DEPARTMENT OF RAILWAYS AND CANALS

CANAL STATISTICS

FOR THE

SEASON OF NAVIGATION

1910

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
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1911

[No. 20a—1911]

To His Excellency the Right Honourable Sir Albert Henry George, Earl Grey, Viscount Howick, Baron Grey of Howick, in the County of Northumberland, in the Peerage of the United Kingdom and a Baronet; Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, &c., &c., &c., Governor General of Canada.

MAY IT PLEASE YOUR EXCELLENCY,

The undersigned has the honour to present to Your Excellency the report on Canal Statistics for the year ended December 31, 1910.

GEO. P. GRAHAM,
Minister of Railways and Canals.

To the Honourable GEORGE P. GRAHAM,
Minister of Railways and Canals.

SIR,—I have the honour to submit the annual report of the Comptroller of Statistics in relation to the operations of the Canals of the Dominion for the year ended December 31, 1910.

I have the honour to be, Sir,
Your obedient servant,

A. W. CAMPBELL,
Deputy Minister of Railways and Canals.

OFFICE OF THE COMPTROLLER OF STATISTICS,
February 15, 1911.

A. W. CAMPBELL, Esq.,
Deputy Minister of Railways and Canals.

SIR,—I have the honour to submit to you herewith Canal Statistics for the year ended December 31, 1910.

It will be observed that there was a further substantial increase in the volume of traffic through the canals of the Dominion. The freight transported amounted to 42,990,608 tons, as compared with 33,720,748 tons in 1909. This betterment of 9,269,860 tons was equal to 27·5 per cent.

The freight traffic of 1910 was distributed among the various canals as follows :—

	Tons.	Increase.
Sault Ste. Marie	36,395,687	8,534,442
Welland	2,326,290	300,339
St. Lawrence	2,760,752	350,123
Chambly	669,299	.....
St. Peter's	85,951	6,101
Murray	177,941	75,650
Ottawa	385,261	48,322
Rideau	134,881	43,107
Trent	46,263	.....
St. Andrew's	8,283	8,283
Total	42,990,608	9,366,367

It may be explained that St. Andrew's lock, which was constructed in 1909 to overcome the rapids by that name in the Red River near Winnipeg, appears in the list of canals for the first time. The traffic which it makes possible is between Lake Winnipeg and the city of Winnipeg.

In order that comparison may be made with preceding years, and, at the same time, a demonstration afforded of the rapid expansion of Canadian waterborne business, the figures relating to tonnage for the past decade are given :—

1901	5,665,259	tons.
1902	7,513,197	"
1903	9,203,817	"
1904	8,256,236	"
1905	9,371,744	"
1906	10,523,185	"
1907	20,543,639	"
1908	17,502,820	"
1909	33,720,748	"
1910	42,990,608	"

The growth during the first five-year period was equal to 65 per cent, and during the second period 308 per cent.

The business of the past three years was distributed among the various canals as follows :—

—	1908.	1909.	1910.
Sault Ste. Marie	12,759,216	27,861,245	36,395,687
Welland	1,703,453	2,025,951	2,326,290
St. Lawrence	2,009,102	2,410,629	2,760,752
Chambly	503,276	752,117	669,299
St. Peter's	72,015	79,850	85,951
Murray	25,901	102,291	177,941
Ottawa	258,527	336,939	385,261
Rideau	89,640	91,774	134,881
Trent	81,690	59,952	46,263
St. Andrew's			8,283

The classes of commodities which constitute l the tonnage of the past two years with the volume of each, are shown in the following table :

Canals.	Vegetable Products.	Animal Products.	Manufactures.	Produce of Forest.	Produce of Mines.	Total.
1909.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Soo	2,832,388	277,887	710,360	71,129	23,969,481	27,861,245
Welland	850,018	71,848	506,489	186,614	410,982	2,025,951
St. Lawrence	718,461	68,146	472,656	509,157	642,209	2,410,629
Chambly	780	19,612	9,560	599,330	122,835	752,117
St. Peter's	3,794	14,867	7,626	8,423	45,140	79,850
Murray	628	890	50,035	655	50,083	102,291
Ottawa	668	8,788	64,153	232,025	31,305	336,939
Rideau	1,268	4,101	42,642	26,727	17,036	91,774
Trent	664	490	1,880	55,086	1,832	59,952
Total	4,408,669	466,629	1,865,401	1,689,146	25,290,903	33,720,748
1910.						
Soo	2,530,396	304,729	862,526	100,613	32,597,423	36,395,687
Welland	982,346	60,880	516,333	154,737	611,994	2,326,290
St. Lawrence	856,611	83,754	497,007	564,328	759,052	2,760,752
Chambly	783	23,288	21,834	496,119	127,275	669,299
St. Peter's	4,603	14,867	7,889	10,124	48,468	85,951
Murray	20	4,544	162,506	3,471	7,400	177,941
Ottawa	726	8,111	72,294	268,199	35,934	385,261
Rideau	1,433	3,576	76,299	40,026	13,547	134,881
Trent	298	765	8,672	35,849	679	46,263
St. Andrew's	1	153	177	7,952		8,283
Total	4,377,214	504,667	2,225,537	1,681,418	34,201,772	42,990,608

The proportion of commodities by classes is shown in the following comparison for 1909 and 1910:—

—	1909.	1910.
	Per cent.	Per cent.
Vegetable products	13·0	10·2
Animal "	1·5	1·2
Manufactures	5·6	5·2
Produce of forests	4·9	3·9
Produce of mines	75·0	79·5

Transportation of Canadian Wheat.

The growth of the Canadian wheat trade has been reflected in the rising tonnage of the canal at Sault Ste. Marie. In order that the facts may be in mind, following is a statement of the volume of wheat which passed through that canal since it was opened for business in 1895:—

	Bushels.
1895	4,518,334
1896	19,314,234
1897	17,925,834
1898	9,746,600
1899	12,759,634
1900	9,292,034
1901	9,639,534
1902	27,912,500
1903	32,233,934
1904	29,794,100
1905	25,983,100
1906	34,389,300
1907	49,399,967
1908	58,574,034
1909	*48,047,833
1910	51,774,833

During the past year it became necessary, in the adjustment of statistical methods, to make a more or less thorough study with respect to the movement of Canadian wheat through the canal at Sault Ste. Marie. Errors had been made in the classification of wheat of Canadian origin, and it was important to ascertain the correct figures. The inquiry covered the years 1909 and 1910.

It may be explained, that up to 1908 it had not been the practice of this Department to identify the products of Canada or the United States when they passed through any of the canals. At Sault Ste. Marie this was the rule on both sides of the boundary. Hence, it was quite impossible to know the volume of Canadian wheat which came down from the West or to follow the course which it took. This was obviously a defect in our statistical work, and a change was made in 1908.

*For the first time represents Canadian wheat only. The figures of preceding years include American wheat which passed through the Canadian Canal.

A further explanation is necessary. At Sault Ste. Marie there are two canals, one on the Canadian side of the line and the other on the American side.

Both canals are free, and the captain of a vessel may select whichever one he may at the moment prefer. On the Canadian side the origin of all commodities passed through the canal is recorded. On the American side an account it is understood, has been kept during the past two years of Canadian wheat taking that route; but the facts are not officially made public. In any event, only the volume is ascertained. The subsequent movement of each cargo is not made a matter of record.

Using the corrected figures, the volume of Canadian wheat which passed through the Sault Ste. Marie Canal during the year 1910 was 1,553,245 tons, or 51,774,833 bushels. In 1909 the aggregate was 1,441,435 tons, or 48,047,833 bushels. In addition, 9,117,328 bushels of Canadian wheat passed through the American canal in 1909, and 5,321,446 bushels in 1910. Joining the shipments of Canadian wheat which passed through the two canals, the total was 57,165,161 bushels for 1909, and 57,096,279 bushels for 1910.

By a careful analysis of the ships' reports it was ascertained that the distribution of Canadian wheat which passed through the Canadian Canal at Sault Ste. Marie in 1909 and 1910 without reference to official figures appearing elsewhere and here corrected, was as follows:—

	1909.	1910.
	Bushels.	Bushels.
Fort William to Montreal	10,517,266	13,185,370
" " " Georgian Bay	13,384,400	12,753,200
" " " other Canadian ports	10,149,633	9,603,400
" " " Buffalo	12,841,334	15,693,363
Duluth to Montreal	520,000	315,000
" " Buffalo	528,200	224,500
" " Georgian Bay	28,000	.....
" " other Canadian ports	79,000	.....
Total	48,047,833	51,774,833
Through American canal	9,117,328	5,321,446
Grand total	57,165,161	57,096,279

As has been said, the course of Canadian wheat which passed through the American canal at Sault Ste. Marie cannot be followed. With respect to that which passed through the Canadian canal, however, the following summary illuminates the facts given in the preceding paragraph.

	1909.	1910.
	Per cent.	Per cent.
Fort William to Montreal	21·9	25·5
" " Georgian Bay	27·9	24·6
" " other Canadian ports	21·1	18·5
" " Buffalo	26·7	30·3
Duluth to Canadian ports	1·3	·6
" American "	1·1	·5

With regard to the situation as a whole, it will be seen that 62 per cent of the Canadian wheat which came down from the West in 1910 followed Canadian channels from start to finish. The remaining 38 per cent passed in part or wholly through American channels.

It will be observed that last year 30·3 per cent of the wheat which was shipped eastward by water from the provinces of the Canadian west found an outlet by way of Buffalo. This took place in spite of the fact that both distance and rates were in favour of the St. Lawrence route. The freight rate which prevailed during the season was from 3½ to 4½ cents per bushel from the head of Lake Superior to Montreal. From either Duluth or Fort William to New York the rate was from 4 to 5 cents, according to the season. It would seem that the popular conviction with respect to the controlling force of distance and rates in the handling of a commodity like wheat, which is supposed to yield most easily to such influences, is not entirely sound. Other conditions may act as a countervail. They did in this instance to the extent indicated.

It may help to a better understanding of our inland waterborne trade if the conditions which caused the diversion to Buffalo of over 30 per cent of the Canadian wheat which passed through the Sault Ste. Marie canal in 1910, while only 25 per cent was delivered at Montreal, are briefly presented. It may not be considered improper to discuss the basic facts of the matter, frankly and fairly in a report of this character. On the surface it would appear reasonable to expect that a cargo of wheat taken aboard a vessel at Fort William, and consigned to Liverpool, would seek the nearest ocean port. Montreal happens to be that port. Moreover, the lake freight rate to Montreal last year was from a half to over one cent per bushel less than the combined vessel and rail rate to New York, via Buffalo. At Buffalo the entire cargo must be transferred to cars or to barges. Only a small percentage of the 15,693,363 ~~tons~~ bushels of Canadian wheat which is definitely known to have gone to Buffalo in 1910 was carried by water to New York. The rail route commands the trade.

The conditions which operated against the St. Lawrence route in 1910, as in preceding years, were: First, the character of the vessels which ply between the head of Lake Superior and Buffalo; second, the ocean freight rates; third, the Atlantic insurance rate; and fourth, return cargo. The United States steamers engaged in the grain trade of the Great Lakes are much larger than those which can pass through the 14 feet waterway provided by the Welland and St. Lawrence canals. Such vessels can carry 450,000 bushels of wheat without lightering at Sault Ste. Marie. With a draft of 21 feet they cannot pass beyond Lake Erie. Many of them, too, are owned by the railways operating between Buffalo and New York. They have an advantage in the economical transportation of grain as against smaller steamers.

The ocean rates out of New York are lower than out of Montreal. The difference is from ¾ to 1½ cents per bushel in favor of the former port. This situation is due to a number of causes, to which allusion need not be made here. The fact alone is of immediate importance.

The rates of marine insurance for vessels sailing out of Montreal during the season of 1910 were as follows: From the opening of navigation to 15th September, 25 cents per $100; from October 16th to 31st, 45 cents; from 1st to 15th November, 60 cents;

from 16th November to close of navigation, 75 cents. From New York and Boston the rates were from 12½ to 15 cents, according to the class of steamer, throughout the entire year.

The fourth consideration—return cargo—is of relatively large importance. It was ascertained that United States steamers were able during the season of 1910 to obtain westbound cargo at Buffalo, chiefly coal, to the extent of a little more than 50 per cent. of their capacity. The return cargo obtained by vessels at Montreal did not exceed 25 per cent. So far as vessels bound for Fort William were concerned, it did not reach 15 per cent.

The distribution of Canadian wheat which passed through the Sault Ste. Marie Canal during the seasons of 1909 and 1910 disclosed another fact worthy of attention. Of the entire traffic, 43 per cent was carried to Georgian Bay and other Canadian ports west of Lake Erie. Thence it was transported by rail eastward, chiefly to Montreal. It is sufficient to give the statistical facts, without comment, which this movement has created. The vessel freight rate from Fort William to Georgian Bay has averaged about 2 cents per bushel for the past two years. During the middle of the season of 1910 it was from 1 to 1¼ cents. To this must be added the rail rate from Georgian Bay to Montreal, which was from 3½ to 5 cents per bushels, including the cost of elevation at both terminal points.

SAULT STE. MARIE CANAL.

The canal at Sault Ste. Marie forms the chief gateway of the inland waterborne traffic of the Dominion. Eighty-four per cent of the aggregate canal business of 1910 passed through the lock at that point. Having regard to freight tonnage, the eastbound traffic represented last year over 87 per cent of the total, showing that the movement of commodities is principally in one direction. Iron ore has for some years held first place in the freight list of easthound cargoes, while wheat comes next. The up, or westbound, movement consists, to the extent of about 70 per cent, of coal. In view of the important position of the Sault Ste. Marie Canal, the following comparative summary of statistical facts is of interest :

Years.	Canadian Vessels.		U. S. Vessels.		Total No.	Vessel Tonnage.	Freight Tonnage.			Lockages.	Days Open.	Remarks.
	No.	Tonnage.	No.	Tonnage.			Canadian.	United States.	Total.	No.	No.	
1895	609	126,534	583	623,092	1,192	749,626			595,837	699	87	Canal first operated Sept. 9, 1895.
1896	2,070	589,407	3,066	3,805,749	5,136	4,395,156			4,577,399	3,042	218	
1897	1,909	495,546	2,359	3,391,936	4,268	3,797,482			4,947,065	2,604	238	
1898	1,811	403,931	1,864	2,353,699	3,675	2,757,630			3,055,387	2,520	243	
1899	2,000	558,552	1,769	2,389,457	3,769	2,948,009			3,006,664	2,610	239	
1900	1,790	577,310	1,291	1,617,438	3,081	2,194,748			2,035,677	2,205	238	
1901	2,796	775,151	1,408	1,674,597	4,204	2,449,748			2,820,394	2,910	246	
1902	3,080	1,366,930	1,964	3,237,372	5,044	4,604,302			4,729,268	3,418	264	
1903	2,711	1,615,939	1,640	3,146,807	4,351	4,762,746			5,511,868	3,242	256	
1904	2,637	1,555,042	1,325	2,675,663	3,962	4,230,705			5,030,705	3,022	241	
1905	3,970	1,803,288	1,692	3,734,349	5,662	5,537,637			5,473,406	4,031	255	
1906	3,922	1,959,252	1,758	4,399,872	5,680	6,359,124			6,574,039	4,152	253	
1907	3,217	2,154,688	3,132	9,961,281	6,349	12,115,969			15,588,165	4,596	238	
1908	3,289	2,603,232	2,204	7,035,655	5,293	9,638,887	2,092,231	10,666,985	12,759,216	3,667	235	Origin of cargo first shown.
1909	2,597	2,988,936	3,734	14,850,738	6,331	17,839,674	3,366,495	24,494,750	27,861,245	5,046	240	
1910	2,744	3,173,494	5,228	20,187,704	7,972	23,361,198	3,345,619	33,050,068	36,395,687	6,110	248	

GENERAL STATISTICS.

STATEMENT of total Freight passed through the Canals for the following years.

Years.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up and Down.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.			
1887	336,648	1,154,424	138,692	202,563	151,805	192,528	86,374	457,482	713,519	2,006,997	2,720,516
1888	355,165	1,146,260	138,127	174,239	214,407	223,429	81,611	428,357	789,310	1,972,287	2,761,597
1889	384,777	1,156,306	122,295	198,497	267,224	300,193	81,243	603,311	855,529	2,258,367	3 113,896
1890	369,593	1,137,011	144,368	133,188	216,813	320,324	58,709	533,021	789,505	2,123,542	2 913,047
1891	370,120	1,155,247	103,814	123,193	248,188	307,958	50,747	543,259	772,869	2,129,657	2,902,526
1892	327,560	1,322,137	173,538	135,787	241,034	302,983	47,396	481,301	789,528	2,242,208	3,031,736
1893	351,706	1,344,822	214,076	141,602	247,329	385,769	54,912	806,773	868,023	2,678,966	3,546,989
1894	299,155	1,140,606	204,175	89,614	231,172	363,107	46,020	568,866	780,522	2,162,193	2,942,715
1895	264,824	1,070,046	286,191	91,177	362,637	608,778	62,285	590,140	975,937	2,360,141	*3,336,078
1896	293,353	1,619,668	259,659	100,519	1,197,245	3,536,054	117,535	867,040	1,867,792	6,123,281	7,991,073
1897	275,587	1,713,274	268,700	187,960	669,142	4,369,314	108,787	968,203	1,322,216	7,238,751	8,560,967
1898	263,989	1,819,887	187,253	98,967	829,508	2,425,121	81,615	912,135	1,362,365	5,256,110	6,618,475
1899	296,208	1,833,412	266,364	115,133	732,030	2,129,988	125,678	727,111	1,420,280	4,805,644	6,225,924
1900	312,201	1,632,915	270,033	81,714	568,197	1,339,915	105,155	703,563	1,255,586	3,758,107	5,013,693
1901	340,805	1,686,094	268,449	201,231	507,204	1,801,696	177,715	682,065	1,294,173	4,371,086	5,665,259
1902	529,085	2,064,480	308,212	342,484	515,828	3,000,636	190,243	562,229	1,543,368	5,969,829	7,513,197
1903	648,150	2,391,366	430,174	408,500	863,337	3,130,816	373,456	958,018	2,315,117	6,888,700	9,203,817
1904	606,737	2,047,499	511,887	276,578	699.784	2,778,903	483,795	851,053	2,302,203	5,954,033	8,256,236
1905	736,976	2,252,514	549,365	347,089	607,228	3,183,895	577,528	1,137,146	2,451,097	6,920,647	9,371,744
1906	1,238,929	2,355,855	627,094	234,919	991,508	3,595,256	482,239	997,385	3,339,770	7,183,415	10,523,185
1907	1,034,733	3,162,158	891,692	226,138	1,991,959	11,060,878	819,369	1,356,712	4,737,753	15,805,886	20,543,639
1908	1,028,246	3,292,422	560,736	278,721	1,704,310	8,218,866	972,300	1,447,219	4,265,592	13,237,228	17,502,820
1909	1,608,659	3,504,849	1,060,715	607,894	1,985,522	22,385,226	1,023,829	1,544,054	5,744,349	27,976,399	33,720,748
1910	2,312,740	3,861,272	600,144	661,436	3,323,822	29,530,163	995,749	1,705,282	7,232,455	35,758,153	42,990,608

* Sault Ste. Marie canal opened in August, 1895.

STATEMENT of the Tonnage of Canadian and United States Vessels for the following years:—

CANADIAN VESSELS.

YEARS.	FROM CANADIAN TO CANADIAN PORTS.		FROM CANADIAN TO UNITED STATES PORTS.		FROM UNITED STATES TO UNITED STATES PORTS.		FROM UNITED STATES TO CANADIAN PORTS.		TONS.		TOTAL TONS.	Number of Vessels.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up and Down.	
1887.....	1,201,529	1,194,665	162,554	36,277	1,071	65	30,778	221,013	1,395,932	1,452,020	2,847,952	18,991
1888.....	1,113,290	1,120,774	158,209	34,368	1,252	.....	22,553	189,876	1,295,304	1,345,018	2,640,322	17,661
1889.....	1,285,574	1,207,892	188,131	39,371	976	802	20,271	252,565	1,494,952	1,500,630	2,995,582	19,393
1890...	1,314,127	1,250,999	229,478	32,909	929	351	14,003	296,676	1,558,537	1,580,935	3,139,472	20,655
1891....	1,356,518	1,287,168	201,758	28,642	550	292	16,350	244,176	1,575,176	1,560,278	3,135,454	19,246
1892. ...	1,517,249	1,460,505	177,136	29,184	1,466	394	14,659	201,374	1,710,510	1,691,455	3,401,965	21,177
1893.....	1,548,094	1,422,326	170,186	26,787	1,172	10	17,037	248,442	1,736,489	1,697,565	3,434,054	20,757
1894.....	1,319,792	1,260,907	217,635	19,298	2,177	5	6,394	222,696	1,545,998	1,502,906	3,048,904	19,027
1895. ...	1,258,848	1,165,683	253,693	13,383	.....	.....	5,899	285,553	1,518,440	1,464,619	2,983,059	17,136
1896.....	1,547,757	1,420,342	200,292	5,234	157	....	4,115	271,809	1,752,321	1,697,385	3,449,706	20,972
1897.....	1,629,192	1,482,951	215,785	11,378	....	....	3,533	297,898	1,848,510	1,792,227	3,640,737	21,466
1898....	1,704,661	1,609,255	215,393	4,927	499	518	6,805	255,927	1,927,358	1,870,627	3,797,985	21,509
1899.....	1,865,643	1,774,789	242,817	32,436	925	3,691	42,290	345,980	2,151,675	2,156,896	4,308,571	23,579
1900. ...	1,767,293	1,681,340	265,926	14,922	2,909	64	38,015	358,781	2,074,143	2,055,107	4,129,250	21,755
1901. ...	1,615,952	1,587,221	279,007	82,541	3,300	2,908	97,332	312,003	1,995,591	1,984,673	3,980,264	20,860
1902. ..	1,914,167	1,840,787	241,356	97,492	1,874	2,164	101,335	286,520	2,258,732	2,226,963	4,485,695	22,198
1903.....	2,061,258	2,088,969	340,383	143,614	7,018	3,082	188,896	379,612	2,597,555	2,615,277	5,212,832	23,767
1904.....	1,838,260	1,907,886	299,245	159,740	5,175	4,223	237,910	319,661	2,380,590	2,391,510	4,772,100	21,851
1905. ...	2,059,097	2,031,766	312,773	188,138	11,820	3,191	262,401	322,005	2,646,091	2,545,100	5,191,191	23,726
1906. ...	2,271,776	2,264,476	292,705	155,595	24,420	5,506	202,276	309,567	2,791,177	2,735,144	5,526,321	25,498
1907. ...	2,561,948	2,661,317	337,822	129,246	9,153	7,331	238,172	383,922	3,147,095	3,181,816	6,328,911	28,833
1908.....	2,726,776	2,748,139	318,327	227,315	5,057	7,844	348,944	398,387	3,399,104	3,381,685	6,780,789	29,040
1909.....	3,335,187	2,992,403	300,320	217,989	82,591	111,236	257,945	513,907	3,976,043	3,835,535	7,811,578	22,507
1910. ...	3,891,613	3,504,463	315,656	122,688	95,151	89,618	287,555	627,046	4,587,975	4,343,815	8,931,790	25,337

STATEMENT of the Tonnage of Canadian and United States Vessels for the following years:—

UNITED STATES VESSELS.

YEARS.	FROM CANADIAN TO CANADIAN PORTS.		FROM CANADIAN TO UNITED STATES PORTS.		FROM UNITED STATES TO UNITED STATES PORTS.		FROM UNITED STATES TO CANADIAN PORTS.		TONS		TOTAL TONS.	Number of Vessels.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up and Down.	
1887. ...	16,265	17,925	38,857	56,708	143,730	140,562	52,793	98,840	251,645	315,035	566,680	3,883
1888.....	14,304	26,801	42,425	50,047	177,714	156,095	49,778	114,613	284,221	347,556	631,777	3,921
1889....	21,125	26,449	55,996	50,732	253,088	206,567	56,249	160,442	386,458	444,190	830,648	4,542
1890. ...	10,390	16,345	38,156	36,397	248,418	234,728	39,697	97,266	336,661	384,736	721,397	3,364
1891.....	10,357	29,851	70,665	27,727	283,013	238,818	31,083	146,602	395,118	442,998	838,116	3,602
1892.....	12,023	29,405	88,221	22,763	280,315	229,437	37,037	172,594	417,596	454,199	871,795	3,928
1893.....	10,752	34,303	214,047	33,741	351,994	282,724	50,994	307,740	627,787	658,508	1,286,295	4,585
1894.....	18,528	30,201	139,720	20,830	302,562	269,788	37,406	192,992	498,216	513,811	1,012,027	4,131
1895....	8,838	24,768	138,554	17,712	262,240	216,542	32,295	185,730	441,927	444,752	886,679	4,427
1896	11,496	19,093	195,228	21,953	357,205	292,359	40,416	290,370	604,345	623,775	1,228,120	4,650
1897. ...	14,666	18,367	269,430	17,618	338,938	277,345	26,341	347,698	649,375	661,028	1,310,403	4,675
1898.....	12,142	9,541	233,524	32,880	308,878	305,464	32,331	336,004	586,875	683,889	1,270,764	4,264
1899.....	17,217	18,044	172,897	30,002	1,605,887	1,156,503	51,902	234,336	1,846,848	1,438,885	3,285,733	6,101
1900.....	13,316	17,824	157,689	30,443	1,208,725	744,276	45,741	190,971	1,425,471	983,514	2,408,985	5,502
1901.....	11,587	18,706	177,169	28,124	922,464	1,044,707	54,895	224,622	1,166,115	1,316,159	2,482,274	5,634
1902.....	13,622	37,871	187,826	70,641	1,756,948	1,654,672	123,257	241,602	2,081,653	2,004,786	4,086,439	6,433
1903....	14,014	24,168	265,208	65,247	1,736,187	1,689,414	106,401	335,836	2,121,810	2,114,665	4,236,475	6,695
1904.....	10,122	16,890	275,721	39,993	1,464,316	1,475,085	68,081	305,697	1,818,240	1,837,665	3,655,905	6,253
1905.....	19,743	19,444	364,985	81,876	2,350,494	1,701,704	101,536	456,459	2,836,758	2,259,483	5,096,241	7,085
1906.....	34,306	15,324	356,259	78,561	2,738,623	1,928,131	115,675	418,436	3,244,863	2,440,452	5,685,315	7,319
1907.....	57,349	72,018	301,591	72,048	4,730,053	5,376,060	205,769	623,941	5,463,767	6,141,067	11,604,834	9,328
1908 ...	54,587	32,705	442,773	124,120	2,975,624	4,142,392	218,835	536,103	3,685,819	4,835,320	8,521,139	7,489
1909.....	263,592	109,407	442,176	200,202	4,178,378	10,429,314	213,750	621,903	5,098,196	11,361,126	16,459,322	9,996
1910.....	119,222	50,498	428,702	305,330	5,509,417	14,488,565	299,462	576,101	6,356,803	15,420,494	21,777,297	11,462

CAPITAL EXPENDITURE.

The statement following brings the capital expenditure on the Canals of the Dominion down to March 31, 1910. It must be understood, however, that the total shown is apart from the outlay by the Imperial Government on the Carillon and Grenville Canal, as to which the records were lost in the destruction by fire of the Ordnance Office, Montreal, in 1852. The details are as follow :—

Canal.	Construction.	Enlargement.	Total.
	$ c.	$ c.	$ c.
St. Peter's	648,547 14		648,547 14
Lachine	2,589,532 85	9,786,178 93	12,375,711 78
Beauharnois	1,636,690 26		1,636,690 26
St. Lawrence River and Canals	18,442 85	3,451,470 56	3,469,913 41
Lake St. Louis		298,176 11	298,176 11
Lake St. Francis		75,906 71	75,906 71
Cornwall	1,945,624 73	5,289,142 41	7,234,767 14
Williamsburg — Farran's Point		877,090 57	
Williamsburg — Galops		6,118,927 32	
Williamsburg — Rapide Plat		2,158,242 00	10,485,611 69
Williamsburg — Williamsburg	1,320,655 54	10,696 26	
Welland	7,693,824 03	20,813,039 16	28,506,863 19
Ste. Anne's	134,456 51	1,035,759 12	1,170,215 63
*Carillon and Grenville	63,053 64	4,119,039 32	4,182,092 96
Culbute	382,776 46		382,776 46
Rideau	4,085,889 21		4,085,889 21
St. Ours	121,537 65		121,537 65
Chambly	637,214 66	43,786 43	681,001 09
Murray	1,248,946 71		1,248,946 71
Trent	7,873,501 09		7,873,501 09
Tay	489,599 23		489,599 23
Sault Ste. Marie	4,868,532 60		4,868,532 60
Soulanges	7,126,135 61		7,126,135 61
Total	42,884,960 77	54,077,454 90	96,962,415 67

The cost of maintenance during the fiscal year 1910 was $1,608,390.54.

Details of tonnage by canals and commodities will be found in the tables subjoined.

I have the honour to be, Sir,

Your obedient servant,

J. L. PAYNE,
Comptroller of Statistics.

CANAL STATISTICS

FOR

SEASON OF NAVIGATION, 1910

GRAIN PASSED DOWN WELLAND.

The quantity of barley, corn, oats, pease, rye and wheat passed down the Welland Canal, from ports west of Port Colborne for a period of twenty-nine years is as follows:—

	Quantity passed down to Montreal.	To Ports in Ontario.	Quantity from U. S. Ports to U. S. Ports.
	Tons.	Tons.	Tons.
1882	180,694		63,881
1883	186,814	10,650	121,876
1884	142,194	12,153	104,537
1885	96,569	11,909	117,346
1886	203,940	9,881	151,551
1887	185,034	11,838	134,868
1888	160,358	25,599	169,664
1889	267,769	19,075	213,766
1890	288,513	16,899	245,932
1891	295,509	6,805	202,710
1892	261,954	8,942	201,540
1893	501,806	25,555	222,958
1894	273,651	16,699	203,979
1895	231,491	32,096	133,823
1896	461,049	73,386	160,372
1897	560,254 *	53,257	157,756
1898	519,532	31,279	144,612
1899	332,746	40,197	68,011
1900	244,661	17,525	84,589
1901	151,566	13,732	83,370
1902	208,215	22,787	81,164
1903	351,936	29,062	111,828
1904	198,246	23,711	102,523
1905	341,431	42,061	129,270
1906	404,935	33,351	176,119
1907	635,573	42,032	163,295
1908	756,141	38,142	135,172
1909	652,742	40,238	129,587
1910	789,661	63,657	115,457

During the last decade the quantity of agricultural products as above, passed down the Welland and St. Lawrence Canals to Montreal, has increased from 151,566 tons in 1901 to 789,661 tons in 1910, and the quantity passed down the Welland Canal from United States ports to United States, has increased from 83,370 to 115,457 tons the same years.

The quantity of barley, buckwheat, corn, oats, pease, rye and wheat, arrived at Montreal via Grand Trunk and Canadian Pacific Railways for a period of 14 years, is reported as follows:—

	Tons.
For 1897	228,611
1898	293,391
1899	209,170
1900	229,624
1901	227,700
1902	263,861
1903	253,959
1904	154,625
1905	148,377
1906	386,963
1907	383,735
1908	285,262
1909	426,163
1910	

The quantity of the same articles passed down the whole length of the St. Lawrence Canals to Montreal for the same period was:—

	Tons.
For 1897	604,200
1898	575,097
1899	372,291
1900	295,928
1901	203,316
1902	242,225
1903	400,057
1904	220,076
1905	375,630
1906	449,673
1907	684,697
1908	776,374
1909	652,742
1910	789,661

Comparative shipments of grain by the St. Lawrence route, and Railways, are as follows:—

QUANTITY OF GRAIN TO SEA BOARD BY COMPETING ROUTES.

The quantity of grain and pease passed down the whole length of the St. Lawrence Canal to Montreal, is as follows:—

	Tons.
For 1909	652,742
1910	789,661
Showing an increase of	136,919

The quantity of grain and pease carried to Montreal via Canadian Pacific and Grand Trunk Railways is reported as follows:—

	Tons.
For 1909	426,163
1910	
Showing	

TRANSHIPMENT OF GRAIN.

The quantity of grain passed down the Welland Canal in Canadian and United States vessels to Kingston and Prescott for fifteen years is as follows :—

In Canadian vessels there were in—

			Tons.
1896,	196	cargoes, with an aggregate quantity of	227,912
1897,	180	" "	229,265
1898,	166	" "	224,021
1899,	162	" "	221,306
1900,	325	" "	183,200
1901,	112	" "	132,558
1902,	131	" "	175,514
1903,	170	" "	218,840
1904,	115	" "	174,121
1905,	167	" "	239,418
1906,	205	" "	314,605
1907,	255	" "	427,813
1908,	355	" "	598,941
1909,	308	" "	550,276
1810,	383	" "	679,358

In the United States vessels there were in—

			Tons.
1896,	158	cargoes, with an aggregate quantity of	217,978
1897,	197	" "	285,847
1898,	339	" "	464,852
1899,	167	" "	205,571
1900,	259	" "	163,575
1901,	135	" "	123,229
1902,	135	" "	136,652
1903,	219	" "	273,986
1904,	118	" "	150,359
1905,	235	" "	273,344
1906,	178	" "	269,800
1907,	263	" "	413,087
1908,	271	" "	330,514
1909,	174	" "	272,291
1910,	182	" "	295,714

One hundred and sixty-two Canadian and 49 American vessels took cargoes of 343,733 tons through to Montreal intact in 1908; 87 Canadian and 9 American of 135,582 in 1907; 74 Canadian and 10 American of 108,734 tons in 1906; 96 Canadian and 18 American of 180,206 in 1905; 56 Canadian and 16 American of 116,095 tons in 1904; 56 Canadian and 18 American of 99,582 tons in 1903; 19 Canadian and 17 American of 34,804 tons in 1902; 23 Canadian and 2 American of 17,303 tons in 1901, 15 of 7,924 tons in 1900, 2 of 558 tons in 1899, 7 of 2,426 in 1898, 7 of 2,324 in 1897, 3 of 1,176 in 1896, 4 of 1,344 tons in 1905, 2 cargoes of 810 tons in 1894, none in 1893, 2 in 1892 of 924 tons, and 3 in 1891 of 1,441 tons. Three vessels lightened a portion of their cargoes in 1901, 9 in 1900, 11 in 1899, 25 in 1898, 11 in 1897, 16 in 1896, 6 in 1895, 19 in 1894, 34 in 1893, 25 in 1892, and 44 in 1891; 222 vessels discharged the whole of their cargoes at Kingston in 1901, 540 in 1900, 316 in 1899, 473 in 1898, 359 in 1897, 335 in 1896, 169 in 1895, 188 in 1894, 369 in 1893, 220 in 1892, and 293 in 1891.

The quantity of grain transhipped at Port Colborne in 1909 and the four previous years was as follows :—

Articles.	1905.	1906.	1907.	1908.	1909.
	Bush.	Bush.	Bush.	Bush.	Bush.
Wheat	679,840	1,009,474	1,428,300	1,106,244	2,686,963
Corn	104,027	110,629	112,036	.....	.....
Rye	.....	.....	.....	.....	.....
Oats	.....	29,118	30,824	23,945	.....
Barley	.....	2,103	.....	56,544	22,216
Flaxseed	.....	.....	39,040	49,628	8,202

WELLAND CANAL.

The total quantity of freight passed on the Welland Canal during the season of 1910 was 2,326,290 tons; of this quantity 44,771 tons was way or local freight.

There were 1,601.456 tons of freight passed eastward, and 724,834 passed westward.

East and West bound Through Freight.

The total quantity of through freight passed through the whole length of the Welland Canal during the season of 1910 was 2,281,519.

Of this quantity 1,557,283 tons were east bound and 724,236 west bound freight.

Of the east bound through freight, Canadian vessels carried 1,146,457 tons and United States vessels carried 410,826 tons; and of the west bound through freight Canadian vessels carried 357,019 tons and United States vessels carried 367,217 tons, or a total of 1,503,476 tons for Canadian and 778,043 tons for American vessels.

ST. LAWRENCE CANALS.

The total quantity of freight passed through these canals during 1910 was 2,760,752 tons; of this quantity 1,916,733 tons passed eastward and 844,019 passed westward.

East and West bound Through Freight.

The total quantity of through freight was 1,959,771 tons; of this quantity 1,488,551 tons were east bound and 471,220 tons were west bound.

Way Freight.

Of the total quantity of (way) or local freight 428,182 tons were east bound and 372,799 tons west bound freight.

THROUGH TRAFFIC BETWEEN MONTREAL AND PORTS ON LAKE ERIE, MICHIGAN, ETC.

The total quantity of through freights passed eastward from Lake Erie and westward from Montreal through the Welland and St. Lawrence canals, during fifteen years, was as follows :—

	Eastward, to Montreal. Tons.	Westward, from Montreal. Tons.
1896	480,077	10,050
1897	584,246	4,542
1898	538,108	4,436
1899	354,933	5,991
1900	288,251	6,217
1901	184,420	13,714
1902	250,475	25,289
1903	390,786	100,699
1904	278,328	71,512
1905	448,704	72,482
1906	554,231	96,791
1907	789,167	1,281
1908	864,926	3,472
1909	925,005	191,510
1910	1,170,139	172,360

THROUGH FREIGHT FROM UNITED STATES PORTS TO UNITED STATES PORTS.

The total quantity of through freight passed eastward and westward through the Welland Canal, from United States ports to United States ports, for a period of fifteen years, was as follows :—

	Eastward. Tons.	Westward. Tons.	Total. Tons.
1896	385,695	267,518	653,213
1897	353,863	210,831	564,694
1898	277,023	210,516	487,539
1899	225,491	135,038	360,529
1900	218,969	99,560	318,529
1901	190,476	83,543	274,019
1902	224,110	44,919	269,029
1903	221,074	149,151	370,225
1904	165,337	87,144	252,481
1905	190,547	112,549	303,096
1906	237,226	84,205	321,431
1907	218,997	177,660	396,657
1908	209,518	239,136	448,654
1909	196,838	248,581	445,419
1910	197,301	288,198	485,499

The total quantity of freight passed through the Welland Canal from United States ports to United States ports shows an increase of 40,080 tons as compared with the previous year ; and a decreass of 167,714 tons as compared with 1896.

The following statement shows the aggregate number of vessels and the total quantity of freight passed through the Welland Canal, and the quantity passed between United States ports during the years 1867 to 1910 inclusive.

Fiscal Year.	Aggregate number of Trips.	Total quantity transported on the Welland Canal.	Quantity passed from United States ports to United States ports.
	No.	Tons.	Tons.
1867	5,405	933,260	458,386
1868	6,157	1,161,821	641,711
1869	6,069	1,231,903	688,700
1870	7,356	1,311,956	747,567
1871	7,729	1,478,122	772,756
Season of navigation.			
1872	6,063	1,333,104	606,627
1873	6,425	1,506,484	656,208
1874	5,814	1,389,173	748,557
1875	4,242	1,038,050	477,809
1876	4,789	1,099,810	488,815
1877	5,129	1,175,398	493,841
1878	4,429	968,758	373,738
1879	3,960	865,664	284,043
1880	4,104	819,934	179,605
1881	3,332	686,506	194,173
1882	3,334	790,643	282,806
1883	3,267	1,005,156	432,611
1884	3,138	837,811	407,079
1885	2,738	784,928	384,509
1886	3,589	980,135	464,478
1887	2,785	777,918	340,501
1888	2,647	878,800	434,753
1889	2,975	1,085,273	563,584
1890	2,883	1,016,165	533,957
1891	2,594	975,013	553,800
1892	2,615	955,554	541,065
1893	2,843	1,294,823	631,667
1894	2,412	1,008,221	592,267
1895	2,222	869,595	469,779
1896	2,766	1,279,987	653,213
1897	2,725	1,274,292	564,694
1898	2,384	1,140,077	487,539
1899	2,202	789,770	360,529
1900	2,399	719,360	318,529
1901	1,547	620,209	274,019
1902	1,568	665,387	269,029
1903	1,787	1,002,919	370,225
1904	1,433	811,371	252,481
1905	1,595	1,092,050	305,096
1906	1,536	1,201,967	321,431
1907	1,982	1,614,132	396,743
1908	2,351	1,703,453	448,654
1909	2,433	2,025,951	445,419
1910	2,544	2,326,290	487,499

The total quantity of freight passed through the several divisions of the Canadian Canal system during the season of 1910 is as follows :

—	Farm Stock.	Forest Produce of Wood.	Manufactures.	Produce of Mines.	Agricultural Products.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Welland	688	154,737	516,333	611,994	1,042,538	2,326,290
St. Lawrence	9,514	564,328	497,007	759,052	930,851	2,760,752
Chambly	404	496,119	21,834	127,275	23,667	669,299
Ottawa	3,242	268,199	72,294	35,934	5,592	385,261
Rideau	2,124	40,026	76,299	13,547	2,885	134,881
St. Peters	2,599	10,124	7,889	48,468	16,871	85,951
Murray	149	3,471	162,506	7,400	4,415	177,941
Trent Valley	435	35,849	8,672	679	628	46,263
Sault Ste. Marie	1,368	100,613	862,526	32,597,423	2,833,757	36,395,687
St. Andrews		7,952	177		177	8,283

The total quantity of freight moved on the Welland Canal was 2,326,290 tons, of which 1,042,538 tons were agricultural products.

On the St. Lawrence canals the total quantity of freight moved was 2,760,752 tons, of which 930,851 were agricultural products, and 497,007 tons were manufactures.

On the Ottawa canals the total quantity of freight moved was 385,261 tons ; of this quantity 564,328 tons were the produce of the forest.

COMPARATIVE Statement of the Commerce through the United States, St. Mary's Falls Canals and Canadian Sault Ste. Marie Canal, for the Seasons of 1909 and 1910.

	Traffic for 1910.		Total Traffic for		Increase	Decrease.
	U. States Canal.	Canadian Canal.	Season of 1910.	Season of 1909.	Amount.	Amount.
Vessels No.	12,927	7,972	20,899	19,134	1,765	
Lockages. "	8,459	6,110	14,569	13,571	998	
Tonnage registered. Net tons	26,506,986	23,361,198	49,868,184	46,779,137	3,089,047	
" freight. "	25,927,661	36,395,687	62,323,348	57,993,619	4,329,729	
Passengers No.	33,536	33,291	66,827	60,546	6,281	
Coal hard Net tons	1,109,533	601,208	1,710,741	1,422,671	288,070	
" soft "	8,319,072	3,508,357	11,827,429	8,586,321	3,241,108	
Flour. Barrels	4,856,756	2,831,260	7,688,016	7,103,533	584,483	
Wheat. Bushels	17,505,949	68,396,300	85,902,249	112,839,716		25,937,467
Grain (excluding wheat). "	14,945,290	23,855,747	38,601,037	47,493,636		8,692,599
Manufactured & pig iron. Net tons	266,951	218,717	485,668	572,892		87 224
Salt Barrels	390,191	138,419	528,610	651,091		122,481
Copper Net tons	121,438	35,806	157,244	127,212	30,032	
Iron ore "	13,075,362	28,440,952	41,516,314	40,023,414	1,492,900	
Lumber, ft. B. M.	558,607,000	44,646,650	603,253,650	552,003,300	51,250,350	
Silver ore. Net tons						
Building stone "	9,335		9,335	1,784	7,551	
Unclassified freight "	747,886	740,554	1,488,440	1,131,586	356,854	

The United States canal was open to navigation during the season of—

1889	234 days	1900	238 days
1890	228 "	1901	230 "
1891	225 "	1902	256 "
1892	233 "	1903	249 "
1893	219 "	1904	223 "
1894	234 "	1905	245 "
1895	231 "	1906	249 "
1896	232 "	1907	233 "
1897	234 "	1908	231 "
1898	241 "	1909	236 "
1899	231 "	1910	224 "

The Canadian canal was open to navigation during the season of—

1895	87 days	1903	256 days
1896	218 "	1904	241 "
1897	238 "	1905	255 "
1898	243 "	1906	253 "
1899	239 "	1907	238 "
1900	238 "	1908	235 "
1901	246 "	1909	240 "
1902	264 "	1910	248 "

The average number of vessels passing per day through the two canals for the season of 1910 was over eighty-eight.

A—TABLE showing the total tonnage of the undermentioned articles moved Up and Down

Year.	Vegetable Food.						
	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles. †
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869*	45,674	313,825	120,599	20,951	.....	904	1,937
1872	26,651	239,998	254,902	6,035	7,752	64	2,745
1873	30,665	355,847	180,169	8,225	1,194	3	3,777
1874	24,019	413,212	181,151	18,871	5,954	513	8,677
1875	13,964	253,835	103,749	35,751	3,383	917	6,337
1876	15,778	201,906	144,501	18,455	24,496	1,454	3,198
1877	13,558	253,953	169,196	19,870	2,810	2,439	2,355
1878	9,121	191,982	185,931	10,979	3,088	.....	2,302
1879	10,710	274,570	144,506	4,655	1,239	440	2,444
1880	12,679	242,020	163,738	17,772	477	1,016	1,480
1881	9,959	127,832	101,075	24,509	.....	1,844	2,086
1882	12,261	215,056	54,799	20,126	611	3,226	403
1883	13,471	152,794	182,269	10,436	731	1,642	10,983
1884	13,683	144,851	118,811	7,155	10,746	1,320	9,168
1885	13,334	124,206	117,536	15,801	1,116	.....	1,912
1886	19,474	154,169	219,442	1,595	4,911	564	14,657
1887	23,949	221,927	114,938	9,574	12,050	.....	12,533
1888	16,983	160,963	194,886	5,906	26,629	811	13,608
1889	7,931	126,664	353,595	4,272	28,356	2,673	18,552
1890	14,461	118,002	327,394	10,830	27,728	1,549	20,876
1891	13,517	198,658	185,180	8,113	52,959	65,888	28,042
1892	17,046	232,019	192,548	6,433	37,173	9,392	32,815
1893	15,235	258,392	441,092	18,599	31,283	3,671	36,981
1894	33,628	270,993	169,233	28,353	27,962	567	60,673
1895	44,044	203,088	164,894	8,689	18,236	1,007	46,463
1896	42,425	320,563	320,444	11,368	28,178	9,405	56,591
1897	9,065	324,743	390,615	14,173	25,161	8,483	44,674
1898	5,578	207,647	437,861	12,286	17,502	16,127	23,182
1899	11,625	197,732	204,004	2,907	24,037	923	18,460
1900	10,968	137,800	163,509	4,035	41,055	3,538	14,815
1901	18,978	151,586	67,756	7,119	28,485	2,961	14,024
1902	22,282	225,171	67,647	7,418	11,232	4,079	12,963
1903	25,998	259,031	210,758	14,656	7,911	4,904	13,994
1904	35,049	165,138	116,444	27,171	16,582	.....	13,184
1905	38,512	254,458	180,921	55,432	36,072	1,711	9,883
1906	18,294	326,798	211,805	31,446	49,306	1,784	10,739
1907	22,739	488,565	271,693	13,240	73,369	2,270	22,683
1908	23,209	732,131	127,402	31,172	33,423	6,667	21,668
1909	38,763	590,196	140,902	23,151	75,135	33	30,221
1910	41,152	587,493	229,980	21,575	136,233	.....	18,149

* Fiscal. † Apples, meal of all kinds, peas, potatoes.

through the Welland Canal, during a period of forty years, ended December 31, 1910.

Total.	Heavy Goods.						
	Railway Iron.	Other Iron.	Salt.	Iron and Salt having paid full tolls on St. Lawrence Canals.	Coal.	Ores.	Total.
Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
503,860	46,806	16,924	91,575	37,153	103,126	58,781	275,623
538,147	26,217	17,141	50,540	44,243	186,932	98,605	3,678
579,880	6,923	20,754	40,850	17,157	339,016	118,685	43,387
647,397	6,032	12,068	23,309	9,579	323,503	56,825	431,316
417,936	1,517	7,588	13,509	9,962	321,306	43,683	397,565
409,788	51	7,997	30,300	20,327	288,211	81,654	378,540
464,181	9,630	9,696	9,173	3,983	323,869	42,758	399,109
403,403	10	11,518	3,980	12,686	295,318	15,229	338,741
438,564	2,782	5,797	7,174	17,796	192,957	19,164	245,670
442,182	5,360	4,812	413	22,273	109,986	34,139	176,983
269,395	4,585	7,013	10	30,682	128,113	18,785	189,188
306,482	.....	5,348	50	17,327	237,559	23,700	283,984
373,326	1,237	7,922	66	17,037	307,058	31,785	365,105
305,734	698	652	461	3,242	274,471	53,205	332,729
273,905	78	2,055	597	14,243	248,272	26,728	291,973
414,812	166	6,123	48	12,324	271,356	27,447	317,464
394,971	1,351	5,636	.....	6,715	145,193	13,866	172,761
419,786	93	3,220	316	13,617	223,871	16,872	257,989
542,043	47	2,479	1,254	20,269	268,305	2,435	294,789
519,291	.....	753	1,027	28,047	202,384	8,138	240,349
367,177	127	1,610	2,567	7,953	224,644	3,415	240,316
527,426	163	1,567	878	3,666	211,616	355	218,245
805,253	6	2,075	374	8,139	233,096	.....	243,690
591,409	.....	3,072	159	977	203,608	.....	207,816
486,421	185	6,245	54	2,819	158,866	1,140	169,309
788,974	1,192	6,332	82	3,264	223,445	1,158	235,473
816,914	7,206	17,012	227	590	176,226	.....	201,261
720,183	1,444	11,722	799	734	162,336	13,433	190,468
459,688	567	6,361	1,282	1,318	97,732	26,125	133,385
375,720	.....	8,190	533	4,800	47,392	58,400	119,315
290,909	83	6,094	327	8,773	49,480	99,487	164,244
350,792	64	7,488	.....	15,201	64,014	22,480	109,247
537,252	488	5,407	2,554	45,846	147,884	18,323	220,502
373,568	11,381	9,957	1,093	4,164	113,525	39,683	179,803
576,989	2,651	10,912	226	4,221	172,642	22,381	213,033
650,172	3,747	8,493	100	16,204	147,587	5,862	181,993
894,559	961	4,923	246	18,761	267,212	25,040	317,143
975,672	.....	35,726	429	.....	316,921	18,004	371,080
898,401	.....	87,025	.....	.....	377,681	33,301	498,007
1,034,582	.....	57,581	.....	.....	577,491	34,311	669,383

B.—TABLE showing the Total Way and Through Tonnage of the undermentioned Articles cleared downward on the Welland Canal during a series of forty years, ended December 31, 1910.

VEGETABLE FOOD.

Years.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles. †	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869	44,110	310,090	119,541	3,920		680	1,541	479,882
1872	26,648	231,056	254,534	693	7,594	64	2,300	524,889
1873	30,660	345,720	180,042	643	1,188	3	3,557	563,813
1874	24,017	406,157	181,128	377	5,953		3,301	620,933
1875	13,930	248,555	103,477	813	3,383	500	4,304	374,962
1876	15,735	194,559	144,501	1,110	24,496	1,454	2,949	384,807
1877	13,588	248,894	169,185	10,216	2,810	2,405	1,833	448,931
1878	8,854	188,106	185,931	1,217	3,088		2,100	389,296
1879	10,588	271,545	114,276	803	1,196		2,387	430,795
1880	12,467	240,601	162,891		477		1,418	417,853
1881	9,655	121,393	103,075	252		6	1,371	235,752
1882	12,205	205,876	54,797	537		1,954	225	275,594
1883	13,256	146,741	182,143	975	731	518	10,971	355,335
1884	13,626	135,804	118,811	270	10,746	477	9,018	288,752
1885	13,322	114,090	117,536	618	1,116		1,628	248,310
1886	19,418	146,151	218,897		4,891		14,581	403,928
1887	23,940	210,755	114,938	1,711	12,050		12,149	375,543
1888	16,973	150,833	194,886	555	26,629	811	13,358	404,045
1889	7,922	120,498	353,595	197	28,356	1,918	18,273	530,759
1890	14,461	114,924	327,394	6,519	27,728	1,121	20,836	512,983
1891	13,517	196,326	185,177	8,113	52,959	65,071	27,895	549,058
1892	17,046	229,569	192,548	6,433	37,173	9,392	32,548	524,709
1893	15,232	257,203	441,092	18,461	31,283	3,671	36,981	803,923
1894	33,628	270,514	169,233	28,353	27,962		60,587	590,277
1895	43,895	202,636	164,894	8,689	18,236		46,435	484,785
1896	42,159	319,388	320,444	11,368	28,178	8,970	54,031	784,538
1897	9,025	322,993	390,615	14,173	25,127	8,483	44,651	815,067
1898	5,578	206,313	437,849	12,286	17,491	16,127	23,170	718,814
1899	11,625	197,732	204,004	2,424	23,541	923	18,440	458,689
1900	10,968	137,800	163,509	3,449	40,256	3,538	14,802	374,322
1901	18,937	151,325	67,756	7,119	28,281	2,961	14,021	290,400
1902	22,282	223,499	67,647	7,418	11,223	4,079	12,912	349,060
1903	25,997	257,370	210,758	14,656	7,911	4,904	13,982	535,578
1904	35,046	164,515	116,444	27,171	16,582		13,157	372,915
1905	38,512	247,599	180,921	55,432	36,072	1,711	9,882	570,129
1906	18,227	326,789	111,243	31,446	49,306	1,411	10,739	549,161
1907	22,689	488,565	271,693	13,240	73,369	2,270	22,683	894,509
1908	23,187	730,751	127,402	31,172	33,423	6,667	21,668	974,270
1909	38,763	590,074	140,902	23,151	75,135	33	30,206	898,264
1910	41,152	587,493	229,980	21,575	136,233		18,149	1,034,582

*Fiscal. †Apples, meal all kinds, pease, potatoes.

C.—Table showing the Tonnage of the undermentioned Articles passed through the Welland Canal in transit between Ports in the United States during a series of forty years, ended December 31, 1910.

Years.	Vegetable Food.								Heavy Goods.					
	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	*Other Articles.	Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869	30,681	211,085	91,149	2,942	.....	667	1,006	337,530	68,064	14,334	89,086	28,566	35,912	235,962
1872	10,482	124,695	89,761	1,391	7,400	.....	608	234,337	24,040	13,239	49,843	95,741	59,401	224,264
1873	10,805	127,727	101,329	1,920	1,188	3	392	243,366	4,659	13,826	40,507	170,242	62,942	292,176
1874	8,230	229,053	125,627	.....	5,948	.....	5,368	374,226	5,742	8,941	22,888	203,673	19,651	260,895
1875	1,881	113,832	54,188	2,641	2,946	500	1,920	177,908	14	4,123	12,931	192,767	34,616	244,451
1876	5,187	96,247	58,138	.....	1,905	525	403	162,405	.....	5,531	29,395	167,110	25,808	227,844
1877	3,342	107,396	65,260	1,603	2,314	258	413	180,586	8,976	8,688	8,336	172,868	41,107	239,975
1878	1,316	65,542	60,026	859	277	.....	341	128,361	.....	10,713	3,892	150,583	13,535	178,723
1879	159	53,791	33,401	.....	464	.....	11	87,826	2,405	3,648	6,318	118,573	17,797	148,741
1880	.....	30,611	16,122	1,551	296	.....	.....	48,580	4,743	3,515	371	65,945	18,380	92,954
1881	.....	34,320	30,031	924	.....	.....	10	65,285	1,313	5,570	.....	83,858	6,464	97,205
1882	107	30,227	32,433	537	.....	684	14	64,002	.....	4,076	.....	158,552	14,533	177,161
1883	2,041	54,382	66,128	735	731	.....	8,579	132,496	1,209	6,901	8	196,462	24,891	229,471
1884	1,715	40,956	53,707	.....	9,874	.....	8,170	114,422	698	599	.....	210,790	15,100	227,187
1885	124	53,235	63,229	732	882	.....	1	118,203	.....	1,594	.....	198,416	15,029	215,039
1886	7,591	53,258	94,048	.....	4,790	.....	13,201	172,888	156	5,328	1	189,964	11,364	206,813
1887	11,780	37,678	83,431	1,732	12,050	.....	10,859	157,530	15	4,406	.....	82,780	627	87,828
1888	8,563	39,999	102,974	2	26,510	179	11,598	189,825	63	1,601	56	173,259	2,309	177,288
1889	5,017	39,229	147,045	.....	27,492	.....	17,225	236,208	.....	1,587	896	227,476	1,204	231,163
1890	9,204	31,527	180,842	6,519	27,030	.....	20,497	275,619	.....	504	208	162,231	1,620	154,563
1891	6,802	32,097	127,494	8,113	52,823	.....	26,115	253,444	.....	292	705	186,572	1,773	189,342
1892	11,018	26,950	131,222	6,433	36,935	.....	31,992	244,550	.....	576	2	183,895	.....	184,473
1893	6,588	28,187	198,777	16,751	23,870	864	36,352	311,389	.....	344	.....	206,827	.....	207,171
1894	17,795	53,846	105,329	28,095	27,621	.....	60,462	198,358	.....	297	.....	188,521	.....	188,818
1895	10,169	27,881	100,512	7,904	17,020	.....	46,316	209,802	181	246	.....	149,490	.....	149,917
1896	16,224	34,878	175,094	11,128	16,137	490	46,456	300,407	.....	146	.....	207,348	.....	207,494
1897	7,237	28,919	169,057	14,173	14,969	.....	41,887	276,242	965	15	.....	165,143	.....	166,123
1898	4,212	11,268	150,667	6,909	12,732	1,197	22,671	209,656	770	339	4	156,814	.....	157,927
1899	6,118	12,926	81,777	2,424	19,526	923	18,198	141,892	351	1,646	553	88,931	.....	91,481
1900	7,966	18,771	60,545	2,402	39,706	2,149	14,248	145,787	.....	953	.....	46,024	.....	46,977
1901	17,165	23,557	55,531	7,119	26,344	.....	14,016	143,732	83	80	105	46,702	..	46,970
1902	13,785	32,639	66,111	7,418	10,006	.....	12,675	142,634	.....	214	.....	12,911	.....	13,125

* Apples, meal all kinds, pease, potatoes.

C.—TABLE showing the Tonnage of the undermentioned Articles passed through the Welland Canal in transit between Ports in the United States during a series of forty years, ended December 31, 1910—*Concluded.*

YEARS.	VEGETABLE FOOD.								HEAVY GOODS.					
	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	*Other Articles.	Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1903	6,082	15,439	108,917	11,433	6,112	4,174	13,568	165,725	459			113,072		113,535
1904	8,556	14,269	60,964	16,621	16,497		13,079	129,986				63,882		63,882
1905	24,054	15,483	93,622	9,197	10,892		9,682	162,930		1		73,464		73,465
1906	15,215	13,410	135,240	9,266	11,323		10,678	195,132		169		33,523		33,692
1907	18,898	21,892	124,474	2,812	4,741	2	22,001	194,820		30		110,347	4,050	114,420
1908	17,694	24,651	99,830	7,148	2,070	2	21.393	172,788				158,351	1,400	159,751
1909	15,452	17,940	100,967	4,224			22,683	161,266		5		131,131	1,531	132,667
1910	11,859	10,717	126,938	3,840			8,571	161,925				201,893		201,893

* Apples, meal all kinds, peas, potatoes.

SESSIONAL PAPER No. 20a

D.—STATEMENT showing the Quantity of Through Freight passed DOWN the Welland Canal in Canadian and United States Vessels entering the Canal at Port Colborne, during the season of Navigation in 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909 and 1910.

ARTICLES.	CANADIAN VESSELS.				UNITED STATES VESSELS.				TOTAL.	
	Steam.		Sail.		Steam.		Sail.		Steam and Sail.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	191	100,242	129	75,777	201	212,027	78	36,962	599	425,008
1899.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat		91,901		80,928		16,250		7,244		196,323
Corn		28,015		18,905		138,834		18,250		204,004
Barley						2,424				2,424
Oats		1,557				21,646				23,203
Pease										
Rye						923				923
Coal		435		6,736				3,398		10,569
Miscellaneous merchandise		25,203		18,651		49,522		1,567		94,943
Shingles, woodenware, &c.		485		916				100		1,501
Sawed lumber Ft. B.M.		2,077,748		772,739		14,855,338		19,949,079		37,654,904
Square timber Cub. ft.		322,138		585,780		20,802		328,806		1,257,526
Firewood Cords.				9						9
Staves No.										
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	216	114,885	109	67,475	168	182,444	71	30,309	564	395,113
1900.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat		67,694		43,157		23,066		2,130		136,047
Corn		39,597		31,248		78,701		13,963		163,509
Barley						2,402		1,047		3,449
Oats						39,706		407		40,113
Pease		115				4				119
Rye		1,389				2,149				3,538
Coal		723		637		433		559		2,352
Miscellaneous merchandise		53,649		31,536		43,344		3,564		132,093
Shingles, woodenware, &c.		1,078								1,078
Sawed lumber Ft. B.M.		6,847,279		5,344,258		14,984,483		18,770,405		45,946,425
Square timber Cub. ft.		439,827		355,951		11,583		198,420		1,005,781
Firewood Cords.		126		255						381
Staves No.		1,000								1,000
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	197	103,802	114	59,022	163	182,497	48	22,319	522	367,640
1901.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat		57,641		58,973		31,955		1,241		149,810
Corn		7,350		4,689		55,717				67,756
Barley						7,119				7,119
Oats		944				27,197				28,141
Pease										
Rye		2,961								2,961
Coal		1,960		362		357				2,679
Miscellaneous merchandise		71,300		32,312		12,874		7,469		123,955
Shingles, woodenware, &c.		18								18
Sawed lumber Ft. B.M.		6,533,423		4,060,251		11,089,806		13,092,940		34,776,420
Square timber Cub. ft.		362,441		204,682		9,384		149,531		726,038
Firewood Cords.		165		264						429
Staves No.										

D.—STATEMENT showing the Quantity of Through Freight passed DOWN the Welland Canal in Canadian and United States Vessels, &c.—*Continued.*

ARTICLES.	CANADIAN VESSELS.				UNITED STATES VESSELS.				TOTAL.	
	Steam.		Sail.		Steam.		Sail.		Steam and Sail.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	196	90,791	122	73,958	191	201,339	52	22,097	561	388,185
1902.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat		82,954		85,973		52,889				221,816
Corn		148		1,388		66,111				67,647
Barley						7,418				7,418
Oats		1,200		43		9,963				11,206
Pease										
Rye		3,808				271				4,079
Coal		3,977		25,732		13,497		8,332		51,538
Miscellaneous merchandise		33,111		8,723		38,351		1,594		81,779
Shingles, woodenware, &c.		47		28		4				79
Sawed lumber ..... Ft. B.M.		13,218,960		3,256,187		25,437,287		19,540,426		61,452,860
Square timber ..... Cub. ft.		370,718		557,689				115,000		1,043,407
Firewood ..... Cords.		56		40						96
Staves ..... No.				14,000						14,000
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	329	151,850	76	45,918	243	252,094	69	27,854	627	477,716
1903.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat		149,378		38,473		60,514		6,305		254,670
Corn		21,356		4,682		174,588		10,132		210,758
Barley		2,580		667		11,409				14,656
Oats		306		1,335		6,112				7,753
Pease		63				22				85
Rye						4,904				4,904
Coal		389		12,991		8,133		8,496		30,009
Miscellaneous merchandise		39,563		3,367		41,584		2,000		86,514
Shingles, woodenware, &c.				54						54
Sawed lumber ..... Ft. B.M.		12,841,552		1,625,855		17,871,652		14,733,677		47,072,736
Square timber ..... Cub. ft.		572,000		660,000				84,200		1,316,200
Firewood ..... Cords.				210		9				219
Staves ..... No.				641,000						641,000
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	228	157,539	55	39,375	205	187,748	42	15,918	530	400,580
1904.	Tons.		Tons.		Tons.		Tons.		Tons.	
		116,794		33,302		14,269				164,365
Wheat		12,768		7,814		95,862				116,444
Corn		2,619		824		23,728				27,171
Barley						16,261				16,261
Oats						3				3
Pease										
Rye		1,925		7,187		17,133		7,668		33,913
Coal		34,907				1,925				36,832
Miscellaneous merchandise		29,567				60,548				90,115
Shingles, woodenware, &c.										
Sawed lumber ..... Ft. B.M.		15,077,382		854,811		32,751,541		9,572,655		58,259,389
Square timber ..... Cub. ft.		944,508		744,000				149,000		1,837,508
Firewood ..... Cords.						717				717
Staves ..... No.		634,000								634,000

SESSIONAL PAPER No. 20a

D.—STATEMENT showing the Quantity of Through Freight passed DOWN the Welland Canal in Canadian and United States Vessels, &c.—*Continued.*

ARTICLES.	CANADIAN VESSELS.				UNITED STATES VESSELS.				TOTAL.	
	Steam.		Sail.		Steam.		Sail.		Steam and Sail.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	252	182,373	91	48,692	319	286,656	64	29,120	726	546,841
1905.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat	188,706		18,575		28,757		2,512		238,550	
Corn	6,385		6,636		163,374		4,526		180,921	
Barley	6,870		1,451		47,111				55,432	
Oats	8,225		2,570		21,535		3,742		36,072	
Pease					76				76	
Rye					1,711				1,711	
Coal	18,756		35,324		28,330		8,678		91,088	
Iron ore	14,358		8,023						22,381	
Merchandise	29,375		7,485		74,975		3,126		114,961	
Shingles, woodenware, &c.			2,748,941		2,325				2,325	
Sawed lumber ...Ft. B.M.	2,867,147				38,290,831		12,479,698		54,589,200	
Square timber.....Cub. ft.	355,000		951,524						538,000	
Firewood ... . Cords.			183,000		900				900	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	328	238,690	121	66,355	305	310,622	43	15,758	797	631,425
1906.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat	250,493		34,355		35,578				320,436	
Corn	8,177				202,250		1,378		49,306	
Barley	8,546		5,046		17,854				31,446	
Oats	21,900		16,083		11,323				49,306	
Pease					11				11	
Rye			5		1,406				1,411	
Coal	30,455		47,242		24,190		9,356		111,243	
Iron ore	5,862								5,862	
Merchandise	35,383		7,009		110,263		50		152,705	
Shingles, woodenware, &c.	16		37		851				904	
Sawed lumber .....Ft. B.M.	3,471,514		235,624		25,711,196		10,769,755		40,188,089	
Square timber. ..Cub. ft.	375,000		200,000						575,000	
Firewood . ... Cords.	110		18		1,093				1,221	
Staves ... ...No.					300,000				300,000	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	375	290,509	148	81,070	408	397,616	76	36,921	1,007	806,116
1907.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat	294,298		50,808		130,818		4,429		480,303	
Corn	6,713		514		259,895		4,571		271,693	
Barley	8,726		468		4,046				13,240	
Oats	49,689		16,647		7,033				73,369	
Pease					25				25	
Rye					2,270				2,270	
Coal	31,506		57,373		50,183		14,493		143,555	
Iron ore	12,040		8,950						20,990	
Merchandise	21,545		9,436		5,231		6,235		42,447	
Shingles, woodenware, &c.					2,222				2,222	
Sawed lumber .... Ft. B.M.					14,395,124		11,201,446		25,596,570	
Square timber..... Cub. ft.	558,090		323,000						881,090	
Firewood..... Cords.					660				660	

D.—STATEMENT showing the Quantity of Through Freight passed DOWN the Welland Canal in Canadian and United States Vessels, &c.—*Concluded.*

ARTICLES.	CANADIAN VESSELS.				UNITED STATES VESSELS.				TOTAL.	
	Steam.		Sail.		Steam.		Sail.		Steam and Sail.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	567	432,623	149	64,034	428	319,030	36	19,866	1180	835,553
1908.	Tons.		Tons.		Ton.		Tons.		Tons.	
Wheat	505,151		39,001		183,101		3,498		730,751	
Corn	2,405				124,997				127,402	
Barley	19,775		1,133		10,264				31,172	
Oats	30,091		643		2,689				33,423	
Pease					40				40	
Rye	742				5,925				6,667	
Coal	39,733		42,656		57,448		8,344		148,181	
Merchandise	26,815		14,783		14,410		13,686		69,694	
Firewood ..... Cords.			70		1,173				1,243	
Sawed lumber ... Ft. B.M.					17,572,070		6,578,545		24,150,615	
Square timber ... Cub. ft.	221,300		313,000						534,300	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	555	486,406	136	71,034	323	324,576	26	17,317	1040	899,333
1909.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat	415,208		34,903		133,172				583,283	
Corn	6,694				134,208				140,902	
Barley	17,943		360		4,848				23,151	
Oats	70,392		4,743						75,135	
Pease					63				63	
Rye	33								33	
Coal	160,475		53,681		21,097		630		235,883	
Merchandise	52,994		14,782		12,232		16,498		96,506	
Sawed lumber					31,643		10,214		41,857	
Square timber	3,450		7,840		125		1,475		12,890	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	596	599,416	142	88,963	249	285,704	14	13,563	1,001	987,646
1910.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat	481,624		22,200		77,040				580,864	
Corn	15,759				214,221				229,980	
Barley	17,159		576		3,840				21,575	
Oats	135,743				490				136,233	
Pease					123				123	
Rye										
Coal	216,779		114,671		29,646		894		361,990	
Merchandise	39,149		15,231		21,818		20,466		96,664	
Sawed lumber	3,630		800		16,932				21,362	
Square timber	1,930		5,000		800				7,730	
Shingles					525				525	
Unenumerated	74,434		1,772		24,031				100,237	
Total	986,207		160,250		389,466		21,360		1,557,283	

SESSIONAL PAPER No. 20a

WELLAND CANAL THROUGH FREIGHT—RECAPITULATION.

Welland Canal—West Bound Freight.

The total quantity of Through Freight passed Up the Welland Canal in Canadian and United States Vessels during the Season of Navigation in 1910 is as follows:—

Summary.	Tons.	Tons.
In Canadian steam vessels	352,468	
" sail	4,551	
Total quantity in Canadian vessels		357,019
In United States steam vessels	356,183	
" sail vessels	11,034	
Total in United States vessels		367,217
Grand total freight passed Up the Welland Canal in Canadian and United States vessels		724,236

Statement of the Quantity of Through Freight passed Up and Down the Welland Canal during the Season of Navigation in 1910.

Summary.	Tons.	Tons.
In Canadian steam vessels up	352,468	
" " down	986,207	
Total in Canadian steam vessels		1,338,675
In Canadian sail vessels up	4,551	
" " down	160,250	
Total in Canadian sail vessels		164,801
Total quantity in Canadian vessels		1,503,476
In United States steam vessels up	356,183	
" " down	389,466	
Total in United States steam vessels		745,649
In United States sail vessels up	11,034	
" " down	21,360	
Total in United States sail vessels		32,394
Total quantity in United States vessels		778,043
Total in Canadian and United States vessels		2,281,519
	Down on East Bound.	Up or West Bound.
In Canadian vessels	1,146,457	357,019
In United States vessels	410,826	367,217
Total	1,557,283	724,236

F.—Statement showing the Quantity of Freight passed Eastward, from Lake Erie, through the whole length of the Welland and St. Lawrence canals, to Montreal, during the Seasons of Navigation 1898 to 1910.

Articles.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.													
Cement and water lime							35					5,652	484
Clay, lime and sand	52	15	15					22					
Iron, railway					50		8,170	10					
" pig			508										
" all other	6,217	5,063	4,292	1,178	5,785	2,542	1,651	384	269	124	553	12,689	7,154
Steel	1,351	3,000	5,420				16	48					
Stone, for cutting													
Apples							1			9,936			
Barley	3,960	596	1,288			2,206	9,697	43,607	21,196	105,984	24,318	19,143	20,000
Corn	310,498	150,999	109,359	14,319	1,719	123,864	55,021	84,204	55,559		10,454	17,137	77,612
Flaxseed	5,687			4,965		3,643	212	15,694	80,570	49,159	27,500	19,634	6,607
Flour	653	4,229	1,595	1,400	6,755	16,151	24,662	14,571	9,174	3,730	5,028	21,905	27,081
Meal, all kinds				35		348	57	270	60		156		10,323
Oats	3,975	10,250	8,925	1,584	1,442	2,438		21,404	37,164	66,941	28,081	65,624	129,900
Oil cake				1,083		462	7,846	9,229					
Pease	260		115			63						30	
Rye	15,488	923	3,078	2,961	4,079	4,260		1,711	1,405	2,266	6,662	120	
Salt	144	183		50		132	615	168	75	143	419		
Seed, all kinds		200								20			
Hay, pressed		96		246									
Tobacco, raw				23									
Wheat	184,154	169,978	121,896	132,702	200,975	226,746	133,528	190,505	289,611	450,446	686,626	550,775	562,149
All other agricultural products, vegetables	56	32										5,876	
Hides, skins, horns and hoofs							10		2				
Horses	4	1											
Lard and lard oil				1,155				2,847	4,810				
Meats, all kinds				114									
Pork				34							524		
Tallow						3		53					
All other agricultural products, animal							1					366	
Total, class 3	532,499	345,565	256,491	161,849	220,805	382,858	241,522	384,727	499,895	688,749	790,321	718,951	841,310

Class 4.													
Agricultural implements		3		1,785	13	58	17						
Ashes	73	55	25	3		2	16						
Bricks											1,543		
Crockery								93					
Furniture			1	5		3	6		6				2
Glass, all kinds	75	16	6	1		15	3	21	11	4			
Molasses	56	159			54	240		820					
Nails		1				19		64			3		
Oil	1,141	7,143	15,647	14,987	12,091	14,619	12,848	20,700	19,995	22,111	30,002	31,149	26,932
Paint				17		5							
Pitch and tar								53		101			
Rags						4							
Rosin						20							
Soda ash				4				59	72	15			
Sugar				112				2,019				173	345
Tin							87	53					
Tobacco		96						204					
White lead			16										
Whisky, beer and other spirits	4	74	11	32		2	766	635	614	1,224	1,056	525	959
Merchandise not enumerated	866	518	92	2,420	419	582	713	851	466	2,294	2,126	10,418	9,224
Total, class 4	2,215	7,969	15,798	19,366	12,577	15,569	14,456	25,572	21,164	25,749	34,730	42,265	37,462
Class 5.													
Barrels, empty		1	182	66	15								
Hoops													
Sawed lumber	3,065	924	15,760	2,635	1,085			3,957	100				
Staves, pipe and barrel							394		2,400				
" West India and pipe													
Timber, square, in vessels							1,544	1,260	1,500	4,180			
" in rafts	329	26										900	1,800
Woodenware					17								
Total, class 5	3,394	951	15,942	3,205	1,117		1,938	5,217	4,000	4,180		900	1,800
Special Class.													
Coal								29,351	29,172	70,489	42,075	175,115	289,567
Iron ore					15,976		17,362	3,837				1,824	
Stone, all kinds											1,272		
Total, special class					15,976		17,362	33,188	29,172	70,489	43,367	176,939	289,567
Grand total	538,108	354,485	28,231	184,420	250,475	398,427	275,278	448,704	554,231	789,167	869,398	939,055	1,170,139

G.—STATEMENT showing the Quantity of Freight passed Westward from Montreal, through the whole length of the St. Lawrence and Welland Canal to Lake Erie, during the Seasons of Navigation in 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1909 and 1910.

Articles.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1909.	1910.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.												
Bricks	70	24	49	196	22	80	115	132		556		
Brimstone				5	20	23	12					
Cement and water lime	996	997	1,931	2,916	178	3,924	39	181	88	13	400	17,565
Clay, lime and sand	144	8	4	2	1	181				100		
Cotton, raw						23						
Fish	9	10	8	8		8	4			39		
Gypsum		4										
Iron, railway			74	748	11,735	39,641	283	126	7,289	4,119		
" pig			3		558	273		312	680	7,655	7,231	2,060
" all other	699	1,318	1,428	4,950	2,904	5,845	3,782	3,633	8,235	6,987		540
Salt	35		48	75	4	87	99	150	17			
Steel	19	18		3	11	332	58	192	111	2,561	35,153	
Stone for cutting							41					
Flour				16				18				
Hay										30	255	
Meals						17	25					1,113
Oats												
Potatoes												
Seeds, all kinds	56	121	218	302	58	325	164	35	17			
Tobacco, raw					1	2						
Agricultural products, not enumerated, vegetable				1	1			127				
Hides and skins					16	6						
Horses	1											
Lard and lard oil	2				11			28	20	1		
Meats other than pork						1	25			15		
Pork			1									
Wool												
All other articles not enumerated												
Total, class 3	2,031	2,500	3,764	9,222	15,520	50,768	4,647	4,934	16,457	22,076	43,039	21,278

Class 4.												
Agricultural implements									5			
Ashes, pot and pearl						2						
Crockery and earthenware	33	3	5			32	291	155	294	456		
Dye woods, &c							2			2		
Furniture			1			1	5	2	1	35		90
Glass, all kinds	150	299	456	612	1,384	1,207	1,671	1,641	2,519	3,534		
Manilla							34	93	37	15		
Marble									35			
Molasses				1		6		1		50		
Nails	229	518	30	675	1,292	2,878	2,009	3,061	4,011	3,331		
Oil, in barrels	15	21	74	83	14	16	1,418	120	148	155	1	80
Paint	35	2	12	69	97	158	202	367	412	295		
Pitch and tar	37	6	21	27	27	58	199	5	239			
Rags		14			1	29		15		50		
Resin		15				1				25		
Soda ash	88	108	63	169	201	264	387	28	310	37		
Stone, wrought	31									5		
Sugar	566	1,596	430	810	1,314	204	52	1,168	1,153	6,046	40	3,024
Tin	237	159	117	338	506	209	362	928	1,365	1,173		
Turpentine				1	2	1				1		
White lead		1	4	11	37	80	82	80	304	283		
Whiting	93	89	39	49	61	22	33	158	93	18		
Whisky, beer, &c	98	178	295	131	182	452	432	384	483	1,040	220	1,187
Merchandise not enumerated	793	482	744	1,516	1,049	3,674	6,200	15,360	11,707	16,498	21,359	15,129
Total, class 4	2,405	3,491	2,447	4,492	6,169	9,294	13,379	23,566	23,116	33,049	21,620	19,510
Class 5.												
Barrels, empty									54,906			
Firewood in vessels					3,600	40,026	40,425	43,982	2,307	2,337		
Pulpwood										101,989	122,867	121,572
Lumber, sawn, in vessels											3,984	
Railway ties in vessels						611						
Woodenware									5			
Total, class 5					3,600	40,637	40,425	43,982	57,218	104,326	126,851	121,572
Special Class.												
Coal							10,200					
Iron ore							2,861					
Total, special class							13,061					
Grand total	4,436	5,991	6,211	13,714	25,289	100,699	71,512	72,482	96,791	159,451	191,510	172,360

H.—STATEMENT showing the Quantity of Freight passed Eastward through the Welland Canal, from United States Ports to United States Ports, during the Seasons of Navigation from 1898 to 1910 inclusive.

Articles.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.													
Bricks													
Cement and water lime	300		18										2,000
Fish										20			
Iron, railway	770												
" all other	324	1,008	714		30			1	27	30			
Salt		549		105									
Steel	2,951	13,522	3,110						2	509	9,086		
Stone for cutting													
Apples													
Barley	6,909	2,424	2,402	7,119	7,418	11,433	16,621	9,197	9,266	2,812	7,148	4,224	3,840
Corn	150,667	81,777	60,545	55,531	66,111	108,917	60,964	93,622	135,240	124,474	99,830	100,967	126,938
Flour	4,212	6,118	7,966	17,168	13,785	6,082	8,556	24,054	15,215	18,898	17,694		11,859
Hay, pressed								200					
Meal, all kinds	22,626	18,198	14,244	14,016	12,675	13,546	13,076	9,606	10,668	21,976	21,353		8,621
Marble								87					
Nails								1					
Oil cake			2,705	1,302	110	740	16,497	228		114			
Oats	12,729	19,526	39,706	26,344	10,006	6,112	3	10,892	11,323	4,741	2,070		
Pease	45		4			22		76	11	25	40	63	123
Potatoes													
Rye	1,197	923	2,149			4,174				2	2		
Flax seed		200				1,594			756			15,452	
Seeds, all kinds	44	11			10	27		43	3	17			
Tobacco				23									
Wheat	11,268	12,926	18,771	23,557	32,639	15,436	14,269	15,483	13,410	21,892	24,651	17,940	10,717
Agricultural products, vegetable			6	10		1			1	7		22,620	
Hides and skins, &c											21	315	233
Horses	2		4			2							
Lard and lard oil, &c	3,671	864	1,588	1,680	2,413				22	86			
Meats, other than pork													
Pork	1,271	343	117	970	632	152	379	273	268	429			
Sheep											190		
Tallow	359	201	631	119									
Wool	89	130		3	752	482	134	21	89	30		157	233
Total, class 3	219,434	158,720	154,680	147,947	146,581	168,720	130,499	163,784	196,301	196,062	182,085	161,738	164,564

Class 4.													
Agricultural implements					399		396	552	494		2	254	
Crockery and earthenware										5			
Furniture	2	7		3	17				1				
Marble				4									
Molasses		8	57										
Nails		11								3			
Oil, in barrel	119	367	17	22	1,594	2,000	1			8	15		8
Paint	3	2	36				17	42	1	1	1		
Rags		1				4		4					
Soda ash													
Stone, wrought													
Sugar			154	448	280		53	53	840	26,075		1,196	34,723
White lead								7		4			
Whiting										21			
Whisky, beer and all other spirits	34	168	1	1		3				30			122
Merchandise	3,828	6,219	7,889	3,327	1,928	2,010	1,554	2,008	2,324	41,621	1,857	5,866	67,760
Total, class 4	3,986	6,783	8,164	3,805	4,218	4,017	2,021	2,666	3,660	67,768	1,875	7,316	102,613
Class 5.													
Empty barrels			5	282				3	2	1			
Firewood, in vessels					4		717	2,700	3,609	1,980	3,509		1,531
Lumber, sawn, in vessels	52,844	57,695	55,128	38,685	72,806	48,337	30,194	15,726	27,701	14,314	21,571	24,327	11,738
Masts and spars, in vessels													
Hop poles							154						
Railway ties, in vessels							652	2,248		2,151	478		
Shingles								62	53	70			
Split posts								12					25
Staves, salt barrels									1,500				
Timber, square, in vessels												125	
Woodenware, &c												2,932	1,583
Total, class 5	52,844	57,695	55,133	38,367	72,810	48,337	31,717	20,751	32,865	18,516	25,558	27,384	14,877
Special class.													
Coal	759	2,293	992	357	501		1,100	3,346	4,400	110,347		400	201,893
Stone, not suitable for cutting													
Kryolite										2,734			
Iron ore										1,316			1,552
Total, special class	759	2,293	992	357	501		1,100	3,346	4,400	114,397		400	203,445
Grand total	277,023	225,491	218,969	190,476	224,110	221,074	165,337	190,547	237,226	396,743	209,518	196,838	485,499

L—STATEMENT of the quantity of Grain Transhipped to the following Ports for the season of 1910.

Ports.	Wheat.	Oats.	Barley.	Corn.	Other Grain.	Total.	Total.
	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Tons.
Kingston	9,481,700	3,848,235	438,250	375,428	1,360	14,144,973	371,699
Prescott	85,527	32,016		62,711		180,254	5,010
Ogdensburg				15,060		15,000	420
Total Bushels	9,567,227	3,880,251	438,250	453,139	1,360	14,340,227	
Total Tons	287,017	66,558	10,768	12,738	48		377,129

M—The quantity of Coal passed through the Welland Canal during a series of years from 1885 to 1910 inclusive, as follows :—

Years.	From Canadian Ports to Canadian Ports.	From Canadian Ports to Canadian Ports.	From United States Ports to United States Ports.		From United States Ports to Canadian Ports.		Total.
	Up.	Down.	Up.	Down.	Up.	Down.	
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1885	.....	.....	193,442	4,974	10,321	31,350	240,087
1886	.....	.....	184,564	5,400	22,187	49,724	261,875
1887	.....	.....	81,617	1,163	26,775	25,968	135,523
1888	.....	.....	172,381	878	17,365	27,183	217,807
1889	.....	.....	226,352	1,124	12,036	25,931	265,443
1890	80	.....	116,616	615	17,280	22,781	202,372
1891	.....	.....	185,190	1,382	17,374	20,698	224,644
1892	.....	.....	183,244	651	12,391	15,330	211,616
1893	.....	.....	204,704	2,123	8,325	17,944	233,096
1894	.....	.....	187,794	727	1,269	13,947	203,737
1895	4	.....	148,887	603	1,565	7,807	158,866
1896	20	210	206,093	1,255	4,127	11,740	223,445
1897	.....	4	165,143	.....	1,277	9,799	176,223
1898	.....	.....	156,055	759	986	4,536	162,336
1899	.....	.....	86,638	2,293	525	8,276	97,732
1900	8	.....	45,032	992	.....	1,360	47,392
1901	.....	.....	46,345	357	456	2,322	49,480
1902	.....	.....	12,410	501	65	51,037	64,013
1903	3	.....	113,076	.....	4,796	30,009	147,884
1904	2,919	.....	62,782	1,100	3,711	32,813	103,325
1905	.....	.....	70,118	3,346	11,436	37,742	172,642
1906	60	.....	29,123	4,400	7,161	106,843	147,587
1907	2,857	.....	110,347	.....	10,453	143,555	267,212
1908	4,401	.....	158,351	.....	5,988	148,181	316,921
1909	.....	.....	130,731	400	11,067	235,483	377,681
1910	2,045	.....	197,482	4,411	15,974	357,579	577,491

N.—STATEMENT showing the quantity of Coal passed through the whole length of the St. Lawrence Canals during the seasons of 1885 to 1910, inclusive.

Years.	Quantity passed up.	Quantity passed down to Montreal.	Total Quantity passed up and down
	Tons.	Tons.	Tons.
1885	5,035	122,829	127,864
1886	3,301	118,802	122,103
1887	7,579	121,618	129,197
1888	8,341	123,050	131,391
1889	5,360	124,290	129,650
1890	6,538	135,168	141,706
1891	7,951	141,701	149,652
1892	7,543	157,134	164,677
1893	2,285	147,139	149,424
1894	16,213	169,552	185,765
1895	....	165,151	165,151
1896	689	161,551	162,240
1897	40	164,963	165,003
1898	400	175,609	176,009
1899	448	201,546	201,994
1900	10	280,169	280,179
1901	2,765	298,245	301,010
1902	9,231	95,702	104,933
1903	30	290,548	290,578
1904	9,670	320,973	330,643
1905	8,518	345,589	354,107
1906	6,989	313,080	320,069
1907	1,281	406,978	408,259
1908	23,939	448,140	472,079
1909	13,543	469,695	483,238
1910	7,351	746,926	754,277

SESSIONAL PAPER No. 20a

O.—STATEMENT showing the quantity of Through Freight passed down the Welland Canal, &c.

RECAPITULATION.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on Lake Ontario.
1899.	Tons.	Tons.	Tons.
Barley	568		1,828
Corn	150,999	16,594	43,854
Oats	10,250	1	13,139
Pease			
Rye	923		
Wheat	169,978	24,602	9,190
Total grain	‡ 332,736	40,197	68,011
Other articles	21,739	68,671	104,727
Total	354,485	108,958	172,732
1900.			
Barley	1,288	563	1,598
Corn	109,358	9,844	44,406
Oats	8,925	348	30,840
Pease	115		4
Rye	3,078	160	300
Wheat	121,896	6,610	7,541
Total grain	**244,661	17,525	84,589
Other articles	43,670	95,680	93,287
Total	288,231	113,205	177,876
1901.			
Barley			
Corn	14,319	4,828	49,609
Oats	1,584	853	25,704
Pease			
Rye	2,961		
Wheat	132,702	8,051	9,057
Total grain	†151,566	13,732	83,370
Other articles	32,854	128,614	91,799
Total	184,420	142,346	175,169
1902.			
Barley			7,418
Corn	1,719	10,335	55,583
Oats	1,412		9,764
Pease			
Rye	4,079		
Wheat	200,075	12,452	8,389
Total grain	‡208,215	22,787	81,165
Other articles	42,260	32,946	179,914
Total	250,475	55,733	261,078

O.—STATEMENT showing the Quantity of Through Freight passed down the Welland Canal, &c.—*Continued.*

RECAPITULATION—*Continued.*

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on Lake Ontario.
1903.	Tons.	Tons.	Tons.
Barley	2,206	1,017	11,433
Corn	116,223	13,846	80,689
Oats	2,438	.....	5,315
Pease	63	.....	22
Rye	4,200	.....	644
Wheat	226,746	14,199	13,725
Total grain	§351,936	29,062	111,828
Other articles	38,850	82,298	101,621
Total	390,786	111,360	213,449
1904.			
Barley	9,697	853	16,621
Corn	55,021	3,950	57,473
Oats	.....	.....	16,497
Pease	.....	.....	3
Rye	.....	.....	.....
Wheat	*133,528	18,908	11,929
Total grain	198,246	23,711	102,523
Other articles	77,031	80,092	138,475
Total	375,277	103,803	240,998
1905.			
Barley	43,607	2,628	9,197
Corn	84,204	3,095	93,622
Oats	21,404	3,776	16,892
Pease	.....	.....	76
Rye	1,711	.....	.....
Wheat	190,505	32,562	15,483
Total grain	**341,431	42,061	129,270
Other articles	107,273	123,225	104,747
Total	448,704	165,286	234,017
1906.			
Barley	21,196	984	9,266
Corn	55,559	15,688	140,558
Oats	37,164	819	11,323
Pease	.....	11	.....
Rye	1,405	6	.....
Wheat	***289,611	15,843	14,972
Total grain	404,935	33,351	176,119
Other articles	118,224	176,277	59,884
Total	523,159	209,628	236,003

O.—STATEMENT showing the Quantity of Through Freight passed down the Welland Canal, &c.—*Concluded.*

RECAPITULATION—*Concluded.*

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on Lake Ontario.
1907.	Tons.	Tons.	Tons.
Barley	9,936	492	2,812
Corn	106,299	31,901	133,493
Oats	67,063	1,565	4,741
Pease			25
Rye	2,266	2	2
Wheat	*450,009	8,072	22,222
Total grain	635,573	42,032	163,295
Other articles	153,594	126,423	93,127
Total	789,167	168,455	256,422
1908.			
Barley	24,318	3,546	3,308
Corn	10,454	11,489	105,459
Oats	28,081	3,272	2,070
Pease			40
Rye	6,662	3	2
Wheat	†686,626	19,832	24,293
Total grain	756,141	38,142	135,172
Other articles	108,785	162,378	91,875
Total	864,926	200,520	227,047
1909.			
Barley	19,143		4,008
Corn	17,137	22,798	100,967
Oats	65,624	2,872	6,639
Pease	30		33
Rye	33		
Wheat	550,775	14,568	17,940
Total grain	652,742	40,238	129,587
Other articles	272,263	113,970	126,223
Total	925,005	154,208	255,810
1910.			
Barley	20,000		1,575
Corn	77,612	49,326	103,042
Oats	129,900	6,333	
Pease			123
Rye			
Wheat	562,149	7,998	10,717
Total grain	789,661	63,657	115,457
Other articles	380,500	152,325	55,683
Total	1,170,161	215,982	171,140

TABLE 1.—Comparative Statement of Grand Total Freight passed through the undermentioned Canals during the Seasons of Navigation, 1909 and 1910.

Canals.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
1909.													
Sault Ste. Marie	641,601	1,567,940	46,041	512,293	1,736,801	22,188,388	1,000,300	167,881	3,424,743	24,436,502	27,861,245	3,366,495	24,494,750
Welland	217,737	618,718	164,304	16,469	248,581	196,838	11,467	551,837	642,089	1,383,862	2,025,951	1,050,241	975,710
St. Lawrence	533,568	932,104	242,954	36,547	140		3,759	661,557	780,421	1,630,208	2,410,629	1,710,797	699,832
Chambly	5,480	11,475	606,466					128,696	611,946	140,171	752,117	623,421	128,696
St. Peter's	27,169	52,052					629		27,798	52,052	79,850	79,150	700
Murray	72,034	7,244	406				672	21,935	73,112	29,179	102,291	79,254	23,037
Ottawa	49,131	240,150	150	42,333			5,175		54,456	282,483	336,939	331,104	5,835
Rideau	44,120	33,033	394	252			1,827	12,148	46,341	45,433	91,774	77,643	14,131
Trent	17,819	42,133							17,819	42,133	59,952	59,952	
Grand total	1,608,659	3,504,849	1,060,715	607,894	1,985,522	22,385,226	1,023,829	1,544,054	5,678,725	28,042,023	33,720,748	7,378,057	26,342,691
1910.													
Sault St. Marie	779,961	1,567,285	28,648	565,335	3,035,290	29,332,862	969,248	117,058	4,813,147	31,582,540	36,395,687	3,378,268	33,017,419
Welland	265,790	742,908	154,617	6,983	288,198	197,301	16,229	654,264	724,834	1,601,456	2,326,290	1,196,946	1,129,344
St. Lawrence	556,833	1,123,520	286,075	22,235	334		777	770,978	844,019	1,916,733	2,760,752	1,973,441	787,311
Chambly	383,148	12,307	130,245					143,599	513,393	155,906	669,299	525,700	143,599
St. Peter's	33,482	52,240					229		33,711	52,240	85,951	85,722	229
Murray	161,737	8,546	555					7,103	162,292	15,649	177,941	170,680	7,261
Ottawa	49,923	266,519		61,013			7,806		57,729	327,532	385,261	377,268	7,993
Rideau	58,049	57,218	4	5,870			1,460	12,280	59,513	75,368	134,881	121,043	13,838
Trent	15,665	30,598							15,665	30,598	46,263	46,263	
St. Andrew's	8,152	131							8,152	131	8,283	8,283	
Grand total	2,312,740	3,861,272	600,144	661,436	3,323,822	29,530,163	995,749	1,705,282	7,232,455	35,758,153	42,990,608	7,883,614	35,106,994

TABLE 2.—Statement showing the Number, Tonnage and Nationality of Vessels passed through the several Canals during the Season of Navigation in 1910.

Vessels.	Total Number of Trips.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.
		Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	
CANADIAN VESSELS.												
Steam and Sail.												
Sault Ste. Marie	2,744	1,192,124	1,209,938	100,620	120,788	76,096	89,461	270,561	113,906	1,639,401	1,534,093	3,173,494
Welland	1,852	528,479	476,520	175,546		18,839	157	15,633	246,325	738,497	723,002	1,461,499
St. Lawrence	8,834	1,452,888	1,195,749	10,104	260	216		1,361	249.817	1,464,569	1,445,826	2,910,395
Chambly	619	39,336	39,210	12,081					7,170	51,417	46,380	97,797
Ottawa	2,189	203,069	206,805		1,033					203,069	207,838	410,907
Rideau	2,749	83,284	81,867	4,351	605				6,340	87,635	88,812	176,447
St. Peter's	1,466	53,893	52,349							53,893	52,349	106,242
Trent Valley	3,442	85,400	86,685							85,400	86,685	172,085
Murray	1,240	230,714	132,879	10,954	2				3,488	241,668	136,369	378,037
St. Andrew's	202	22,426	22,461							22,426	22,461	44,887
Total Canadian	25,337	3,891,613	3,504,463	313,656	122,688	95,151	89,618	287,555	627,046	4,587,975	4,343,815	8,931,790
UNITED STATES VESSELS.												
Sault Ste. Marie	5,228	74,922	17,785	26,865	270,188	5,220,109	14,268,834	266,890	42,111	5,588,786	14,598,918	20,187,704
Welland	1,392	41,235	27,148	165.640	8,041	12,059	977	12,317	214,727	231,251	250,893	482,144
St. Lawrence	692	89	1,319	57,999	2,430	277,249	218,745	927	128,260	336,264	350,754	687,018
Chambly	3,600		1,206	177,848					190,395	177,848	191,601	369,449
Ottawa	412	771	1,120		22,203			17,568	301	18,339	23,624	41,963
Rideau	66	1,715	1,031		2,313			1,736		3,451	3,344	6,795
St. Peter's	4	134	522		155					134	677	811
Trent Valley												
Murray	68	356	367	350			9	24	307	730	683	1,413
St. Andrew's												
Total United States	11,462	119,222	50,498	428,702	305,330	5,509,417	14,488,565	299,462	576,101	6,356,803	15,420,494	21,777,297
Grand total Canadian and U.S.	36,799	4,010,835	3,554,961	742,358	428,018	5,604,568	14,578,183	587,017	1,203,147	10,944,778	19,764,309	30,709,087

TABLE 3.—STATEMENT showing the Number, Tonnage and Nationality of Vessels

Vessels.	Total Number of trips.	From Canadian to Canadian Ports.		From Canadian to United States Ports.	
		Up.	Down.	Up.	Down.
SAULT STE MARIE CANAL.					
Canadian vessels steam	2,652	1,175,362	1,195,110	96,171	120,788
" " sail	92	16,762	14,828	4,449	
Total Canadian	2,744	1,192,124	1,209,938	100,620	120,788
United States vessels, steam	5,103	67,950	17,507	26,845	264,640
" " sail	125	6,972	278	20	5,548
Total United States	5,228	74,922	17,785	26,865	270,188
Grand total of Sault Ste. Marie Canal	7,972	1,267,046	1,227,723	127,485	390,976
WELLAND CANAL.					
Canadian vessels, steam	1,316	482,482	433,387	112,091	
" " sail	536	45,997	43,133	63,455	
Total Canadian	1,852	528,479	476,520	175,546	
United States vessels, steam	646	89	1,319	39,523	2,430
" " sail	46			18,476	
Total United States	692	89	1,319	57,999	2,430
Grand total, Welland Canal	2,544	528,568	477,839	233,545	2,430
ST. LAWRENCE CANALS.					
Canadian vessels, steam	4,251	831,546	632,368	5,362	98
" " sail	4,583	621,342	563,381	4,742	162
Total Canadian	8,834	1,452,888	1,195,749	10,104	260
United States vessels, steam	772	18,898	8,018	135,316	253
" " sail	620	22,337	19,130	30,324	7,788
Total United States	1,392	41,235	27,148	165,640	8,041
Grand total, St. Lawrence Canals	10,226	1,494,123	1,222,897	175,744	8,301
CHAMBLY CANAL.					
Canadian vessels, steam	299	34,053	34,105		
" " sail	320	5,283	5,105	12,081	
Total Canadian	619	39,336	39,210	12,081	
United States vessels, steam					
" " sail	3,600		1,206	177,848	
Total United States	3,600		1,206	177,848	
Grand total, Chambly Canal	4,219	39,336	40,416	190,929	
OTTAWA CANALS.					
Canadian vessels, steam	972	97,812	102,043		569
" " sail	1,217	105,257	104,762		464
Total Canadian	2,189	203,069	206,805		1,033

passed through the several Canals during the season of Navigation in 1910.

From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.
Up.	Down.	Up.	Down.	Up.	Down.	
71,207	85,961	267,299	106,388	1,610,039	1,508,247	3,118,286
4,889	3,500	3,262	7,518	29,362	25,846	55,208
76,096	89,461	270,561	113,906	1,639,401	1,534,093	3,173,494
5,135,154	14,162,381	262,794	42,111	5,492,743	14,486,639	14,979,382
84,955	106,453	4,096	.....	96,043	112,279	208,322
5,220,109	14,268,834	266,890	42,111	5,588,786	14,598,918	20,187,704
5,296,205	14,358,295	537,451	156,017	7,228,187	16,133,011	23,361,198
18,471	157	13,031	179,130	626,075	612,674	1,238,749
368	.....	2,602	67,195	112,422	110,328	222,750
18,839	157	15,633	246,325	738,497	723,002	1,461,499
276,680	218,745	927	111,629	317,219	334,123	651,342
569	.....	.....	16,631	19,045	16,631	35,676
277,249	218,745	927	128,260	336,264	350,754	687,018
296,088	218,902	16,560	374,585	1,074,761	1,073,756	2,148,517
216	.....	145	192,780	837,269	825,246	1,662,515
.....	.....	1,216	57,037	627,300	620,580	1,247,880
216	.....	1,361	249,817	1,464,569	1,445,826	2,910,395
11,263	977	6,554	177,304	172,031	186,552	358,583
796	.....	5,763	37,423	59,220	64,341	123,561
12,059	977	12,317	214,727	231,251	250,893	482,144
12,275	977	13,678	464,544	1,695,820	1,696,719	3,392,539
.....	.....	.....	.....	34,053	34,105	68,158
.....	.....	.....	7,170	17,364	12,275	29,639
.....	.....	.....	7,170	51,417	46,380	97,797
.....	.....	.....	190,395	177,848	191,601	369,449
.....	.....	.....	190,395	177,848	191,601	369,449
.....	.....	.....	197,565	229,265	237,981	467,246
.....	.....	.....	.....	97,812	102,612	200,424
.....	.....	.....	.....	105,257	105,226	210,483
.....	.....	.....	.....	203,069	207,838	410,907

Table 3.—Statement Showing the Number, Tonnage and Nationality of Vessels

Vessels.	Total Number of Trips.	From Canadian to Canadian Ports.		From Canadian to United States Ports.	
		Up.	Down.	Up.	Down.
Chambly Canal.					
United States vessels, steam	6	180	240		280
" " sail	406	591	880		21,923
Total United States	412	771	1,120		22,203
Grand total, Ottawa Canals	2,601	203,840	207,925		23,236
Rideau Canal.					
Canadian vessels, steam	2,105	57,602	56,987	4,351	
" " sail	644	25,682	24,880		605
Total Canadian	2,749	83,284	81,867	4,351	605
United States vessels, steam	2	9	9		
" " sail	64	1,706	1,022		2,313
Total United States	66	1,715	1,031		2,313
Grand total, Rideau Canal	2,815	84,999	82,898	4,351	2,918
St. Peter's Canal.					
Canadian vessels, steam	310	17,414	15,570		
" " sail	1,156	36,479	36,779		
Total Canadian	1,466	53,893	52,349		
United States vessels, steam	2	134	37		
" " sail	2		485		155
Total United States	4	134	522		155
Grand total, St. Peter's Canal	1,470	54,027	52,871		155
Trent Valley Canals.					
Canadian vessels, steam	2,794	68,746	68,336		
" " sail	648	16,654	18,349		
Total Canadian	3,442	85,400	86,685		
United States vessels, steam					
" " sail					
Total United States					
Grand total, Trent Valley Canals	3,442	85,400	86,685		
Murray Canal.					
Canadian vessels, steam	845	194,763	101,957	3,085	
" " sail	395	35,951	30,922	7,869	2
Total Canadian	1,240	230,714	132,879	10,954	2
United States vessels, steam	47	87	329	243	
" " sail	21	269	38	107	
Total United States	68	356	367	350	
Grand total Murray Canal	1,308	231,070	133,246	11,304	2

passed through the several Canals during the Season of Navigation in 1910—*Continued.*

From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.
Up.	Down.	Up.	Down.	Up.	Down.	
				180	520	700
		17,568	301	18,159	23,104	41,263
		17,568	301	18,339	23,624	41,963
		17,568	301	221,408	231,462	452,820
			6,122	61,953	63,109	125,062
			218	25,682	25,703	51,385
			6,340	87,635	88,812	176,447
				9	9	18
		1,736		3,442	3,335	6,777
		1,736		3,451	3,344	6,795
		1,736	6,340	91,086	92,156	183,242
				17,414	15,570	32,984
				36,479	36,779	73,258
				53,893	52,349	106,242
				134	37	171
					640	640
				134	677	811
				54,027	53,026	107,053
				68,746	68,336	137,082
				16,654	18,349	35,003
				85,400	86,685	172,085
				85,400	86,685	172,085
			1,083	197,848	103,040	300,888
			2,405	43,820	33,329	77,149
			3,488	241,668	136,369	378,037
	9	24	254	354	592	946
			53	376	91	467
	9	24	307	730	683	1,413
	9	24	3,795	242,398	137,052	379,450

TABLE 3.—STATEMENT showing the Number, Tonnage and Nationality of Vessels

Vessels.	Total Number of Trips.	From Canadian to Canadian Ports.		From Canadian to United States Ports.	
		Up.	Down.	Up.	Down.
ST. ANDREW'S CANAL.					
Canadian vessels, steam	180	21,489	21,425		
" " sail	22	937	1,036		
Total Canadian	202	22,426	22,461		
United States vessels, steam					
" " sail					
Total United States					
Grand total, St. Andrew's Canal	202	22,426	22,461		

passed through the several Canals during the season of Navigation in 1910—*Concluded.*

From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.
Up.	Down.	Up.	Down.	Up	Down.	
				21,489	21,425	42,914
				937	1,036	1,973
				22,426	22,461	44,887
				22,426	22,461	44,887

TABLE 4.—COMPARATIVE STATEMENT of all the Canals for the Years ended December 31, 1909 and 1910.

Articles.	1909.	1910.	Increase.	Decrease.
Class No. 1.	Tons.	Tons.	Tons.	Tons.
Canadian vessels, steam	6,150,224	6,927,062	776,838	
" sail	1,661,354	2,004,728	343,374	
United States vessels, steam	15,726,035	20,991,142	5,265,107	
" sail	733,287	786,155	52,868	
Total, class No. 1	24,270,900	30,709,087	6,438,187	
Class No. 2.	No.	No.	No.	No.
Passengers	272,222	320,574	48,352	
Class No. 3.	Tons.	Tons.	Tons.	Tons.
Barley	176,577	161,016		15,561
Buckwheat	6,789	1,048		5,741
Corn	180,203	336,592	156,389	
Oats	432,769	565,430	132,661	
Rye	7,688	4,272		3,416
Flax	206,750	85,654		121,096
Peas	326	340	14	
Wheat	3,397,567	3,222,862		174,705
Flour	324,044	363,187	39,143	
Hay	36,503	42,846	6,343	
Other mill products	57,288	55,003		2,285
Fruit and vegetables	15,036	16,026	990	
Potatoes	9,457	7,082		2,375
Live stock	1,635	2,250	615	
Poultry, game, fish	3,064	2,815		249
Dressed meats	573	148		425
Other packing house products	3,201	1,205		1,996
Hides and leather	594	1,261	667	
Wool	287	675	388	
All other animal products	14,947	12,169		2,778
Total, class No. 3	4,875,298	4,881,881	337,210	330,627
Class No. 4.				
Agricultural implements	18,836	28,358	9,522	
Cement, bricks, lime	489,745	728,453	238,708	
Household goods and furniture	2,517	3,797	1,280	
Iron, pig and bloom	98,667	115,997	17,330	
" and steel, all other	309,188	252,061		57,127
Petroleum and other oils	99,980	106,191	6,211	
Sugar and salt	104,474	101,003		3,471
Wines, liquors and beers	18,314	28,316	10,002	
Merchandise not enumerated	723,680	861,361	137,681	
Total, class No. 4	1,865,401	2,225,537	420,734	60,598

TABLE 4.—COMPARATIVE STATEMENT of all the Canals for the Years ended December 31, 1909 and 1910—*Concluded.*

Articles.	1909.	1910.	Increase.	Decrease.
Class No. 5.	Tons.	Tons.	Tons.	Tons.
Pulpwood	883,937	777,427		106,510
Sawed lumber	668,780	735,589	66,809	
Squared timber	31,772	58,633	26,861	
Shingles	8,992	11,475	2,483	
Other woods	95,665	98,294	2,629	
Total, class No. 5	1,689,146	1,681,418	98,782	106,510
Class No. 6.				
Hard coal	933,234	1,208,722	275,488	
Soft "	3,090,799	4,429,222	1,338,423	
Coke	1,456	792		664
Copper ore	8,329	37,986	29,657	
Iron "	21,204,848	28,494,716	7,289,868	
Other "	52,237	30,334		21,903
Total, class No. 6	25,290,903	34,201,772	8,933,436	22,567
Grand total	33,720,748	42,990,608	9,790,162	520,302

Net increase, 9,269,860.

TABLE 5.—STATEMEMT of Traffic on the Undermentioned Canals during the Season of Navigation in 1910.

Articles.	Sault Ste. Marie.	Welland.	St. Lawrence	Chambly.	Ottawa.	Rideau.	St. Peter's.	Trent Valley.	Murray.	St. Andrew's
Class No. 1 Vessels.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Canadian vessels.....Steam	3,188,286	1,238,749	1,662,515	68,158	200,424	125,062	32,984	137,082	300,888	42,914
" " .....Sail	55,208	222,750	1,247,880	29,639	210,482	51,385	73,258	35,003	77,149	1,973
United States vessels.....Steam	19,979,382	651,342	358,583	.....	700	18	171	.....	946	.....
" " .....Sail	208,322	35,676	123,561	369,449	41,263	6,777	640	.....	467	.....
Total, Class One	23,361,198	2,148,517	3,392,539	467,246	452,870	183,242	107,053	172,085	379,450	44,887
Class No. 2.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Passengers.....	33,291	1,655	120,732	2,399	26,458	26,040	633	69,186	33,782	6,398
Class No. 3.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Barley.....	117,687	21,575	21,654	23	19	45	7	6	.....	.....
Buckwheat.....	.....	.....	1,038	2	3	.....	5	.....	.....	.....
Corn.....	4,879	229,980	101,258	99	55	316	3	2	.....	.....
Oats.....	282,369	136,233	140,709	522	583	426	4,569	18	.....	1
Rye.....	3,780	.....	461	.....	4	2	19	6	.....	.....
Flax.....	69,792	6,942	8,919	.....	.....	1	.....	.....	.....	.....
Peas.....	.....	123	146	33	.....	1	.....	37	.....	.....
Wheat.....	2,051,889	587,493	582,426	104	59	642	.....	229	20	.....
Flour.....	283,126	41,152	34,650	1,117	773	348	1,935	86	.....	.....
Hay.....	5,667	841	11,743	18,801	2,244	379	2,996	50	.....	125
Other mill products.....	14,252	18,149	20,267	247	916	307	627	62	148	28
Fruit and vegetables.....	314	50	6,895	2,697	449	400	974	.....	4,247	.....
Potatoes.....	2	.....	685	22	487	18	5,736	132	.....	.....
Live stock.....	47	.....	1,003	233	649	13	35	270	.....	.....
Poultry, game and fish.....	.....	202	168	12	88	7	2,328	.....	10	.....
Dressed meats.....	.....	.....	47	.....	2	50	19	1	29	.....
Other packing house products..	12	.....	365	98	267	205	206	.....	52	.....
Hides and leather.....	903	248	77	.....	11	4	6	12	.....	.....
Wool.....	394	238	29	1	.....	1	2	5	.....	.....
All other animal products.....	12	.....	7,825	60	2,225	1,844	3	147	53	.....
Total, Class Three..	2,835,125	1,043,226	940,365	24,071	8,834	5,009	19,470	1,063	4,564	154

Class No. 4.										
Agricultural implements	13,624	13,624	246	118	196	462	12	74	2	
Cement, bricks, lime	149,561	110,987	191,531	5,744	50,268	60,392	2,639	7,396	149,860	75
Household goods and furniture	1,184	146	1,700	62	227	260	49	46	121	2
Iron—Pig and bloom	72,929	20,374	21,101	114	333	343	64	72	667	
and steel, all other	145,788	37,207	63,963	843	1,108	1,212	505	23	1,412	
Petroleum and other oils	8,176	57,807	37,287	152	956	912	505	24	372	
Sugar and salt	30,332	43,668	16,936	669	4,332	3,636	1,142	11	277	
Wines, liquors and beers	4,898	10,068	10,902	73	966	697	140	23	543	6
Merchandise not enumerated	436,034	222,452	153,341	14,059	13,908	8,385	2,833	1,003	9,252	94
Total, Class Four	862,526	516,333	497,007	21,834	72,294	76,299	7,889	8,672	162,506	177
Class No. 5.										
Pulpwood	10,350	123,143	264,062	364,717		2,049		5,963	915	6,228
Sawed lumber	64,163	21,372	259,667	130,305	218,230	29,472	8,168	1,782	2,113	317
Squared timber	13,285	8,097	28,776	19	6,605	788	431	543	89	
Shingles	9,141	525	545	14	65	110	886	189		
Other woods	3,674	1,600	11,278	1,064	43,299	7,607	639	27,372	354	1,407
Total, Class Five	100,613	154,737	564,328	496,119	268,199	40,026	10,124	35,849	3,471	7,952
Class No. 6.										
Hard coal	601,208	215,501	278,184	99,128	4,500	9,662	447	92		
Soft "	3,508,357	361,990	476,093	357	29,287	3,642	41,913	183	7,400	
Coke		192	300		300					
Copper ore	35,806	2,180								
Iron ore	28,440,952	29,779	164	23,547	4		240	30		
Other ore	11,100	2,352	4,311	4,243	1,843	243	5,868	374		
Total, Class Six	32,597,423	611,994	759,052	127,275	35,934	13,547	48,468	679	7,400	
Grand total	36,395,687	2,326,290	2,760,752	669,299	385,261	134,881	85,951	46,263	177,941	8,283

TABLE 6—SUMMARY Statement of Traffic on the undermentioned Canals during the Season of Navigation, ended December 31, 1910, showing the total quantity of each description of property passed through.

—	Sault Ste. Marie.	Welland.	St. Lawrence	Chambly.	Ottawa.	Rideau.	St. Peter's.	Murray.	Trent Valley.	St. Andrew's
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Vessels of all kinds	23,361,198	2,148,517	3,392,539	467,246	452,870	183,242	107,053	379,450	172,085	44,887
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Passengers	33,291	1,655	120,732	2,399	26,458	26,040	633	33,782	69,186	6,398
Forest Produce of Wood.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Pulwood	10,350	123,143	264,062	364,717	.....	2,049	.....	915	5,963	6,228
Sawed lumber	64,163	21,372	259,667	130,305	218,230	29,472	8,168	2,113	1,782	317
Squared timber	13,285	8,097	28,776	19	6,605	788	431	89	543	.....
Shingles	9,141	525	545	14	65	110	886	.....	189	.....
Other woods	3,674	1,600	11,278	1,064	43,299	7,607	639	.....	27,372	1,407
Totals	100,613	154,737	564,328	496,119	268,199	40,026	10,124	3,471	35,849	7,952
Animals and Produce of Animals.										
Live stock	47	.....	1,003	233	649	13	35	.....	270	.....
Poultry, game and fish	.....	202	168	12	88	7	2,328	10	.....	.....
Dressed meats	.....	.....	47	.....	2	50	19	29	1	.....
Other packing house products	12	.....	365	98	267	205	206	52	.....	.....
Hides and leather	903	248	77	.....	11	4	6	.....	12	.....
Wool	394	238	29	1	.....	1	2	5	5	.....
All other animal products	12	.....	7,825	60	2,225	1,844	3	53	147	.....
Total	1,368	688	9,514	404	3,242	2,124	2,599	149	435	.....
Agricultural Products.										
Barley	117,687	21,575	21,654	23	19	45	7	.....	6	.....
Buckwheat	.....	.....	1,038	2	3	.....	5	.....	.....	.....
Corn	4,879	229,980	101,258	99	55	316	3	.....	2	.....
Oats	282,369	134,233	140,709	522	583	426	4,569	.....	18	1
Rye	3,780	.....	461	.....	4	2	19	.....	6	.....
Flax	69,792	6,942	8,919	.....	.....	1	.....	.....	.....	.....

Peas		123	146	33		1			37	
Wheat	2,051,889	587,493	582,426	104	59	642		20	229	
Flour	283,126	41,152	34,650	1,117	773	348	1,935		86	
Hay	5,667	841	11,743	18,801	2,244	379	2,996		50	125
Other mill products	14,252	18,149	20,267	247	916	307	627	148	62	28
Fruits and vegetables	314	50	6,895	2,697	449	400	974	4,247		
Potatoes	2		685	22	487	18	5,736		132	
Total	2,833,757	1,042,538	930,851	23,667	5,592	2,885	16,871	4,415	628	154
Manufactures.										
Agricultural implements	13,624	13,624	246	118	196	462	12	2	74	
Cement, bricks and lime	149,561	110,987	191,531	5,744	50,268	60,392	2,639	149,860	7,396	75
Household goods and furniture	1,184	146	1,700	62	227	260	49	121	46	2
Iron, pig and bloom	72,929	20,374	21,101	114	333	343	64	667	72	
Iron, steel all other	145,788	37,207	63,963	843	1,108	1,212	505	1,412	23	
Petroleum and other oils	8,176	57,807	37,287	152	956	912	505	372	24	
Sugar and salt	30,332	43,668	16,936	669	4,332	3,636	1,142	277	11	
Wines, liquors and beers	4,898	10,068	10,902	73	966	697	140	543	23	6
Merchandise not enumerated	436,034	222,452	153,341	14,059	13,908	8,385	2,833	9,252	1,003	94
Total	862,526	516,333	497,007	21,834	72,294	76,299	7,889	162,506	8,672	177
Products of Mines.										
Hard coal	601,208	215,501	278,184	99,128	4,500	9,662	447		92	
Soft "	3,508,357	361,990	476,093	357	29,287	3,642	41,913	7,400	183	
Coke		192	300		300					
Copper ore	35,806	2,180								
Iron "	28,440,952	29,779	164	23,547	4		240		30	
Other "	11,100	2,352	4,311	4,243	1,843	243	5,868		374	
Total	32,597,423	611,994	759,052	127,275	35,934	13,547	48,468	7,400	679	
Grand totals (passengers and tonnage of vessels not included)	36,395,687	2,326,290	2,760,752	669,299	385,261	134,881	85,951	177,941	46,263	8,283

TABLE 7 (No. 1)—GENERAL STATEMENT showing the Quantity of each Article Transported on the Sault Ste. Marie Canal during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian	United States.
Agricultural implements	13,624								13,624		13,624	13,624	
All other animal		12								12	12	12	
Barley		20,569		6,819		90,299				117,687	117,687	80,149	37,538
Buckwheat													
Cement, bricks, &c.	139,270	1	165		10,125				149,560	1	149,561	149,561	
Coal, hard	4,808				468,739	14,300	113,361		586,908	14,300	601,208		601,208
" soft	158,527	3,350	15,200		2,423,778	59,034	814,858	53,610	3,412,363	95,994	3,508,357		3,508,357
Coke													
Corn						4,879				4,879	4,879	4,879	
Dressed meats													
Flax		10,329		34,601		24,862				69,792	69,792	52,075	17,717
Flour	138	181,571	10	9,540		85,958		5,909	148	282,978	283,126	253,873	29,253
Fruits and vegetables	314								314		314	314	
Hay	4,587	1,044		6	30				4,617	1,050	5,667	5,667	
Hides and leather	15	274		60		554			15	888	903	903	
Household goods	1,184								1,184		1,184	1,184	
Iron, pig and bloom	38,701			400	570	8,650	24,608		63,879	9,050	72,929	50,835	22,094
Iron and steel, all other	57,693	21,230	1,340	3,360	55,098	1,267	5,800		119,931	25,857	145,788	119,476	26,312
Live stock	41		6						47		47	47	
Merchandise	322,809	11,574	10,249	5,129	62,156	16,809	2,912	4,396	398,126	37,908	436,034	413,982	22,052
Oats		232,888		17,317		28,575		3,589		282,369	282,369	266,189	16,180
Other mill products	90	6,178						7,984	90	14,162	14,252	6,258	7,994
" packing house products		12								12	12	12	
" woods	2,662	65			373	574			3,035	639	3,674	2,995	679
Ore, all other						11,100				11,100	11,100		11,100
" copper						35,806				37,806	35,806	34,586	1,220
" iron						28,420,962		19,990		28,440,952	28,440,952		28,440,952
Peas													
Petroleum	4,206		79		1,950	77	1,864		8,099	77	8,176	6,264	1,912
Poultry, game and fish													
Potatoes	2								2		2	2	
Pulpwood				4,650		5,700				10,350	10,350	10,350	
Rye						3,780				3,780	3,780	700	3,080

Sawed lumber	2,230	2,357		22,179	884	34,605	1,908		5,022	59,141	64,163	49,733	14,430
Shingles				220		8,831		90		9,141	9,141	5,685	3,456
Square timber	7,051	555	160		11,527	713	3,912	894	11,123	2,162	13,285	9,048	4,237
Sugar and salt	17,590	85	1,075			30	25		30,217	115	30,332	25,612	4,720
Wheat		1,075,176		461,054		475,063		40,596		2,051,889	2,051,889	1,809,211	242,678
Wines, liquors and beers	4,419	15	364		60	40			4,843	55	4,898	4,648	250
Wool						394				394	394	394	
Total freight	779,961	1,567,285	28,648	565,335	3,035,290	29,332,862	969,248	117,058	4,813,147	31,582,540	36,395,687	3,378,268	33,017,419

TABLE 7 (No. 2)—GENERAL STATEMENT showing the Quantity of each Article Transported on the Welland Canal during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	13,624								13,624		13,624	13,624	
All other animal													
Barley		17,735				3,840				21,575	21,575	17,735	3,840
Buckwheat													
Cement, bricks, &c	99,541	8,954	292		2,000			200	101,833	9,154	110,987	108,287	2,700
Coal, hard	2,045				197,482		15,974		215,501		215,501		215,501
" soft						4,411		357,579		361,990	361,990		361,990
Coke								192		192	192		192
Corn						126,938		103,042		229,980	229,980		229,980
Dressed meats													
Flax		6,297	645						645	6,297	6,942	6,942	
Flour		28,593				11,859		700		41,152	41,152	29,293	11,859
Fruits and vegetables					50				50		50		50
Hay	841								841		841	841	
Hides and leather	15					233			15	233	248	15	233
Household goods	141							5	141	5	146	144	2
Iron, pig and bloom	17,576	386	1,419					993	18,995	1,379	20,374	19,393	981
Iron and steel, all other	18,933	1,217	1,944					15,113	20,877	16,330	37,207	22,214	14,993
Live stock													
Merchandise	101,604	23,023	21,240	1,289	52,080	15,478	255	7,483	175,179	47,273	222,452	146,520	75,932
Oats		133,856						2,377		136,233	136,233	136,233	
Other mill products		471	1,113			8,571		7,994	1,113	17,036	18,149	1,584	16,565
" packing house products													
" woods	17					1,583			17	1,583	1,600		1,600
Ore, all other	800					1,552			800	1,552	2,352	800	1,552
" copper								2,180		2,180	2,180		2,180
" iron								29,779		29,779	29,779		29,779
Peas						123				123	123		123
Petroleum	129	27,302	1,049		8			29,319	1,186	56,621	57,807	26,869	30,938
Poultry, game and fish					202				202		202		202
Potatoes													
Pulpwood	1,035		120,577		1,531				123,143		123,143	122,383	760
Rye													

Sawed lumber			4,440		5,194		11,738				21,372	21,372	8,402	12,970
Shingles					500		25				525	525	500	25
Square timber	80	3,417									80	8,097	2,367	5,730
Sugar and salt	5,969	397	1,954		34,723			4,600			8,017	8,097	8,754	34,014
Wheat		486,309					10,717	625	42,646		1,022	43,668	514,282	73,211
Wines, liquors and beers	3,440	511	4,379		122			90,467			387,493	387,493	9,759	309
Wool			5				233	1,616	7,941	5	2,127	10,068	5	233
Total freight	265,790	742,908	154,617	6,983	288,198	197,301	16,229	654,264	724,834	1,601,456	238	2,326,290	1,196,946	1,129,344

TABLE (7) No. 3.—GENERAL STATEMENT showing the Quantity of each Through Article Transported on the Welland Canal during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to U. States Ports.		From U. States to U. States Ports.		From U. States to Canadian Ports.		Tons.		Total tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian	United States.
Agricultural implements	13,624								13,624		13,624	13,624	
All other animal													
Barley		17,735				3,840				21,575	21,575	17,735	3,840
Buckwheat													
Cement, bricks, &c	99,541	284	292		2,000			200	101,833	484	102,317	99,617	2,700
Coal, hard	2,045				197,482		15,974		215,501		215,501		215,501
" soft						4,411		357,579		361,990	361,990		361,990
Coke								192		192	192		192
Corn						126,938		103,042		229,980	229,980		229,980
Dressed meats													
Flax		6,297	645						645	6,297	6,942	6,942	
Flour		28,593				11,859		700		41,152	41,152	29,293	11,859
Fruits and vegetables					50				50		50		50
Hay	841								841		841	841	
Hides and leather	15					233			15	233	248	15	233
Household goods	141							5	141	5	146	144	2
Iron, pig and bloom	17,576		1,419					993	18,995	993	19,988	19,007	981
Iron and steel, all other	18,933	225	1,944					7,695	20,877	7,920	28,797	21,222	7,575
Live stock													
Merchandise	101,086	3,242	21,240	1,289	52,080	15,478	255	7,483	174,661	27,492	202,153	126,221	75,932
Oats		133,856						2,377		136,233	136,233	136,233	
Other mill products		471	1,113			8,571		7,994	1,113	17,036	18,149	1,584	16,565
" packing house products													
" woods	17					1,583			17	1,583	1,600		1,600
Ore, all other	800					1,552			800	1,552	2,352	800	1,552
" copper								2,180		2,180	2,180		2,180
" iron								29,779		29,779	29,779		29,779
Peas						123				123	123		123
Petroleum	129	27,302	1,049		8			29,319	1,186	56,621	57,807	26,869	30,938
Poultry, game and fish					202				202		202		202
Potatoes													
Pulpwood	1,035		120,577		1,531				123,143		123,143	122,383	760
Rye													
Sawed lumber		4,430		5,194		11,738				21,362	21,362	8,392	12,970
Shingles				500		25				525	525	500	25
Square timber		3,130						4,600		7,730	7,730	2,000	5,730

Sugar and salt	5,969	397	1,954	..	..	34,723	.....	625	42,646	1,022	43,668	8,754	34,914
Wheat	479,689	.....	.....	..	..	.....	10,717	90,467	.....	580,864	580,864	507,653	73,211
Wines, liquors and beers	3,440	511	4,379	.....	.....	122	..	1,616	7,941	2,127	10,068	9,759	309
Wool	.....	.....	5	..	.....	.....	233	.....	5	233	238	5	233
Total freight	265,192	706,153	154,617	6,983	288,198	197,301	16,229	646,846	724,236	1,557,283	2,281,519	1,159,593	1,121,926

TABLE 7—No. 4—General Statement showing the Quantity of each Way Article Transported on the Welland Canal, during the season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural Implements													
All other animals													
Barley													
Buckwheat													
Cement, bricks &c		8,670								8,670	8,670	8,670	
Coal, hard													
" soft													
Coke													
Corn													
Dressed meats													
Flax													
Flour													
Fruits and vegetables													
Hay													
Hides and leather													
Household goods													
Iron, Pig and bloom		386								386	386	386	
Iron and steel, all others		992						7,418		8,410	8,410	992	7,418
Live stock													
Merchandise	518	19,781							518	19,781	20,299	20,299	
Oats													
Other mill products													
" packing house products													
" woods,													
Ore, all other													
" Copper													
" Iron													
Peas													
Petroleum													
Poultry, game and fish													
Potatoes													
Pulpwood													
Rye													

Sawed lumber		10								10	10	10	
Shingles													
Square timber	80	287							80	287	367	367	
Sugar and salt													
Wheat		6,629								6,629	6,629	6,629	
Wines, liquors and beers													
Wool													
Total freight	598	36,755						7,418	598	44,173	44,771	37,353	7,418

TABLE 7 (No. 5). GENERAL STATEMENT showing the Quantity of each Article Transported on the St. Lawrence Canals during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	U. States.
Agricultural implements	228	18							228	18	246	246	
All other animal	1,163	6,657					3		1,166	6,657	7,823	7,820	3
Barley	1,523	20,131							1,523	20,131	21,654	21,654	
Buckwheat	644	394							644	394	1,038	1,038	
Cement, bricks, &c	100,822	90,709							100,822	90,709	191,531	189,211	2,320
Coal, hard	9,114	2					350	268,718	9,464	268,720	278,184	8,942	269,242
" soft	145,948	11,554						318,591	145,948	330,145	476,093	157,502	318,591
Coke	300								300		300	300	
Corn	1,474	22,495						77,289	1,474	99,784	101,258	23,969	77,289
Dressed meats	26	21							26	21	47	47	
Flax	1,321	7,598							1,321	7,598	8,919	8,919	
Flour	2,043	32,607							2,043	32,607	34,650	34,650	
Fruits and vegetables	283	6,612							283	6,612	6,895	6,895	
Hay	6,514	5,229							6,514	5,229	11,743	11,743	
Hides and leather	41	36							41	36	77	77	
Household goods	662	1,036						2	662	1,038	1,700	1,698	2
Iron, pig and bloom	20,692	243	150					16	20,842	259	21,101	21,085	16
Iron and steel, all other	51,570	6,016	257					6,120	51,827	12,136	63,963	57,843	6,120
Live stock	84	919							84	919	1,003	1,003	
Merchandise	110,251	27,517	6,852		329		184	8,210	117,616	35,727	153,343	141,374	11,969
Oats	4,490	136,229							4,480	136,229	140,709	138,992	1,717
Other mill products	8,306	7,412						1,549	8,306	11,961	20,267	14,035	6,232
" packing house products	292	73							292	73	365	365	
" wood	127	8,829	2,082				240		2,449	8,829	11,278	11,038	240
Ore, all other	4,063	248							4,063	248	4,311	1,451	2,860
" copper													
" iron	10	154							10	154	164	164	
Peas	101	45							101	45	146	146	
Petroleum	4,292	15,355	580					17,060	4,872	32,415	37,287	17,787	19,500
Poultry, game and fish	78	90							78	90	168	168	
Potatoes	91	594							91	594	685	685	
Pulpwood			264,062						264,062		264,062	264,062	

Rye	140	321	....	....				...	140	321	461	461	...
Sawed lumber	40,653	185,710	10,577	22,235	5		...	487	51,235	208,432	259,667	259,175	492
Shingles	500	45	....	....			...	....	500	45	545	545	....
Square timber	14	26,962	....	..			....	1,800	14	28,762	28,776	26,976	1,800
Sugar and salt	15,398	1,512	....				....	26	15,398	1,538	16,936	16,742	194
Wheat	15,943	438,393	....	....			....	68,090	15,942	566,483	582,426	513,722	68,704
Wines, liquors and beers	7,626	1,741	1,515	....	....	....	....	20	9,141	1,761	10,902	10,882	20
Wool	16	13	....	....	....	....	....	....	16	13	29	29	....
Total freight	556,833	1,123,520	286,075	22,235	334	....	777	770,978	844,019	1,916,733	2,760,752	1,973,441	787,311

TABLE 7 (No. 6).—GENERAL STATEMENT showing the Quantity of each Through Article Transported on the St. Lawrence Canals during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	7								7		7	7	
All other animal	5	4,457							5	4,457	4,462	4,462	
Barley		20,000								20,000	20,000	20,000	
Buckwheat		372								372	372	372	
Cement, bricks, &c	20,995	484							20,995	484	21,479	21,479	
Coal, hard	650						257,996		650	257,996	258,646	650	257,996
" soft	6,701						308,334		6,701	308,334	315,035	6,701	308,334
Coke													
Corn		323					77,289			77,612	77,612	323	77,289
Dressed meats	10								10		10	10	
Flax	645	6,607							645	6,607	7,252	7,252	
Flour	187	27,081							187	27,081	27,268	27,268	
Fruits and vegetables	35	6,087							35	6,087	6,122	6,122	
Hay	216	7							216	7	223	223	
Hides and leather	39								39		39	39	
Household goods	382	806					2		382	808	1,190	1,188	2
Iron, pig and bloom	20,060	12	150				16		20,210	28	20,238	20,222	16
Iron and steel, all other	20,505	3,811	257				6,120		20,762	9,931	30,693	24,573	6,120
Live stock	2	24							2	24	26	26	
Merchandise	95,726	20,564	6,616				7,681		102,342	28,245	130,587	122,906	7,681
Oats	90	130,997							90	130,997	131,087	129,370	1,717
Other mill products	1,229	5,809					4,549		1,229	10,358	11,587	5,355	6,232
" packing house products	40	25							40	25	65	65	
" woods		2	2,082						2,082	2	2,084	2,084	
Ore, all other													
" copper													
" iron	10								10		10	10	
Peas	90								90		90	90	
Petroleum	925	15,021	580				17,060		1,505	32,081	33,586	16,526	17,060
Poultry, game and fish													
Potatoes	5	7							5	7	12	12	
Pulpwood			264,062						264,062		264,062	264,062	
Rye													
Sawed lumber			10,577				487		10,577	487	11,064	10,577	487

Shingles													
Square timber								1,800		1,800	1,800		1,800
Sugar and salt	10,055	792						26	10,055	818	10,873	10,847	26
Wheat	120	494,059						68,090	120	562,149	562,269	493,565	68,704
Wines, liquors and beers	6,642	1,729	1,515					20	8,157	1,749	9,906	9,886	20
Wool	10	5							10	5	15	15	
Total freight	185,381	739,081	285,839					749,470	471,220	1,488,551	1,959,771	1,206,287	753,484

TABLE 7 (No. 7)—GENERAL STATEMENT showing the Quantity of each Way Article Transported on the St. Lawrence Canals during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	221	18							221	18	239	239	
All other animal	1,158	2,200					3		1,161	2,200	3,361	3,358	3
Barley	1,523	131							1,523	131	1,654	1,654	
Buckwheat	644	22							644	22	666	666	
Cement, bricks, &c.	79,827	90,225							79,827	90,225	170,052	167,732	2,320
Coal, hard	8,464	2					350	10,722	8,814	10,724	19,538	8,292	11,246
" soft	139,247	11,554						10,257	139,247	21,811	161,058	150,801	10,257
Coke	300								300		300	300	
Corn	1,474	22,172							1,474	22,172	23,646	23,646	
Dressed meats	16	21							16	21	37	37	
Flax	676	991							676	991	1,667	1,667	
Flour	1,856	5,526							1,856	5,526	7,382	7,382	
Fruits and vegetables	248	525							248	525	773	773	
Hay	6,298	5,222							6,298	5,222	11,520	11,520	
Hides and leather	2	36							2	36	38	38	
Household goods	280	230							280	230	510	510	
Iron, pig and bloom	632	231							632	231	863	863	
Iron and steel, all other	31,065	2,205							31,065	2,205	33,270	33,270	
Live stock	82	895							82	895	977	977	
Merchandise	14,525	6,953	236		329		184	529	15,274	7,482	22,756	18,468	4,288
Oats	4,390	5,232							4,390	5,232	9,622	9,622	
Other mill products	7,077	1,603							7,077	1,603	8,680	8,680	
" packing house products	252	48							252	48	300	300	
" woods	127	8,827					240		367	8,827	9,194	8,954	240
Ore, all other	4,063	248							4,063	248	4,311	1,451	2,860
" copper													
" iron		154								154	154	154	
Peas	11	45							11	45	56	56	
Petroleum	3,367	334							3,367	334	3,701	1,261	2,440
Poultry, game and fish	78	90							78	90	168	168	
Potatoes	86	587							86	587	673	673	
Pulpwood													
Rye	140	321							140	321	461	461	

Sawed lumber	40,653	185,710		22,235	5				40,658	207,945	248,603	248,598	5			
Shingles	500	45							500	45	545	545				
Square timber	14	26,962							14	26,962	26,976	26,967				
Sugar and salt	5,343	720							5,343	720	6,063	5,895	168			
Wheat	15,823	4,334							15,823	4,334	20,157	20,157				
Wines, liquors and beers	984	12							984	12	996	996				
Wool	6	8							6	8	14	14				
Total freight	371,452	384,439	235	22,235	334		777	21,508	372,799	428,182	800,981	767,154	33,827			

TABLE 7 (No. 8)—GENERAL STATEMENT showing the Quantity of each Article Transported on the Chambly Canal during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	116	2							116	2	118	118	
All other animal	2	58							2	58	60	60	
Barley	21	2							21	2	23	23	
Buckwheat		2								2	2	2	
Cement, bricks, &c	201	40						5,503	201	5,543	5,744	241	5,503
Coal, hard	5	207						98,916	5	99,123	99,128	212	98,916
" soft													
Coke								357		357	357		357
Corn	95	4							95	4	99	99	
Dressed meats													
Flax													
Flour	1,083	34							1,083	34	1,117	1,117	
Fruits and vegetables	628	2,052						17	628	2,069	2,697	2,680	17
Hay	11,775	7,026							11,775	7,026	18,801	18,801	
Hides and leather													
Household goods	40	22							40	22	62	62	
Iron, pig and bloom	97	17							97	17	114	114	
Iron and steel, all other	840	3							840	3	843	843	
Live stock	7	222						4	7	226	233	229	4
Merchandise	2,039	1,008						11,012	2,039	12,020	14,059	3,047	11,012
Oats	34	488							34	488	522	522	
Other mill products	240	7							240	7	247	247	
" packing house products	80	18							80	18	98	98	
" woods	20	1,044							20	1,044	1,064	1,064	
Ore, all other								4,243		4,243	4,243		4,243
" copper													
" iron								23,547		23,547	23,547		23,547
Peas	27	6							27	6	33	33	
Petroleum	152								152		152	152	
Poultry, game and fish	2	10							2	10	12	12	
Potatoes	22								22		22	22	
Pulpwood	364,717								364,717		364,717	364,717	
Rye													
Sawed lumber	37	23	130,245						130,282	23	130,305	130,305	

Shingles	33								33		33	33	
Square timber													
Sugar and salt	669								669		669	669	
Wheat	93	11							93	11	104	104	
Wines, liquors and beers	73								73		73	73	
Wool		1								1	1	1	
Total freight	383,148	12,307	130,245					143,599	513,393	155,906	669,299	525,700	143,599

TABLE 7 (No. 9).—GENERAL STATEMENT showing the Quantity of each Article Transported on the St. Peter's Canal during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	11	1							11	1	12	12	
All other animal	2	1							2	1	3	3	
Barley	7								7		7	7	
Buckwheat	5								5		5	5	
Cement, bricks, &c.	409	2,230							409	2,230	2,639	2,639	
Coal, hard	218						229		447		447	218	229
" soft	17	41,896							17	41,896	41,913	41,913	
Coke													
Corn	3								3		3	3	
Dressed meats	19								19		19	19	
Flax													
Flour	1,934	1							1,934	1	1,935	1,935	
Fruits and vegetables	974								974		974	974	
Hay	2,996								2,996		2,996	2,996	
Hides and leather	4	2							4	2	6	6	
Household goods	49								49		49	49	
Iron, pig and bloom	64								64		64	64	
Iron and steel, all other	254	251							254	251	505	505	
Live stock	35								35		35	35	
Merchandise	2,647	186							2,647	186	2,833	2,833	
Oats	4,569								4,569		4,569	4,569	
Other mill products	627								627		627	627	
" packing house products	206								206		206	206	
" woods	428	211							428	211	639	639	
Ore, all other	955	4,913							955	4,913	5,868	5,868	
" [1]copper													
" iron	2	238							2	238	240	240	
Peas													
Petroleum	414	91							414	91	505	505	
Poultry, game and fish	128	2,200							128	2,200	2,328	2,328	
Potatoes	5,734	2							5,734	2	5,736	5,736	
Pulpwood													
Rye	19								19		19	19	
Sawed lumber	8,165	3							8,165	3	8,168	8,168	

Shingles	886								886		886	886	
Square timber	431								431		431	431	
Sugar and salt	1,142								1,142		1,142	1,142	
Wheat													
Wines, liquors and beers	128	12							128	12	140	140	
Wool		2								2	2	2	
Total freight	33,482	52,240					229		33,711	52,240	85,951	85,722	229

TABLE 7 (No. 10)—GENERAL STATEMENT showing the Quantity of each Article Transported on the Murray Canal during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to Canadian Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements		2								2	2	2	
All other animal	30	23							30	23	53	53	
Barley													
Buckwheat													
Cement, bricks, &c	149,860								149,860		149,860	149,860	
Coal, hard								7,103		7,400	7,400	297	7,103
" soft		297											
Coke													
Corn										29	29	29	
Dressed meats		29											
Flax													
Flour													
Fruit and vegetables	1,645	2,602							1,645	2,602	4,247	4,247	
Hay													
Hides and leather													
Household goods	71	50							71	50	121	121	
Iron, pig and bloom		667								667	667	667	
Iron and steel, all other	1,135	277							1,135	277	1,412	1,412	
Live stock													
Merchandise	5,514	3,738							5,514	3,738	9,252	9,250	2
Oats													
Other mill products	118	30							118	30	148	148	
" packing house products	10	42							10	42	52	52	
" woods	354								354		354	354	
Ore, all other													
" copper													
" iron													
Peas													
Petroleum	85	287							85	287	372	261	111
Poultry, game and fish	10								10		10	10	
Potatoes													
Pulpwood	360		555						915		915	915	
Rye													
Sawed lumber	2,095	18							2,095	18	2,113	2,113	

Shingles													
Square timber	80	9							80	9	89	89	
Sugar and salt	222	55							222	55	277	232	45
Wheat	20								20		20	20	
Wines, liquors and beers	128	415							128	415	543	543	
Wool		5								5	5	5	
Total freight	161,737	8,546	555					7,103	162,292	15,649	177,941	170,680	7,261

TABLE 7 (No. 11).—GENERAL STATEMENT showing the Quantity of each Article Transported on the Ottawa Canals during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to U. States Ports.		From U. States to U. States Ports.		From U. States to Canadian Ports.		Tons.		Total tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	184	12							184	12	196	196	
All other animal	93	2,132							93	2,132	2,225	2,225	
Barley	13	6							13	6	19	19	
Buckwheat	4								4		4	4	
Cement, bricks, &c	1,033	48,879					356		1,389	48,879	50,268	49,912	356
Coal, hard	636						3,864		4,500		4,500	449	4,051
" soft	29,287								29,287		29,287	29,287	
Coke	300								300		300	300	
Corn	77								77		77	27	
Dressed meats		2								2	2	2	
Flax													
Flour	721	52							721	52	773	773	
Fruits and vegetables	199	250							199	250	449	449	
Hay		2,244								2,244	2,244	2,244	
Hides and leather	1	10							1	10	11	11	
Household goods	164	63							164	63	227	227	
Iron pig and bloom	318	15							318	15	333	333	
Iron and steel, all other	1,092	16							1,092	16	1,108	1,108	
Live stock	38	611							38	611	649	649	
Merchandise	7,542	3,693					2,673		10,215	3,693	13,908	11,235	2,673
Oats	14	548							14	548	562	562	
Other mill products	268	648							268	648	916	916	
" packing house products	243	24							243	24	267	267	
" woods	225	42,742		332					225	43,074	43,299	43,299	
Ore, all other	900	30					913		1,813	30	1,843	930	913
" copper										4	4	4	
" iron		4											
Peas													
Petroleum	792	164							792	164	956	956	
Poultry, game and fish		88								88	88	88	
Potatoes	16	471							16	471	487	487	
Pulpwood													
Rye		2								2	2	2	

Sawed lumber	459	162,062		60,681					459	222,743	223,202	223,202	
Shingles	20	45							20	45	65	65	
Square timber	2	1,631							2	1,631	1,633	1,633	
Sugar and salt	4,268	64							4,268	64	4,332	4,332	
Wheat	59								59		59	59	
Wines, liquors and beers	955	11							955	11	966	966	
Wool													
Total freight	49,923	266,519		61,013			7,906		57,729	327,532	385,261	377,268	7,993

TABLE 7 (No. 12).—GENERAL STATEMENT showing the Quantity of each Article Transported on the Rideau Canal during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	285	177							285	177	462	462	
All other animal	518	1,326							518	1,326	1,844	1,844	
Barley		45								45	45	45	
Buckwheat													
Cement, bricks, &c	29,171	13,217	4						29,175	31,217	60,392	60,392	
Coal, hard	8	26					925	8,703	933	8,729	9,662	10	9,652
" soft	227	16						3,399	227	3,415	3,642	229	3,413
Coke													
Corn	5	311							5	311	316	256	60
Dressed meats	4	18							4	18	22	22	
Flax		1								1	1	1	
Flour	88	260							88	260	348	348	
Fruits and vegetables	325	75							325	75	400	400	
Hay	361	18							361	18	379	379	
Hides and leather	3	1							3	1	4	4	
Household goods	132	128							132	128	260	260	
Iron, pig and bloom	221	122							221	122	343	343	
Iron and steel, all other	1,025	187							1,025	187	1,212	1,212	
Live stock	8	5							8	5	13	13	
Merchandise	4,818	2,854					535	178	5,353	3,032	8,385	7,672	713
Oats		426								426	426	426	
Other mill products	42	265							42	265	307	307	
" packing house products	199	34							199	34	233	233	
" woods	6,599	1,008							6,599	1,008	7,607	7,607	
Ore, all other	9	234							9	234	243	243	
" copper													
" iron													
Peas	1								1		1	1	
Petroleum	583	329							583	329	912	912	
Poultry, game and fish	4	3							4	3	7	7	
Potatoes	15	3							15	3	18	18	
Pulpwood	552	1,497							552	1,497	2,049	2,049	
Rye		2								2	2	2	
Sawed lumber	8,384	15,218		5,870					8,384	21,088	29,472	29,472	

Shingles	96	14	....	....	....	....	....	....	96	14	110	110	....
Square timber	677	111	....	....	....	....	....	....	677	111	788	788	....
Sugar and salt	3,097	539	....	....	....	....	....	....	3,097	539	3,636	3,636	....
Wheat	17	625	....	....	....	....	....	....	17	625	642	642	....
Wines, liquors and beer	574	123	....	....	....	....	....	....	574	123	697	697	....
Wool	1	....	....	....	....	....	....	....	1	....	1	1	....
Total freight	58,049	57,218	4	5,870	....	....	1,460	12,280	59,513	75,368	134,881	121,043	13,838

TABLE 7 (No. 13).—GENERAL STATEMENT showing the Quantity of each Article transported on the Trent Valley Canals during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural Implements	21	53							21	53	74	74	
All other animal	93	58							93	58	151	151	
Barley	6								6		6	6	
Buckwheat													
Cement, bricks, &c	7,126	270							7,126	270	7,396	7,396	
Coal, hard	92								92		92	92	
" soft	68	115							68	115	183	183	
Coke													
Corn		2								2	2	2	
Dressed meats		1								1	1	1	
Flax													
Flour	43	43							43	43	86	86	
Fruits and vegetables													
Hay	48	2							48	2	50	50	
Hides and leather		12								12	12	12	
Household goods	37	9							37	9	46	46	
Iron, pig and bloom	32	40							32	40	72	72	
Iron and steel, all other	20	3							20	3	23	23	
Live stock	243	27							243	27	270	570	
Merchandise	650	353							650	353	1,003	1,003	
Oats	18								18		18	18	
Other mill products	16	46							16	46	62	62	
" packing house products													
" woods	5,770	21,602							5,770	21,602	27,372	27,372	
Ore, all other		374								374	374	374	
" copper													
" iron	30								30		30	30	
Peas	30	7							30	7	37	37	
Petroleum	19	5							19	5	24	24	
Poultry, game and fish													
Potatoes	131	1							131	1	132	132	
Pulpwood	110	5,853							110	5,853	5'963	5,963	
Rye	6								6		6	6	

Sawed lumber	720	1,062							720	1,062	1,782	1,782	
Shingles	51	138							51	138	189	189	
Square timber	26	517							26	517	543	543	
Sugar and salt	11								11		11	11	
Wheat	229								229		229	229	
Wines, liquors and beers	19	4							19	4	23	23	
Wool		1								1	1	1	
Total freight	15,665	30,598							15,665	30,598	46,263	46,263	

TABLE 7 (No. 14.)—GENERAL STATEMENT showing the Quantity of each Article Transported on the St. Andrews Canal during the Season of Navigation in 1910.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements													
All other animals													
Barley													
Buckwheat													
Cement, brick, &c.	75								75		75	75	
Coal, hard													
" soft													
Coke													
Corn													
Dressed meats													
Flax													
Flour													
Fruits and vegetables													
Hay	125								125		125	125	
Hides and leather													
Household goods		2								2	2	2	
Iron, pig and bloom													
Iron and steel, all other													
Live stock													
Merchandise		94								94	94	94	
Oats		1								1	1	1	
Other mill products		28								28	28	28	
" packing house products													
" woods	1,407								1,407		1,407	1,407	
Ore, all other													
" copper													
" iron													
Peas													
Petroleum													
Poultry, game and fish													

Potatoes													
Pulpwood	6,228								6,228		6,228	6,228	
Rye													
Sawed lumber	317								317		317	317	
Shingles													
Square Timber													
Sugar and salt													
Wheat													
Wines, liquors and beer		6								6	6	6	
Wool													
Total freight	8,152	131							8,152	131	8,283	8,233	

TABLE 8.—STATEMENT showing the Classified Tonnage of all kinds of Vessels

SAULT STE.

CANADIAN.

Class.	Steam Vessels.	No.	Tonnage.	Class.	Sailing Vessels.	No.	Tonnage.
1	5,000 to 5,142 tons	1	5,142	1	5,000 to —— tons		
2	4,000 " 5,000 "	1	4,500	2	4,000 " 5,000 "		
3	3,000 " 4,000 "	2	7,000	3	3,000 " 4,000 "		
4	2,000 " 3,000 "	8	18,500	4	2,000 " 3,000 "		
5	1,000 " 2,000 "	64	80,566	5	1,000 " 2,000 "		
6	Under 1,000 "	50	12,090	6	Under 1,000 "	26	7,070
	Total	126	127,732		Total	26	7,070

WELLAND

1	250 to 1,665 tons	65	72,766	1	250 to 1,226 tons	9	7,720
2	200 " 249 "	3	625	2	200 " 249 "	3	625
3	150 " 199 "	2	320	3	150 " 199 "	2	365
4	100 " 149 "	3	370	4	100 " 149 "	10	1,060
5	50 " 99 "	5	380	5	50 " 99 "	3	205
6	Under 50 "	24	634	6	Under 50 "	1	15
	Total	104	75,095		Total	28	9,990

ST. LAWRENCE

1	250 to 1,665 tons	74	69,492	1	250 to 1,000 tons	104	51,965
2	200 " 249 "	4	820	2	200 " 249 "	8	1,620
3	150 " 199 "	14	2,400	3	150 " 199 "	75	12,030
4	100 " 149 "	15	1,810	4	100 " 149 "	92	10,340
5	50 " 99 "	56	3,885	5	50 " 99 "	42	3,260
6	Under 50 "	79	1,485	6	Under 50 "	17	608
	Total	242	79,892		Total	338	79,823

RIDEAU, OTTAWA

1	250 to 492 tons	3	1,162	1	250 to 350 tons	1	350
2	200 " 249 "	2	400	2	200 " 249 "	7	1,480
3	150 " 199 "	4	650	3	150 " 199 "	49	7,970
4	100 " 149 "	5	575	4	100 " 149 "	44	5,595
5	50 " 99 "	7	470	5	50 " 99 "	14	895
6	Under 50 "	32	575	6	Under 50 "	12	290
	Total	53	3,832		Total	127	16,580

passed through the following during the Season of Navigation in 1910.

MARIE CANAL.

UNITED STATES.

Class.	Steam Vessels.	No.	Tonnage.	Class.	Sailing Vessels.	No.	Tonnage.
1	5,000 to 6,498 tons	104	546,000	1	5,000 to —— tons	...	...
2	4,000 " 5,000 "	65	275,000	2	4,000 " 5,000 "	3	12,500
3	3,000 " 4,000 "	138	452,500	3	3,000 " 4,000 "	13	40,500
4	2,000 " 3,000 "	56	120,000	4	2,000 " 3,000 "	10	21,000
5	1,000 " 2,000 "	54	75,500	5	1,000 " 2,000 "	7	9,000
6	Under 1,000 "	93	112,750	6	Under 1,000 "	24	10,950
	Total	510	1,581,750		Total	57	93,950

CANAL.

1	250 to 1,691 tons	33	39,916	1	250 to 1,599 tons	3	3,908
2	200 " 249 "	...	...	2	200 " 249 "	1	200
3	150 " 199 "	...	...	3	150 " 199 "	...	...
4	100 " 149 "	1	100	4	100 " 149 "	...	...
5	50 " 99 "	9	630	5	50 " 99 "	1	75
6	Under 50 "	24	335	6	Under 50 "	4	71
	Total	67	40,981		Total	9	4,234

CANAL.

1	250 to 1,552 tons	24	21,331	1	250 to 1,590 tons	16	9,968
2	200 " 249 "	...	...	2	200 " 249 "	1	200
3	150 " 199 "	2	340	3	150 " 199 "	...	...
4	100 " 149 "	5	590	4	100 " 149 "	45	4,670
5	50 " 99 "	7	460	5	50 " 99 "	75	6,925
6	Under 50 "	36	395	6	Under 50 "	...	...
	Total	74	23,116		Total	137	21,763

AND CHAMBLY CANALS.

1	250 to —— tons	...	...	1	250 to 250 tons	1	250
2	200 " 249 "	...	...	2	200 " 249 "	1	200
3	150 " 199 "	...	...	3	150 " 199 "	11	1,710
4	100 " 149 "	...	...	4	100 " 149 "	382	40,260
5	50 " 99 "	...	...	5	50 " 99 "	254	23,905
6	Under 50 "	...	...	6	Under 50 "	...	...
	Total	...	...		Total	649	66,325

APPENDIX

DOMINION CANALS

The canal systems of the Dominion, under government control in connection with lakes and navigable rivers, are as follows:—

First—The through route between Montreal and the head of Lake Superior (14 feet minimum depth of water.)

	Miles.
1. Lachine canal	8½
Lake St. Louis and River St. Lawrence	16
2. Soulanges canal	14
Lake St. Francis and River St. Lawrence	33
3. Cornwall canal	11
River St. Lawrence	5
4. Farran's Point canal	1½
River St. Lawrence	10
5. Rapide Plat canal	3⅜
River St. Lawrence	4
6. Galops canal	7⅓
River St. Lawrence and Lake Ontario	236
7. Welland canal	26¾
Lake Erie, Detroit river, Lake St. Clair, Lake Huron, &c.	580
8. Sault Ste. Marie canal	1¼
Lake Superior to Port Arthur	266
Total	1,223 17/24
To Duluth	1,357
Chicago	1,286

Second.—Ottawa to Lake Champlain.

1. Grenville. 2. Carillon. 3. St. Anne's. 4. Chambly. 5. St. Ours canals.

Third.—Ottawa to Kingston and Perth.

1. Rideau canal.

Fourth.—Lake Ontario at Trenton to Lake Huron at mouth of River Severn.

1. Trent canal (not completed).

Fifth.—Ocean to Bras d'Or lakes.

1. St. Peter's canal.

RIVER ST. LAWRENCE AND LAKES.

The River St. Lawrence with the system of canals established on its course above Montreal, and the Lakes Ontario, Erie, St. Clair, Huron and Superior, with connecting canals, afford a course of water communication extending from the Straits of Belle Isle to Port Arthur, at the head of Lake Superior, a distance of 2,200 statute miles. The distance to Duluth is 2,343 statute miles. The distance to Chicago, 2,272 miles.

From the Straits of Belle Isle, at the mouth of the St. Lawrence, to Montreal, the distance is 986 miles. From Quebec to Montreal, the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, particularly through Lake St. Peter, vessels drawing more than from ten to twelve feet were formerly barred from passage for the greater part of the season of navigation. In 1826, the question of deepening the channel was first definitely mooted, but it was not until 1844 that any dredging operations were begun. In that year, the deepening of a new straight channel was commenced, but the scheme was abandoned in 1847. In 1851 the deepening of the present channel was begun. At that time the depth of the channel at low water was 10 feet 6 inches. By the year 1869, this depth had been increased to 20 feet, by 1882 to 25 feet, and by the close of 1888 the depth of 27½ feet, at low water, was attained for a distance of 108 miles from Montreal to a point within tidal influence. This work is now being continued by the government of Canada, which in 1888, under the provisions of the Act 51 Vic., ch. 5, of that year, assumed the indebtedness. The channel has a minimum width of 300 feet, extending to 550 feet at points of curvature. The channel is lighted and buoyed.

Navigation, which is closed by ice during the winter months, opens about the end of April.

Montreal has by this work been placed at the head of ocean navigation, and here the canal systems of the River St. Lawrence begin, overcoming the various rapids by which the river channel upwards is obstructed, and giving access through the St. Lawrence canals, the Welland canal, the great lakes and the Sault Ste. Marie canal, to the head of Lake Superior.

The difference in level between the point on the St. Lawrence, near Three Rivers, where tidal influence ceases, and Lake Superior is about 600 feet.

The Dominion canals, constructed between Montreal and Lake Superior, are the Lachine, Soulanges, Cornwall, Farran's Point, Rapide Plat, Galops, Murray, Welland and Sault Ste. Marie. Their aggregate length is 73 miles; total lockage (or height directly overcome by locks), 551 feet. The number of locks through which a vessel would pass in its passage from Montreal, at the head of ocean navigation, to the head of Lake Superior is 48. The Soulanges canal takes the place of the Beauharnois canal; the latter may be abandoned for navigation purposes.

Communication between Lakes Huron and Superior is obtained by means of the Canadian Sault Ste. Marie canal, and also by the St. Mary's Falls canal, situated on the United States side of the River St. Mary. Both these canals are free of toll.

It is important to note that the enlargement of the canals on the main route between Montreal and Lake Erie comprises locks of the following minimum dimensions: Length, 270 feet; width, 45 feet; depth of water on sills, 14 feet. The length of the vessels to be accommodated is limited to 255 feet. At Farran's, in the canal of that name, the lock is 800 feet long. A similar lock is built at Iroquois on the Galops canal, the object being to pass a full tow at one lockage.

LACHINE CANAL.

First construction	commenced	1821
"	completed	1825
First enlargement	commenced	1843
"	completed	1848
Second enlargement	commenced	1873
"	completed	1901
Length of canal		8½ statute miles.
Number of locks		5
Dimensions of locks		270 feet by 45 feet.
Total rise of lockage		45 feet.
Depth of water on sills.	at two locks	18 "
	at three locks	14 "
Average width of new canal		150 "

The old lift locks, 200 feet by 45 feet, are still available, with 9 feet of water on mitre sills.

The canal consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two lock entrances at each end.

The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis rapids, the first of the series of rapids which bars the ascent of the River St. Lawrence. They are 986 miles distant from the Straits of Belle Isle.

SOULANGES CANAL.

Construction commenced		1892
Open for traffic		1899
Length of canal		14 statute miles.
Number of locks	lift	4
	guard	1
Dimensions of locks		280 feet by 45 feet.
Total rise of lockage		84 feet
Depth of water on sills		15 "
Breadth of canal at bottom		100 "
Breadth of canal at water surface		164 "
Number of arc lights		219 of 2,000 c. p. each.

The canal extends from Cascade point to Coteau Landing, overcoming the Cascade Rapids, Cedar rapids and Coteau rapids.

From the head of the Lachine to the foot of the Soulanges, the distance is sixteen miles.

CORNWALL CANAL.

First commenced, 9 feet		1844
" opened		1847
Enlargement commenced		1897
" completed		1900
Length of canal		11 statute miles.
Number of locks		6
Dimensions of locks		270 feet by 75 feet.
Total rise of lockage		48 feet.
Depth of water on sills		14 "
Breadth of canal at bottom		100 "
Breadth of canal at water surface		164 "

The old lift locks, 200 feet by 45 feet, are also available, with nine feet of water on mitre sills.

From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis, of 32¾ miles, which is being made navigable for vessels drawing fourteen feet.

The Cornwall canal extends past the Long Sault rapids from the town of Cornwall to Dickinson's landing.

WILLIAMSBURG CANALS.

The Farran's Point, Rapide Plat and Galops canals are collectively known as the Williamsburg Canals.

FARRAN'S POINT CANAL.

First commenced, 9 feet	1844
" opened	1847
Enlargement commenced	1897
" completed	1900
Length of canal	1½ miles.
Number of locks	1
New lock	800 feet by 45 feet
Old lock	200 "
Total rise or lockages	3½ feet.
Depth of water on sills of new lock	14 "
Depth of water on sills of old lock	9 "
Breadth of canal at bottom	90 "
Breadth of canal at water surface	154 "

From the head of the Cornwall canal to the foot of Farran's Point canal, the distance on the River St. Lawrence is five miles. The latter canal enables vessels ascending the river to avoid Farran's Point rapid, passing the full tow at one lockage. Descending vessels run the rapids with ease and safety.

RAPIDE PLAT CANAL.

First commenced, 9 feet	1844
" opened	1847
Enlargement commenced	1884
" completed	1897
Length of canal	3⅔ miles.
Number of locks	2
Dimensions of locks	270 feet by 45 feet.
Total rise in lockage	11½ feet.
Depth of water on sills	14 "
Breadth of canal at bottom	80 "
Breadth of canal at surface of water	152 "

The old lift lock, 200 feet by 45, is also available, with nine feet of water on mitre sills.

From the head of Farran's Point canal to the foot of Rapide Plat canal, there is a navigable stretch of 10½ miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

GALOPS CANAL.

First commenced, 9 feet	1844
Opened	1846
Enlargement commenced	1888
" completed	1903
Length of canal	7¾ miles.
Number of locks	3
Dimensions of locks, one of which is a guard lock.	2–270 by 45.
	1–800 by 45.
Total rise of lockage	15½ feet.
Depth of water on sills	14 "
Breadth of canal at bottom	80 "
Breadth of canal at surface of water	144 "

From the head of Rapide Plat canal to Iroquois, at the foot of the Galops canal, the St. Lawrence is navigable 4½ miles. The canal enables vessels to overcome the rapids at Pointe aux Iroquois, Point Cardinal and the Galops.

MURRAY CANAL.

Construction begun	1882
Completed	1890
Length between eastern and western pier heads	5⅛ miles.
Breadth at bottom	80 feet.
Breadth at water surface	120
Depth below lowest known lake level	11

No locks.

This canal extends through the Isthmus of Murray, giving connection westward between the head waters of the Bay of Quinte and Lake Ontario, and thus enabling vessels to avoid the open lake navigation.

WELLAND CANAL.

Main line from Port Dalhousie, Lake Ontario, to Port Colborne, Lake Erie.

	Old Line.	Enlarged or New Line.
Length of Canal	27½ miles	26¾ miles
Pairs of guard-gates (formerly 3)		2
Number of locks, lift	26	25
Number of locks, guard	1	1
Dimensions: 1 lock 200 x 45; 1 lock 200 x 45; 1 (tidal) 230 x 45; 24 locks 150 x 45		270 feet x 45 feet.
Total rise or lockage	326¾ feet	326¾ feet.
Depth of water on sills	10½ "	14 "
Construction commenced, 10 feet 3 inches		1824
" Completed		1833
Enlargement commenced, 14 feet		1872
" completed		1887

WELLAND RIVER BRANCHES.

Length of canal—	
Port Robinson cut to River Welland	2,622 feet.
From the canal at Welland to the river, via lock at Aqueduct	300 "
Chippewa cut to River Niagara	1,020 "
Number of locks—one at Aqueduct and one at Port Robinson	2
Dimensions of locks	150 by 26½ feet.
Total lockage from the canal at Welland down to River Welland	10 feet.
Depth of water on sills	9 feet 10 inches.

GRAND RIVER FEEDER.

Length of canal	21 miles.
Number of locks	2
Dimensions of locks	1 of 150 by 26½ feet. 1 of 200 by 45 feet.
Total rise or lockage	7 to 8 feet.
Depth of water on sills	9 feet.

PORT WELLAND BRANCH.

Length of canal	1¾ miles.
Number of locks	1
Dimensions of locks	185 feet by 45 feet.
Total rise or lockage	7½ feet.
Depth of water on sills	11 "

The Welland canal has two entrances from Lake Ontario, at Port Dalhousie, one for the old, the other for the new canal.

From Port Dalhousie to Allanburg, 11¾ miles, there are two distinct lines of canal in operation, the old line and the enlarged or new line.

From Allanburg to Port Colborne, a distance of 15 miles, there is only one channel, the old canal having been enlarged.

From the head of the Welland canal there is a deep water navigation through Lake Erie, the Detroit river, Lake St. Clair, the St. Clair river, Lake Huron and River St. Mary to the Sault canal, a distance of about 580 miles. From the Sault the distance through Lake Superior to Port Arthur is 266 miles, and to Duluth 400 miles.

SAULT STE. MARIE CANAL.

Construction commenced	1888
Opened for traffic	1895
Length of canal, between the extreme ends of the entrance piers	5,967 feet.
Number of locks	1
Dimensions of locks	900 feet by 60 feet.
Depth of water on sills (at lowest known water level)	20 feet 3 inches.
Total rise or lockage	18 feet.
Breadth of canal at bottom	141 feet 8 inches.
Breadth at surface of water	150 feet.

This canal has been constructed through St. Mary's island, on the north side of the rapids of the River St. Mary, and, with that river, gives communication on Canadian territory between Lakes Huron and Superior. The masonry pier of the bridge carrying the Canadian Pacific Railway over the canal, which stood in the channel of the canal, forming an obstruction to navigation, has been removed; the swing now spanning the full width of the channel or prism of the canal.

MONTREAL, OTTAWA AND KINGSTON.

This route extends from the harbour of Montreal to the port of Kingston, passing through the Lachine canal, the navigation section of the lower River Ottawa, and the Ottawa canals, to the city of Ottawa; thence by the River Rideau and the Rideau canal to Kingston, on Lake Ontario—a total distance of 245⅝ miles.

After leaving the Lachine canal the works constructed to overcome difficulties of navigation are:—

Ottawa River Canals.

The Ste. Anne's lock.	Grenville canal.
Carillon canal.	Rideau canal.

The total lockage (not including that of the Lachine canal) is 509 feet (345 rise, 164 fall)—and the number of locks is 55.

The following table exhibits the intermediate distances from Montreal harbour:—

Sections of Navigation.	Intermediate Distance.	Total Distance, from Montreal.
	Miles.	Miles.
The Lachine canal	8½	
From Lachine to Ste. Anne's lock	15	23
Ste. Anne's lock and piers	⅛	23
Ste. Anne's lock to Carillon canal	27	50
The Carillon canal	¾	51
The Carillon to Grenville canal	6¼	57
The Grenville canal	5¾	63
From the Grenville canal to entrance of Rideau navigation	56	119
Rideau navigation ending at Kingston	126¼	245

STE. ANNE'S LOCK.

Construction commenced	1814.
" completed	1816
Rebuilt of wood	1833
" in masonry	1843.

	Old Lock.	New Lock.
Length of canal	⅛ mile.	⅛ mile.
Number of locks	1	1
Dimensions of locks	190 x 45 feet.	200 x 45 feet.
Total rise or lockage	3 feet.	3 feet.
Depth of water on sills	6 "	9 "

This work, with guide piers above and below, surmounts the Ste. Anne's rapids between Ile Perrot and the head of the Island of Montreal, at the outlet of that portion of the River Ottawa which forms the Lake of Two Mountains, 23½ miles from Montreal harbour.

THE CARILLON CANAL.

Construction commenced	1819
" completed	1833
Enlargement commenced	1871
" completed	1887
Length of canal	¾ mile.
Number of locks	2
Dimensions of locks	200 x 45 feet.
Total rise or lockage	16 feet.
Depth of water on sills	9 "
Breadth of canal at bottom	100 "
Breadth of canal at water surface	110 "

This canal overcomes the Carillon rapids.

From Ste. Anne's lock to the foot of the Carillon canal there is navigable stretch of 27 miles, through the Lake of Two Mountains and the River Ottawa.

By the construction of the Carillon dam across the River Ottawa the water at that point is raised 9 feet, enabling the river above to be used for navigation.

GRENVILLE CANAL.

Construction commenced	1819
" completed	1833
Enlargement commenced	1871
" completed	1887
Length of canal	5¾ miles.
Number of locks	5
Dimensions of locks	200 x 45 feet.
Total rise or lockage	43¾ feet.
Depth of water on sills	9 "
Breadth of canal at bottom	40 to 50 feet.
Breadth of canal at surface of water	50 to 80 "

This canal, by which the Long Sault rapids are avoided, is about 56 miles below the city of Ottawa, up to which point the River Ottawa affords unimpeded navigation.

RIDEAU NAVIGATION.

Construction commenced	1826
" completed	1832

The Rideau system connects the River Ottawa, at the city of Ottawa, with the eastern end of Lake Ontario, at Kingston.

Length of navigation waters	126¼ miles.
Number of locks going from Ottawa to Kingston.	35 ascending. 14 descending.
Total lockage.....446½ feet	282¼ rise and 164 fall at high water.
Dimensions of locks	134 x 33 feet.
Depth of water on sills	5 feet.
Navigation depth through the several reaches	4½ "
Breadth of canal reaches at bottom	60 feet in earth. 54 feet in rock.
Breadth of canal at surface of water	80 feet in earth.

PERTH BRANCH.

Construction commenced	1883		
" completed	1892		
Length of canal	7	miles.	
Number of locks	2		
Dimensions of locks	134	feet x 33	feet.
Total rise or lockage	26	"	
Depth of water on sills	5	" 6	inches.
Length of dam	200	"	
Breadth of canal at bottom	40	"	
Breadth of canal at surface of water	40	"	in rock.
	60	"	in clay.

The Perth branch of the Rideau canal affords communication between Beveridge's bay, on Lake Rideau and the town of Perth.

The summit level of the Rideau system is at upper Lake Rideau, but several of the descending reaches are also supplied by waters which have been made tributary to them. The following description gives the sources of supply:—

From the summit, the route towards Ottawa follows the Rideau river, and that towards Kingston follows the River Cataraqui. The supply of water for the canal is derived from the reserves given in detail below.

These may be divided into three systems, viz.:—

1. The summit level, supplied by the Wolfe lake system.

2. The eastern descending level to Ottawa, supplied by the River Tay system, discharging into Lake Rideau.

3. The southwest descending level to Kingston, supplied by the Mud lake system formerly known as the Devil lake system, discharging into Lake Openicon.

Lake Openicon receives the waters of Buck lake and Rock lake.

All these waters on the descending level, supplemented by those of Lake Loughboro', flow into Cranberry lake, which, discharging through Round Tail outlet, forms the River Cataraqui. The river, rendered navigable by dams at various points, affords a line of navigation to Kingston.

RICHELIEU AND LAKE CHAMPLAIN.

This system, commencing at Sorel, at the confluence of the Rivers St. Lawrence and Richelieu, 46 miles below Montreal, extends along the River Richelieu, through the St. Ours lock to the basin of Chambly; thence, by the Chambly canal, to St. Johns, and up the River Richelieu to Lake Champlain. The distance from Sorel to the boundary line is 81 miles.

At Whitehall, the southern end of Lake Champlain is entered, and connection is obtained with the River Hudson, by which the city of New York is directly reached. From the boundary line to New York the distance is 330 miles.

The following table shows the distances between Sorel and New York:—

Section of Navigation.	Intermediate Distance.	Total Distances.
	Miles.	Miles.
Sorel to St. Ours lock	14	14
St. Ours lock to Chambly canal	32	46
Chambly canal	12	58
Chambly canal to boundary line	23	81
Boundary line to Champlain canal	111	192
Champlain canal to junction with Erie canal	66	258
Erie canal, from junction to Albany	7	265
Albany to New York	146	411

ST. OURS LOCK DAM.

Construction commenced	1844	
" completed	1849	
Length	$\frac{1}{8}$	mile.
Number of locks	1	
Dimensions of lock	200	feet by 45 feet.
Total rise of lockage	5	"
Depth of water on sills	7	feet at low water.
Length of dam in eastern channel	300	"
Length of dam in western channel	690	"

At St. Ours, 14 miles from Sorel, the River Richelieu is divided by a small island into two channels. The St. Ours lock is in the eastern channel.

There is a navigable depth in the Richelieu of 7 feet between St. Ours lock and Chambly basin, a distance of 32 miles.

CHAMBLY CANAL.

Construction commenced	1831		
" completed	1843		
Length of canal	12	miles.	
Number of locks	9		
Dimensions of locks:—			
Guard lock, No. 1 at St. Johns	122	feet.	
Lift " 2	124	"	From $22\frac{1}{2}$ to 24 feet wide.
" " 3, 4, 5, 6	118	"	
" " 7, 8, 9 combined	125	"	
Total rise or lockage	74	"	
Depth of water on sills	7	"	
Breadth of canal at bottom	36	"	
Breadth of canal at surface of water	60	"	

This canal succeeds the 32 miles of navigable water between St. Ours lock and Chambly basin. The canal overcomes the rapids between Chambly and St. Johns.

TRENT CANAL.

The term 'Trent canal' is applied to a series of water stretches, which do not, however, form a connected system of navigation, and which, in their present condition, are efficient only for local use. By various works this local use has been extended, and by others, now in progress and contemplation, this will become a through route between Lake Ontario and Lake Huron.

The series is composed of a chain of lakes and rivers, extending from Trenton, at the mouth of the River Trent, on the Bay of Quinté, Lake Ontario, to Lake Huron.

Many years ago the utilizing of these waters for the purpose of through water communication between Lake Huron and Lake Ontario was projected.

The course, as originally contemplated and modified, is as follows:—

Through the River Trent, Rice lake, the River Otonabee and Lakes Clear, Stony, Lovesick, Deer, Buckhorn, Chemong, Pigeon, Sturgeon and Cameron to Lake Balsam, the summit water, about 165 miles from Trenton; from Lake Balsam by a canal and the River Talbot to Lake Simcoe; thence by the River Severn to Georgian bay, Lake Huron; the total distance being about 200 miles, of which only about 15 or 20 miles will be actual canal.

The full execution of the scheme, commenced by the Imperial Government in 1837, was deferred. By certain works, however, below specified, sections of these

waters have been made practicable for navigation, and the whole scheme is now being carried out. A branch of the main route, extending from Sturgeon lake south, affords communication with the town of Lindsay, and, through Lake Scugog to Port Perry, a distance of 190 miles from Trenton.

The following table gives the distance of navigable and unnavigable reaches:—

From Trenton, Bay of Quinté to Nine Mile rapids ..	—	9
Nine Mile rapids to Percy landing..	19½	—
Percy landing to Heeley's Falls dam..	—	14½
Heeley's Falls dam to Peterborough..	51¾	—
Peterborough to Lakefield..	—	9½
Lakefield to a point across Balsam lake..	61	—
	132¼	33
Total distance, Bay of Quinté to a point across Balsam lake..		165¼
From Sturgeon point on Sturgeon lake, 48¾ miles from Lakefield, the branch through the town of Lindsay to Port Perry at the head of Lake Scugog..		27

The works by which the Trent navigation has been improved comprise canals, with locks and bridges, at Young's point, Burleigh rapids, Lovesick, Buckhorn rapids, Bobcaygeon, Fenelon falls and Rosedale; also dams at Lakefield, Young's point, Burleigh falls, Lovesick, Buckhorn, Bobcaygeon and Fenelon falls. By these works there is afforded communication between Lakefield, 9½ miles from Peterborough, and Balsam lake, the headwaters of the system; opening up a total of about 160 miles of direct and lateral navigation.

At Lakefield, 9½ miles from Peterborough, the dam at the head of the Nine Mile rapids of the River Otonabee maintains navigation on Lake Katchewannoe up to Young's point.

At Young's point, 5 miles from Lakefield, the dam between Lake Katchemannoe and Clear lake controls the water level through Clear and Stony lakes up to the foot of the Burleigh canal.

At Burleigh rapids, 10 miles from Young's point, a canal, about 2¼ miles in length, passes the Burleigh and Lovesick rapids, and gives communication between Stony lake and Deer bay.

At Buckhorn rapids, 7 miles from Burleigh rapids, there is a canal about one-fourth of a mile long.

At Bobcaygeon, 15¾ miles from Buckhorn rapids, a dam, 553 feet long, controls the water level to Fenelon falls.

At Fenelon falls, 15 miles from Bobcaygeon, a canal about one-third of a mile in length connects Sturgeon lake with Cameron lake.

The following is a list of the locks, with their dimensions:—

1	Lock at	Rosedale (maintained by the Ontario government), 100′ x 30′ x 4′ 6′ to 6′ 6″ depth water on mitre sill.			
2	Locks at	Fenelon.... ..	134′ x 33′ x 5′ 0″ to	7′ 6″	depth water on mitre sill.
1	"	Lindsay	134′ x 33′ x 5′ 0″ to	7′ 6″	" "
1	"	Bobcaygeon ..	134′ x 33′ x 5′ 8″ to	7′ 0″	" "
1	"	Buckhorn	134′ x 33′ x 5′ 0″ to	9′ 0″	" "
1	"	Lovesick	134′ x 33′ x 5′ 0″ to	9′ 4″	" "
2	"	Burleigh	134′ x 33′ x 6′ 0″ to	8′ 0″	" "
1	"	Young's point.	134′ x 33′ x 5′ 0″ to	14′ 0″	" "
1	"	Peterborough .	134′ x 33′ x 5′ 0″ to	10′ 0″	" "
1	"	Hastings	134′ x 33′ x 7′ 0″ to	10′ 6″	" "
1	"	Chisholms .. .	134′ x 33′ x 5′ 0″ to	8′ 6″	" "

ST. PETER'S CANAL, CAPE BRETON.

Construction commenced	1854
" completed	1869
Enlargement begun	1875
" completed	1881
Length of canal	About 2,400 feet.
Breadth at water line	50 feet.
Lock	One tidal lock, 4 pairs of gates.
Dimensions	200 feet by 48 feet.
Depth of water on sills	18 feet at lowest water.
Depth through canal	19 "
Extreme rise and fall of tide in St. Peter's bay	4 "

This canal connects St. Peter's bay on the northern side of Cape Breton, Nova Scotia, with the Bras d'Or lakes. It crosses an isthmus half a mile in width, and gives access from the Atlantic.

BEAUHARNOIS CANAL.

Construction begun	1842
" completed	1845
Length of canal	12 statute miles.
Number of locks	9
Dimensions of locks	200 feet by 45 feet.
Total rise or lockage	82½ "
Depth of water on sills	9 "
Breadth of canal at bottom	80 "
Breadth of canal at water surface	120 "

As the new Soulanges canal is now opened for navigation, the Beauharnois canal is abandoned for navigation purposes.

EARLIER CANALS.

A system of three canals preceded the Bearharnois. These were:—

COTEAU DU LAC CANAL.

Construction commenced	1779
" completed	1780

SPLIT ROCK CANAL.

Construction commenced	1779
" completed	1780

CASCADE POINT CANAL.

Construction commenced	1782
" completed	1783

The locks were 20 x 6 feet, and provided for a draft of 2 feet. In 1814 the work of widening them to 12 feet was begun, and finished in 1817.

Two canals were also constructed off Burlington Bay, Ontario. They were:—

BURLINGTON BAY CANAL.

Construction	commenced	1825
"	completed	1832

DESJARDINS CANAL.

Construction	commenced	1826
"	completed	1837

Neither of these canals required locks. They have for many years been abandoned. The depth of water provided in the first instance was 7½ feet.

ST. LAWRENCE NAVIGATION TABLE OF DISTANCES.

FROM STRAITS OF BELLE-ILE TO PORT ARTHUR, AT HEAD OF LAKE SUPERIOR BY WATER.

From	To	Sections of Navigation.	Statute Miles. Intermediate.	Total to Straits of Belle-Ile.
Straits of Belle-Ile	Cape Whittle	Gulf of St. Lawrence	240	240
Cape Whittle	West Point, Anticosti	"	201	441
West Point, Anticosti	Father Point	River St Lawrence	202	643
Father Point	Rimouski	"	6	649
Rimouski	Bic	"	12	661
Bic	Isle Verte	"	39	700
Isle-Verte (opp. Saguenay)	Quebec	"	126	826
Quebec	Three Rivers	" to tide-water	74	900
Three Rivers	Montreal	"	86	986
Montreal	Lachine	Lachine Canal	8½	994½
Lachine	Cascade Point	Lake St. Louis	16	1,009½
Cascade Point	Coteau Landing	Soulanges Canal	14	1,021
Coteau Landing	Cornwall	Lake St. Louis	30	1,053½
Cornwall	Dickinson's Landing	Cornwall Canal	11½	1,065¼
Dickinson's Landing	Farran's Point	River St. Lawrence	5	1,070¼
Farran Point	Upper end of Croyle's Island	Farran's Point	¾	1,071
Upper end Croyle's Island	Williamsburg or Morrisburg	River St. Lawrence	10½	1,081½
Williamsburg	Rapide Plat	Rapide Plat Canal	4	1,085½
Rapide Plat	Point Iroquois Village	River St. Lawrence	4½	1,090
Point Iroquois Village	Upper end Presqu'Ile	Point Iroquois Canal	3	1,093
Presqu-Ile	Point Cardinal, Edwardsburg	Junction Canal	2⅝	1,095⅝
Point Cardinal	Head of Galops Rapids	Galops Canal	2	1,097⅝
Galops Rapids	Prescott	River St. Lawrence	7⅜	1,105
Prescott	Kingston	"	59	1,164
Kingston	Port Dalhousie	Lake Ontario	170	1,334
Port Dalhousie	Port Colborne	Welland Canal	26¾	1,360¾
Port Colborne	Amherstburg	Lake Erie	232	1,592⅝
Amherstburg	Windsor	River Detroit	18	1,610¾
Windsor	Foot of St. Mary's Island	Lake St. Clair	25	1,635¾
Foot of St. Mary's Island	Sarnia	River St. Clair	33	1,668¾
Sarnia	Foot of St. Joseph Island	Lake Huron	270	1,938¾
Foot of St. Joseph's Island	Foot of Sault Ste. Marie	River Ste. Marie	47	1,985¾
Sault Ste. Marie	Head of Sault Ste. Marie	Sault Ste. Marie Canal	1	1,986¾
Head of Sault Ste. Marie	Point aux Pins	River Ste. Marie	7	1,993¾
Pointe aux Pins	Port Arthur	Lake Superior	266	2,259¾
Port Arthur to Lake Shebandowan			45	
Lake Shebandowan to North-west Angle			312	
North-west Angle to Winnipeg			95	
Pointe aux Pins to Duluth			390	

Of the 2,259¾ miles from the Straits of Belle-Ile to the head of Lake Superior, 73½ miles are artificial navigation, and 2,188¾ open navigation.

Straits of Belle-Ile to Liverpool, 1,942 geographical or 2,234 statute miles.

The total fall from Lake Superior to tide-water is about 600 feet.

The steamboat voyage from Collingwood to Port Arthur is 532 miles.

" " Depot Harbour to Port Arthur is 510 miles; to Duluth is 644 miles; to Chicago 525 miles, and to Milwaukee, 442 miles.

SESSIONAL PAPER No. 20a

TABLE of distances of Stations between the cities of Ottawa and Kingston.

No. of Station.	Name of Station.	Distances from Ottawa.	Locks. No.	Locks. Lift at Low water.	Dams. No.	Dams. Length.	Dams. Height.	Length of Artificial Canal at each Station in miles.
		Miles.		Rise. Ft. In.		Feet.	Feet.	
1	Ottawa	0	8	82 0	3	230 1,320 1,616	13 33 14	
2	Hartwell's	4¼	2	22 0	..	100	28	4 00
3	Hogsback	5⅕	2	13 6	1	320	60	
4	Black Rapids	9½	1	10 0	1	300	12	0·13
5	Long Island	14⅝	3	27 0	3	850	68	0 13
6	Burritt's	40¾	1	10 6	1	240	14	1·50
7	Nicholson	43⅜	2	15 2	1	500	9	0·50
8	Clowes	44½	1	10 6	1	481	16	0 05
9	Merrickville	46¾	3	25 0	1	150	6	0·33
10	Maitland	55	1	4 9	1	270	8	0 13
11	Edmunds	59½	1	10 10	1	343	8	0·06
12	Old Slys	60½	2	15 6	1	250	20	0·25
13	Smith's Falls	61½	4	33 9	2	600	24	0·13
14	First Rapids or Poonamalie	64	1	7 9	1	260	5	1·25
15	Narrows	83¼	1	4 0	1	600	9	0·06
	Total rise at low water			292 3				
				Fall				
16	Isthmus	87½	1	4 0				1·25
17	Chaffey	92	1	12 6				0·13
18	Davis	94½	1	9 0	1	300	15	0·06
19	Jones' Falls	97¼	4	60 0	1	300	60	0·25
20	Brewer's Upper Mills	108¼	2	19 0	1	200	20	1 75
21	" Lower Mills	110	1	14 2	1	200	12	4·25
22	Kingston Mills	120¼	4	46 8	1	6,042	14	0 25
23	Kingston	126¼						
	Total fall at low water			165 4				
	Total		47		24	15,472		16·46

INDEX.

CANAL STATISTICS FOR SEASON OF NAVIGATION, 1910.