DEPARTMENT OF RAILWAYS AND CANALS

## CANAL STATISTICS

FOR THE

## SEASON OF NAVIGATION

### 1909

PRINTED BY ORDER OF FARLIAMENT



OTTAWA PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY 1910

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., 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, 1909.

GEO. P. GRAHAM,

Minister of Railways and Canals.

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

Sts.—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, 1909.

I have the honour to be, Sir,

Your obedient servant,

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

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#### Office of the Conptroller of Statistics, February 7, 1910.

#### 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, 1909.

At the commencement of the season of navigation a new form of ship's report was adopted. This schedule presents the advantages of being considerably shorter than that which had for many years been in use, and of conforming closely with the classification of commodities in force on the railwars of both Canada and the United States.

The traffic of the canals in 1909 amounted to 33,720,748 tons, representing an increase of 16,217,928 tons over 1908, or 92.6 per cent.

Of the total volume of business, 27,976,399 tons were classified as down, or eastbound; while 5,744,349 were entered as up, or westbound. There was for the year an increase of 1,4739,171 tons in the former, and of 1,478,757 from in the latter.

The net increase of 16,217,928 tons for the year 1909 was divided among the various canals as follows :---

	1908.	1909.	Increase.
Sault Ste, Marie. Welland. Sk. Lawrence Chambly Sk. Peter is. Draws. Rikean.	$\begin{array}{c} 12,759,216\\ 1,703,453\\ 2,009,102\\ 503,276\\ 72,015\\ 25,901\\ 258,527\\ 89,640\end{array}$	27,861,245 2,025,951 2,410,629 752,117 79,850 102,291 336,939 91,774	15,102,029 322,498 401,527 248,841 7,835 76,300 78,412 2,134
Trent	81,690	59,952	

The aggregate of business through the canals of Canada during the year 1909 may be better comprehended by a comparison with the results for the preceding nine years. The figures are as follow :—

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Ľ	903	;.																	9,	2	03	.8	17		4.5	
ļ	904																		8.	2	56	.2	36			
ľ	905	έ.																	9.	3	71	.7	44			
l	906	5.																	10.	5	23	.1	85		11	
l	907	١.								 									20.	5	43	.6	39			
l	908	3.																	 17.	51	0.2	.8	20			
1	909	).																	33.	7	20	7	48			

Following is a comprehensive table, showing both the volume and direction of freight traffic for a series of years :--

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z	Down.		2,000, 277 2,000, 277 2,213, 201 2,213, 201 2,130, 102 2,130, 102 2,130, 103 2,130, 103 2,100, 100, 100, 100, 100, 100, 100, 100
NoT	Up.		016 2 142 '9 2022 '9 20 2022 '9 20 2022 '9 20 2022 '9 20 20 2022 '9 20 2022 '9 20 2020
PORTS.	Down.	Tons,	610,0460,1 611,200,1 711,000,1 701,000,000,000,000,000,000,000,000,000,
FROM UNIT TO CANADIAN	Up.	Tons.	110,00 110,00
ed States Tes Ports.	Down.	Tons.	112, 228 229, 2298 220, 2298 220, 2298 220, 2298 220, 2298 220, 2298 240, 2298 240, 2298 241, 240, 240 241, 240, 240, 240 241, 240, 240, 240, 240, 240, 240, 240, 240
FROM UNIT TO UNITED STA	Up.	Tons.	250, 250, 101 100, 100 100, 100, 100 100, 1
NADIAN O TES PORTS,	Ibown.	Tons.	2012 501 2012 501 2012 501 2014 5
FROM CA T UNITWO STA	Up.	Tons.	188, 002 1222, 200 1222, 200 1222, 200 144, 200 140, 200 140, 200 140, 200 140, 200,
NADIAN O N PORTS,	Down.	Tons.	1, 154, 429 (1, 166, 200) 1, 166, 200 1, 166, 200 1, 166, 200 1, 166, 200 1, 166, 201 1, 166, 201 1, 166, 201 1, 166, 201 1, 166, 201 1, 166, 201 1, 200, 201 1, 200, 201 2, 200, 211 2, 200, 200, 200, 200, 200, 200, 200, 2
FROM CA	Up.	Tons.	886, 1770, 11 886, 1770, 11 886, 1870, 11 887, 1890, 11 887, 1990, 11 887, 1990, 11 887, 1990, 11 897, 10 897, 10 807,
Vearse			885 889 889 889 889 889 889 889

" Sault Sto. Mario canal opened in August, 1845.

10-11 EDWARD VII., A. 1911

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

Tumber  $\begin{array}{c} 18,991\\ 17,3602\\ 11,2601\\ 17,3602\\ 12,261\\ 12,261\\ 12,177\\ 12,262\\ 22,579\\ 22,505\\ 22,505\\ 22,505\\ 22,505\\ 22,505\\ 22,507\\ 22,505\\ 22,507\\ 22,505\\ 22,507\\ 22,5$ of Vessels. Up & down 1,442,020 1,245,0181,245,018 1,245,0181,245,018 1,245,018,0181,245,018 1,245,018,0181,245,018,018,018,018,018,00 Down. PONS. ġ, 221, 013 180, 876 244, 176 244, 176 244, 176 244, 176 244, 176 245, 500 265, 500 265, 500 266, 500260, 500 266 FROM UNITED STATES Down. CANADIAN PORTS. 20,778 20 222222 2,191 2,191 2,191 2,233 1,233 1,233 1,235 1,235 1,235 1,235 1,235 518 FROM UNITED STATES UNITED STATES PORTS. Down. 071 255 929 929 1,466 1,172 2,177 22,909 21,874 5,175 5,17 1961 Ω'n. 247,200 247,20 UNITED STATES PORTS. Down. FROM CANADIAN 102,054 108,157 108,157 108,157 109,175 100,100,175 10 Ĉb. Down. CANADIAN PORTS. FROM CANADIAN 1, 201, 229 1, 201, 220 1, 204, 727 1, 204, 727 1, 204, 727 1, 204, 727 1, 204, 727 1, 204, 727 1, 204, 972 1, 20 Up. Years. 

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TOTAL TONS.	Up & Down.	2525, 6951, 610 2525, 6951, 610 2525, 610
	Down.	315, 605 447, 966 447, 966 447, 966 447, 966 447, 966 454, 966 456, 966456, 966 456, 966 456, 966 456, 966456, 966 456, 966 456, 966 456, 966456, 966 456, 966 456, 966456, 966 456, 966 456, 966456, 966 456, 966 456, 966456, 966 456, 966466 456, 966 456, 966466 456, 966466 456, 96646 456, 96646, 96
Tor	0.br	254, 1221 254, 1212 254, 1212, 1212 254, 1212, 1212, 1212, 1212, 1212, 1212, 1212, 121
so Staries	Down.	98, 8410 111, 612 111, 612 111, 612 111, 612 111, 612 112, 612 112
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ED STATES TES PORTS.	Down.	FIL (1687-101 FIL (1687-100) FIL (1687-100) FIL (1687-100) FIL (1687-100) FI
Figosi U'stri To U'strign Stri	Up.	825 821 ° 825 821 ° 826 821 ° 826 922 ° 826 926 ° 826
NADLAN FISS PORTS,	Down.	710,00 70,00 70,000 70,0000 70,0000 70,0000 70,00000000
Fron CA TO UNIVER STM	Up	36, 567 10, 164 10, 164 10, 164 10, 164 10, 164 10, 164 1130, 1730 1130, 1730 1100, 1700, 1700 100, 1700, 1700, 1700, 1700, 1700, 1700, 1700, 1
PORTS.	Down.	17, 989 38, 990 38, 990 38, 990 38, 990 39, 990 18, 390 18, 300 18, 30
FROM CA TO CANADIAN	Uh	16, 265 14, 266 14, 266 10, 257 10, 257 10, 257 10, 257 11, 267 11, 26
YEARS.		1887 1888 1888 1889 1889 1880 1880 1880 1880

#### CANAL STATISTICS

#### SESSIONAL PAPER No. 20a

It will be observed that while 9,996 United States vessels carried 16,459,322 tons through the canals of Canada in 1900, it required 22,507 Canadian vessels to carry 7,811,578 tons. The explanation is found in the fact that the business of American vessels is confined almost wholly to the lakes, where large cargoes prevail, while many caraft of small capacity pass through the canals east of the Welland. The record of trade for the past five years, however, would seem to warrant the conclusion that an increase is steadily taking place in the tonnage of Canadian vessels.

The statement following brings the capital expenditure on the Canals of the Dominion down to March 31, 1909. 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.
	8 cts.	8 ets.	8 ets.
St. Peter's. Lachine Beauharnois. St. Lawrence River and Canals.	648,547 14 2,589,532 85 1,636,690 26 18,442 85	9,570,566 95	648,547 14 12,160,099 80 1,636,690 26 3,433,466 23
Lake St. Louis Lake St. Francis Cornwall. (Farran's Point	1,945,624 73	298,176 11 75,906 71 5,289,052 87 877,090 57	296,176 11 75,906 71 7,234,677 60
Williamsburg Rapid Plat Williamsburg.	1,320,655 54	6,118,927 32 2,158,242 00 10,696 26	28 338 616 02
Ste. Anne's *Carillon and Grenville	134,456 51 63,053 64 382,776 46	1,035,759 12 4,119,039 32	1,170,215 63 4,182,092 96 382,776 46
Saint Ours. Chambly. Murray.	4,083,885 21 121,537 65 637,214 66 1,248,946 71	13,307 12	4,080,885 21 121,537 65 650,521 68 1,248,946 71
Saut Ste. Marie. Soulanges	6,57,5,501 09 489,599 23 4,821,723 47 6,973,113 38		4,821,723 47 6,973,113 38
Total	41,685,129 41	53,626,579 62	94,311,859 03

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.

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#### CANAL STATISTICS FOR SEASON OF NAVIGATION, 1909.

#### 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-eight years is as follows:—

QUANTITY PASSED DOWN TO MO	ONTREAL.	To Ports in Ontario.	Quantity from U.S. Ports to U.S. Ports.
	Tons.	Tons.	Tons.
1889	180.694		63.881
1992	186 814	10.650	121 876
1884	142 194	12 153	104 537
1995	96,569	11 909	117 346
1990	202.010	9.991	151 551
1007	195.021	11 626	124 869
1999	100,258	95 599	169 664
1990	967 769	10.075	213 766
1990	288 513	16 899	945 939
1901	(905.500	6 805	902 710
1899	961 054	8 949	201,540
1902	501 506	95,555	202,019
1904	979 651	10,000	202,070
1905	221 401	22.090	132 822
1900	461 040	79 996	160,979
1000	500.051	29.007	157 756
100/	510 529	21 970	144 619
1000	220.740	40.107	C2 011
1000	00.6,140	90,157	84 589
1001	151 500	19 799	62 270
1002	101,000	99.787	\$1 164
1002	200,210	90,009	111 999
1004	108 946	93 711	102 523
1005	941 421	49.003	199.970
1008	401 025	99 951	176 119
1007	695 579	19.629	162 995
1002	256 141	38 149	195 179
1900	650 749	40.929	190 597
1000	0.00,132	10,200	120,001

During the last decade the quantity of agricultural products as above, passed down the Welland and St. Lawrence Canals to Montreal, has increased from 244,661 tons in 1900 to 652,742 tons in 1909, and the quantity passed down the Welland Canal from United States ports to United States, has increased from 84,589 to 129,587 tons the same years.

																										Т	0	ns.		
For	1897.																								-	22	8.	6	1	i
	1898.									 															5	29	3.	3	9	i
	1899.																								5	20	9,	1	7	ð
	1900.																								5	22	9	6	2	1
	1901.								 																2	22	7,	7	0	ð
	1902.								 	 									 						5	26	3.	8	6	1
	1903.								 					-	-					-					2	25	3.	9	5	g
	1904.					-	-		 	 						-		 							1	5	4	6	2	
	1905.																	 							1	4	8	3	7	ĩ
	1906.									 				-	-		-								50	8	6,	9	6	3
	1907.							-	 		-				-	-				-					5.5	8	3,	7	3	5
	1908.								 					-		-	-					-			2	28	5	2	6	2
	1909.															-														

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

																							. 73	on	8.		
For	1897.																						60	)4.	2	00	
	1898.																						57	5.	0	91	i
	1899.																						37	2	2	91	
	1900.																						29	15.	9:	28	
	1901.						-																20	13,	3	16	
	1902.																						24	2,	2	2	1
	1903.																						40	ю,	0	57	l
	1904.							-	-														22	20,	0	76	
	1905.							-															37	5,	6:	3(	
	1906.																						44	,9,	6	72	1
	1907.																			-			68	14,	6	97	l
	1908.															 				-			77	6,	3	74	
	1909.																						65	12,	7.	45	

Comparative shipments of grain by the St. Lawrence route, and rail and water via the State of New York, 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 :---

or	1908 1909																		Tons. 756,141 652,742
	Showing	a	de	cı	rea	ise	0	đ.								-		-	103,399

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

For	1908			Tons. 285,262
	1909		••••••••••••••••••••••••••••••	•••••
	Showing a	decrease	of	

#### 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.
1895,	123 cargoes,	with an aggregate	quantity	of	136,617
1896,	196		*1		227,912
1897,	180	P			229,265
1898,	166	12			224,021
1899,	162	13	4.7		221,306
1900,	325	18			183,200
1901,	112				132,558
1902,	131	19			175,514
1903,	170				218,840
1904,	115				174,121
1905,	167	н.			239,418
1906,	205	9	17		344,605
1907,	255				427,813
1908,	355				598,941
1909.					550,276

In the United States vessels there were in-

1894,	84	cargoes, with an	aggregate quantity	of	106,236
1895,	56				73,987
1896,	158				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	~				272 291
1000,					212,201

One hundred and sixty-two Canadian and 49 American vessels took cargoes of 33,733 toos through to Monreal intact in 1908; s7 Canadian and 9 American of 135,582 in 1907; 74 Canadian and 10 American of 108,754 toos in 1906; 96 Canadian and 18 American of 16,095 toos in 1904; 55 Canadian and 18 American of 99,582 toos in 1903; 19 Canadian and 17 American of 34,804 toos in 1909; 23 Canadian and 24 American of 18,095 toos in 1905; 35 Canadian and 25 American of 23,033 toos in 1901; 15 of 7,924 toos in 1900; 24 558 toos in 1599, 7 of 2,426 in 1598, 7 of 2,324 in 1897, 30 (1,157 in 1896, 4 of 1,344 toos in 1905; 25 Canagots of 80 toos in 1849, noone in 1833; 2 in 18892 of 924 toos, and 3 in 1891 of 1,444 toos. Three vessels lightened a portion of their cargoes in 1900, 9 in 1000, 11 in 1899, 25 in 1889, 11 in 1897, 16 in 1896, 6 in 1895, 518 199, 25 in 1889, 11 in 1897, 31 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.
Wheat	Bush. 679,840 104,027	Bush. 1,009,474 110,629 29,118 2,163	Bush, 1,428,300 112,036 30,824 39,040	Bush. 1,106,244 23,945 56,544 49,628	Bush. 2,686,963  22,216 8,202

#### WELLAND CANAL.

The total quantity of freight passed on the Welland Canal during the season of 1909 was 2.025.951 tons; of this quantity 49.911 tons was way or local freight.

There were 1,383,862 tons of freight passed eastward, and 642,089 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 1909 was 1,976,040.

Of this quantity 1,335,033 tons were east bound and 641,017 west bound freight. Of the east bound through freight, Canadian vessels carried 926,901 tons and United States vessels carried 408,122 tons; and of the west bound through freight Canadian vessels carried 320,793 tons and United States vessels carried 320,224 tons, or a total of 1,247,694 tons for Canadian and 728,316 tons for American vessels.

#### ST. LAWRENCE CANALS

The total quantity of freight passed through these canals during 1909 was 2,410,629 tons; of this quantity 1,564,584 tons passed eastward and 846,045 passed westward.

#### East and West bound Through Freight.

The total quantity of through freight was 1,727,564 tons; of this quantity 1,209,979 tons were east bound and 517,585 tons were west bound.

#### Way Freight.

Of the total quantity of (way) or local freight 354,750 tons were east bound and 328,315 tons west bound freight.

THROUGH TRAFFIC BETWEEN NONTREAL 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.
1895	., 266,659	10,555
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

THROUGH FREIGHT FROM UNITED STATES PORTS TO UNITED STATES PORTS.

	Eastward, Tons.	Westward, Tons.	Total. Tons.
1895	255,259	214,520	469,779
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

The total quantity of freight pass through the Welland Canal from United States ports to United States ports shows a decrease of 3,235 tons as compared with the previous year; and a decrease of 24,380 tons as campared with 1895.

The following statement shows the aggregate number of vessels and the total quantity of freight passed through the Welland Cana', and the quantity passed between United States ports during the years 1867 to 1909 inclusive.

Fiscal Year.	Aggregate number of Vessels.	Total quantity transported on the Welland Canal.	Quantity passed from United States ports to United States ports.
	No.	Tons.	Tons.
1807. 1868. 1869. 1870. 1871	5,405 6,157 6,069 7,356 7,729	$\begin{array}{c} 933,260\\ 1,161,821\\ 1,231,903\\ 1,311,956\\ 1,478,122 \end{array}$	458,386 641,711 688,700 747,567 772,756
	0.00B	1 000 104	000.000
1872	6,063	1,333,104	606,627
1074	5,425	1,300,404	748 557
1975	1 919	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	107,079
1880	2,138	184,928	101.472
1880	9,369	777 918	204, 210
1888	2 617	878 800	134 753
1889	2.975	1.085.273	563,584
1890	2.852	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	1 487,039
1899	2,202	189,110	300,329 910 500
1900	2,000	620,200	274 019
1000	1.568	665 387	269.029
1908.	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

The total quantity of freight passed through the several divisions of the Canadian Canal system during the season of 1909 is as follows :

	Farm Stock.	Forest Produce of Wood.	Manufac- tures.	Produce of Mines.	Agricultural Products.	Total.
Welland. St. Lawrence Chambly Ottawa Rideau St. Peters Murray Trent Valley Sault Ste. Marie	Tons. 1,129 12,877 430 3,735 1,730 3,047 690 189 474	Tons. 186,614 569,157 599,330 2323,925 26,727 8,423 655 55,086 71,129	Tons. 506,489 472,656 9,560 64,153 42,642 7,626 50,035 1,880 710,360	Tons. 410,982 642,209 122,835 31,305 17,036 45,140 59,083 1,832 23,969,481	Tons. 920,737 773,730 19,962 5,721 3,639 15,614 828 965 3,109,801	Tons. 2,025,951 2,410,629 752,117 336,939 91,774 79,850 102,291 59,952 27,861,245

The total quantity of freight moved on the Welland Canal was 2,025,951 tons, of which 920,737 tons were agricultural products.

On the St. Lawrence canals the total quantity of freight moved was 2,410,629 tons, of which 773,730 were agricultural products, and 472,656 tons were manufactures.

On the Ottawa canals the total quantity of freight moved was 336,939 tons; of this quantity 232,035 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 1908 and 1909.

	Traffic fo	or 1909.	Total tra	affic for	Increase.	Decrease.
_	United States canal.	Canadian canal.	Season 1909.	Season 1908.	Amount.	Amount.
Vessels	12,803 \$,525 28,939,463 30,132,574 27,736 1,960,753 6,150,549 4,580,833 38,438,716 17,990,356 363,459 449,977 118,889 18,886,499 517,654,000 1,784 599,564	6,331 5,046 17,839,674 27,861,245 32,810 361,918 2,435,781 2,522,700 74,401,000 29,503,240 29,503,240 29,503,240 29,503,240 20,433 201,114 8,323 21,156,915 34,399,300	$\begin{array}{c} 19,134\\ 13,571\\ 46,779,137\\ 57,9936,619\\ 60,546\\ 1,422,671\\ 8,586,821\\ 7,103,533\\ 112,838,716\\ 47,493,636\\ 572,892\\ 651,091\\ 127,212\\ 40,023,414\\ 552,003,540\\ 1,734\\ 1,131,586\\ 1,784\\ 1,131,586\\ \end{array}$	$\begin{array}{c} 15,184\\ 10,685\\ 31,126,386\\ 1,362,485\\ 8,545,923\\ 8,545,923\\ 8,545,923\\ 8,545,923\\ 1,366,88,364\\ 43,452,705\\ 3,066,179\\ 5,49,254\\ 101,329\\ 24,637,001\\ 437,165,385\\ 11,589\\ 823,547\end{array}$	$\begin{array}{c} 3,950\\ 2,886\\ 15,652,751\\ 16,577,106\\ 60,236\\ 40,398\\ 1,488,883\\ 6,140,782\\ 4,040,931\\ 204,713\\ 101,837\\ 25,883\\ 15,286,413\\ 94,387,945\\ 307,989\end{array}$	9,80

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

1889	234	days	1900	238	days
1890	228	۰ĩ (	1901	230	46
1891	225	44	1902	256	44
1892	233	66	1903	249	4.6
1893	219	66	1904	223	66
1894	234	66	1905	245	66
1895	231	66	1906	249	64
1896	232	4.6	1907	233	64
1897	234	66	1908	231	54
1898	241	66	1909	236	
1899	231	66			

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 -4
1900	238 "	1908	235 "
1901	246 "	1909	240 "
1902	264 "	-	

The average number of vessels passing per day through the two canals for the season of 1909 was over eighty-one.

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

	VRGETABLE FOOD.								
Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles. †		
1869*	Tons. 45,674	Tons. 313,825	Tons. 120,599	Tons. 20,951	Tons.	Tons. 904	Tons. 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		
1010	15,501	200,000	100,120	10.472	0,000		9,100		
18/0	10,118	201,906	144,301	18,400	24,490	1,404	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	$12_{9}679$	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		
x907	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		

\* Fiscal.

† Apples, meal of all kinds, pease, potatoes.

through the Welland Canal, during a period of thirty-nine years, ended Dec. 34, 1909.

HEAVY GOODS.										
Total.	Railway Iron.	Other Iron.	.3alt.	Iron and Salt having paid full tolls on St. Lawrence Canals.	Coal.	Ores.	Total.			
Pons. 503,860	Tons. 46,806	Tons. 16,924	Tons. 91,575	Tons. 37,153	Tons. 103,126	Tons. 58,781	Tons. 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		758	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	235,478			
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			

B.—TABLE showing the Total Way and Through Tonnage of the undermentioned Articles cleared downward on the Welland Canal during a series of thirty-nine years, ended December 31, 1909.

	171	1171	0	Dealers	0	D	Other	Track
x ear.	r lour.	wheat.	Corn.	Dariey.	Oats.	nye.	Articles.	Total.
	Tone	Tons	Tone	Tone	Tone	Tone	Tons	Tone
1860	14 110	\$10,090	110.5/1	3 920	TORS	680	1 5.1	170 889
1979	96 649	921.056	054 524	602	7 504	64	9 800	594 880
1072	20,040	245 790	180.049	612	1 199	2	2,000	562 812
1010	94.017	406 127	100,042	010	5 050	5	9 201	630.022
10/4	12 020	949 555	102 177	011	9 289	500	1 201	274.069
1976	15 735	194 550 1	144 501	1 110	24.496	1.151	9.019	381 807
1077	12 599	9.18 80.1	169 185	10.916	9 \$10	2.405	1 839	448 981
1878	8 854	188 106	185 931	1 217	3.688	4,100	2,100	389.296
1879	10.588	271 545	114 976	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	587		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	210,735	114,938	1.711	12,050		12,149	375,543
1888	16,973	150,833	194,886	355	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
1809	11,625	197,732	204,004	2,424	23,541	923	18,440	458,689
1990	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	485,565	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	\$3	30,206	898,264

#### VEGETABLE FOOD.

\* Fiscal. + Apples, meal all kinds, pease, potatoes.

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D.—STATEMENT showing the Quantity of Through Freight passed Dows the Welland Canal in Canadian and United States Vessels entering the Canal at Port Colborne, during the season of Navigation in 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908 and 1909.

		CANADIAN	VE:	SSELS.		AMERICAS	Ves	SELS.	Т	OTAL.
ARTICLES.		Steam.		Sail.	2	Steam.		Sail.	Ste	am and Sail.
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	216	126,398	104	59,532	354	355,702	195	108,720	869	650,352
1898.	_	Tons.	-	Tons.	-	Tons.		Tons.	_	Tons.
Wheat Corn Barley Oats Pease. Rye Coal.		95,567 56,538 260 3,564 575		36,137 30,455 1,480 1,916		54,934 284,059 9,465 17,329 45 9,135 759		18,355 66,761 2,821 1,948 2,620		205,013 437,813 12,286 17,329 305 16,127 5,870
Miscellaneous merchandise Shingles, woodenware, &c Sawed lumber Ft. B.M		19,385 2 4,910,669		4,104 9 1,641,783	1	47,271 6,220,972		8,758 4,484,283	-4	79,518 11 7,257,707
Firewood		249		1,100,821				000,410		249
	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. Corn. Barley. Oats.		91,901 . 28,015 1,537		80,928 18,905		16,250 138,834 2,424 21,646		7,244 18,250		196,323 204,004 2,424 23,203
rease. Rye Coal. Miscellaneous merchandise Shingles, woodenware, &c. Sawed lumber F. B.M Square timber Cub. ft. Firewood		435 25,203 485 2,077,748 322,138		6,736 18,651 916 772,739 585,780 9	1	923 -49,522 4,855,338 20,802	1	3,398 1,567 100 9,949,079 328,806	3	923 10,569 94,943 1,501 7,654,904 1,257,526 9
	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 Com. Barley. Oats. Pease. Rye. Coal. Miscellaneous merchandise. Shingles, woodenware, &c.		67,694 39,597 115 1,389 723 53,649 1,078		43,157 31,248 637 31,536		23,066 78,701 2,402 39,706 4 2,149 433 43,344		2,130 13,963 1,047 407 559 3,564		136,047 163,509 3,449 40,113 119 3,538 2,352 132,093 1,078
Sawed lumber Ft. B.M. Square timber Cub. ft. Firewood Cords. Staves No,		6,847,279 439,827 126 1,000		5,344,258 355,951 255		4,984,483 11,583		8,770,405 198,420	4	5,946,425 1,005,781 381 1,000

D.---STATEMENT showing the Quantity of Through Freight passed Dows the Welland Canal in Canadian and United States Vessels, & ---Continued.

		Canadian	VES	BELS.	U	GTED STA	tes V	essels.	3	OTAL.
ARTICLES.		Steam.		Sail.	ž	Steam.		Sail.	a	šteam 1d Sail.
	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 Corn		57,641 7,350 944		58,973 4,689		$31,955 \\ 55,717 \\ 7,119 \\ 27,197$		1,241		$149,810 \\ 67,756 \\ 7,119 \\ 28,141$
Rye. Coal. Miscellaneous merchandise . Shingles, woodenware, &c.		2,961 1,960 71,300 18		362 32,312		357 12,874		7,469	`	2,961 2,679 123,955 18
Sawed lumber. Ft. B.M. Square timber. Cub. ft. Firewood Cords. Staves No.		6,533,423 362,441 165		4,060,251 204,682 264		1,089,806 9,384		3,092,940 149,531		726,038 429
	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		82,954 148 1,200		85,973 1,388 43		52,889 66,111 7,418 9,963				221,816 67,647 7,418 11,206
Pease. Rye. Coal. Miscellaneous merchandise. Shingles, woodenware, &c.		3,808 3,977 33,111 47		25,732 8,723 28 9 956 197		271 13,497 38,351 4		8,332 1,594		4,079 51,538 81,779 79
Square timber Cub. ft. FirewoodCords. StavesNo.		370,718 56		557,689 40 14,000				115,000		1,043,407 96 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	1	Tons.		Tons,	-	Tons.		Tons.		Tons.
Wheat Corn. Barley. Oate. Pease. Barley. Barley.		149,378 21,356 2,580 306 63		38,473 4,682 667 1,335		60,514 174,588 11,409 6,112 22 4,904		6,305 10,132		254,670 210,758 14,656 7,753 85 4 904
Coal Miscellaneous merchandise Shingles, woodenware, &c. Sawad humber Ft B M		389 39,563		12,991 3,367 54 1.625.855	,	8,133 41,584		8,496 2,000	4	30,009 86,514 54 7.072,736
Square lumber Cub. ft. Firewood Cords. Staves No.		572,000		660,000 210 641,000		9		84,200		1,316,200 219 641,000

D.--STATEVENT showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.-Continued.

		CANADIAN	i Ves	ISELS.	U:	NITED STA	TES	essels.	1	OTAL.
ARTICLES.	8	steam.	(	Sail.	5	steam.		Sail.	i ai	Steam nd Sail.
	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.
Wheat. Coro. Barley. Oats. Pease.		116,794 12,768 2,619		33,302 7,814 824		14,269 95,362 23,728 16,261 3				164,365 116,444 27,171 16,261 3
Rye Coal Miscellaneous merchandise		1,925 34,907 29,567		7,187		$17,133 \\ 1,925 \\ 60,548$		7,668		33,913 36,832 90,115
Sawed lumber Ft. B.M. Square timber Cub. ft. Firewood Corps.	1	5,077,382 944,508		854,811 744,000	3	2,754,541 717		9,572,655 149,000	5	8,259,389 1,837,508 717
Staves		634,000							-	634,000
	No.	Tonnage.	No.	Tonnage.	No.	Topnage.	No.	Tonnage.	No.	Tonnage.
	252	182,373	91	48,692	319	286,656	64	29,120	726	546,841
1905.		Tons.		Tons.		Tons.		Tons.		Tous.
Wheat . Corn		188,706 6,385 6,870 8,225		$18,575 \\ 6,636 \\ 1,451 \\ 2.570$		28,757 163,374 47,111 21,535 76		2,512 4,526 3,742		238,550 180,921 55,432 36,072 76
Rye Coal. Iron ore Merchaudise.		18,756 14,358 29,375		35,324 8,023 7,485		1,711 28,330 74,975		8,678 3,126		1,711 91,088 22,381 114,961
Sawed hunberFt. B.M. Square timberCub. ft. FirewoodCords.		2,867,147 355,000		951,524 183,000	3	2,325 8,290,831 900	1	2,479,698	5	2,323 1,589,200 538,000 900
	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,		Fons.		Tons,	1	Tons.		Tons.		foi.s.
Wheat		250,493 8,177 8,546		34,355 5,046		35,578 202,250 17,854		1,378		320,436 49,306 31,446 49,306
Pease. Rye Coal		30,455		10,005 3 47,242		11,325 11 1,406 24,190		9,356		11 1,411 111,243
Iron ore		5,862 35,383 16		7,009		110,263		50		5,862 152,705 904
Sawed lumber		3,471,514 375,000 110		235,624 200,000 18	23	1,093 300,000	10	0,769,755	40	188,089 575,000 1,221 300,000

D.-STATEMENT showing the Quantity of Though Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.-Concluded.

		Canadian	VES	SELN.	U	NITED STA	TES 1	Vessels.	1	l'otal.
ARTICLES.	2	Steam.		Sail.	5	Steam.		Sail.	i ai	Steam nd Sail.
	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.		Tens.		Tons.		Tons.		Tons.
Wheat Corn Barley Oats		294,298 6,713 8,726 49,689		50,808 514 468 16,647		130,818 259,895 4,046 7,033		4,429 4,571		480,303 271,693 13,240 73,369
Pease Rye Coal Iron ore		31,506 12,040		47,373 8,950		25 2,270 50,183		14,493		$25 \\ 2,270 \\ 143,555 \\ 20,990$
Merchandise. Shingles, woodenware, &c Sawed lumber		21,545 558,090		9,436 323,664	1	5,231 2,222 4,395,124		6,235	2	42,447 2,222 5,596,570 881,090
Fnewood, Cords.		<u></u>			<u> </u>	660				
	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.		Tons		Tons.		Tons.
Wheat		500,151 2,405 19,775 30,091		39,001 1,133 643		183,101 124,997 10,264 2,689		3,498		730,751 127,402 31,172 33,423 40
Rye. Coal. Merchandise. Firewood.		742 39,733 26,815		42,656 14,783 70		5,925 57,448 14,410 1,173		8,344 13,686		6,667 148,181 69,694 1,243
Sawed lumber Ft. B.M. Square timber Cub. ft.		221,300		313,000		7,572,070		6,578,545	2	1,150,615 534,300
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	555	486,406	136	71,084	323	324,576	26	17,317	1040	899,333
1909.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn. Barley Oats. Pease.		415,208 6,694 17,943 79,392		34,903 360 4,743		133,172 134,208 4,848 63				583,283 140,902 23,151 75,135 63
Coal. Merchandise. Sawed lumber. Ft. B.M Square timber. Cub. ft.		160,475 52,994 3,450		53,681 14,782 7,840		21,097 12,232 31,643 125		630 16,498 10,214 1,475	l >	235,883 96,506 41,857 12,890

#### 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 Vessel's during the Season of Navigation in 1909 is as follows:---

Summary.	Tons.	Tons.
In Canadian steams vessels	302,704 18,089	
Total quantity in Canadian vessels		320,793
In United States steam vessels	312,276 7,948	
Total in United States vessels		320,224
Grand total freight passed Up the Welland Canal in Canadian and United States vessels.		641,017

#### STATEMENT of the Quantity of Through Freight passed Up and Down the Welland Canal during the Season of Navigation in 1909.

Summary.	Tons.	Tons.
In Canadian steam vessels up	$302,704 \\ 802,515$	
Total in Canadian steam vessels.		1,105,219
In Canadian sail vessels up	$18,089 \\ 124,386$	
Total in Canadian sail vessels		142,475
Total quantity in Canadian vessels		1,247,694
In United States steam vessels up	$312,276 \\ 379,305$	
Total in United States steam vessels		691,581
In United States sail vessels up	$7.948 \\ 28,817$	
Total in United States sail vessels		36,765
Total quantity in United States vessels		728,346
Total in Canadian and United States vessels		1,976,040
	Down or East Bound.	Up or WestBound.
In Canadian vessels In United States vessels	926,901 408,122	320,793 320,224
Total.	1,325,023	641,017

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-STATENENT showing the Quantity of Freight passed Eastward,	Townson Communication of the Mark

1.000	1897.	1898.	1899.	1900.	1061	1902.	1903.	1904.	1905.	1900I	1:07.	1908.	1909.
A FGICHES.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Pockery. Crass f→Con. Pronkery. Crass f→Con. Arantaraw Alasses, all kinde	122	28	16 159	0 0	10 <b>-</b>	2	215 210	9.9	93 21 820	66 11			
Vails 01 Paint. Pich and tar	112	1,141	7,143	15,647	14,987	12,091	14,619	12,848	20,700	19,905	22,111	30,002	31,149
toan toan bugar bugar bugar			8		112		8	87	2,019 2,019 33 204	04 24 2	15		121
White lead Whisky, beer and other spirits. Merchandise not enumerated	$^{46}_{1,236}$		24	218	2,420	419	2 [882	706	635 851	614 466	1,224 2,294	1,056 2,126	525 10,418
Total, class 4	1,580	2,215	7,969	15,798	19,306	12,577	15,569	14,456	25,572	21,164	25,749	34,730	42,365
arrels, empty toops awed lumber aweed lumber Weet India and pile	257 478 4,716	3,055	1	182	66 2,635	15		894	3,977	9 400 2 400	A 100		
Voodenware, in vessels,	1,207	329	26			17		640 <sup>4</sup> 1	1,200		4 m		006
Total, class 5	6,658	3,394	196	15,942	3,205	1,117		1,938	5,217	4,000	4,180		006
Special "Clars. Joal. Special "Clars. tron ore Stone, all kinds						15,976		17,362	29,351	29,172	70,489	42,075	175,115
Total, special class									33,188	29,172	70,489	43,367	176,939
Grand total	584,246	538,108	354,485	28,231	184,420	250,475	398,427	275,278	448,704	564,231	789,167	869,398	939,055

DEPARTMENT OF RAILWAYS AND CANALS

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. Articles	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1509.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3. ricks	02	02	5	5	196	8	08	115	139	1	- NAL	
nimestone ement and water lime lay, hire and sand.	188	9006 1441	266	1,931	3,916 2,916	12.82	23 181 181	28	121	ž	2 20	400
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ats otatoes												
eeds, all kinds. obacco, raw gricultural products not enumerated, veret-	121	8 :	131	318	302	- 28	325	164	8	1		
ables. ides and skins	-				1	16.1	9		127			
ard and lard oil. feats other than pork		- 21				11	1	35	28		15	
/ool 11 other articles not enumerated .												
Total, class 3	1,698	2,031	2,1500	3,764	9,222	15,520	50,768	4,647	4,934	16,457	22,076	43,039
gricultoral implements shes, pot and pwarl roekery and earthenwar- twe woods, &c		33	8	.a			57 ES	165	155	5	456	

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16	E						12	161	126		
1907.	Tons.	3,634	3,331 295 295	-64 C	6,046 1,173	1,040 16,498	33,049	2,337 101,989	104,326		
1906.	Tons.	2,619 37 35	4,011 148 412 239	310	$1,153 \\ 1,365$	$^{304}_{93}$ $^{93}_{93}$ $^{483}_{483}$ $^{11,707}$	23,116	54,906 2,307 5	57,218		
1905.	Tons.	$1,641 \\ 93$	3,061 367 367 5 15	38	$1,168 \\ 928$	80 158 384 15,860	23,566	43,982	43,982		
1904.	Tons.	1,671 34	$   \begin{array}{c}     2,009 \\     1.418 \\     202 \\     190   \end{array} $	387	52 362	82 33 432 6,200	13,379	40,425	40,425	10,200 2,861	13.061
1903.	Tons.	1,207	2,878 16 158 58 58 58 58	264	204	- 22 452 3,674	9,294	40,026	40,637		
1902.	Tons.	1,384	1,292 14 27 27	201	1,314	$\frac{37}{61}$	6,169	3,600	3,600		
1901.	Tons.	612	675 83 83 83 83	169	810 338	11 131 1,516	4,492				
1900.	Tons.	1927	8235	69	430	205 215 744	2,447				
1899.	Tons.	209	815 815 815 815 815 815 815 815 815 815	108	1,596	1 178 182	3,491				
1898.	Tons.	150	229 15 35 37	8	566 237	88 88 793	2,405				
1897.	Tons.	790	12 20 20 20	249	311 309 309	0 104 211 711	2,844				
	Articles.	miture Class 4-Con. ass, all kinds amble	blases. uls. in tharreds in that tur teb and tur	ain la ash	gar	Trentan The Jand Distrig Disky, beer, &c. rehardise not cumershed	Total, class 4	reda, empty revood in Vessels ppword in Vessels inver, stawn. in Vessels. inver, stawn. in Vessels.	Total, class 5.	III	Total, special class.

DIPARTMENT OF RAILWAYS AND CANALS

34

H.—STATENENT showing the Quantity of Freight passed Eastward through the Welland Caual, from United States Ports to United States Ports, during the States of Naviention from 1897 to 1999 inclusive.

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0a-	1897.	1898.	1899.	1900.	1901.	1902,	1903,	1904.	1905.	1906.	.7061	1908.	1909.
Če Arkielov.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Fons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3. Bricks	845	300		. <u>∞</u> :									
Fish	206	270							10		07		
all other		122	040 040 1 240	NI .	105	8			-	e	002	0.030	
Stone for cutting		TODA	10,022	0,1110						1			
Appres Barley Corn	14,173 169,057 7,237	6,909 150,667 4,212	2,421 81,777 6,118	2,402 (0,545 7,960	7,119 55,531 17,168	7,418 (6,111 (6,111 )	$\frac{11,433}{108,917}$	16,621 60,964 8,556	$\begin{array}{c} 9,197\\ 93,622\\ 24,054\end{array}$	$\begin{array}{c} 9,266\\ 135,240\\ 15,215\end{array}$	2,812 24,474 124,474	7,148	$\frac{4,224}{100,067}$
Hay, preseed. Most, all kinds	301	±2,626	18,108	14,244	14,016	12,675	13,546	13,076	200 9,606	10,668	21,976	21,353	
Marton Nulls Oil cake	14,969	12,729	19,526	2,705 39,706	$1,302\\26,344$	10,006	6,112 99	16,497	228 1 10,802 76	11,323	4.741	2,070	19
Potatora Rya Films and Storata and Infindia	999	1,197	923 200	2,149		01	4,174		53 53	756	12 10	01	15,452
Toluceo Wheat Agricultural products, vegetables	28,919	11,248	12,926	18,771	23,557 10	32,639	15,436	14,269	15,483	13,410	$^{21,802}_{7}$	24,651	17,940 22,620
Hudes and skins, &c. Horses Lard and lard oil, &c.	30 3 1,444	3,671	864	1,588	1,680	2,413	61			22	86		
Meats, other than pork.	243	1,271	343	21	026	632	152	379	273	268	429	190	
Tallow Wool	197	359 89	201	631	119	752	482	134	21	68	30		157
Total, class 3.	. 280,319	219,434	158,720		147,947	146.581	168,720	130,499	163,784	196,301	196,062	182,085	161,738
Agricultural inplements Crockery and carthenwar						399		396	552	494	2	61	204
Furniture		67	2		~	17				1			

SESSIONAL PAPER No. 20a

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	States Ports, during the season of Navigation

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Articles.	1887.	1898.	.6681	1900.	1901.	1902.	1903.	1904.	1905.	1906.	.7001	1908.	1909.	
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	
darble Class 4-Con.				102	4									
vals 10.1, in hurrels Puint	198	119 8	367	- 18 -	81	1,594	2,000	- 11	2 <u>1</u>	-	n x <b>→</b>	12		
lags data sah torre, wrought ugar	31		-	H91	448	230	•	53	* 2*	840	26.075		1,196	
v nut load Viiting Viiting, leer and all other spirits derchandise	3,591	3,828	108 6,219	1,889	3,327	1,928	2,010 2,010	1,554	2,008	2,324	21 30 41,621	1,807	5,866	
Total, class 4	3,820	3,986	6,783	8,164	3,805	4,218	4,017	2,021	2,666	3,660	67,768	1,875	7,316	
Class 6. Direvcod, in vessels. Jurversels.	68,280	52,844	249,72	55,128	282 38,085	72,806	48,337	717 30,194	3,700 10,726	$\frac{2}{3,609}$	1 1,080 14,314	3,500	24,327	
daets and spars, in vessels. (op poles failway ties, in vessels	204							16H 652	2,248 62	59	2,161 70	×21		
plit posts taves, salt barrels Niuber, equase, in vessels Voodenware, &c.	1,040								12	1,500			$\frac{125}{2,952}$	10-11 E
Total, class 5.	69,724	52,844	57,695	55,133	38,307	72,810	48,337	31,717	20,751	32,865	18,516	20,558	27,384	DW
bal Special class. Solo not auitable for cutting Groupe		759	2,293	992	3157	201		1,100	3,346	4,400	2,734		907	ARD VII., A
Total, special class		692.	2,293	992	197	501		1,100	3,346	4,400	114,397		5	. 19
Grand total .	353,863	277,023	225,491	218,969	190,476	224,110	221.074	165,337	190,547	237,226	396,743	209,518	196,838	11
L-STATEMENT of the quantity of Grain Transhippel to the following Ports for the season of 1909.

Ports.	Wheat.	Oats.	Barley.	Corn.	Other Grain.	Total.	Total.
	Bushels.	Bushels.	Bushels.	Bushels,	Bashels.	Bushels.	Tons.
Kingston	7,998,834	1,015,470	569,708	251,035	190,868	10,025,733	282,696
Prescott	70,800	82,118			26,200	179,118	4,175
Ogdensburg				68,143		68,143	1,908
Total Bushels	8,069,634	1,097,588	569,708	319,178	216,886	10,272,994	
Total Tons	242,089	18,658	13,673	8,937	5,422		288,779

M.—The quantity of Cost passed though the Welland Canal during a series of years from 1885 to 1909 inclusive, as follows :---

Years.	From Canadian Ports to Canadian Ports,	From Canadian Ports to Canadian Ports,	Fr United St United St	rom tates Ports to ates Ports.	Fr United St Canadia	om ates Ports o n Ports.	Total.
	Up.	Down.	Up.	Down.	Up.	Down.	
	T ons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1885.	80 4 20 8 2,019 60 2,257 7 2,557	210	$\begin{array}{c} 193, 442\\ 81, 617\\ 172, 381\\ 226, 332\\ 116, 616\\ 185, 190\\ 185, 190\\ 185, 244\\ 185, 794\\ 145, 827\\ 145, 826\\ 165, 165\\ 86, 638\\ 46, 632\\ 46, 545\\ 12, 410\\ 113, 676\\ 62, 782\\ 70, 118\\ 29, 123\\ 100, 347\\ 158\\ 29, 123\\ 100, 347\\ 100$	$\begin{array}{c} 4.974\\ 5.400\\ 1.163\\ 878\\ 1.124\\ 615\\ 1.382\\ 631\\ 2.123\\ 1.255\\ 727\\ 603\\ 1.255\\ 992\\ 2.238\\ 999\\ 3.57\\ 501\\ 1.100\\ 3.346\\ 4.400 \end{array}$	$\begin{array}{c} 10,321\\ 22,187\\ 22,187\\ 17,362\\ 12,036\\ 17,280\\ 17,374\\ 12,391\\ 1,265\\ 1$	$\begin{array}{c} 31,350\\ 49,724\\ 49,724\\ 52,968\\ 27,183\\ 122,781\\ 122,781\\ 122,781\\ 122,781\\ 122,781\\ 13,304\\ 17,944\\ 13,947\\ 17,807\\ 11,740\\ 4,536\\ 8,2760\\ 1,360\\ 8,2760\\ 1,360\\ 8,2760\\ 1,360\\ 30,009\\ 33,009\\ 33,7742\\ 106,843\\ 34,555\\ 106,843\\ 143,555\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 143,155\\ 106,843\\ 106,844\\ 106,842\\ 106,844\\ 106,844\\ 106,844\\ 106,844\\ 106,844\\ 106,844\\ 106,844\\ 106,844\\ 106,844\\ 106,844\\ 10$	$^{240,087}_{261,875}$ $^{261,875}_{261,875}$ $^{262,872}_{265,443}$ $^{262,474}_{223,674}$ $^{223,644}_{223,474}$ $^{223,464}_{223,475}$ $^{223,465}_{223,455}$ $^{223,465}_{223,455}$ $^{263,676}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,475}_{223,455}$ $^{273,455}_{223,455}$

# 10-11 EDWARD VII., A. 1911

N.-STATEMENT showing the quantity of Coal passed though the whole length of the St. Lawrence Canal during the seasons of 1885 to 1909 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	185,705
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	\$20,069
1907	1,281	406,975	408,259
1908	23,939	448,140	472,079
1909	13,543	469,695	483,238

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

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.
1898.	Tons.	Tons.	Tons.
Barley Com Oats Pease	3,960 310,498 3.975 260	1,417 13,338 625	6,909 116,317 12,729 45
Wheat	16,133 184,706	39 15,860	8,612
Total gram	+519,532 19,773	31,279 79,614	144,612 114,259
Total	539,305	110,893	258,871
1899. Barley Corn	568 150,999 10,250	16,594 1	1,828 43,854 13,139
Pease	923 169,978	24,602	9,190
Total grain	‡ 332,736 21,739	40,197 68,671	68,011 104,727
Total	354,485	108,958	172,732
1900. Barley. Corn. Oats. Pease Rye Wheat	1,288 109,358 8,925 115 3,078 121,896	563 9,844 348 160 6,610	1,598 44,406 30,840 4 300 7,541
Total grain	**244,661 43,670	17,525 95,680	84,589 93,287
Total	288,231	113,205	177,876
· 1901.			
Barley Corn Oats	14,319 1,584	4,828 853	49,609 25,704
Rye	2,961 132,702	8,051	9,057
Total grain Other articles.	+151,566 32,854	13,732 128,614	83,370 91,799
Total	184,420	142,346	175,169

RECAPITULATION.

## 10-11 EDWARD VII., A. 1911

O.-STATEMENT showing the Quantity of Through Freight passed down the Welland Canal, &c.-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.
1902.	Tons.	Tons.	Tons.
Barley Corn	1,719 1,412	10,335	7,418 55,583 9,764
Pease	4,079 200,975	12,452	8,389
Total grain	2208,215 42,260	22,787 32,946	81,165 179,914
Total	250,475	55,733	261,078
, 1903. Barley	2.206	1.017	11,433
Corn . Oats	116,223 2,438 63	13,846	80,689 5,315 22
Rye Wheat	4,200 226,746	14,199	644 13,725
Total grain	\$351,936 38,850	29,062 82,298	111,828 101,621
Total	390,786	111,360	213,449
1904.			
Barley	9,697 35,021	853 3,950	$16,621 \\ 57,473 \\ 16,497$
Pease			3
Wheat	*133,528	18,908	11,929
Total grain	198,246 77,631	23,711 80,092	102,523 138,475
Total	375,277	103,803	240,998
1905.			
Barley Com	43,607 84,204 21,404	2,628 3,095 3,776	9,197 93,622 16,892 76
Rye Wheat.	1,711 190,505	32,562	15,483
Total grain Other articles	**341,431 107,273	42,061 123,225	129,270 104,747
Total	448,704	165,286	234,017

RECAPITULATION-Continued,

#### SESSIONAL PAPER No. 20a

O.-STATEMENT showing the Quantity of Through Freight passed down the Welland Canal, &c.-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,
1906,	Tons.	Tons.	Tons.
3arley Jorn Pats	21,196 35,559 37,164	984 15,688 819 11	9,266 140,558 11,323
Ve	1,405 **~289,611	6 15,843	14,972
Total grain	404,935 118,224	33,351 176,277	176,119 59,884
Total	523,159	209,628	236,003
1907.			
Barley Jorn Dats	9,936 106,299 67,063	492 \$1,901 1,565	2,812 133,498 4,741
tye Vheat	2,266 *450,009	8,072	23,222
Total grain	635,573 153,594	42,032 126,423	163,295 93,127
Total	789,167	168,455	256,422
1908.			
Barley Jorn	24,818 10,454 28,081	3,546 11,489 3.272	3,308 105,459 2,070
Rye	6,662 †686,626	3 19,832	2 24,293
Total grain	756,141 108,785	38,142 162,378	135,172 91,875
Total	864,926	200,520	227,047
1909,			
Sarley Jorn Jats Pense	19,143 17,137 65,624 30	22,798 2,872	4,008 100,967 6,639 33
Vheat	33 550,775	14,568	17,940
Total grain	632,742 272,263	40,238 113,970	129,587 126,223
Total	925.005	154.208	255,810

# RECAPITULATION - Concluded.

he Seasons of Navigation
Canals during th
undermentioned
ugh the id 1909.
passed thre in 1908 ar
Freight
Crand Tota
Statement of
1Comparative ?
-

	7.1	208 451 306 306 121	073	7250 835 835 835 131	169
Cargo	Unite	10,666; 747, 123, 13,	12,490,	24,494, 975, 128, 128, 128, 14,	26,342,
Origin of	Canadian.	2,092,231 776,245 1,261,621 379,674 72,015 72,015 258,527 258,527 258,527 81,600	5.012,147	3,366,495 1,710,797 022,421 79,150 79,150 79,254 331,104 331,104 331,104 59,352	7,378,657
Total Tons.		12,759,216 1,703,453 2,009,102 503,276 73,015 25,901 25,901 25,901 89,640 81,690	17,502,820	27, 861, 246 3, 225, 951 2, 410, 629 2, 410, 629 102, 211 794, 859 102, 291 336, 939 91, 774 59, 952	33,720,748
.80	Down.	$\begin{array}{c} 9,943,369\\ 1,292,493\\ 1,424,646\\ 134,592\\ 18,592\\ 18,696\\ 18,692\\ 296,169\\ 200,169\\ 200,160\\ 20$	13,237,228	24,436,502 1,383,802 1,630,208 140,171 140,173 291,179 292,483 45,433 42,133	28,042,023
To	Up.	2,815,847 3,815,847 584,456 368,934 23,420 22,420 2,209 2,7,209 2,7,209 11,568 11,840	4,205,592	3, 424, 743 780, 421 612, 089 712, 0946 73, 1125 73, 1125 54, 456 46, 341 17, 819	0,678,725
ted States n Ports.	Down.	218,226 496,736 583,340 123,612 13,306 112,306	1,447,219	167,881 561,887 661,857 128,696 21,965 12,148	1,544,054
From Unit to Canadia	Up.	855, 288 8, 377 8, 635	972,300	1,000,300 11,407 3,770 622 5,175 1,827	1,023,829
ed States tes Ports.	Down.	8,008,121 209,518 1,227	8,218,866	22,188,3886	22, 385, 226
From Unit tr United St	Up.	1,464,421 239,136 753	1,704,310	1,736,801 248,581	1,985,522
nadian tes Ports.	Down.	230,333 15,278 195 195 195 195 195 195 195 195 195	278,721	512,293 16,469 36,547 42,333	607,894
From Co to United Sta	Up.	17,940 36,370 140,102 964,774 492 1,998	560,736	46,041 164,304 242,954 606,406 406 150 394	1,060,715
nadian Ports.	Down.	$\begin{array}{c} 1,486,689\\ 571,961\\ 839,881\\ 10,730\\ 40,596\\ 5330\\ 5330\\ 2296,623\\ 31,713\\ 69,850\\ 69,850\end{array}$	3,292,422	$\begin{array}{c} 1,567,940\\ 618,718\\ 932,104\\ 11,475\\ 52,052\\ 7,234\\ 240,156\\ 33,033\\ 42,133\end{array}$	3,504,849
Fron: Ca sc Canadiu	Up.	378,198 378,198 434,907 4,100 23,420 23,420 23,517 2,357 39,570 39,570	1.028,246	$\begin{array}{c} 641,601\\ 217,737\\ 533,568\\ 5,480\\ 27,1480\\ 27,1480\\ 72,034\\ 49,121\\ 44,125\\ 17,819\end{array}$	1,608,659
Canals.		1908. Sault Ste. Marie Welland. St. Lawrence A. Peter's Murrey. Murrey. Rideou.	Grand total	Soult Ster. Marie Soult Ster. Marie Welland Warrahy Murray. Ottawa. Peters. Tront.	Grand total

		0	during	the Seas	son of N	avigation	in 1909.		0			
V esserla.	Total Number.	From Ci to Canadiar	anadian n Ports.	From C. United Sta	snadian o ites Ports.	From Uni United Sta	ted States o tes Ports.	From Unit to Canadian	ed States o a Ports.	Ton		Total Total
		Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	
CANADIAN VESSELS: Steam and Sail.												
sault Ste. Marie. Matudi V. Lawrene Lawrene Ottawa Ottawa St. Petere Muray Valuy Muray Valuy	2,597 1,725	$1,096,320\\435,367\\1,230,168\\32,721\\181,220\\73,919\\50,694\\85,722\\149,050\\$	$\begin{array}{c} 1,012,874\\ 380,371\\ 1,072,416\\ 3,1194\\ 72,876\\ 51,729\\ 88,206\\ 90,803\\ 90,803\end{array}$	98,486 152,854 21,896 16,075 157 3,067 3,067	213,062 1,452 3,399 76	81,1423	111, 236	252,281 4,648 7,05 705 180	123,254 210,614 152,497 14,545 402 4,259 4,259	1,528,510 593 537 1,252,044 148,796 77,056 50,654 86,722 86,722 107,515	$\begin{array}{c} 1,460,426\\ 592,437\\ 1,224,913\\ 48,739\\ 183,739\\ 77,201\\ 88,206\\ 88,206\\ 108,039\end{array}$	2,988,936 1,185,974 2,476,977 97,535 97,535 102,928 102,423 173,928 173,928 173,928
Total Canadian	22,507	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
Shult Ste. Marie W. Qhard W. Lawrenco. Lawrenco. Ditawa Ottawa St. Peteri Murey Valuy	12 11 11 11 11 11 11 11 11 11 11 11 11 1	144,118 869 115,486 2,49 293 293	83,507 1,139 20,956 1,876 1,922 1,022 628	55,615 61,657 120,844 203,865 10 10	1.80,573 0,502 40 12,681 99	3,902,156 267,395 8,789 38	10,228,683 200,005 906	$\begin{array}{c} 197, 837\\ 4, 911\\ 9, 389\\ 712\\ 282\\ 526\end{array}$	58,249 135,216 222,118 205,278 13 13 1,029	4,299,726 334,622 245,212 293,865 12,038 575 1,238	10,551,012 343,202 207,154 12,581 1,134 628	14.850,738 677,884 489,232 411,019 24,019 24,019 1,203
Totel United States	9,996	263,892	109,407	442,176	200,202	4,178,378	10,429,614	213,750	621,903	5,098,196	11,361,126	16,459,322
Grand Total Canadian and U. S.	32,503	3,599,079	3,101,810	742,496	418,191	4,260,969	10,540,850	471,695	1,135,810	9,074,239	15,196,661	24,270,900

# SESSIONAL PAPER No. 20a

Tunnam and Nationality of Vasials as

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# 10-11 EDWARD VII., A. 1911

Vessels.	Total Number of trins	From C to Canadian	anadian 9 Ports.	From C b United Sta	Canadian <sup>0</sup> ates Ports.
	anter.	Up.	Down.	Up.	Down.
SAULT STE. MARIE CANAL.					
Canadian Vessels, steam.	2,531 66	1,082,810 13,510	993,102 19,772	98,486	209,156 3,906
Total Canadian	2,597	1,096,320	1,012,874	98,486	213,062
United States Vessels, steam	3,679 55	136,221 7,897	83,127 380	55,615	176,566 4,007
Total United States.	3,734	144,118	83,507	55,615	180,573
Grand total, Sault Ste. Marie Canal.	6,331	1,240,438	1,096,381	154,101	393,635
WELLAND CANAL					
Canadian Vessels, steam.	1,150 574	375,866 59,501	325,428 54,943	$114,631 \\ 37,723$	1,452
Total Canadian	1,724	435,367	380,371	152,354	1,452
United States Vessels, steam	652 57	859	1,079 60	48,401 13,056	4,653 2,249
Total United States	709	859	1,139	61,457	6,902
Grand total, Welland Canal	2,433	436,226	381,510	213,811	8,354
St. Lawrence Canals.					
Canadian Vessels, steam	4,046 4,089	723,100 507,068	$603,171 \\ 469,245$	14,281 7,615	
Total Canadian	8,135	1,230,168	1,072,416	21,896	
United States Vessels, steam	634 502	75,339 40,147	2,922 18,034	87,618 33,226	40
Total United States .	1,136	115,486	20,956	120,844	-40
Grand total, St. Lawrence Canals	9,271	1,345,654	1,093,372	142,740	40
CHAMBLY CANAL.					
Canadian Vessels, steam	278 392	28,511 4,210	28,536 5,638	135 15,940	
Total Canadian	67(	32,721	34,194	16,075	
United States Vessels, steam	4,055		1,876	203,865	
Total United States	4,055		1,876	203,865	
Grand total, Chambly Canal	4,725	32,721	36,070	219,940	
OTTAWA CANALS					
Canadian vessels, steam	901 1, <b>0</b> 34	83,684 97,542	86,759 93,175	157	1,007 2,392
Total Canadian	1,935	181,226	179,934	157	3,399

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

# passed through the several Canals during the Season of Navigation in 1909.

From Uni t United St	ted States o ates Ports.	From Uni te Canadia	ted States n Ports.	To	Total Tons.		
Up.	Down.	Up.	Down.	Up.	Down.		
81,423	109,466 1,770	252,281	123,254	1,515,(00 13,510	1,434,978 25,448	2,949,978 38,958	
81,423	111,236	252,281	123,254	1,528,510	1,460,426	2,988,936	
3,870,252 31,904	10,169,548 59,135	195,591 2,246	58,249	4,257,679 42,047	$     \begin{array}{r}       10,487,490 \\       63,522     \end{array} $	14,745,169 105,569	
3,902,156	10,228,683	197,837	58,249	4,299,726	10,551,012	14,850,738	
3,983,579	10,339,919	450,118	181,503	5,828,236	12,011,438	17,839,674	
977 191		4,460 188	166,827 43,787	495,934 97,603	493,707 98,730	989,641 196,333	
1,168		4,648	210,614	593,537	592,437	1,185,974	
263,284 4,111	198,355 1,650	3,147 1,764	(21,513 13,703	314,832 19,790	325,600 17,662	640,432 37,452	
267,395	200,005	4,911	135,216	334,622	343,262	677,884	
268,563	200,005	9,559	345,830	928,159	935,699	1,863,858	
			114,329 38,168	737,381 514,683	717,300 507,413	1,454,881 1,022,096	
			152,497	1,252,064	1,224,913	2,476,977	
8,660 129	111 795	93	162,84: 59,276	171,710 73,502	165,915 78,105	337,625 151,607	
8,789	906	93	222,118	245,212	244,020	489,232	
8,789	906	93	374,615	1,497,276	1,468,932	2,966,209	
			14,543	28,646 20,150	28,536 20,203	57,182 40 353	
			14,545	48,796	48,739	97,535	
			205,278	203,865	207,154	411,019	
			203,278	203,865	207,154	411,019	
			219,823	252,661	255,893	508,554	
		294	98	84,135	\$7,864	171,999	
		472	404	98,014	95,971	193,985	
		766	502	182,149	183,835	365,984	

TABLE	No.	3	-STATEMENT	showing the	Number,	Tonnage	and	Nationality	of	vessels 1909-
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Tracis	Total Number	From C t Canadia	anadian o n Ports.	From C. t United St	anadian o ates Ports.	
	Trips.	Up.	Down.	Up.	Down.	
OTTAWA CANALS.						
United States vessels, steam	3 243	233 2,416			12,581	
Total United States	246	2,649			12,581	
Grand total, Ottawa Canals	2,181	183,875	179,934	157	15,980	
RIDEAU CANAL.						
Canadian vessels, steam	1.773 427	57,222 16,69''	57,419 15,457	3,067	76	
Total Canadiau	2,202	73,919	72,876	3,067	76	
United States vessels, steam	2 32		10 1,012		99	
Total United States	34	198	1,022	10	99	
Grand total. Rideau Canal	2,236	74,117	73,898	3,077	175	
St. Peter's Canal.						
Canadian vessels, steam	276 1,152	16,282 34,412	15,118 36,611			
Total Canadian	1,428	50,694	51,729			
United States vessels, steam	83	215 78	502 126			
Total United States	11	293	628			
Grand total, St. Peter's Canal	1,439	50,987	52,357			
TRENT VALLEY CANALS.						
Canadian vessels, steam	2,947 783	68,853 16,869	70,833 17,373		·····	
Total Canadian	3,730	85,722	88,206			
United States vessels, steam						
Total United States						
Grand total, Trent Vallay Canal-	3.680	85,722	88,206			
MURRAY CANAL						
Canadian vessels, steam	632 234	137,796 11,254	88,847 10,936	3,347 4,938		
Total Canadian	. 886	149,030	99,803	8,285		
United States vessels, steam	47 24	170	162 117	36 349		
Total United States	71	288	279	385	7	
Grand total, Murray Canal	957	149,371	100,0×2	8,670	7	

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

From Unit United St	ited States o ates Ports.	From Uni to Canadia	ted States o m Ports.	To	Total	
Up.	Down.	Up.	Down.	Up.	Down.	I ons.
		9,389		233 11,805	12,581	233 24,386
		9,389		12,038	12,581	24,619
		10,155	502	194,187	196,416	390,603
		70	4,259	60,359 16,697	61,754 15,457	122,113 32,154
		70	4,239	77,056	77,211	154,267
		712	3 10	920	13 1,121	13 2,041
		712	13	920	1,134	2,054
		782	4,272	77,976	78,345	156,321
				16,282 34,412	15,118	31,400 71,023
				50,694	51,729	102.423
				215		717
		282		360	126	486
	· · · · · · · · ·	282		575	628	1,203
· ·· ·····		282	<u> </u>	51,269	52,357	103,626
				68,853 16,869	70,833 17,873	139,686 34,342
				85,722	88,200	173,928
				85 700	88.906	173.099
		180	3,354 4,882	141,143 16,372	92,201 15,838	233,344 32,210
		180	8,236	157,515	108,039	265,554
	20	464	951	713	1,133	1,846
			78	525	202	727
38		526	1,029	1,238	1,335	2,573
38	20	706	9,265	158,753	109,374	268,127

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## TABLE 4.—COMPARATIVE STATEMENT of the Traffic of all the Canals for the Years ending December 31, 1908 and 1909.

Articles.	1908.	1909.	Increase.	Decrease.
Class No. 1	Tons	Tone	Tone	Tune
00000 240. 7.	TODS	Tone.	TODA	Louis.
Canadian vessels, steam	5,201,093	6,150,224	949,131	
United States vessels, steam	7.881.570	15,726,035	7.844.465	
	639,569	733,287	93,718	
Total alass No. 1	15 201 098	91 920 900	8 0.09 079	-
10tal, class 100. 1	10,001,020		0,000,012	
Class No. 2	No	No	No	No
Passengers	280,830	272,222		8,608
Class No. 3.	Tons.	Tons.	Tons.	Tons.
Barley	174,628	176,577	1,949	
Buckwheat	858	6,789	5,931	
Corn	103,713	180,203	26,493	
Rye	250,000	102,103	201,110	18 973
Flax	234,738	206,750		27,988
Pease	286	326	40	
Wheat	3 199,031	3,397,567	198,536	
Flour,	228,600	324,044	35,439	
Other mill products	28.234	57,288	29.054	
Fruit and vegetables	23,838	15,036		8,802
Potatoes	6,858	9,457	2,599	
Live stock	1,907	1,635		272
Poultry, game, nsh	2,220	3,064	844	
Other packing house products	2.273	3.201	928	
Hides and leather	101	594	493	
Wool	4	287	283	
All other animal products	10,177	14,947	4,770	
Total, class No. 3	4,338,156	4,875,298	593,177	56,035
Class No. 4.				
Agricultural modements.	11,378	18,836	7,458	
Cement, bricks, lime.	191,411	489,745	298,334	· · · · · · · · · · · · · · · · · · ·
Household goods and furniture.	4,718	2,517	15 715	2,201
and steel all other	227 284	309 188	40,710 81 904	
Petroleum and other oils	87,456	99,980	12,524	
Sugar and salt.	22,709	104,474	81,765	
Wines, liquors and beers	10,193	18,314	8,121	
Merchandise not enumerated	542,029	723,680	181,651	
Total, class No. 4	1,150,130	1,865,401	717,472	2,201

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TABLE 4.—COMPARATIVE STATEMENT of the Traffic of all the Canals for the Years ending December 31, 1908 and 1909—Concluded.

Articles.	1908,	1909.	Increase.	Decrease.
Class No. 5	Tons.	Tons.	Tons.	Tons
Pulpwood. Sawed lumber. Squared timber. Shingles . Other woods.	467,306 417,229 53,072 9,990 39,834	883,937 668,780 31,772 8,992 95,665	416,631 251,551 55,831	21,300 998
Total, class No. 5	987,431	1,689,146	724,013	22,298
Class No. 6.				
Hard coal Soft coal Coke Copper ore	1,006,259 2,521,850 52 8,855	933,234 3,090,799 1,456 8,329	568,949 1,,404	73,025
Other ore	7.402,672 87,415	21,204,848 52,237	13,802,176	35,178
Total, class No. 6	11,027,103	25,290,903	14,372,529	108,729
Grand total	17,502,820	33,720,748	16,407,191	189,263

Net Increase, 16,217,928 tons.

u St. Peter'a Murray Trent Valley Canal.	Toms         Toms         Toms           13         71,400         252,341         199,668           71,400         252,341         199,668           11         717         727           11         747         737           12         106,695         360,197           13         106,695         360,197           14         06,695         360,197           150         06,695         360,197           160         No.         No.	Trans.         Trans.         Trans.           0         0         1         0         4           0         1         1         1         4           0         1         1         3         4         4           0         2         1         3         4         4           0         2         2         2         1         1         1           1         3         3         3         4         4         4           1         3         3         3         4
Ottawa Canals	T.ons. T.ons. T.ons. 171,999 132, 132, 132, 132, 132, 132, 132, 132,	Tona. 7001. 700 70 70 70 70 70 10 11 10 10 10 10 10 10 10 1
Chambly Canal.	Toms. 07,182 07,182 00,353 7008,554 No. 2,979	Tons, 17 (880 (892 13 12 13 12 13 12 13 12 13 13 12 13 13 13 13 13 13 13 13 13 13 13 13 13
St. Law- rence Canals.	Tons. 1,454,881 1,022,006 337,025 101,007 2,906,200 No.	Tons. 19,256 19,256 19,256 106 103,885 20,155 20,155 20,155 20,155 20,155 103 20,155 103 20,155 103 103 103 103 11,015 11,015 11,015 11,015 11,015 11,015 11,015 10,115 11,015 10,115 11,015 10,115 10
Welland Canal.	Tons. 989,641 190,333 640,332 640,333 640,333 100,333	Tons. 23,151 76,1302 33 20,333 20,163 38,763 38,763 38,763 39,773 30,170 30,170 30,170 30,170 30,170 30,170 30,170 30,170 30,170 30,101 30,101 30,101 30,101 30,101 30,101 30,101 30,101 30,101 30,101 30,101 30,101 30,101 30,101 30,002 30,0000000000
Sault Ste. Marie Canal.	T'ous, 2,949,1778 23,958 14,745,109 14,745,109 117,839,674 N.o. 32,810	Tons. 133,708 133,708 1,572 1,572 1,572 2,923 1,67 0,938 1,67 2,938 1,939 1,8,106 1,8,106 1,8,106 1,8,106 1,8,106 1,8,106 1,8,106 1,8,106 2,068 1,8,106 2,068 1,8,10 2,068 1,8,10 2,068 1,8,10 2,068 1,8,10 2,008 1,000
Airticuss.	Class No. 1. chandhan wench, steram. Draidel Starto wench, steram. Tetar, starto wench, steram. Tetar, starto No. 1. Class No. 1.	Chara An. J. Data An. J. Data An. J. Data An. J. Data An. J. Data An. Data An. J. Data An. Second An. J. Data An. Second An. J. Data An. J. Data An. J

TABLE 5.-STATEMENT of Traffic on the Undermentioned Canals during the Season of Navigation in 1909.

1,273 921,866 7.86,607 20,392 9,466
CLG3 9,574 177,449 71 5,028 80,852 177,143 71 0.63 21,163 20,920 55 1,063 21,163 20,920 55
(450 (65.832 84.010 00) (460 (65.832 84.010 00) (461 (677 10,839 88. (461 (677 10,839 88. (581 10,839 10) (583 280.100 135.780 (6.65)
,360 <b>b</b> 06,489 472,656 9,560
122,807         122,807         203,086         483,5           7,789         45,881         232,771         114,6           7,780         45,881         232,771         114,6           2,065         13,642         13,845         114,6           2,065         9,847,9         13,842         114,6           2,065         13,842         13,843         1,0           2,016         4,479         9,042         1,0
,120 186,614 509,157 569,3
234,253 313,709 98,4 (781 234,353 326,058 24,4 (40 234,553 326,058 2
(328 (31,770 1.848 1.44) (41,531 1.548 10,54) (515 10,54)
122, 181 410,982 642,209 122,
,245 2,025,951 2,410,629 732,1

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Trent Valley Canal.	Tons. 173,928	No. 70,373	Tons.	19,091 6,746 1,746 1,279 1,290 28,161	00,090	10-11 EDWARD VII., A. 1911 종 : 약 : 하당 풀
Murray Canal.	Tons. 268,127	N.o. 24,308	Tons.	31×10 30, 30, 50, 50, 50, 50, 50, 50, 50, 50, 50, 5	655	6 225 225 200 118 118 118
St. Peter's Canal.	Tons. 103,626	No.	Tons.	5,6254 1996 1996 1,263	8,423	2,6325 8,8 2,946 2,946 3,047
Rideau Canal.	Tons. 156,321	No. 19,498	Топн.	11,710 18,931 258 0,832	127,02	1,738 1,738 1,738 1,738 1,738
Ottawa Canals.	Tons. 390,603	No. 31,731	Tous.	778 197,040 225 33,543	232,025	5.961 112 113 113 113 113 113 113 113 113 11
Chambly Canal.	Tons. 508,554	No. 2,979	Tons.	483,573 114,671 1,063	509,330	88
St. Lawronce Canals.	Tons. 2,966,209	No. 178,371	Tons.	253,086 232,771 13,845 145 145 145 145	509,157	1,013 1,500
Welland Canal.	Tous. 1.863,858	No. 3,092	Tons.	122,867 45,881 13,669 13,669 4,499	186,614	28%) 147 151 151 1,124
Sault Ste. Marie Canal.	Tons. 17,839,674	No. 32,810	Tons.	2,331 2,789 2,187 2,206 7,206 7,206	71,129	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Антиська.	Vessels of all kinds.	Passeugers.	Forest -Produce of Wood.	Pulpwood Sawed hunber Shurre hunber Shurgles.	Total	Assimits and Produce of Assimits, Live tecks

#### DEPARTMENT OF RAILWAYS AND CANALS

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	gan argo.	United States.		27,995	5,990	2,435,781	3,030	36,292 39,103			5,987	14,488	14,586	361	8,323 21,153,576	28 4.306	
	e Gi	Canadian.	8,163	105,713	117,038		2,532	129,753	2,081	4,164	63 48,916 131,904	303,715	267,561 13,228	11,255	3,339	6.756	62 318
	Total Tons.		8,163	133,708	123,028	2,435,781	5,562	166,045	2,081	4,164	54,903 154,530	218,203	282,147 18,580	11,616	8,323 21,156,915	11.062	62 318
	ź	Down.	8	133,668	1,600	63,480	5,550	166,045		214	21 5,369 30,908	12,557	282,147 17,750	2,998 2,998	8,323 8,323 21,156,915	23	17
	Tor	Up.	8,133	9	121,428	2,372,301	12	036	2,081	4,150	49,534 123,627	304,646	830	40 8,618 1 247	1000 ft	41 9,825	301
	States States dian rts.	Down.	30			23,500	1,619	6.631			96	3,196	748 4,541		60.019		
	United t Cans	Up.				888,250	01-1- <sup>(1</sup>	46			9,924 392	5,287				S.011	
D	om 1 States to 1 States wrts.	Down.		82,397		30,080	3,931	98,815 82,876			2,935	3,841	24,622 7,055	9.797	8,323 21,048,908	28	
	Duites Uniter Pc	Up.			11,605	1,376,276		22			32,245	30,619		1 3407			
	om dian States rts.	Down.		16,238		3,500		29,213		1		1,588	16,938		13,776		
	Fr Cana t United Por	Up.			11,327	5,000		73	19	39	60 584	12,680		ŧ		362	28
	om adian adian ets,	Down.		35,033	1,600	6,400		38,017		213	2,434 30,801	4,932	239,839 6,034	2,998	28,212	1,237	17
	Can Can Po	Up.	8,133	10	98,496	102,775	12	795	2,024	9 9 100'e	36, 338 90, 406	4 256,060	830	8,618		6,372	273
	Articles.		Agricultural implements. All others animal	Barley Buckwheat	Cemont, bricks, etc.	" soft	Corn Dressed meats	Flax Flour	Fruits and vegetables.	Hides and leather	Iron, pig and bloom. Iron and steel, all other	Live stock Merchandise	Other mill products	" woods nouse products	" copper	Petroleum Petroleum	Potatoes

TABLE 7 (No. 1)-GENERAL STATEMENT showing the Quantity of each Article Transported on the Sault Ste. Marie Canal during the Seeson of Navigation in 1909.

4,312 16,342	2,250 7,989 324,615	24,494,750
2,331 2,746 31,447	2,187 2,187 28,055 1,907,415 4,364	3,366,495
2,331 7,058 47,789	2,187 2,187 36,044 2,232,030 4,364	27,861,245
2, 331 7, 058 46, 630	2,134 2,134 935 2,219,264 08	24, 436, 502
1,159	53 35,109 12,766 4,306	3,424,743
560	61,681	167,881
- 69 00 5	20.00	8 1,000,300
6,39 12,17	1,05 3 764,21	22,188,38
	11,155	1,736,801
26,910	1,060	512,292
	5,186 9,587	46,043
7,532	21 903,041 57	1,567,940
1,159	18,765 3,181 3,150	641,601
ilpwood wed lumber inclea	uared timber gar and salt heat, liquors and beers	ool Total freight

	ť cargo	United States.	2.04	$\begin{array}{c} 11,125\\ 143,328\\ 234,3^{5}3\end{array}$	140,902	18,509	315	166'6 295'1	81.859 904 20.069	402 4,275 1,531	31,770	24,877
	Origin o	Canadian.	9,320	69,727		20.538 20,254 97	1,701	19,736	147,241 74,234 1.089	25		23,075
	Total tons.		9, <i>N</i> 74 23, 151	80,852 143,328 234,353	140,902	20,038 38,763 38,763	1,701	21,103 65,832	220,100 75,135 30,158	427 427 427 1,531	31,770	48,352
	Tous.	Down.	7967	19,669 1,530 234,353	140,902	20,53% 38,763	315	2,855	48,492 75,135 30.143	402	31,770	48,256
		Up.	24576	61,183 141,798		26	1,701	18,338	185,608	20 20 1,031		230
	om . States . dian. rts.	Down.	8		39,935	2,650		10,054	9,503 2,872 5,388	402	31,170	24,377
-	Fr United Cana Po	Up.		11,067					÷.			
	rom 1 States to orts.	Down.	25		100,96	01 <sup>+</sup> 101	16		0, 5,86	2,93		
1 HOIDES	F Unite Unite	Up.		130,73					66,82	1,53		33
14041	rom adian to arts.	Down							_			-0
	P Can Uniter P	Cp.						5 1,13	35,41			
	om vdian adian rts.	Down.	18,92	13,90		20,55		1,30	28,12 72,26 2.13	14		23,87
	Po C C F	Up.	9,200	54,375		6	1,70	18,339	82,971	83.20		æ
	Artioles.		Agricultural implements. All other animal. Barloy	Buckwheat Cament, bridks, &c Coal, nard Daal, soft	Dorn	Plax. Flax. Fouris and vegetables	Hay Hides and leather Homebold goods	Iron, pig and bloom. Iron and steel, all other	Morchandise Oats mill moducts	<ul> <li>packing house products.</li> <li>weeds.</li> <li>Oro, all other</li> </ul>	i copper. iron	Persoleum Persoleum Poultry, game and fish

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	28,194	10,790	153,823 6 157	975,710
122,867	17,687	2,279	436,373	1,050,241
122,867	45,881	13,069	590,196 4,899	2,025,951
	41,857	12,980	590,074 1,975 157	1,383,862
122,867	4,024	44.729	2,924	642,089
	2,834	9,190 643	166,431	551,837
				11,467
	24,327	1.196	17,940	196,838
		42,453	9	248,581
	14,096 298	1,475		16,469
122,867	3,984	57	2887	164,304
		2,190	405,703 269	618,718
	9	89 2.219	2,081	217,737
			and beers.	freight
Potatoes Pulpwood	Sawed lumber	Squared timbe	Wheat Wines, liquor	Total

100 In 1909.	ates Unided States to Constant tates Constant tates Total Total Total	own. Up. Down. Up. Down. Op. Bown. State.	254 30 9,207 367 9,574 9,330 254 4,234 4,234 4,234	0,700         0,700         0,1138         0,0043         07,222         50,127         11,126           0,110         1,500         14,796         5,500         14,7328         14,126         14,1328           0,00         250,133         250,333         254,333         254,333         254,333         254,333	0,917	5,402 2,000 2,00 2,00 2,00 2,00 2,00 2,00	315 1,701 1,701 1,701 1,701 1,701 3,10 3,10 3,10 3,10 3,10 3,10 3,10 3,	5         1,007         18,338         2,405         20,743         19,736         1,007           5         10,004         47,418         18,414         60,832         55,841         9.901	0,801 4400 9,003 184,800 17,005 201,920 139,001 81,859 2,872 76,135 76,135 76,135 76,135 76,135 76,135	2, 2020	021,170 85 85 85 85 85 85 85 85 85 85 85 85 85	24,377 96 48,256 48,352 23,976 24,377 230 23,977 230 230 230 230 230 230 230 230 230 230	122,867 122,867 122,867 122,867 33	
1909.	Trom Unifed States to Canadian Ports.	Up. Down. Up.	30 8,907	11,067 5,769 61,183 11,067 1,530 141,796 233,963 141,796	39,935	2,650	1,701	1,007 18,338 47,418	400 9,503 184,855	402 20 402 20 1,631	31,770	24,377 26	122,867	CONTRACTOR OF A CONTRACTOR OF
of Navigation in	From United States to United States Ports,	Up. Down.	254	6,804 130,731 400	100,907	15,452	315		06,826 5,861	2,932	(19)	230		A TANK TANK TANK TANK TANK TANK TANK TAN
Deason	From Canadian to United States Ports.	L Up. Down.	22 -23	00		55		18 15 1,133	30,411	9		15	122,867	No
	From Canadian to Canadian Ports.	Up. Down	9,207 8	54,379 30		20,53 20,66	1,701	46,285 8,35	82,218 1.70	20 2,10		81 23,87		
	Articles.		Agricultural implements. All other animal Barley	Buckwheat Cement, brieks, &c Coal, hard	Colfe	Flax Flour Fruits and vogetables	Hay Hides and leather	Iron, pig and bloom.	Merchandieo	Other mill produces	" copper	Petroleum Poultry, game and fish	Pulpwood.	Ay0

TABLE 7 (No. 3).-GENERAL STATEMENT showing the Quantity of each through Article transported on the Welland Canal during the

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## DEPARTMENT OF RAILWAYS AND CANALS

# SESSIONAL PAPER No. 20a

Shingles Squared timber. Sugar and salt Vines, Iquors and beers	2,219	$\begin{array}{c} 2,100\\ 103\\ 398,912\\ 269\end{array}$	57	1,475	42,453	$^{125}_{17,940}$		$9,190 \\ 643 \\ 166,431 \\ 1.706$	44,729	258 12,890 1,942 583,283 1,975	298 12,890 46,671 583,233 4,899	2,100 2,100 429,460 4,803	10,790 43,802 153,823 6
Wool						157				157	157		157
Total freight.	216,665	571,670	164,304	16,469	248,581	196,838	11,467	550,046	641,017	1,335,023	1,976,040	1,002,121	973,919

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TABLE 7 (No. 4)—GENERAL STATEMENT showing the Quantity of each way article transported on the Welland Canal during the Season of Navigation in 1909.

		÷ :		162,1
7	621	6,913		48,120
100	621	6,913		116'61
	8	6,791		48,839
5	68	122		· 1,072
				162'1
	0	Terto	17 040	Odan <sup>4</sup> HE
24	100		1 070	-
		nd beers.	freight	
Sawed lumber Shingles	Sugar and salt. Wheat	Wines, liquors a Wool	Total	

Rva

	Cargo	United States.	1 10,669 115,069 115,069 117,122 6,587 6,587 6,587 1,668 0,687 17,088
	Origin o	Canadian.	444 448 19, 2572 19, 2572 19, 2572 19, 2572 19, 2572 20, 1952 20, 10, 1952 20, 1952
	Total Tone.		19, 2572 19, 2572 19, 2572 19, 2572 19, 2572 19, 2572 19, 2572 10, 11, 11, 11, 11, 12, 12, 12, 12, 12, 12
	is .	Down.	HH 18, 107 18, 107 18, 107 18, 107 18, 107 19, 107
avigation in 1909.	To	Up.	1,270 1,270 2,1944 2,1944 2,1052 2,1052 2,1052 2,1052 2,1052 2,1052 2,1052 2,1052 2,1052 2,1052 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202 2,202
	om 1 States 20 adian rts.	Down.	9, 172 9, 172 9, 172 9, 172 9, 1067 4, 1067 4, 1067 4, 1067 4, 1067 10, 177 10, 177 10
	United Can Pc	Up.	8,710
	From Canadian From Canadian United States United States Ports.	Down.	
		Up.	6 6
of K		Down.	36,647
c ···		Up.	2333,478 9,478
	on dim dian rts.	Down.	8, 3014 10, 105 8, 573 4, 573 10, 105 1, 108 1,
	Fr Canr Canr Po	Up.	1,220 84 84 84 84 84 84 84 84 10 10 10 10 10 10 10 10 10 10 10 10 10
	Articles		Agreent transf. Ingluments All other natural. Biology and Dealer and the second and the second Biology and the second and thes

TARE 7 (No. 5). - GENERAL STATEMENT showing the Quantity of each Article transported on the St. Lawrence Canals during the Season

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# DEPARTMENT OF RAILWAYS AND CANALS

# SESSIONAL PAPER No. 20a

139,212	699,832
145 13,845 10,799 434,620 6,230 6,230	1,710,797
145 13,845 10,839 573,832 6,230 6,230	2,410,629
13,363 780 550,7×5 937 10	1,630,208
145 482 482 10,050 17,047 5,293	780,421
125,036 149	661,557
	3,759
	136
	36,547
	242,954
13,363 684 431,749 788 788 788	932,104
145 482 10,059 17,047 5,293	533, 572
th ng es quared inther agar and saft Viest. Vines, liquors and beers.	Total, freight.

	gin ưgo.	United States.		$^{4,017}_{296,276}$	17,137 2,699 25	6,537 5,467	4,852	15,682
	of Ori	Canadian.	183 5,065 19,143	27,694 707 11,140	814 278 19,281 19,281 19,281 19,281 1,701	1,049 19,331 51,182 37 104,436 104,436	1,071	19,537 57 27
	Total Tons.		183 5,065 19,143	31,711 296,983 186,255	17,951 278 19,634 6,058 6,058	1,049 19,331 57,719 37 109,903 65,694	5,923 762 1,824	35,219 6 27 27
	z	Down.	4,990 19,143	17,700 294,580 175,115	17,137 200 19,634 21,905 6,014	10,000 10,017 32,320 21,470 65,694	5,876 600 1,824	34,122
	Ton	Up.	100	14,011 2,403 11,140	814 78 78 78 78 78 1,701	274 19,226 42,202 88,433	162	1,087
.pane	rom d States to adian orts.	Down.		4,985 289,969 175,115	9,772 2,359	6,037	4,916	15,577
1909—Contin	E Can	Up.		1,69				
	om States States rts.	Down.						
tion in	United United United Po	Up.						
Navigs	dim States ts.	Down.						
ason of	Fre Cana to United Poi	Up.						
the Se	dian dian ts.	Down	83 4,960 19,143	12,715	7,345 200 19,634 5,989	775 775 8,980 8,980 10,883 10,883	940 216 1,824	18,655 C
	Fre Cana Cana Por	Up.	100	14,011 707 11,140	814 78 25 44 1,701	$\begin{array}{c} 27.4\\ 19,226\\ 42,202\\ 6\\ 88,433\end{array}$	47 162 2	1,087
	Articles.		Agricultural implements All other animal Barley	Coulds wreat. Contrart, brick, &c Coal, hard Coal, hard	Corn. Oorn. Dressend motats. Filour. Fruits and vegentables.	Horse and reature Horse and seature from -pig and blown from and aced, all other Live stock.	Other mill products. Packing house products. " woods. Ore, all other.	", iroi Pesse. Petrolom. Poultry, game and fish. Potatoes.

TABLE 7 (No, 6)—GENERAL STATEMENT showing the Quantity of each through Article transported on the St. Lawrence Chands, during

DEPARTMENT OF RAILWAYS AND CANALS

SESSIONAL	PAPER	No. 20a
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01 010 001		607,463
249,497 120 10,713 900 5,316	5,105	1,040,101
249,497 120 10,713 5,356 5,356	5,105	1,727,564
120 900 550.775	896	1, 275, 603
249,497 10,713 4,936	4,209	451,961
96 125,086	149	639,507
		1,6%
231,243	0.00.005	nen inte
120 900 324 425,739	636 00F	nun finnen
1,287 1,287 1,287 1,287 1,287 1,287 1,287 1,287 1,287 1,287 1,287 1,287	209 540	
nd beers.		
l lumber. les. ed timber and sult. liquors a	tal freight	
Shinga Shinga Shinga Shinga Sugar Wheat	. Tool.	-

Puln

iring the	Cargo.	United States.	11,422 11,422 0,0753 38,654 38,5 38,5 38,5 38,5 38,5 38,5 38,5 38,5
Canals du	Origin of	Canadian.	4,000 4,000 1,4,000 1,4,000 1,4,000 1,4,000 1,4,000 1,4,000 1,4,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,
awrence	Total Tons.		2014 4.00 4.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
the St. I.	ġ	Down.	100 100 100 100 100 100 100 100
of each Way Article transported on Navigation in 1909.	Tor	Up.	2000 11,2004 10,005 11,2004 125,0080 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,008 2,146,0082,146,008 2,146,0082,146,008 2,146,0082,146,008 2,146,0082,146,008 2,146,0082,146,008 2,146,0082,146,008 2,146,008
	United ates nadian arts.	Down.	10,000 10,000
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	Juited ss to States ta,	Down.	
	From <sup>]</sup> State United Poi	Up.	01 010101 01 00 02 10
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ng the C	From Co to United Por	Up.	
r showii	Ports.	Down.	3, (60) 2, 24 2, 407 1, 1, 1, 20, 6 3, 603 1, 20, 6 4, 20, 20, 6 4, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1
ATEMEN	From G	Up.	2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.201 2.
TABLE 7 (No. 7)GENERAL ST	Articles		Areicultural implementa Artistar animal Bandonia: Bandonia: Canton, Italia Canton, Italia Canton

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Articles.	En Cana Cana Cana Po	om dian c rts.	Erc Cana tc United Poi	m hian States ta.	United United United Pon	om States o States rts,	Fr United t Cant Po	om States o rta.	Tos	's	Total Tons.	of Col	gin rgo.
	Uh	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
ultural implements her animal.	69 17	61						162	851	67 59 14	12	17 17	162
unut 14. bricka, &c. 14. de original de	475		146					291	624	201 98,531	915 98,533	624	162,89
d marks	- 18								**		48	4	
and vegetables	$1,312\\669$	1,579	202,7						1,312 609 7,702	1,579	1,312 2,248 15,474	1,312 1,312 2,248 15,474	
told goods. ig and bloom. nd steel, all other	19 52 590								19 26 266		23 3 B	20 90 90	
andise mill products	836 11 112	407 669 9	172					5,239	1,008 17 112	5,646 669 9	6,654 686 121	1,415 086 121	5,239
woods.	: ¥ 8 :	242	230					10,128	316 30	10,128	1,063 10,158	1,063	10,128
on	156							14,144	18	14,144	14,144	81	14,141

TABLE 7 (No. 8) - GENERENT SEARCHENT showing the Quantity of each Article transmorted on the Chambly Canal during the Season of

# DEPARTMENT OF RAILWAYS AND CANALS

#### SESSIONAL PAPER No. 20a

27 3,573	1,671	717 10 160	1,421 123,696
27 483,573 48	114,671	885 10 160	752,117 625
-	-	174	140,171
23 488,573	114,667	Eag	611,946
		168	126,600
	179		
4 13, 57	114,64		6/16, 4/0
			11, 172
61	0) 61	12 4 2	5,480
iltry, game and fish. atoes pwood.	ved lumber ngles.	ar and salt. eat. aes. liquors and heers	Total freight.

ons. Total Original.	Down. Canadian.	200	2, H63 3, 619 3, 619 287 76 40, 967 41, 014 41, 014	4 2	15 1,318 1,318 1,318 2,528 2,528	121 3 76 139 139 139 139	194 1,186 1,182 3,780 3,780 522	3 286 286 286 345 1,345 3,603 3,675 3,603	158 158 158
Ĕ	Up.	910.0	136 287 47	₩X	1,209	183	3,789 522 522	298 298 208	9 30 <sup>1</sup>
om 1 States 20 adian arts,	Down.								
Can Can Pc	Up.		ž					64 <u>5</u> 2	
rom d States to orts.	Down.								
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rom nadian to ed States 'orts.	Down.								
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om adian o sdian rts.	Down.	500	2,843		1	121 33	194	3,603 3,603	
Can Can Con Con Con Con Con Con Con Con Con Co	tīp.	61-0-G	142	₩ X	1,303	14	1828 8288	383	9 <u>3</u> 2 8 2 1 2 8 0
Articles.		coultural implements. other animal	kweut ent, urioka, &c , hard.	and meats	ts and Vegetables	sefold goods. Pig and bloon. and steel, all other	chandise. er mill products	er packfug house products . er woods . all other .	copper

70

DEPARTMENT OF RAILWAYS AND CANALS

# 108 18 506 506 506 506 506 506 506 2,532 162 79,150 2,532 6,243 5,634 5,634 936 936 1,778 79,850 297 2,314 157 - 01 600 52.052 5,125 506 779 1,776 27,798 218 6,242 282 629 609 52,052 218 27,169 5,125 506 371 371 Polytosof Polytosof Saved Imiliar Saved Imiliar Squared iniber Wisser and salt. Wisse Ingross and beers Wool. Poultry, game and fish Total freight ...

SESSIONAL PAPER No. 20a

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during the	Origin of Cargo.	udian. United States.	35 118 348	33,705 1,245 21,360	220	145	265 395 1,272 12,363 12,363 12,363	277 10 320 324 27,475	683
ırray Canal	Total	Car	35 118 348	$\begin{array}{c} 33,705\\ 1,245\\ 21,360\end{array}$	220	145	205 205 1,635 1,635 12,315	277 10 320 320 321 304 27,478	685
in the M	ź	Down.	91 348 348	880 573 21,340	160	130		992 101 102	300
sported c	101	Up	33	32,825 672	99	91	307 370 902 4	165 304 26,928	385
icle tran	United tes to an Ports.	Down.		21,360			e1		
ch Arti in 1909	From Star	Up.	_	29					
y of ea gation i	United to United Ports.	Down.							
Juantit f Navi	From States (	Cp.							
g the ( eason o	Canadian to d States orts.	Down.							
showin S	From C Unites PC	U.P.						6	
TNSING	Anadian o n Ports,	Down.	225	88	99 190	130	022 25 683 3.072 3.072	277 101 150 556	300
AL STAT	From C t Canadia	up.	8.6	32,825	29	15	207 370 952 4 9.241	165 100 26,928	386
TABLE 7 (No. 10)GENER	Articles.		Agricultural imploments All othor animal Barley	Cond. hard Cond. hard Coal, more Coal, more Coal.	Corn Dressed mette	Flour Fruits and vegotables	Indee and feature. Household gouds. Fron and stoel, all other fron and stoel, all other Merchandiso.	0.0446. Other unll products. Other packing house products Outler woods. Ory, all other	Peace Petroleum Poultry, game and fish
#### CANAL STATISTICS

#### SESSIONAL PAPER No. 20a

1	00 01 0	22		4 23,037
*	15	36	80	79,25
45	318 2 2 30	340	890 800	102,291
35		100	300	29,179
10	318 30 30	240	30	73.112
				21,935
				672
10000	2			
9	3			÷
0	2010	× *		1,2,
	= ~?	5 8	C3	72,03
tatoes. Upwood	ingles uared timber	heat and sait	ool	Total freight.

	igin argo.	United States.	poor	
	o je	Canadian.	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	878 112 112
	Total Tons.		2,853 2,853 100 100 100 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,857 11,957 11,957 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157 11,157	878 878 112
		Down.	2,1720 9,2941 10 10 10 10 10 10 10 10 10 1	170
	Ton	Up.	1194 1194 1194 1196 1196 1196 1196 1196	708
	om I States o adian rts.	Down.		
n 1909.	Fr United Can Po	U.b.	8, 1922 687 687	
gation i	om 1 States 1 States rts.	Down.		
f Navi	Fr United United Po	Up.		
eason o	om odian States rts.	Down.		
100	Fr Can t United Po	Up.	57 S	10
	om odian vdian rts.	Down.	9,7290 9,7290 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,24	170
	Can Can Can Po	Up.	1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189 1,189	885 1988
	Articles.		Affrequencies in the second se	Pease Petroleum Poultry, game and fish.

TABLE 7 (No. 11).--GENRAL STATEMENT showing the quantity of each Article transported on the Ottawa Canals during the

DEPARTMENT OF RAILWAYS AND CANALS

10-11 EDWARD VII., A. 1911

74

1,139 778 778 778 788 438 4382 4382 4382 1,019 1,019	331,104 5,335
$1,139\\778\\778\\778\\197,040\\429\\429\\1,202\\4,202\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\1,013\\$	336,939
175 175 175 175 175 175 175 175 175 175	282, 183
807 803 360 280 4, 197 4, 197 995	54,456
	5,176
	333
	150 42,
64,637 175 489 489 489 489 489 489 489 489 489 489	40,150
807 808 860 860 1112 940 940	49,131 2
d umber tinber al salt	Total freight.
Potatoe Pulpwoe Rye Sawed 1 Shingles Squared Wheat a Wines, 1 Wines, 1	

and an annual second second second													
Articles.	For Can Per Per	rom adian to adian uts.	Fr Can: United	un Mian o Fts.	Pr United United Po	com 1 States 20 1 States arts.	Fr United t Pour Pour	om I States o rts.	T.a.	ž	Total Total	0 Jo	igin arg.o.
	Uh	Down.	Up.	Down.	U.b.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
taural implements. er animal	188 514	79 30 30 30							188 514	91 888 30	285 1,402 301,1	285 204.1 206.	
, britles, &c. ad fil. fil. meats	5,767 189 1,371 12 2 13 13	11,895 157 26 50					1,787	04	10,767 1,876 1,371 1,371 1,371 1,371 1,371	11,895 7,471 4,815 100	27,602 9,447 6,186 12 12 102 186	27,66 202 1,377 11 13 18	9,24 4,80
nd vegetables and leather old goods	1,322 1,322 1,322 1,322 84	243 152 152 22 116					9		1,322 1,322 54 34	248 152 116 116	310 244 1.474 1.474 1.474 510	188 <u>7</u>	-
d steel, all other ook. mill products acking house products. voods	1,081 6 5,078 30 30 30 4,844 4,844 833	56 108 108 108 108 108 108 108 108 108 108	-2					ri	1,081 5,078 30 30 30 30 30 30 30 30 30 30 30 30 30	2772 2772 108 108 108 108 108 108 108 108	1,172 1,172 1,307 1,307 1,307 1,307 1,309 1,309 1,309 1,309 1,309	228 28 28 28 28 28 28 28 28 28 28 28 28	
pper		01								01 -	12	- C1 + 4	

TABLE 7 (No. 12).--GENERAL NEXTEMENT showing the Quantity of each Article transported on the Rideau Canal during the Sesson

10-11 EDWARD VIL. A. 1911

SES	SSI	0N	AL	РА	PE	R 1	۷o.	20a
								14,13
210	805	1,710	18,931	253	3,639	821 668	17	77,643
710	205	1,710	18,931	253	3,639	821 668	17	91,774
261	26	1,626	10,992	75	358	208	16	45,433
149	179	84	7,939	178	3,281	110	-	46,341
			3					12,148
								1,827
			252					252
			324	:				394
261	26	1,626	10,737	2.	358	212	16	33,033
449	179	84	7,615	178	3,281	15	-	44,120
	nsh					beers		ht
oleum	itry, game and	poowe	ed lumber	igles.	ar and salt	es, liquors and	ollo	Total freig
Pet	Pot	Parl	Saw	Shin	Sug	AN Ni	Ň	

#### CANAL STATISTICS

			õ	BISOL OI	BINBN	III HODA	1909.	I,					
.Articles,	Fr Cana to Pos	dian dian dian ts.	Fre Cana to United Por	m dain States ts.	Fro United Vnited Por	States States ts.	United Canac Por	Brates Itan ts.	Tor	ż	Total Tons.	of Ca	rgo.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements All other animal Barley	-24	28							*3*	5.3	67.87	9.22	
Buckwheat. Centent, bricks, &c Coal, bard	720 75 75	224							527 57 42	- 21 <sup>27</sup>	5F 19 192	191	
Coke Gorn Dressed meats												1	
Flax Flour Fruits and vegetables	70	21							77	12	5	-3 es	
Hay Hides and leather Dunshold goods	5 <u>9</u>	8							12	ίλ;	5 5	21 	
tron and steel, all other Live stock. Merchandise Oats	45 19 19	14 13 336							45 159 19	14 338	14 58 973 19	11 82 <b>6</b> 1	
Other mill products. Other packing house products. Other woods. Ore, all other	18,179 13,179 4	29 14,972 1,714							16 42 13.179 4	29 14,972 1,714	45 42 28,151 1,718	45 42 1,718 1,718	
Pease Pease Potroleum	11 64 15								11		11 19	11 64 19	
Potatore	167								191	1	168	168	

TABLE 7 (No. 13).--GENERAL STATEMENT Showing the Quantity of each Article transported on the Trent Valley Canals during the

10-11 EDWARD VII., A. 1911

78

19,391 5,745 5,745 1,479 1,479 1,479 1,479 1,479 1,60 2,00 2,00 2,00 2,00 2,00 2,00 2,00 2	59,952
19,591 5,742 1,475 1,475 11,475 116 556 118 128 258 258 258 258 258 258 258 258 258 2	59,952
19,052 4,701 848 2 2 2	42,123
538 1,044 631 631 631 631 14 559 631 14 631	17,819
19,052 4,701 8,48 2,20 2,20 2,20 2,20 2,20 2,20 2,20 2,2	42,133
822 140-11 181 182 190 190 190 190 190 190 190 190 190 190	17,819
in the second se	A OWA TFORMUL.

## CANAL STATISTICS

79

## 10-11 EDWARD VII., A. 1911

## TABLE 8 .- STATEMENT showing the Classified Tonnage of all kinds of Vessels passed

#### SAULT STE.

			Casa	Dias.			
Class.	Steam Vessels.	No.	Tonnage.	Class.	Sailing Vessels.	No.	Tonnage.
1 2 3 4 5 6	5,000 to 5,142 tons. 4,000 = 5,000 =	1 2 6 57 61 128	5,142 4,361 6,775 17,333 75.254 20,278 129,143	1 2 3 4 5 6	5,000 to tons. 4,000 = 5,000 =	4	3,244

#### WELLAND

$     \begin{array}{c}       1 \\       2 \\       3 \\       4 \\       5 \\       6     \end{array} $	250 to 1,579 200 249 150 199 100 149 50 99 Under 50	tons # #		. 66 . 2 . 4 . 4 . 4 . 15	61,058 430 075 450 460 625	1 2 3 4 5 6	250 to 989 200 : 249 150 : 199 100 : 149 50 : 99 Under 50	tons	14 3 4 6 1 1	7,585 675 670 600 50 15
	Total .			. 91	00,000		Total		23	9,090

#### ST. LAWRENCE

1 2 3 4 5 6	250 to 1 200 " 150 " 100 n 50 " Under	,597 249 199 149 99 50	tons		46 7 10 22 36	48,242 1,520 1,145 1,185 1,625 706	-1 2 3 4 5 6	250 to 200 " 150 " 100 " 50 "	1,184 249 199 149 99 r 50	tons		79 7 59 87 64 6	33,141 1,475 9,605 10,525 5,055 255
	Tot	al.			128	54,423		т	'otal .		 	302	60,056

## RIDEAU, OTTAWA AND

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
-------------------------------------------------------	------------------------------------------------------

through the following Canals during the Season of Navigation in 1909.

#### MARIE CANAL.

				UNITED	STATE	×		
Class	Steam	Vessels.	No.	Tonnage.	Class.	Sailing Vessels.	No.	Tonnage.
123456	5,000 to 6,498 to 4,000 = 5,000 3,000 = 4,000 2,000 = 3,000 1,000 = 2,000 Under 1,000 Total	ons	50 77 137 45 59 51 419	270,666 308,184 464,262 123,158 96,016 19,905 1,282,191	1 2 3 4 5 6	5,000 to tons 4,000 = 4,725 = 3,000 = 4,600 = 2,000 = 3,000 = 1,000 = 2,000 = Under 1,000 =	3 6 6 5 6 26	13,83 19,540 14,965 7,14 3,348 58,837

CANAL.

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	123456	250 to 1 200 " 150 " 100 " 50 " Under	,673 249 199 149 99 50	tons "		55 2 1 9 17 84	49,912 340 120 750 420 51,542	123456	250 to 200 :: 150 :: 100 :: 50 :: Under	1,310 249 199 149 99 50	tons "" "				10 1 1 4 1 17	1,92 20 16 29 3 2,61
-------------------------------------------------------	--------	------------------------------------------------------	---------------------------------------	-----------	--	-------------------------------	----------------------------------------------	--------	--------------------------------------------------------	----------------------------------------	-----------------	--	--	--	------------------------------	-------------------------------------

CANALS.

$     \begin{array}{c}       1 \\       2 \\       3 \\       4 \\       5 \\       6     \end{array} $	250 to 200 = 150 = 100 = 50 = Under	1,609 249 199 149 99 50	tons				29 1 3 4	24,552 135 235 88 25,010	123456	250 200 150 100 50 Un	to "" "	796 249 199 149 99 50	ton:	8					10 41 88 3 142	5,256 4,430 8,240 63 17,989
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CHAMBLY CANALS.

123456	250 to tons 200 - 249 - 150 - 200 - 100 - 149 - 50 - 99 - Under 50 - Total		9 <u>174</u> 9 <u>174</u>	1 250 to 2 206 = 2 3 150 = 2 4 100 = 1 5 50 = 6 Under Tot	tons 49 "	9 1,410 440 45,905 199 18,630 2 23 650 65,968
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# 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	81
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	11
River St. Lawrence	10
5. Rapide Plat canal	33
River St. Lawrence	4
6. Galops canal	73
River St. Lawrence and Lake Ontario	236
7. Welland canal	$26_{4}^{3}$
Lake Erie, Detroit river, Lake St. Clair, Lake Huron, &c.	580
8. Sault Ste. Marie canal	11
Lake Superior to Port Arthur	266
-	
Total	1,22377
=	
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.

 St. Peter's canal. 20a—6<sup>1</sup>/<sub>2</sub>

## RIVER ST. LAWRENCE AND LAKES.

The River St. Lawrence with the system of canals established on its course above Montreal, and the Lakes Ontario, Eric, 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 denth of 274 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 buoved.

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, Rayide Plat, Galopa, Murray, Welland and Sault Ste. Marie. Their aggregate length is 73 miles; total lockage (or height directly overcome by locks), 551 fect. 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 ernal 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 Montreel and Lake Eric 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 limitar loc 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
44	completed	1825
First enlargement	commenced	1843
44	completed	1848
Second enlargement	commenced	1873
16	completed	1901
Length of canal	-	81 statute miles.
Number of locks		5
Dimensions of locks	·	270 feet by 45 feet
Total rise of lockag	e	45 feet.
Depth of water )at	two locks	18 "
on sills. (at	three locks	14 "
Average width of ne	ew 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 half lift.	4
Number of locks 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 are 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.

1844	
1847	
1897	
1900	
11 statute miles.	
6	
270 feet by 75 feet.	
48 feet.	
14 "	
100 "	
164 "	
	1844 1847 1897 1900 11 statute miles. 6 270 feet by 75 feet. 48 feet. 14 " 100 " 164 "

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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 323 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	
Number of locks 1	
New lock	45 feet
Old lock 200 "	
Total rise or lockages 33 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	

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 fect	1844
" opened	1847
Enlargement commenced	1884
" completed	1897
Length of canal	
Number of locks 2	
Dimensions of locks 270 feet by 4	5 feet.
Total rise in lockage 111 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 10j miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

#### CANAL STATISTICS

#### GALOPS CANAL.

First commenced, 9 feet	1844
Opened	1846
Enlargement commenced	1888
" completed	1903
Length of canal	73 miles.
Number of locks	3
Dimensions of looks Jone of which is	2-270 by 45.
bimensions of locks.   a guard lock.	1-800 by 45
Total rise of lockage	151 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 41 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	51 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	271 miles	263 miles
Pairs of guard-gates (formerly 3) .		2
N	. 26	25
Number of locks   guard	. 1	1
Dimensions	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	270 feet x 45 feet.
Total rise or lockage	3264 feet	3261 feet.
Depth of water on sills	., 101 "	14 "
Construction commenced, 10 feet 3 in	nches	1824
" Completed		1833
Enlargement commenced, 14 feet		1872
" completed		1887

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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	44
Number of locks-one at Aqueduct and one at Port		
Robinson	2	
Dimensions of locks	150	by 261 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 261 feet. 1 of 200 by 45 feet.
Total rise or lockage Depth of water on sills	7 to 8 feet. 9 feet.

#### PORT WELLAND BRANCH.

Length of c	anal		 	 	1% n	ailes.	
Number of	locks		 	 	1		
Dimensions	of locks		 	 	185 f	eet by 45	feet.
Total rise o	r lockag	e	 	 	71 f	eet.	
Depth of w	ater on a	sills	 	 	11	~	
CT11				 			

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, 11ª 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 iver, gives communication an 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 245§ miles.

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

Ottawa River Canals.

The Ste. Anne's lock. Carillon canal. Grenville 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.	Interme- diate Distance.	Total Distance, from Montreal.
	Miles.	Miles.
The Lachine canal	81	
From Lachine to Ste. Anne's lock	15	23
Ste, Anne's lock to Carillon canal	27	50
The Carillon canal.	2	51
The Grenville canal	51	63
From the Grenville canal to entrance of Rideau navigation	56	119
Rideau navigation ending at Kingston	1264	245

## STE. ANNE'S LOCK.

Construction commenced	1814.
" completed	1816
Rebuilt of wood	1833
" in masonry	1843.
Old Lock.	New Lock.
Length of canal 1 mile.	‡ mile.
Number of locks 1	1
Dimensions of locks 190 x 45 feet.	200 x 45 feet.
Total rise or lockage	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, 28½ miles from Montreal harbour.

## THE CARILLON CANAL.

	Construction commenced	1819
	" completed	1833
	Enlargement commenced	1871
	" completed	1887
	Length of canal	3 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 "
is	canal overcomes the Carillon ranids.	

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.	53 miles.
Number of locks	5
Dimensions of locks	200 x 45 feet.
Total rise or lockage	433 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
£4.	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	126‡ miles.
	35 ascending.
Number of locks going from Ottawa to Kingston.	14 descending.
Total lockage	at high water.
Dimensions of locks	134 x 33 feet.
Depth of water on sills	5 feet.
Navigation depth through the several reaches	41 "
	60 feet in earth.
Breadth of canal reaches at bottom	54 feet in rock.
Broadth of canal at surface of water	80 feet in earth.

Th

#### PERTII 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 "
D 14 C 1 C C	40 " in rock.
Breadth of canal at surface of water	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 Ridcau 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.

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.	Interme- diate Distance.	Total Distances.
Serel to Nt. Ours lock Ch. Ours lock to Chambly enail. Chambly canal to boundary line. Boundary line to Champlan canal. Boundary line to Champlan canal. Frie canal, from junction to Allany. Allany to New York.	Miles. 14 32 12 23 111 66 7 146	M (les. 14 46 58 81 192 258 265 411

### ST. OURS LOCK DAM.

Construction commenced	1844
" completed	1849
Length	ł 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 4

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 221 to
" " 3, 4, 5, 6	118 " 24 feet wide.
" " 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 Outario 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 Treat, Rice lake, the River Otonabee and Lakes Clear, Stony, Lovesick, Deech, Buckhorn, Chemong, Figeon, Sturgeon and Cameron to Lake Balasm, the summit water, about 165 miles from Trenton; from Lake Balasm by a canal and the River Tablot to Lake Simoce: thence by the River Severn to Georgina hay, 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	19 <del>1</del>	
	Percy landing to Heeley's Falls dam		141
	Heeley's Falls dam to Peterborough	$51\frac{3}{4}$	
	Peterborough to Lakefield	-	91
	Lakefield to a point across Balsam lake	61	_
		$132\frac{1}{4}$	33
Total	distance, Bay of Quinté to a point across Balsam	lake	$165\frac{1}{2}$
From	Stungton paint on Stungton Joko 193 miles from	Tales	

field, the branch through the town of Lindsay to Port

Perry at the head of Lake Scugog.....

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

At Lakefield, 9<sup>±</sup> 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 24 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 onefourth of a mile long.

At Bobcaygeon, 15% 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.

<b>2</b>	Locks :	at Fenelon	134 x 33 x 5 0" to 7 6	" depth water on	mitre si.
1	66	Lindsay	134' x 33' x 5' 0" to 7' 6	ee 66	61
1	66	Bobcaygeon	134' x 33' x 5' 8" to 7' 0	er (1	66
1	**	Buckhorn	134'x 33'x 5'0" to 9'0	pr 60	66
1	**	Lovesick	134' x 33' x 5' 0" to 9' 4	<i>**</i> ¢¢	66
2	-	Burleigh	134' x 33' x 6' 0" to 8' 0	pp 66	66
1	64	Young's point.	134' x 33' x 5' 0" to 14' 0	p# 65	66
1	.:	Peterborough .	134' x 33' x 5' 0" to 10' 0	pr cc	66
1	55	Hastings	134' x 33' x 7' 0" to 10' 6	<i>an</i>	46
ī.	66	Chisholms	134' x 33' x 5' 0" to 8' 6	77 1.	

#### 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 fect.	
Depth of water on sills	
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	niles.
Number of locks 9	
Dimensions of locks 200 feet by	45 feet.
fotal rise or lockage	
Depth of water on sills 9 "	
Breadth of canal at bottom S0 "	
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 1780
	SPLIT ROCK CANAL.	
Construction "	commenced.	1779 1780
	CASCADE POINT CANAL.	

Construction	commenced.					-								1782
44	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 1832
	DESJARDINS CANAL.	
Construction "	commenced	1826 1837

Neither of these canals required locks. They have for many years been abandoned. The depth of water provided in the first instance was 72 feet.