96 498	-	341 049	-	-	1 884 696	9.2	1 888 696	5.9	27	
	68 315	9 113	19 729	-	-	-	97 157	0.5	97 157	0.3	28	
	-	-	-	-	-	-	-	-	-	-	29	
	31 597	-	-	87 633	-	-	119 230	0.6	129 177	0.4	30	
	49 352	-	-	-	-	10 000	59 352	0.3	355 226	1.1	31	
	2 437 455	105 611	65 973	6 313 021	-	193 645	9 115 705	44.6	13 907 368	43.3	32	
	-	-	-	-	-	-	-	-	89 147	0.3	33	
	-	-	-	-	-	-	-	-	9	0.0	34	
	-	-	-	-	-	-	-	-	89 156	0.3	35	
	-	-	-	-	-	-	-	-	147 641	0.5	36	
	244 717	-	-	36 334	-	-	281 051	1.4	293 209	0.9	37	
	-	-	-	-	-	-	-	-	-	-	38	
	116 167	69 705	172 582	22 116	-	-	380 570	1.9	421 416	1.3	39	
	-	-	-	-	-	-	-	-	74 087	0.2	40	
	33 313	-	-	-	-	-	33 313	0.2	33 313	0.1	41	
	-	-	-	-	-	-	-	-	229 653	0.7	42	
	-	-	-	-	-	-	-	-	2 089 692	6.5	43	
	-	-	-	-	-	-	-	-	553 489	1.7	44	
	-	-	-	-	-	-	-	-	12 872	0.0	45	
	-	-	-	-	-	-	-	-	1 305 972	4.1	46	
	-	-	-	-	-	-	-	-	1 294 740	4.0	47	
	-	-	66 918	-	-	-	66 918	0.3	219 295	0.7	48	
	-	-	-	-	-	-	-	-	-	-	49	
	-	-	-	-	-	-	-	-	-	-	50	
	-	-	-	-	-	-	-	-	8 513	0.0	51	
	-	-	-	-	-	-	-	-	-	-	52	
	226 283	-	-	-	-	-	226 283	1.1	841 668	2.6	53	
	-	-	-	-	-	-	-	-	83 128	0.3	54	
	136	-	-	91 505	163	561	92 365	0.5	149 224	0.5	55	
	620 616	69 705	239 500	149 955	163	561	1 080 500	5.3	7 757 912	24.2	56	
	6 388 659	175 316	2 602 188	8 723 040	163	2 528 973	20 418 339	100.0	32 108 170	100.0	57	

**TRAFFIC BY MONTH AND TYPE OF CARGO  
2002**

**TABLE W4**

**WELLAND CANAL SECTION**

DIRECTION AND MONTH	VESSEL TRANSITS			GROSS REGISTERED TONNAGE	CARGO TONNES								
	Loaded	Ballast	Total		Bulk	Coal	Grains	Govt. Aid	Con-tainers	General	Steel Slab	Total	%
<b>UPBOUND:</b>													
March	14	24	38	440 212	176 612	-	-	-	-	22 712	-	199 324	0.6
April	68	78	146	1 759 507	809 181	-	-	-	28	116 245	23 347	948 801	3.0
May	77	98	175	2 184 925	907 965	-	22 014	-	28	183 761	56 255	1 170 023	3.6
June	90	75	165	1 928 250	914 664	-	15 000	-	-	198 531	135 799	1 263 994	3.9
July	87	75	162	1 901 035	936 030	-	32 602	-	11	282 119	78 602	1 329 364	4.1
August	90	90	180	1 928 912	963 827	-	61 984	-	487	319 174	22 918	1 368 390	4.3
September	90	69	159	1 977 416	1 116 475	-	-	-	39	193 214	85 530	1 395 258	4.3
October	89	95	184	2 301 644	971 072	-	-	-	223	328 418	74 775	1 374 488	4.3
November	105	74	179	2 265 401	1 208 479	-	-	-	7	364 957	66 189	1 639 632	5.1
December	56	61	117	1 407 008	868 293	-	-	-	-	122 190	10 074	1 000 557	3.1
January	-	1	1	8 796	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Upbound</b>	<b>766</b>	<b>740</b>	<b>1 506</b>	<b>18 103 106</b>	<b>8 872 598</b>	<b>-</b>	<b>131 600</b>	<b>-</b>	<b>823</b>	<b>2 131 321</b>	<b>553 489</b>	<b>11 689 831</b>	<b>36.4</b>
<b>DOWNBOUND:</b>													
March	7	12	19	160 511	53 759	54 475	45 457	-	-	-	-	153 691	0.5
April	94	46	140	1 630 008	454 295	517 983	967 503	-	-	-	-	1 939 781	6.0
May	116	51	167	2 042 714	744 224	455 166	1 237 846	-	-	-	-	2 437 236	7.6
June	117	50	167	1 971 516	728 413	394 370	1 105 392	-	-	488	-	2 228 663	6.9
July	113	47	160	1 999 911	748 767	457 103	968 150	10 834	-	2 054	-	2 186 908	6.8
August	101	74	175	1 857 122	569 945	478 926	904 851	-	-	-	-	1 953 722	6.1
September	105	54	159	1 893 398	861 017	428 350	709 211	15 000	25	84	-	2 013 687	6.3
October	132	47	179	2 225 637	722 855	455 466	1 446 787	-	-	5	-	2 625 113	8.2
November	128	39	167	2 118 535	580 783	549 379	1 383 874	-	-	-	-	2 514 036	7.8
December	126	49	175	2 211 295	620 124	322 874	1 393 273	-	-	-	-	2 336 271	7.3
January	2	-	2	23 504	-	-	29 231	-	-	-	-	29 231	0.1
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Downbound</b>	<b>1 041</b>	<b>469</b>	<b>1 510</b>	<b>18 134 151</b>	<b>6 084 182</b>	<b>4 114 092</b>	<b>10 191 575</b>	<b>25 834</b>	<b>25</b>	<b>2 631</b>	<b>-</b>	<b>20 418 339</b>	<b>63.6</b>
<b>TOTALS:</b>													
March	21	36	57	600 723	230 371	54 475	45 457	-	-	22 712	-	353 015	1.1
April	162	124	286	3 389 515	1 263 476	517 983	967 503	-	28	116 245	23 347	2 888 582	9.0
May	193	149	342	4 227 639	1 652 189	455 166	1 259 860	-	28	183 761	56 255	3 607 259	11.2
June	207	125	332	3 899 766	1 643 077	394 370	1 120 392	-	-	199 019	135 799	3 492 657	10.9
July	200	122	322	3 900 946	1 684 797	457 103	1 000 752	10 834	11	284 173	78 602	3 516 272	11.0
August	191	164	355	3 786 034	1 533 772	478 926	966 835	-	487	319 174	22 918	3 322 112	10.3
September	195	123	318	3 870 814	1 977 492	428 350	709 211	15 000	64	193 298	85 530	3 408 945	10.6
October	221	142	363	4 527 281	1 693 927	455 466	1 446 787	-	223	328 423	74 775	3 999 601	12.5
November	233	113	346	4 383 936	1 789 262	549 379	1 383 874	-	7	364 957	66 189	4 153 668	12.9
December	182	110	292	3 618 303	1 488 417	322 874	1 393 273	-	-	122 190	10 074	3 336 828	10.4
January	2	1	3	32 300	-	-	29 231	-	-	-	-	29 231	0.1
February	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>	<b>1 807</b>	<b>1 209</b>	<b>3 016</b>	<b>36 237 257</b>	<b>14 956 780</b>	<b>4 114 092</b>	<b>10 323 175</b>	<b>25 834</b>	<b>848</b>	<b>2 133 952</b>	<b>553 489</b>	<b>32 108 170</b>	<b>100.0</b>



**TRAFFIC RESULTS  
1983 - 2002**

**TABLE W5**

**WELLAND CANAL SECTION**

YEAR	VESSEL TRANSITS			CARGO TONNES			GROSS REGISTERED TONNAGE		
	Upbound	Downbound	Total	Upbound	Downbound	Total	Upbound	Downbound	Total
1983	2 356	2 351	4 707	12 305 327	37 839 759	50 145 086	30 442 985	30 112 815	60 555 800
1984	2 369	2 381	4 750	14 079 793	39 837 065	53 916 858	31 561 360	31 673 380	63 234 740
1985	1 908	1 918	3 826	10 887 501	30 964 259	41 851 760	25 154 052	25 156 487	50 310 539
1986	1 989	1 970	3 959	10 224 030	31 388 740	41 612 770	26 292 247	26 191 305	52 483 552
1987	1 972	1 942	3 914	11 430 043	31 294 712	42 724 755	25 866 562	25 827 198	51 693 760
1988	1 963	1 946	3 909	12 363 992	31 172 325	43 536 317	25 678 177	25 497 142	51 175 319
1989	1 794	1 804	3 598	12 113 108	27 796 342	39 909 450	22 736 432	22 999 006	45 735 438
1990	1 794	1 783	3 577	11 961 465	27 436 435	39 397 900	22 358 350	22 224 174	44 582 524
1991	1 795	1 775	3 570	7 883 689	29 035 283	36 918 972	22 847 289	22 592 678	45 439 967
1992	1 579	1 561	3 140	8 333 241	24 841 277	33 174 518	20 243 685	20 098 051	40 341 736
1993	1 460	1 467	2 927	11 230 122	20 584 897	31 815 019	18 072 909	17 990 480	36 063 389
1994	1 693	1 685	3 378	15 832 507	23 870 582	39 703 089	21 463 429	21 396 077	42 859 506
1995	1 654	1 641	3 295	12 462 085	26 914 248	39 376 333	22 114 295	21 957 301	44 071 596
1996	1 661	1 646	3 307	16 100 765	25 044 449	41 145 214	22 305 537	22 075 614	44 381 151
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
<b>TOTAL</b>	<b>36 119</b>	<b>35 985</b>	<b>72 104</b>	<b>248 182 928</b>	<b>547 199 326</b>	<b>795 382 254</b>	<b>461 011 035</b>	<b>459 499 781</b>	<b>920 510 816</b>

**CARGO BY TARIFF CLASSIFICATION  
1983 - 2002**

**TABLE W6**

**WELLAND CANAL SECTION**

YEAR	BULK		COAL		GRAINS		GOVT. AID		CONTAINERS		GENERAL		STEEL SLAB		TOTAL
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	TONNES
1983	22 059 063	44.0	N/A	-	24 804 023	49.5	294 326	0.6	37 356	0.1	2 950 318	5.9	N/A	-	50 145 086
1984	24 972 587	46.3	N/A	-	24 441 099	45.3	229 730	0.4	111 011	0.2	4 162 431	7.7	N/A	-	53 916 858
1985	21 168 333	50.6	N/A	-	17 024 549	40.7	261 476	0.6	79 154	0.2	3 318 248	7.9	N/A	-	41 851 760
1986	21 182 530	50.9	N/A	-	17 015 294	40.9	227 432	0.5	22 966	0.1	3 164 548	7.6	N/A	-	41 612 770
1987	20 427 881	47.8	N/A	-	19 072 346	44.6	210 398	0.5	24 308	0.1	2 989 822	7.0	N/A	-	42 724 755
1988	24 119 789	55.4	N/A	-	16 062 624	36.9	84 327	0.2	23 490	0.1	3 246 087	7.5	N/A	-	43 536 317
1989	24 387 306	61.1	N/A	-	12 094 818	30.3	151 603	0.4	16 644	0.0	3 259 079	8.2	N/A	-	39 909 450
1990	23 788 081	60.4	N/A	-	12 656 979	32.1	67 217	0.2	12 025	0.0	2 873 598	7.3	N/A	-	39 397 900
1991	18 326 722	49.6	N/A	-	15 851 375	42.9	121 628	0.3	10 274	0.0	2 608 973	7.1	N/A	-	36 918 972
1992	18 179 814	54.8	N/A	-	12 485 974	37.6	77 737	0.2	16 351	0.0	2 414 642	7.3	N/A	-	33 174 518
1993	17 251 886	54.2	N/A	-	11 209 047	35.2	54 905	0.2	21 726	0.1	3 277 455	10.3	N/A	-	31 815 019
1994	20 661 562	52.0	N/A	-	13 576 191	34.2	54 768	0.1	9 653	0.0	5 400 915	13.6	N/A	-	39 703 089
1995	20 890 620	53.1	N/A	-	14 972 524	38.0	18 225	0.0	10 115	0.0	3 484 849	8.9	N/A	-	39 376 333
1996	23 621 910	57.4	N/A	-	12 728 928	30.9	-	-	1 279	0.0	4 793 097	11.6	N/A	-	41 145 214
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	12.0	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
<b>TOTAL</b>	<b>406 628 735</b>	<b>51.1</b>	<b>17 781 314</b>	<b>2.2</b>	<b>299 228 068</b>	<b>37.6</b>	<b>1 974 558</b>	<b>0.2</b>	<b>403 500</b>	<b>0.1</b>	<b>68 310 848</b>	<b>8.6</b>	<b>1 055 231</b>	<b>0.1</b>	<b>795 382 254</b>

**VESSEL TRANSITS  
1983- 2002**

**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
1983	12 305 327	789	1 567	2 356	37 839 759	2 115	236	2 351	50 145 086	2 904	1 803	4 707
1984	14 079 793	896	1 473	2 369	39 837 065	2 161	220	2 381	53 916 858	3 057	1 693	4 750
1985	10 887 501	713	1 195	1 908	30 964 259	1 702	216	1 918	41 851 760	2 415	1 411	3 826
1986	10 224 030	723	1 266	1 989	31 388 740	1 724	246	1 970	41 612 770	2 447	1 512	3 959
1987	11 430 043	759	1 213	1 972	31 294 712	1 648	294	1 942	42 724 755	2 407	1 507	3 914
1988	12 363 992	810	1 153	1 963	31 172 325	1 658	288	1 946	43 536 317	2 468	1 441	3 909
1989	12 113 108	804	990	1 794	27 796 342	1 573	231	1 804	39 909 450	2 377	1 221	3 598
1990	11 961 465	767	1 027	1 794	27 436 435	1 535	248	1 783	39 397 900	2 302	1 275	3 577
1991	7 883 689	600	1 195	1 795	29 035 283	1 549	226	1 775	36 918 972	2 149	1 421	3 570
1992	8 333 241	642	937	1 579	24 841 277	1 335	226	1 561	33 174 518	1 977	1 163	3 140
1993	11 230 122	785	675	1 460	20 584 897	1 133	334	1 467	31 815 019	1 918	1 009	2 927
1994	15 832 507	1 044	649	1 693	23 870 582	1 320	365	1 685	39 703 089	2 364	1 014	3 378
1995	12 462 085	760	894	1 654	26 914 248	1 351	290	1 641	39 376 333	2 111	1 184	3 295
1996	16 100 765	964	697	1 661	25 044 449	1 261	385	1 646	41 145 214	2 225	1 082	3 307
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
<b>TOTAL</b>	<b>248 182 928</b>	<b>16 301</b>	<b>19 818</b>	<b>36 119</b>	<b>547 199 326</b>	<b>29 244</b>	<b>6 741</b>	<b>35 985</b>	<b>795 382 254</b>	<b>45 545</b>	<b>26 559</b>	<b>72 104</b>

**COMMODITY GROUPS  
1983 - 2002**

**TABLE W8**

**WELLAND CANAL SECTION**

YEAR	AGRICULTURAL PRODUCTS		ANIMAL PRODUCTS		MINE PRODUCTS		FOREST PRODUCTS		MANUFACTURES & MISCELLANEOUS		TOTAL TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1983	24 969 488	49.8	60 119	0.1	18 094 828	36.1	15 555	0.0	7 005 096	14.0	50 145 086
1984	24 566 628	45.6	48 805	0.1	21 170 213	39.3	63 079	0.1	8 068 133	15.0	53 916 858
1985	17 135 063	40.9	52 827	0.1	17 125 276	40.9	31 751	0.1	7 506 843	17.9	41 851 760
1986	17 117 350	41.1	32 222	0.1	16 767 409	40.3	2 114	0.0	7 693 675	18.5	41 612 770
1987	19 167 314	44.9	19 899	0.0	16 508 988	38.6	3 785	0.0	7 024 769	16.4	42 724 755
1988	16 138 054	37.1	37 693	0.1	20 092 455	46.2	20 842	0.0	7 247 273	16.6	43 536 317
1989	12 283 468	30.8	35 556	0.1	20 077 371	50.3	35 159	0.1	7 477 896	18.7	39 909 450
1990	12 801 197	32.5	9 175	0.0	19 590 432	49.7	59 501	0.2	6 937 595	17.6	39 397 900
1991	15 928 350	43.1	17 645	0.0	15 183 314	41.1	21 501	0.1	5 768 162	15.6	36 918 972
1992	12 465 835	37.6	50 591	0.2	14 552 519	43.9	8 874	0.0	6 096 699	18.4	33 174 518
1993	11 255 092	35.4	33 240	0.1	13 507 263	42.5	152	0.0	7 019 272	22.1	31 815 019
1994	13 595 096	34.2	46 833	0.1	16 211 797	40.8	-	-	9 849 363	24.8	39 703 089
1995	14 948 276	38.0	65 505	0.2	16 399 966	41.6	-	-	7 962 586	20.2	39 376 333
1996	12 708 664	30.9	13 061	0.0	18 715 044	45.5	-	-	9 708 445	23.6	41 145 214
1997	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
1998	13 144 176	32.3	14 053	0.0	16 345 069	40.2	-	-	11 142 299	27.4	40 645 597
1999	13 577 788	36.3	11 580	0.0	15 195 354	40.6	-	-	8 656 163	23.1	37 440 885
2000	12 875 981	35.2	7 080	0.0	15 324 880	41.9	-	-	8 364 236	22.9	36 572 177
2001	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
2002	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>TOTAL</b>	<b>300 393 351</b>	<b>37.8</b>	<b>579 062</b>	<b>0.1</b>	<b>336 209 316</b>	<b>42.3</b>	<b>381 723</b>	<b>0.0</b>	<b>157 818 802</b>	<b>19.8</b>	<b>795 382 254</b>

**U.S. GRAINS  
1983 - 2002**

**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	%	
1983	2 824 695	39.9	2 172 662	30.7	24 320	0.3	N/A	-	861 061	12.1	420 768	5.9	1 025	0.0	782 866	11.0	7 087 397
1984	3 145 207	39.3	2 387 026	29.8	11 453	0.1	N/A	-	631 537	7.9	1 016 969	12.7	5 180	0.1	814 086	10.2	8 011 458
1985	1 958 906	36.7	2 070 840	38.8	-	-	N/A	-	170 277	3.2	747 406	14.0	-	-	391 183	7.3	5 338 612
1986	2 371 464	49.0	737 885	15.2	5 500	0.1	N/A	-	332 051	6.9	1 116 132	23.0	31 504	0.7	249 633	5.2	4 844 169
1987	1 715 846	32.3	1 799 109	33.9	19 458	0.4	N/A	-	464 631	8.8	1 125 750	21.2	-	-	183 631	3.5	5 308 425
1988	2 070 330	36.1	2 188 297	38.2	10 410	0.2	N/A	-	599 748	10.5	634 087	11.1	-	-	228 448	4.0	5 731 320
1989	2 203 974	36.5	2 210 458	36.6	7 704	0.1	N/A	-	939 432	15.6	674 795	11.2	-	-	-	-	6 036 363
1990	1 871 197	44.3	1 178 090	27.9	-	-	N/A	-	846 871	20.0	319 201	7.6	-	-	11 965	0.3	4 227 324
1991	1 331 577	39.3	1 005 337	29.7	-	-	N/A	-	533 535	15.7	365 474	10.8	-	-	151 638	4.5	3 387 561
1992	1 586 460	33.0	1 144 250	23.8	-	-	N/A	-	1 052 638	21.9	939 822	19.5	-	-	88 982	1.8	4 812 152
1993	2 087 128	44.7	1 258 032	26.9	-	-	N/A	-	657 582	14.1	611 436	13.1	-	-	57 972	1.2	4 672 150
1994	1 533 046	28.1	1 103 424	20.2	-	-	N/A	-	1 130 725	20.7	1 484 285	27.2	-	-	208 528	3.8	5 460 008
1995	2 971 424	39.9	2 343 895	31.5	1 900	0.0	N/A	-	173 287	2.3	1 624 272	21.8	-	-	331 515	4.5	7 446 293
1996	2 718 233	44.6	1 279 892	21.0	11 777	0.2	N/A	-	54 725	0.9	1 992 116	32.7	-	-	44 246	0.7	6 100 989
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
<b>TOTAL</b>	<b>41 748 382</b>	<b>37.3</b>	<b>32 376 522</b>	<b>28.9</b>	<b>113 481</b>	<b>0.1</b>	<b>43 694</b>	<b>0.0</b>	<b>9 256 988</b>	<b>8.3</b>	<b>23 705 557</b>	<b>21.2</b>	<b>204 113</b>	<b>0.2</b>	<b>4 616 848</b>	<b>4.1</b>	<b>112 065 585</b>

**CANADIAN GRAINS  
1983 - 2002**

**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	%	
1983	12 656 291	71.7	812 484	4.6	190 845	1.1	N/A	-	3 015 068	17.1	58 184	0.3	359 750	2.0	569 605	3.2	17 662 227
1984	13 124 885	79.9	571 202	3.5	68 561	0.4	N/A	-	1 864 689	11.3	84 302	0.5	227 519	1.4	488 409	3.0	16 429 567
1985	9 720 211	83.2	557 673	4.8	39 948	0.3	N/A	-	571 414	4.9	96 921	0.8	339 500	2.9	360 174	3.1	11 685 841
1986	9 067 032	74.5	386 885	3.2	100 362	0.8	N/A	-	1 650 639	13.6	153 573	1.3	370 568	3.0	441 966	3.6	12 171 025
1987	11 085 376	80.5	461 804	3.4	124 605	0.9	N/A	-	1 008 599	7.3	148 263	1.1	374 843	2.7	560 431	4.1	13 763 921
1988	8 709 022	84.3	248 048	2.4	41 789	0.4	N/A	-	528 954	5.1	130 319	1.3	258 288	2.5	414 884	4.0	10 331 304
1989	5 071 541	83.8	76 996	1.3	36 204	0.6	N/A	-	293 205	4.8	63 650	1.1	236 815	3.9	271 240	4.5	6 049 651
1990	7 495 238	88.9	214 589	2.5	11 313	0.1	N/A	-	278 472	3.3	45 554	0.5	165 696	2.0	218 793	2.6	8 429 655
1991	11 101 227	89.2	551 986	4.4	2 453	0.0	N/A	-	130 672	1.0	103 938	0.8	171 718	1.4	387 120	3.1	12 449 114
1992	6 376 326	83.1	194 648	2.5	8 801	0.1	N/A	-	114 808	1.5	172 710	2.3	151 311	2.0	655 218	8.5	7 673 822
1993	4 813 973	73.9	59 465	0.9	14 278	0.2	N/A	-	38 974	0.6	210 683	3.2	254 058	3.9	1 126 922	17.3	6 518 353
1994	5 114 963	63.0	153 076	1.9	27 355	0.3	N/A	-	140 140	1.7	346 546	4.3	439 356	5.4	1 894 747	23.3	8 116 183
1995	5 184 287	68.9	88 136	1.2	1 330	0.0	N/A	-	32 954	0.4	378 991	5.0	432 596	5.7	1 407 937	18.7	7 526 231
1996	4 363 730	66.2	120 753	1.8	22 400	0.3	N/A	-	366 280	5.6	297 847	4.5	359 269	5.4	1 061 842	16.1	6 592 121
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
<b>TOTAL</b>	<b>143 883 356</b>	<b>77.0</b>	<b>5 065 773</b>	<b>2.7</b>	<b>761 780</b>	<b>0.4</b>	<b>1 114 051</b>	<b>0.6</b>	<b>10 428 493</b>	<b>5.6</b>	<b>3 854 507</b>	<b>2.1</b>	<b>6 784 714</b>	<b>3.6</b>	<b>14 877 610</b>	<b>8.0</b>	<b>186 770 284</b>

**SELECTED MINING COMMODITIES  
1983 - 2002**

**TABLE W11**

**WELLAND CANAL SECTION**

YEAR	COAL		COKE		IRON ORE		CLAY & BENTONITE		GRAVEL & SAND		STONE		SALT		OTHER MINING		TOTAL MINING TONNES
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	
1983	5 494 597	30.4	683 081	3.8	9 229 290	51.0	76 849	0.4	203 063	1.1	402 008	2.2	1 455 070	8.0	550 870	3.0	18 094 828
1984	6 603 148	31.2	858 598	4.1	10 088 727	47.7	157 206	0.7	318 736	1.5	537 791	2.5	1 725 967	8.2	880 040	4.2	21 170 213
1985	5 807 694	33.9	921 887	5.4	6 788 799	39.6	162 410	0.9	176 291	1.0	815 313	4.8	1 521 180	8.9	931 702	5.4	17 125 276
1986	5 775 521	34.4	993 268	5.9	5 839 484	34.8	161 366	1.0	82 436	0.5	1 005 908	6.0	1 882 656	11.2	1 026 770	6.1	16 767 409
1987	5 644 283	34.2	822 061	5.0	6 180 641	37.4	164 766	1.0	89 372	0.5	889 303	5.4	1 766 446	10.7	952 116	5.8	16 508 988
1988	7 029 061	35.0	1 638 341	8.2	7 083 883	35.3	240 823	1.2	226 492	1.1	1 007 689	5.0	1 672 709	8.3	1 193 457	5.9	20 092 455
1989	6 321 198	31.5	1 412 270	7.0	7 293 840	36.3	215 214	1.1	241 749	1.2	1 187 261	5.9	2 176 005	10.8	1 229 834	6.1	20 077 371
1990	6 265 959	32.0	1 037 047	5.3	7 483 022	38.2	229 581	1.2	214 373	1.1	1 781 577	9.1	1 513 195	7.7	1 065 678	5.4	19 590 432
1991	5 276 522	34.8	459 181	3.0	5 698 201	37.5	151 485	1.0	163 412	1.1	1 179 384	7.8	1 355 831	8.9	899 298	5.9	15 183 314
1992	5 137 176	35.3	745 292	5.1	4 299 855	29.5	145 918	1.0	195 711	1.3	963 437	6.6	1 855 845	12.8	1 209 285	8.3	14 552 519
1993	3 472 603	25.7	809 271	6.0	5 025 280	37.2	171 967	1.3	149 597	1.1	1 378 250	10.2	1 462 920	10.8	1 037 375	7.7	13 507 263
1994	3 641 745	22.5	858 209	5.3	7 346 125	45.3	183 725	1.1	182 157	1.1	1 323 047	8.2	1 761 044	10.9	915 745	5.6	16 211 797
1995	3 998 085	24.4	959 115	5.8	6 328 853	38.6	231 066	1.4	196 903	1.2	1 411 951	8.6	2 309 656	14.1	964 337	5.9	16 399 966
1996	4 503 666	24.1	834 731	4.5	7 977 703	42.6	221 755	1.2	196 424	1.0	1 554 972	8.3	2 439 007	13.0	986 786	5.3	18 715 044
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
<b>TOTAL</b>	<b>101 998 121</b>	<b>30.3</b>	<b>18 230 420</b>	<b>5.4</b>	<b>131 541 678</b>	<b>39.1</b>	<b>3 551 834</b>	<b>1.1</b>	<b>3 863 803</b>	<b>1.1</b>	<b>21 323 105</b>	<b>6.3</b>	<b>37 131 844</b>	<b>11.0</b>	<b>18 568 511</b>	<b>5.5</b>	<b>336 209 316</b>

**SELECTED PROCESSED COMMODITIES  
1983 - 2002**

**TABLE W12**

**WELLAND CANAL SECTION**

YEAR	GASOLINE		FUEL OIL		CHEMICALS		SODIUM PRODUCTS		PIG IRON		MANUFACTURED IRON & STEEL (1)		CEMENT		SCRAP IRON & STEEL		OTHER PROCESSED	
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	%
1983	218 092	3.1	835 488	11.9	508 286	7.3	252 866	3.6	150 896	2.2	2 782 095	39.7	409 794	5.8	366 974	5.2	1 480 605	21.1
1984	251 160	3.3	678 186	8.9	505 130	6.6	130 189	1.7	218 538	2.9	3 962 917	51.8	531 399	6.9	325 725	4.3	1 053 561	13.8
1985	141 601	1.9	628 613	8.4	607 910	8.1	170 520	2.3	89 263	1.2	3 094 923	41.2	309 120	4.1	753 927	10.0	1 710 966	22.8
1986	186 564	2.4	603 625	7.8	776 373	10.1	225 014	2.9	71 730	0.9	2 850 070	37.0	347 060	4.5	782 966	10.2	1 850 273	24.0
1987	97 982	1.4	569 051	8.1	627 657	8.9	159 538	2.3	104 815	1.5	2 674 513	38.1	549 874	7.8	372 318	5.3	1 869 021	26.6
1988	126 537	1.7	669 756	9.2	801 269	11.1	112 888	1.6	82 921	1.1	3 034 185	41.9	488 672	6.7	364 658	5.0	1 566 387	21.6
1989	275 681	3.7	637 605	8.5	864 621	11.6	34 820	0.5	65 164	0.9	3 092 769	41.4	367 748	4.9	313 738	4.2	1 825 750	24.4
1990	223 997	3.2	938 742	13.5	684 828	9.9	87 502	1.3	66 500	1.0	2 764 197	39.8	407 310	5.9	369 092	5.3	1 395 427	20.1
1991	150 401	2.6	655 024	11.4	529 638	9.2	30 130	0.5	35 577	0.6	2 549 540	44.2	355 305	6.2	314 278	5.4	1 148 269	19.9
1992	103 252	1.7	495 897	8.1	500 063	8.2	52 538	0.9	70 105	1.1	2 271 722	37.3	375 451	6.2	375 259	6.2	1 852 412	30.4
1993	35 535	0.5	407 218	5.8	591 409	8.4	56 031	0.8	55 792	0.8	3 120 927	44.5	858 144	12.2	200 666	2.9	1 693 550	24.1
1994	157 505	1.6	697 751	7.1	389 241	4.0	77 896	0.8	81 007	0.8	5 245 524	53.3	1 422 700	14.4	149 454	1.5	1 628 285	16.5
1995	18 033	0.2	605 005	7.6	543 935	6.8	40 335	0.5	132 434	1.7	3 333 160	41.9	1 194 011	15.0	144 127	1.8	1 951 546	24.5
1996	60 862	0.6	615 844	6.3	538 342	5.5	28 800	0.3	162 882	1.7	4 610 328	47.5	1 439 717	14.8	155 838	1.6	2 095 832	21.6
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
<b>TOTAL</b>	<b>2 879 635</b>	<b>1.8</b>	<b>11 900 393</b>	<b>7.6</b>	<b>11 394 034</b>	<b>7.2</b>	<b>1 901 929</b>	<b>1.2</b>	<b>2 640 216</b>	<b>1.7</b>	<b>66 187 310</b>	<b>42.0</b>	<b>17 953 326</b>	<b>11.4</b>	<b>5 866 468</b>	<b>3.7</b>	<b>36 684 163</b>	<b>23.3</b>

(1) Includes Steel Slab



## NOTES