DEPARTMENT OF RAILWAYS AND CANALS

CANAL STATISTICS

FOR THE

SEASON OF NAVIGATION

1909

PRINTED BY ORDER OF PARLIAMENT



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

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

MAY IT PLEASE YOUR EXCELLENCY,-

The undersigned has the honour to present to Your Excellency the report on Canal Statistics for the year ended December 31, 1909.

GEO. P. GRAHAM,

Minister of Railways and Canals.

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

SIR,—I have the honour to submit the annual report of the Comptroller of Statistics in relation to the operations of the Canals of the Dominion for the year ended December 31, 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 COMPTROLLER 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 railways 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 east-bound; while 5,744,349 were entered as up, or westbound. There was for the year an increase of 14,739,171 tons in the former, and of 1.478,757 tons 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. St. Lawrence. Chambly. St. Peter's. Murray Ottawa. Rideau. Trent.	12,759,216 1,703,453 2,009,102 503,276 72,015 25,901 258,527 89,640 81,690	$\begin{array}{c} 27,861,245 \\ 2,025,951 \\ 2,410,629 \\ 752,117 \\ 79,850 \\ 102,291 \\ 336,939 \\ 91,774 \\ 59,952 \end{array}$	15,102,029 322,498 401,527 248,841 7,835 76,390 78,412 2,134

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:—

1900	5,013,693 t	tons.
1901	5,665,259	11
1902	.,,	11
1903	9,203,817	11
1904	8,256,236	tt -
1905	9,371,744	tt
1906	10,523,185	11
1907	20,543,639	11
1908	17,502,820	tt
1909	33,720,748	11

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

STATEMENT of total Freight passed through the Canals for the following years:—

Years.	FROM CANADIAN TO CANADIAN PORTS.		FROM CANADIAN TO UNITED STATES PORTS.		FROM UNITED STATES TO UNITED STATES PORTS.		FROM UNITED STATES TO CANADIAN PORTS.		Tons.		Total Tons.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up and down.	
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.				
1887 1888 1889 1890 1891 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909	336,648 355,165 384,777 369,593 370,120 327,560 351,706 299,155 264,824 293,353 275,587 263,989 296,208 312,201 340,805 529,085 648,150 606,737 736,976 1,238,929 1,034,733 1,028,246 1,674,283	1,154,424 1,146,260 1,156,306 1,137,011 1,155,247 1,322,137 1,344,822 1,140,606 1,070,046 1,619,668 1,713,274 1,819,887 1,833,412 1,632,915 1,686,094 2,047,499 2,252,514 2,355,855 3,162,158 3,292,422 3,439,225	138,692 138,127 122,295 144,368 103,814 173,538 214,076 204,175 286,191 259,659 268,700 187,253 266,364 270,033 268,449 308,212 430,174 511,887 549,365 627,094 891,692 560,736 1,060,715	202,563 174,239 198,497 133,188 123,193 135,787 141,602 89,614 91,177 100,519 187,960 98,967 115,133 81,714 201,231 342,484 408,500 276,578 347,089 234,919 226,138 278,721 667,894	151,805 214,407 267,224 216,813 248,188 241,034 247,329 231,172 362,637 1,197,245 669,142 829,508 732,030 568,197 507,204 515,828 863,337 699,784 607,228 991,508 1,991,959 1,704,310 1,985,522	192,528 223,429 300,193 320,324 307,958 302,983 385,769 363,107 608,778 3,536,054 4,369,314 2,425,121 2,129,988 1,339,915 1,801,696 3,000,636 3,130,816 2,778,903 3,183,895 3,595,256 11,060,878 8,212,866 22,385,226	86,374 81,611 81,243 58,709 50,747 47,396 54,912 46,020 62,285 117,535 108,787 81,615 125,678 105,155 177,715 190,243 373,456 483,795 577,528 482,239 819,369 972,300 1,023,829	457,482 428,357 603,311 533,021 543,259 481,301 806,773 568,866 590,140 867,040 968,203 912,135 727,111 703,563 682,065 562,229 958,018 851,053 1,137,146 997,385 1,356,712 1,447,219 1,544,054	713,519 789,310 855,529 789,505 772,869 789,528 868,023 780,522 975,937 1,867,792 1,322,216 1,362,365 1,420,280 1,255,586 1,294,173 1,543,368 2,315,117 2,302,203 2,451,097 3,339,770 4,737,753 4,265,592 5,744,349	2,006,997 1,972,287 2,258,367 2,123,542 2,129,657 2,242,208 2,678,966 2,162,193 2,360,141 6,123,281 7,238,751 5,256,110 4,805,644 3,758,107 4,371,086 5,969,829 6,888,700 5,954,033 6,920,647 7,183,415 15,805,886 13,237,228 27,976,399	2,720,516 2,761,597 3 113,896 2 913,047 2,902,526 3,031,736 3,546,989 2,942,715 *3,336,078 7,991,073 8,560,967 6,618,475 6,225,924 5,013,693 5,665,259 7,513,197 9,203,817 8,256,236 9,371,744 10,523,185 20,543,639 17,502,820 33,720,748	

^{*} Sault Ste. Marie canal opened in August, 1895.

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

	,			1		1		<u> </u>				
Years.	From CA	O.	ТО		то		FROM UNITED STATES TO CANADIAN PORTS.		Tons.		TOTAL TONS.	Number of Vessels.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up & down.	v esseis.
387 388 389 390 391 392 393 394 595 596 596 597 598 599 900 901 902 903 904 905 906 907 908 909	1,201,529 1,113,290 1,285,574 1,314,127 1,356,518 1,517,249 1,548,094 1,319,792 1,258,848 1,547,757 1,629,192 1,704,661 1,865,643 1,767,293 1,615,952 1,914,167 2,061,258 1,838,260 2,059,097 2,271,776 2,561,948 2,726,776 3,335,187	1,194,665 1,120,774 1,207,892 1,250,999 1,287,168 1,460,505 1,422,326 1,260,907 1,165,683 1,420,342 1,482,951 1,609,255 1,774,789 1,681,340 1,587,221 1,840,782 2,088,969 1,907,886 2,031,766 2,264,476 2,661,317 2,748,139 2,992,403	162,554 158,209 188,131 229,478 201,758 177,136 170,186 217,635 253,693 200,292 215,785 215,785 215,393 242,817 265,926 279,007 241,356 340,383 299,245 312,773 292,705 337,822 318,327 300,320	36,277 34,368 39,371 32,909 28,642 29,184 26,787 19,298 13,383 5,234 11,378 4,927 32,436 14,922 82,541 97,492 143,614 159,740 188,138 155,595 129,246 227,315 217,989	1,071 1,252 976 929 550 1,466 1,172 2,177 157 499 925 2,909 3,300 1,874 7,018 5,175 11,820 24,420 9,153 5,057 82,591	802 351 292 394 10 5 518 3,691 64 2,908 2,164 3,082 4,223 3,191 5,506 7,331 7,844 111,236	30,778 22,553 20,271 14,003 16,350 14,659 17,037 6,394 5,899 4,115 3,533 6,805 42,290 38,015 97,332 101,335 188,896 237,910 262,401 202,276 238,172 348,944 257,945	221,013 189,876 252,565 2996,676 244,176 201,374 248,442 222,696 285,553 271,809 297,898 255,927 345,980 358,781 312,003 286,520 379,612 319,661 322,005 309,567 383,922 398,387 513,907	1,395,932 1,295,304 1,494,952 1,558,537 1,575,176 1,710,510 1,736,489 1,545,998 1,518,440 1,752,321 1,848,510 1,927,358 2,151,675 2,074,143 1,995,591 2,258,732 2,597,555 2,380,590 2,646,091 2,791,177 3,147,095 3,399,104 3,976,043	1,452,020 1,345,018 1,500,630 1,580,935 1,560,278 1,691,455 1,697,565 1,502,906 1,464,619 1,697,385 1,792,227 1,870,627 2,156,896 2,055,107 1,984,673 2,226,963 2,615,277 2,331,510 2,545,100 2,735,144 3,181,816 3,381,685 3,835,535	$\begin{bmatrix} 5,212,832\\4,772,100\\5,191,191\\5,526,321\\6,328,911\\6,780,789 \end{bmatrix}$	18,991 17,661 19,393 20,655 19,246 21,177 20,757 19,027 17,136 20,972 21,466 21,503 23,576 21,755 20,866 22,198 23,767 21,851 23,726 25,498 28,833 29,046 22,500

STATEMENT of the Tonnage of Canadian and United States Vessels, for the following years:— UNITED STATES VESSELS.

FROM CANADIAN FROM CANADIAN FROM UNITED STATES FROM UNITED STATES TOTAL TO Tons. Number CANADIAN PORTS. UNITED STATES PORTS. Tons. UNITED STATES PORTS. CANADIAN PORTS. 0 YEARS. Vessels. Up. Down. Up. Up. Down. Down. Up. Up. Down. Down. Up & Down, 1887.... 16,265 17,925 38,857 56,708 143,730 140,562 52,793 98.840 251,645 315,035 566,680 3,883 1888..... 14,304 26,801 42,425 50,047 177,714 156,095 49,778 114,613 284,221 347,556 631,777 3,921 1889.... 21,125 26,449 55,996 50,732 253,088 206,567 56,249 160,442 386,458 444,190 830,648 4,542 1890.... 10,390 16,345 36,397 38,156 248,418 234,728 39,697 97,266 336,661 384,736 721,397 838,116 3,364 29,851 29,405 1891..... 10,357 70,665 27,727 283,013 238,818 31,083 146,602 395,118 442,998 3,602 1892.... 88,221 214,047 12,023 37,037 22,763 280,315 229,437 172,594 417,596 454,199 871,795 3,928 1893..... 10,752 34,303 33,741 351,994 282,724 50,994 627,787 498,216 307,740 658,508 1,286,295 4,585 30,201 24,768 19,093 1894.... 18,528 139,720 20,830 302,562 269,788 37,406 192,992 513,811 444,752 1,012,027 886,679 4,131 1895.... 8,838 138,554 17,712 262,240 216,542 32,295 185,730 441,927 4,427 1896.... 11,496 195,228 357,205 21,953 292,359 40,416 290,370 604,345 623,775 1,228,120 4,650 1897.... 14,666 18,367 269,430 338,938 17,618 277,345 26,341 347,698 649,375 661,028 1,310,403 4,675 1898.... 12,142 9,541 233,524 32,880 308,878 305,464 32,331 586,875 336,004 1,270,764 683,889 4,264 1899.... 17,217 18,044 17,824 18,706 172,897 30,002 1,605,887 1,156,503 234,336 51,902 1,846,848 1,438,885 3,285,733 6,101 1900..... 13,316 157,689 30,443 1,208,725 744,276 45,741 190,971 1,425,471 983,514 2,408,985 2,482,274 5,502 1901.... 11,587 177,169 922,464 28,124 1,044,707 54,895 224,622 1,166,115 1,316,159 5,634 1902.... 13,622 37,871 187,826 70,641 1,756,948 1,654,672 123,257 241,602 2,081,653 2,004,786 4,086,439 6,433 1903.... 14,014 24,168 265,208 65,247 1,689,414 1,475,085 1,736,187 106,401 335,836 4,236,475 3,655,905 5,096,241 2,121,810 2,114,665 6,695 1904..... 10,122 16,890 275,721 39,993 1,464,316 68,081 1,818,240 2,836,758 305,697 1,837,665 6,253 1905.... 19,743 19,444 364,985 81,876 1,701,704 2,350,494 101,536 456,459 2,259,483 7,085 7,319 1906..... 34,306 57,349 15,324 356,259 78,561 2,738,623 1,928,131 115,675 418,436 3,244,863 2,440,452 5,685,315 1907.... 72,018 304,591 72,048 4,730,053 5,376,060 205,769 623,941 5,463,767 6,141,067 11,604,834 9,328 1908 54,587 32,705 442,773 124,120 2,975,624 4,142,392 218,835 536,103 3,685,819 4,835,320 8,521,139 7,489 1909..... 263,592 109,407 442,176 4,178,378 200,202 10,429,314 213,750 621,903 5,098,196 11,361,126 9,996 16,459,322

10-11 EDWARD VII., A. 1911

It will be observed that while 9,996 United States vessels carried 16,459,322 tons through the canals of Canada in 1909, 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 craft 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.
	\$ cts.	\$ cts.	\$ cts.
St. Peter's. Lachine Beauharnois. St. Lawrence River and Canals. Lake St. Louis. Lake St. Francis Cornwall. Williamsburg Farran's Point Galops. Rapid Plat Williamsburg. Welland. Ste. Anne's *Carillon and Grenville Culbute Rideau Saint Ours Chambly Murray Trent Tay Saut Ste. Marie. Soulanges.	1,320,655 54 7,693,824 03 134,456 51 63,053 64 382,776 46 4,085,889 21 121,537 65 637,214 66 1,248,946 71 6,873,501 00 489,599 23 4,821,723 47	9,570,566 95 3,415,023 38 298,176 11 75,906 71 5,289,052 87 877,090 57 6,118,927 32 2,158,242 00 10,696 26 20,644,791 99 1,035,759 12 4,119,039 32	$ \begin{array}{c} 648,547 \ 14 \\ 12,160,099 \ 80 \\ 1,636,690 \ 26 \\ 3,433,466 \ 23 \\ 298,176 \ 11 \\ 75,906 \ 71 \\ 7,234,677 \ 60 \\ \end{array} \\ \begin{array}{c} 10,485,611 \ 69 \\ 28,338,616 \ 02 \\ 1,170,215 \ 63 \\ 4,182,092 \ 96 \\ 382,776 \ 46 \\ 4,085,889 \ 21 \\ 121,537 \ 65 \\ 650,521 \ 68 \\ 1,248,946 \ 71 \\ 6,873,501 \ 09 \\ 489,599 \ 23 \\ 4,821,723 \ 47 \\ 6,973,113 \ 38 \\ \end{array} $
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 MOS	NTREAL.	To Ports in Ontario.	Quantity from U.S. Ports to U.S. Ports.
	Tons.	Tons.	Tons.
82	180,694	40.000	63,881 121,876
83	186,814	10,650	
84	142,194	12,153	104,537
85	96,569	11,909	117,346
86	203,940	9,881	151,551
87	185,034	11,838	134,868
88	160,358	25,599	169,664
89	267,769	19,075	213,766
90	288,513	16,899	245,932
91	(295,509	6,805	202,710
92	261,954	8,942	201,540
93	501,806	25,555	222,958
94	273,651	16,699	203,979
95	231,491	32,096	133,823
96	461,049	73,386	160,372
97	* \ 560,254	53,257	157,756
98	519,532	31,279	144,612
99	332,746	40,197	68,011
00	244,661	17,525	84,589
01	151,566	13,732	83,370
02	208,215	22,787	81,164
03	351,936	29,062	111,828
04	198,246	23,711	102,523
05	341,431	42,061	129,270
06	404,935	33,351	176,119
007	635,573	42,032	163,295
08	756,141	38,142	135,172
009	652,742	40.238	129,587

^{*} Of the quantity of grain passed down to Montreal there were transhipped at Ogdensburg, in 1891, 17,817 tons; in 1892, 4,341 tons; in 1893, 71,445 tons; in 1894, 23,030 tons; in 1895, 18,987 tons; in 1896, 77,355 tons; in 1897, 89,659 tons; in 1898, 40,257 tons; in 1899, 48,828 tons; in 1900, 38,403 tons; in 1901, 17,387 tons; in 1902, 34,060 tons; in 1903, 40,641 tons; none in 1904, 1905, 1906, 1907 nor 1908.

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.

The quantity of barley, buckwheat, corn, oats, pease, rye and wheat, arrived at Montreal via Grand Trunk and Canadian Pacific Railways for a period of 13 years, is

reported as follows:-

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

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

		Tons.
For	1897	304,200
	1000	575.097
	1000	372,291
		295,928
	1001	203,316
		242,225
		00,057
	1001	,
	1905	220,076
	1905 3	375,630
	1007	49,673
	1907	84,697
	1000	76,374
	1909 6	52,742

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:—

For 1908	Tons. 756,141 652,742
Showing a decrease of.	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-

1895, 1896, 1897,	190	with an aggregate	quantity	 227,912
1898,	166	H H	11	
1899, 1900,		11	11	 221,306
1901,	112	11	11	
1902, 1903,	170	11	11	
1904, 1905,		11	11	 174,121
1906,	205	11	H	
1907, 1908,			11	 427,813
1909,		11	1)	

In the United States vessels there were in-

					Tons.
1894,	84	cargoes, with an	aggregate quantity	of	
1895,	56	"	II		
1896, 1	158	11	1)	********	
1897, 1	197	11	11		
1898, 3	339	n	"		
1899, 1	67	11	"		
1900, 2	259	11	11		
1901, 1	35	11	11		
1902, 1	35	113	11		
1903, 2	19	11	11		
1904, 1	18	-11	11		
1905, 2	35	11	11		
1906, 1	78	11			
1907, 2	63	11	11		
1908, 2		11	"		
1909,		11	11		
,					414,491

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

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

Articles.	1905.	1906.	1907.	1908.	1909.
	Bush.	Bush.	Bush.	Bush.	Bush.
Wheat	104,027			1,106,244	
Rye Oats Barley Flax Seed		29,118 2,103	30,824	23,940	

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 west-

ward.

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 1,335,023 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 728,346 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 MONTREAL AND PORTS ON LAKE ERIE, MICHIGAN, ETC.

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

	Eastward, to Montreal. Tons.	Westward, from Montreal. Tons.
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		3,472
1909	925,005	191,510

THROUGH FREIGHT FROM UNITED STATES PORTS TO UNITED STATES PORTS.

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

	Eastward. Tons.	Westward. Tons.	Total. Tons.
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.
867. 868. 869. 870.	5,405 6,157 6,069 7,356 7,729	933,260 1,161,821 1,231,903 1,311,956 1,478,122	458,386 641,711 688,700 747,567 772,756
Season of navigation.			
872. 873. 874. 875. 876. 877. 878. 878. 889. 880. 881. 882. 883. 884. 885. 886. 886. 887. 887. 888. 889. 889. 889. 889. 889	6,063 6,425 5,814 4,242 4,789 5,129 4,429 3,960 4,104 3,332 3,334 3,267 3,138 2,738 2,738 2,785 2,647 2,975 2,843 2,412 2,222 2,766 2,725 2,843 2,412 2,222 2,766 2,725 2,384 2,202 2,399 1,547 1,568 1,787 1,433 1,595 1,536 1,982 2,351	1,333,104 1,506,484 1,389,173 1,038,050 1,099,810 1,175,398 968,758 968,758 865,664 819,934 686,506 790,643 1,005,156 837,811 784,928 980,135 777,918 878,800 1,085,273 1,016,165 975,013 955,554 1,294,823 1,008,221 869,595 1,279,987 1,274,292 1,140,077 789,770 719,360 620,209 665,387 1,002,919 811,371 1,092,050 1,201,967 1,614,132 1,703,453	606,627 656,208 748,557 477,809 488,815 493,841 373,738 284,043 179,605 194,173 282,806 432,611 407,079 384,509 464,478 340,501 434,753 563,584 533,957 553,800 541,067 592,267 469,779 653,213 564,694 487,539 360,529 318,529 274,019 269,029 370,225 252,481 305,096 321,431 396,743 448,654

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.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Welland. St. Lawrence Chambly. Ottawa. Rideau St. Peters Murray. Trent Valley. Sault Ste. Marie	1,129 12,877 430 3,735 1,730 3,047 690 189 474	186,614 509,157 599,330 232,025 26,727 8,423 655 55,086 71,129	506,489 472,656 9,560 64,153 42,642 7,626 50,035 1,880 710,360	410,982 642,209 122,835 31,305 17,036 45,140 50,083 1,832 23,969,481	920,737 773,730 19,962 5,721 3,639 15,614 828 965 3,109,801	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	8,525 28,939,463 30,132,574 27,736 1,060,753 6,150,540 4,580,833 38,438,716 17,990,396 419,977 118,889 18,866,499 517,694,000	$17,839,674\\27,861,245\\32,810\\361,918\\2,435,781\\2,522,700\\74,401,000\\29,503,240\\209,433\\201,115,915\\3,323\\21,156,915\\34,309,300$	$\begin{array}{c} 13,571 \\ 46,779,137 \\ 57,993,619 \\ 60,546 \\ 1,422,671 \\ 8,586,321 \\ 7,103,533 \\ 112,839,716 \\ 47,493,636 \\ 572,892 \\ 651,091 \\ 127,212 \\ 40,023,414 \\ 552,003,300 \\ \\ \end{array}$	10,685 31,126,386 41,416,513 53,306 1,362,435 8,545,923 5,614,650 106,698,934 43,452,705 308,179 549,254 101,329 24,637,001 457,165,355	15,652,751 16,577,106 7,240 60,236 40,398 1,488,883 6,140,782 4,040,931 264,713 101,837 25,883 15,386,413 94,837,945	

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

1889	234	days	1900	238	days
1890			1901		"
1891	225	66	1902	256	66
1892	233	66	1903	249	66
1893		66	1904	223	66
1894	234	"	1905	245	66
1895	231	"	1906	249	66
1896	232	66	1907	233	66
1897	234	"	1908	231	66
1898	241	"	1909	236	66
1899	231	"			

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

1895	- 87	days	1903	256	days
1896			1904	241	"
1897	238	66	1905	255	66
1898	243	66	1906	253	66
1899	239	"	1907	238	•6
1900	238	66	1908	235	66
1901	246	"	1909	240	. 66
1902	264	66			

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

. 10-11 EDWARD VII., A. 1911 A—Table showing the total tonnage of the undermentioned articles moved Up and Down

	VEGETABLE FOOD.												
Year.	Flour.	lour. Wheat.		Corn. Barley.		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	51.3	8,677						
			103,749	35,751	3,383	917	6,337						
1875	13,964	253,835											
1876	15,778	201,906	144,501	18,455	24,496	1,454	3,198						
1877	13,558	253,953	169,196	19,870	2,810	2,439	2,355						
1878	9,121	191,982	185,931	10,979	3,088		2,302						
1879	10,710	274,570	144,506	4,655	1,239	440	2,444						
1880	12,679	242,020	163,738	17,772	477	1,016	1,480						
1881	9,959	127,832	101,075	24,509	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,844	2,086						
1882	12,261	215,056	54,799	20,126	611	3,226	403						
1883	13,471	152,794	182,269	10,436	731	1,642	10,983						
1884	13,683	144,851	118,811	7,155	10,746	1,320	9,168						
1885	13,334	124,206	117,536	15,801	1,116		1,912						
1886	19,474	154,169	219,442	1,595	4,911	564	14,657						
1887	23,949	221,927	114,938	9,574	12,050		12,533						
1888	16,983	160,963	194,886	5,906	26,629	811	13,608						
1889	7,931	126,664	353,595	4,272	28,356	2,673	18,552						
1890	14,461	118,002	327,394	10,830	27,728	1,549	20,876						
1891	13,517	198,658	185,180	8,113	52,959	65,888	28,042						
1892	17,046	232,019	192,548	6,433	37,173	9,392	32,815						
1893	15,235	258,392	441,092	18,599	31,283	3,671	36,981						
1894	33,628	270,993	169,233	28,353	27,962	567	60,673						
1895	44,044	203,088	164,894	8,689	18,236	1,007	46,463						
1896	42,425	320,563	320,444	11,368	28,178	9,405	56,591						
1897	9,065	324,743	390,615	14,173	25,161	8,483	44,674						
1898	5,578	207,647	437,861	12,286	17,502	16,127	23,182						
1899	11,625	197,732	204,004	2,907	24,037	923	18,460						
1900	10,968	137,800	163,509	4,035	41,055	3,538	14,815						
1901	18,978	151,586	67,756	7,119	28,485	2,961	14,024						
1902	22,282	225,171	67,647	7,418	11,232	4,079	12,963						
1903	25,998	259,031	210,758	14,656	7,911	4,904	13,994						
1904	35,049	165,138	116,444	27,171	16,582		13,184						
1905	38,512	254,458	180,921	55,432	36,072	1,711	9,883						
1906	18,294	326,798	211,805	31,446	49,306	1,784	10,739						
<u>4</u> 907	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.

SESSIONAL PAPER No. 20a through the Welland Canal, during a period of thirty-nine years, ended Dec. 31, 1909.

	Heavy Goods.												
Total.	Railway Iron.	Other Iron.	Salt.	Iron and Salt having paid full tolls on St. Lawrence Canals.	Coal.	Ores.	Total.						
Fons. 503,860	Tons. 46,806	Tons. 16,924	Tons. 91,575	Tons. 37,153	Tons. 103,126	Tons. 58,781	Tons. 275,62						
538,147	26,217	17,141	50,540	44,243	186,932	98,605	3,67						
579,880	6,923	20,754	40,850	17,157	339,016	118,685	43,38						
	6,032	12,068	23,309	9,579	323,503	56,825	431,31						
647,397				9,962	321,306	43,683	397,56						
417,936	1,517	7,588	13,509				378,54						
409,788	51	7,997	30,300	20,327	288,211	81,654							
464,181	9,630	9,696	9,173	3,983	323,869	42,758	399,10						
403,403	10	11,518	3,980	12,686	295,318	15,229	338,74						
438,564	2,782	5,797	7,174	17,796	192,957	19,164	245,67						
442,182	5,360	4,812	413	22,273	109,986	34,139	176,98						
269,395	4,585	7,013	10	30,682	128,113	18,785	189,18						
306,482	1,000	5,348	50	17,327	237,559	23,700	283,98						
373,326	1,237	7,922	66	17,037	307,058	31,785	365,10						
305,734	698	652	461	3,242	274,471	53,205	332,7						
273,905	78	2,055	597	14,243	248,272	26,728	291,9						
414,812	166	6,123	48	12,324	271,356	27,447	317,4						
394,971	1,351	5,636		6,715	145,193	13,866	172,7						
419,786	93	3,220	316	13,617	223,871	16,872	257,9						
542,043	47	2,479	1,254	20,269	268,305	2,435	294,7						
519,291		. 753	1,027	28,047	202,384	8,138	240,3						
367,177	127	1,610	2,567	7,953	224,644	3,415	240,3						
527,426	163	1,567	878	3,666	211,616	355	218,2						
805,253	6	2,075	374	8,139	233,096		243,6						
591,409		3,072	159	977	203,608		207,8						
486,421	185	6,245	54	2,819	158,866	1,140	169,3						
788,974	1,192	6,332	82	3,264	223,445	1,158	235,4						
816,914	7,206		227	590	176,226		201,2						
720,183	1,444	11,722	799	734	162,336	13,433	190,4						
459,688	567	6,361	1,282	1,318	97,732	26,125	133,3						
375,720		. 8,190	533		47,392	58,400	119,3						
290,909	83	6,094	327	8,773	49,480	99,487	164,2						
350,792	64	7,488		15,201	64,014	22,480	109,2						
537,252	488	5,407	2,554		147,884	18,323	220,5						
373,568	11,381	9,957	1,093	į daras ir d	113,525	39,683	179,8						
576,989	2,651		226		172,642	22,381	213,0						
650,172	3,747		100		147,587	5,862	181,9						
894,559	961		246		267,212	25,040	317,1						
975,672		. 35,726	429		316,921	18,004	371,0						
898,401		. 87,025			377,681	33,301	498,0						

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.

VEGETABLE FOOD.

				CDLE F(
Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles.	Total.
	Tons.	Tons.	Tons.	Tons.	-Tons.	Tons.	Tons.	Tons.
1869	44,110	310,090	119,541	3,920		680	1,541	479,882
1872	26,648	231,056	254,534	693	7,594	64	2,300	524,889
1873	30,660	345,720	180,042	643	1,188	3	3,557	563,813
1874	24,017	406,157	181,128	377	5,953		3,301	620,933
1875	13,930	248,555	103,477	813	3,383	500	4,304	374,962
1876	15,735	194,559	144,501	1,110	24,496	1,454	2,949	384,807
1877	13,588	248,894	169,185	10,216	2,810	2,405	1,833	448,93
1878	8,854	188,106	185,931	1,217	3,088		2,100	389,296
1879	10,588	271,545	114,276	803	1,196		2,387	430,798
1880	12,467	240,601	162,891		477	. ,	1,418	417,853
1881	9,655	121,393	103,075	252		6	1,371	235,752
1882	12,205	205,876	54,797	537		1,954	225	275,594
1883	13,256	146,741	182,143	975	731	518	10,971	355,335
1884	13,626	135,804	118,811	270	10,746	477	9,018	288,752
1885	13,322	114,090	117,536	618	1,116		1,628	248,310
1886	19,418	146,151	218,897		4,891		14,581	403,928
1887	23,940	210,755	114,938	1,711	12,050		12,149	375,543
888	16,973	150,833	194,886	555	26,629	811	13,358	404,04
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
.894	33,628	270,514	169,233	28,353	27,962		60,587	590,27
895	43,895	202,636	164,894	8,689	18,236		46,435	484,78
896	42,159	319,388	320,444	11,368	28,178	8,970	54,031	784,538
.897	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
899	11,625	197,732	204,004	2,424	23,541	923	18,440	458,689
900	10,968	137,800	163,509	3,449	40,256	3,538	14,802	374,322
901	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
907	22,689	488,565	271,693	13,240	73,369	2,270	22,683	894,509
1908	23,187	730,751	127,402	31,172	33,423	6,667	21,668	974,270
909	38,763	590,074	140,902	23,151	75,135	33	30,206	898,264

^{*} Fiscal. + Apples, meal all kinds, pease, potatoes.

	VEGETABLE FOOD.										HEAVY	Goods.		
YEARS.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	*Other articles.	Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores:	Total.
,	Tons.	Tens.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
69	30,681	211,085	91,149	2,942		667	1,006	337,530	68,064	14,334	89,086	28,566	35,912	235,962
72	10,482	124,695	89,761	1,391	7,400		608	234,337	24,040	13,239	49,843	95,741	59,401	224,264
73	10,805	127,727	101,329	1,920	1,188	3	392	243,366	4,659	13,826	40,507	170,242	62,942	292,176
74	8,230	229,053	125,627	1	5,948		5,368	374,226	5,742	8,941	22,888	203,673	19,651	260,893
75	1.881	113,832	54,188	2,641	2,946	500	1,920	177,908	14	4,123	12,931	192,767	34,616	244,451
76	5,187	96,247	58,138		1,905	525	403	162,405		5,531	29,395	167,110	25,808	227,84
77	3,342	107,396	65,260	1,603	2,314	258	413	180,586	8,976	8,688	8,336	172,868	41,107	239,977
78	1,316	65,542	60,026	859	277		341	128,361		10,713	3,892	150,583	13,535	178,723
79	159	53,791	33,401		464		11	87,826	2,405	3,648	6,318	118,573	17,797	148,741
80		30,611	16,122	1,551	296			48,580	4,743	3,515	371	65,945	18,380	92,954
81		34,320	30,031	924			10	65,285	1,313	5,570		83,858	6,464	97,20
82	107	30,227	32,433	537		684	14	64,002		4,076		158,552	14,533	177,161
83	2,041	54,382	66,128	735	731		8,579	132,496	1,209	6,901	8	196,462	24,891	229,471
84	1,715	40,956	53,707		9,874		8,170	114,422	698	599		210,790	15,100	227,187
885	124	53,235	63,229	732	882		1	118,203		1,594		198,416	15,029	215,039
886	7,591	53,258	94,048		4,790		13,201	172,888	156	5,328	1	189,964	11,364	206,81
887	11,780	37,678	83,431	1,732	12,050		10,859	157,530	15	4,406		82,780	627	87,828
88	8,563	39,999	102,974	2	26,510	179	11,598	189,825	63	1,601	56	173,259	2,309	177,288
89	5,017	39,229	147,045		27,492		17,225	236,208		1,587	896	227,476	1,204	231,163
90	9,204	31,527	180,842	6,519	27,030		20,497	275,619		504	208	162,231	1,620	164,563
91	6,802	32,097	127,494	8,113	52,823		26,115	253,444		292	705	186,572	1,773	189,343
92	11,018	26,950	131,222	6,433	36,935		31,992	244,550		576	2	183,895		184,473
93,,	6,588	28,187	198,777	16,751	23,870	864	36,352	311,389		344		206,827		207,17
94	17,795	53,846	105,329	28,095	27,621		60,462	198,358		297		188,521		188,818
95	10,169	27,881	100,512	7,904	17,020		46,316	209,802	181	246		149,490		149,91
96	16,224	34,878	175,094	11,128	16,137	490	46,456	300,407		146		207,348		207,49
97	7,237	28,919	169,057	14,173	14,969	1 107	41,887	276,242	965	15		165,143		166,123
98	4,212	11,268	150,667	6,909	12,732	1,197	22,671	209,656 141,892	770 351	339	4	156,814		157,92 91,48
399	6,118	12,926	81,777	2,424	19,526	923	18,198	141,892	991	1,646 953	553	88,931		
00	7,966	18,771	60,545	2,402	39,706	2,149	14,243		83	80	105	46,024		46,97
01	17,165	23,557	55,531	7,119	26,344		14,016	143,732			105	46,702		46,97
02	13,785 6,082	32,639 15,439	66,111	7,418	10,006	4 174	12,675	142,634 $165,725$	459	214		12,911		13,124 $113,534$
	8,556	15,439	108,917 60,964	11,433	6,112	4,174	13,568	100,720	409			113,072 63,882		63,88
04				16,621	16,497		13,079			1		79 464		73,46
05	24,054 15,215	15,483 13,410	93,622 135,240	9,197 9,266	10,892 11,323		9,682	162,930 195,132		169		73,464 33,523		33,69
906	18,898	21,892	133,240	2,812	4,741	2		195,152		30		110,347	4.050	114,42
908	,	21,692	99,830	7,148	2,070	2 2	22,001 21,393	172,788		90		158,351	1,400	159,75
700	17,694	44,001	33,000	4,224	4,070	2	41,000	161,266				131,131	1,400	100,10

^{*}Apples, meal all kinds, pease, potatoes.

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

		Canadian	VES	SELS.		AMERICAN	VES	SELS.	Т	OTAL.	
ARTICLES.	5	Steam.		Sail.	S	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		95,567 56,538		36,157 30,455		54,934 284,059 9,465 17,329 45		18,355 66,761 2,821	437,81 12,28 17,32		
Rye		3,564 575 19,385 2		1,480 1,916 4,104		9,135 759 47,271		1,948 2,620 8,758		305 16,127 5,870 79,518 11	
Sawed lumberFt. B.M. Square timberCub. ft. FirewoodCords.	4,910,669 825,545			1,641,783 1,183,821		6,220,972	2	4,484,283 388,410		7,257,707 2,397,776	
StavesNo.		249								249	
	No.	Tonnage.				Tonnage.		Tonnage.		Tonnage.	
	191	100,242	129	75,777	201	212,027	78	36,962	599	425,008	
1899.	Tons.		Tons.			Tons.		Tons.		Tons.	
Wheat	1	91,901 28,015 1,557		80,928 18,905		16,250 138,834 2,424 21,646		7,244 18,250	204,00 2,42 23,20		
Rye Coal. Miscellaneous merchandise. Shingles, woodenware, &c Sawed lumber Ft. B.M Square timber Cub. ft. Firewood Cords. Staves No.		435 25,203 485 2,077,748 322,138		6,736 18,651 916 772,739 585,780	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	
		Tonnage.									
	216	114,885	109	67,475	168	182,444	71	30,309	564	395,113	
1900.		Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat Corn Barley Oats. Pease. Rye	67,694 39,597 			43,157 31,248		23,066 78,701 2,402 39,706 4 2,149		2,130 13,963 1,047 407		136,047 163,509 3,449 40,113 119 3,538	
Coal	1,389 723 53,649 1,078 6,847,279			637 31,536 5,344,258 355,951	1	433 43,344 4,984,483 11,583	i	559 3,564 8,770,405 198,420		2,352 132,093 1,078 5,946,425 1,005,781	
Firewood Cords. Staves No.		126 1,000	$\begin{bmatrix} 327 & 355,951 \\ 26 & 255 \end{bmatrix}$						38		

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

			VES	SELS.	Un	NITED STAT	res V	ESSELS.	Т	OTAL.
Articles.	S	team.		Sail.	- 32	Steam.		Sail.		steam d Sail.
TINITOMBO.					-					
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.				Tonnage.
	197	103,802	114	59,022	163	182,497	48	22,319	522	367,640
1901.	,	Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		57,641 7,350		58,973 4,689		31,955 55,717 7,119		1,241		149,810 67,756 7,119
Oats Pease		944				27,197				28,141
RyeCoalMiscellaneous merchandise		2,961 1,960 71,300		362 32,312		357 12,874		7,469		2,961 2,679 123,955 18
Shingles, woodenware, &c Sawed lumberFt. B.M. Square timberCub. ft. FirewoodCords.		18 6,533,423 362,441 165		4,060,251 204,682 264	1	11,089,806 9,384	1	3,092,940 149,531	3	726,038 429
Staves									. , .	
	No.1	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	196			122 73,958		201,339	52 22,097		561	388,185
1902.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		82,954		85,973		52,889				221,816
Corn. Barley. Oats.		148 1,200	,	1,388		66,111 7,418 9,963				67,647 7,418 11,206
Pease. Rye. Coal. Miscellaneous merchandise.		3,808 3,977 33,111		25,732 8,723		271 13,497 38,351		8,332 1,594		4,079 51,538 81,779
Shingles, woodenware, &c Sawed lumber Ft. B.M Square timber Cub. ft	1	$\begin{array}{r} 47 \\ 13,218,960 \\ 370,718 \end{array}$		28 3,256,187 557,689 40		25,437,287		19,540,426 115,000		79 61,452,860 1,043,407 96
FirewoodCords StavesNo		56		14,000	- 100					14,000
	No.	Tonnage	No.	Tonnage	No.	Tonnage	No.	Tonnage	No.	Tonnage.
	329	151,850	76	3 45,918	243	3 252,094	69	27,854	627	477,716
1903.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat. Corn. Barley. Oats. Pease.		$149,378 \\ 21,356 \\ 2,580 \\ 306 \\ 63$		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
Rye Coal Miscellaneous merchandise Shingles, woodenware, &c.		389 39,563		12,991 3,367 54		8,133 41,584		8,496 2,000		30,009 86,514 54
Sawed lumber. Ft. B.M. Square lumber. Cub. f Firewood	t.	12,841,552 572,000		1,625,855 660,000 210		17,871,652		14,733,677 84,200		47,072,736 $1,316,200$ 219 $641,000$
Staves No			-	641,000						

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

		Canadian	VES	SELS.	Uı	NITED STA	TES V	ESSELS.	r	COTAL.
ARTICLES.	5	Steam.		Sail.	5	Steam.		Sail.		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		116,794 12,768 2,619		33,302 7,814 824		14,269 95,362 23,728 16,261				164,365 116,444 27,171 16,261
Rye Coal Miscellaneous merchandise Shingles, woodenware, &c	• • • •	1,925 34,907 29,567		7,187	- 7 ×	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. Staves No	1	5,077,382 944,508 634,000		854,811 744,000		2,751,541 717		9,572,655 149,000	5	8,259,389 1,837,508 717 634,000
Staves		004,000								
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	252 182,373		91	48,692	319	286,656	64	29,120	726	546,841
1905.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn. Barley. Oats. Pease. Rye Coal. Iron ore		188,706 6,385 6,870 8,225 18,756 14,358		18,575 6,636 1,451 2,570 		28,757 163,374 47,111 21,535 76 1,711 28,330		2,512 4,526 3,742 8,678		238,550 180,921 55,432 36,072 76 1,711 91,088 22,381
Merchandise. Shingles, woodenware, &c Sawed lumber Ft. B.M. Square timber Cub. ft. Firewood Cords.		29,375 2,867,147 355,000		7,485 2,748,941 951,524 183,000	3	74,975 2,325 8,290,831		3,126	5	114,961 2,325 4,589,200 538,000 900
	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.	The state of the s	Tons.		Tons.		Tons.		Tons.	,	Tons.
Wheat Corn Barley Oats Pease. Rye Coal.		250,493 8,177 8,546 21,900		5,046 16,083 47,242		35,578 202,250 17,854 11,323 11 1,406 24,190		1,378 9,356		320,436 49,306 31,446 49,306 11 1,411 111,243
Iron ore. Merchandise. Shingles, woodenware, &c Sawed lumber. Ft. B.M. Square timber. Cub. ft. Firewood Cords. Staves No.		5,862 35,383 16 3,471,514 375,000 110		7,009 37 235,624 200,000 18	7 851 44 25,711,196 0		1	50	40	5,862 152,705 904 0,188,089 575,000 1,221 300,000
Staves			• • • • •		300,000		00		-	500,000

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

		Canadian	VES	SSELS.	U	NITED STA	TES	VESSELS.	7	COTAL.
ARTICLES.	S	Steam.		Sail.	5	Steam.		Sail.		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.		Tons.		Tons.		Tons.		Tons.
Wheat Corn. Barley. Oats. Pease Rye. Coal. Iron ore Merchandise.	6,713 8,726 49,689 31,506 12,040 21,545			50,808 514 468 16,647 47,373 8,950 9,436		130,818 259,895 4,046 7,033 25 2,270 50,183		4,429 4,571 14,493 6,235		480,303 271,693 13,240 73,369 25 2,270 143,555 20,990 42,447
Sawed lumberFt. B.M. Square timber Cub. ft.			323,000		2,222 14,395,124 660		11,201,446	2	2,222 5,596,570 881,090 660	
	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 Corn Barley. Oats. Pease.		505,151 2,405 19,775 30,091	39,001 1,133 643			183,101 124,997 10,264 2,689 40		3,498		730,751 127,402 31,172 33,423 40
Rye		742 39,733 26,815		42,656 14,783 70	1	5,925 57,448 14,410 1,173 7,572,070		8,344 13,686 6,578,545	2	6,667 $148,181$ $69,694$ $1,243$ $4,150,615$
Square timberCub. ft.	No. 1	221,300 Tonnago	No	313,000 Tonnage.	No	Tonnage	No	Tonnage.	No I	534,300 Tonnage
	555	486,406	136	71,034	323	324,576	26		1040	899,333
. 1909.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn. Barley Oats. Pease. Rye. Coal.	415,208 6,694 17,943 70,392			34,903 360 4,743 53,681		133,172 134,208 4,848 63 21,097		630		583,283 140,902 23,151 75,135 63 33 235,883
Merchandise Sawed lumber Ft. B.M. Square timber Cub. ft.	160,475 52,994		7,840		2 12,232 31,643		16,498 10,214			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 Canadien and United States Vessels during the Season of Navigation in 1909 is as follows:—

· · · · · · · · · · · · · · · · · · ·		
Summary.	Tons.	Tons.
In Canadian steam 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 updown	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	926,901 408,122	320,793 320,224
Total	1,325,023	641,017
		1

	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.
Articles.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.								35					5,652
ement and water limelay, lime and sand	38	52	15	15					$\begin{array}{c} 22 \\ 10 \end{array}$				
on, railway pig				508		50		8,170	10				
all other	7,564 375	6,217 1,351	5,063 3,000	4,292 5,420	1,178	5,785	2,542	1,651 16	384 48	269	124	553	12,689
tone, for cutting								1			9,936		
arley		3,960	596	1,288	14.010	1.710	2,206	9,697 $55,021$	43,607 84,204	21,196 55,559	105,984	24,318 $10,454$	19,143 17,137
axseed	267,583 3,293	310,498 5,687	150,999	109,359	14,319 4,965	1,719	$123,864 \\ 3,643$	212	15,694	80,570	49,159	27,500	19,634
our	1,029	653	4,229	1,595	1,400	6,755	16,151	24,662	14,571	9,174	3,730	5,028	21,905
eal, all kinds					35		348	57	270	60	ee 041	156 28,081	65,624
atsil cake	6,847	3,975	10,250	8,925	1,584 1,083	1,442	$2,438 \\ 462$	7,846	21,404 9,229	37,164	66,941	20,001	00,024
ease	2,078	260		115			63					0.005	30
ye	8,435	15,488	923	3,078	2,961	4,079	4,260	615	1,711 168	1,405	2,266 143	6,662 419	120
alt	216	144	183 200		50		132	010	108	10	20	110	
eed, all kindsay, pressed			96		246								
obacco, raw	51				23						450 440	ege ege	EFO FFE
Theat	278,498	184,154	169,978	121,896	132,702	200,975	226,746	133,528	190,505	289,611	450,446	686,626	550,775
ll other agricultural products, vegetables		56	32										5,876
lides, skins, horns and hoofs								10		2			
orses	1		1						2,847	4,810			
ard and lard oil					1,155 114				2,04,	4,010			1
leats, all kindsork					34							524	
allow						·	3		53				
ll other agricultural products, animal								1					366
Total, class 3	576,008	532,499	345,565	256,491	161,849	220,805	382,858	241,522	384,727	499,895	688,749	790,321	718,951
Class 4.								-					
			3		1,785	13	58	17					
Agricultural implements		73	55	25	3	10	2	16					
Bricks	200											1,543	

F.—Statement showing the Quantity of Freight passed Eastward, from Lake Erie, through the whole length of the Welland and St. Lawrence Canals, to Montreal, &c.—Concluded.

Articles.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.
an ordes,	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 4—Con.													
rockeryurniture	1						3		93				
lass, all kinds	53	75	16	$\frac{1}{6}$	1		15	3	21	6	4		
Colasses	9	56	159			54	240		820				
ailsil	112	1,141	7,143	15,647	14,987	12,091	19 14,619	12,848	20,700	19,995	99 111	20,000	91 14
int		1,171	,	15,047	14,507	12,001	5	12,040	20,700	19,999	22,111	30,002	31,14
teh and tar									53		101		
ags							20						
da ash					4				59	72	15		
gar					112				2,019				17
bacco			96					87	53 204				
hite lead,				16					201				
hisky, beer and other spirits erchandise not enumerated	1 200	866	74	11	32		2	766	635	614	1,224	1,056	52
erchandise not enumerated	1,226	800	518	92	2,420	419	582	713	851	466	2,294	2,126	10,418
Total, class 4	1,580	2,215	7,969	15,798	19,366	12,577	15,569	14,456	25,572	21,164	25,749	34,730	42,26
Class 5.													
			1	182	66	15]	
oopswed lumber	257 478	3,065	924	15,760	2,635	1,085			2.057				
aves, pipe and barrel	4,716	3,000	324	15,700	4,050	1,000		394	3,957	$ \begin{array}{c c} 100 \\ 2,400 \end{array} $			
West India and pipe													
mber, square, in vessels	1,207	329	26					1,544	1,260	1,500	4,180		
oodenware			,			17							900
Total alass 5	0.050	0.004	054	15.010	0.005								
Total, class 5	6,658	3,394	951	15,942	3,205	1,117		1,938	5,217	4,000	4,180		900
Special Class.												1	
al						15 070		17 000	29,351	29,172	70,489	42,075	175,11
on oreone, all kinds						15,976		17,362	3,837			1 979	1,82
								• • • • •				1,272	******
Total, special class									33,188	29,172	70,489	43,367	176,939
Grand total	584,246	529 109	354,485	98 931	184,420	950 475	398,427	275,278	448,704	554,231	789,167	869,398	939,058

PAPER

G.—Statement showing the Quantity of Freight passed Westward from Montreal through the whole length of the St. Lawrence and Welland Canal to Lake Erie, during the Seasons of Navigation in 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907 and 1909.

Articles.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1909.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.												
BricksBrimestone	70	70	24	49	196	$\frac{22}{20}$	80 23	115 12	132		556	
Cement and water lime. Clay, lime and sand Cotton, raw.	837	996 144	997	1,931	2,916 2	178 1	3,924 181	39	181	88	13 100	400
Fish Gypsum	10	9	10	8	8		23 8	4			39	
Iron, railway.	6			74	748	11,735 558	39,641 273	283	126 312	7,2-9 680	4,119 7,655	7.231
" all other	559 25	699 35	1,318	1,428 48	4,950 75	2,904	5,845 87	3,782 99	3,633 150	8,235 17	6,987	
Steel Stone for cutting Flour	62	19				11	332	58 41	192	111	2,561	35,153
Hay Meals Oats								25		.,	30	255
Potatoes. Seeds, all kinds. Tobacco, raw	121	56	121	218	302	58	325	164	35	17		
Agricultural products not enumerated, vegetables Hides and skins	4				1	1 16		•••••	127			
Horses Lard and lard oil Meats other than pork		$\frac{1}{2}$				11			28	20	1	• • • • • • • • • • • • • • • • • • • •
Pork	,			1			1	25			15	
WoolAll other articles not enumerated			,									
Total, class 3	1,698	2,031	2,500	3,764	9,222	15,520	50,768	4,647	4,934	16,457	22,076	43,039
Class 4.												-
Agricultural implements Ashes, pot and pearl Crockery and earthenware Dye woods, &c.	1 4	33	3	5		. , ,	2 32	291	155	5 294	456	

G.—Statement showing the Quantity of Freight passed Westward from Montreal, through the whole length of the St. Lawrence and Welland Canal to Lake Erie, &c.—Continued.

Articles.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1909.
. Al licies.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 4—Con. Furniture Flass, all kinds Manilla Marble	799	150	299	1 456	612	1,384	1,207	5 1,671 34	1,641 93	2,519 37 35	35 3,534 15	
Iolasses. Jails Jails Jails Jails Jaint Ja	129 12 20 20	229 15 35 37	518 21 2 6 14	30 74 12 21	1 675 83 69 27	1,292 14 97 27 1	6 2,878 16 158 58 29	2,009 1,418 202 199	$\begin{bmatrix} 1\\ 3,061\\ 120\\ 367\\ 5\\ 15 \end{bmatrix}$	4,011 148 412 239	50 3,331 155 295	1
Resin Soda ash Stone, wrought	249 25	88 31	15 108	69	169	201	264	387	28	310	25 37 5	
ugar l'in l'urpentine	311 359	566 237	1,596 159	430 117	810 338	1,314 506	204 209	52 362	1,168 928	1,153 1,365	6,046 1,173	40
White lead Whiting Whisky, beer, &c	5 104 93 711	93 98 793	1 89 178 482	39 295 744	11 49 131 1,516	$ \begin{array}{ c c c } \hline & 2 \\ 37 \\ 61 \\ 182 \\ 1,049 \\ \end{array} $	80 22 452 3,674	82 33 432 6,200	80 158 384 15,360	304 93 483 11,707	283 18 1,040 16,498	220 21,359
Total, class 4	2,844	2,405	3,491	2,447	4,492	6,169	9,294	13,379	23,566	23,116	33,049	21,620
Class 5. Barrels, empty. lirewood in vessels. culpwood. cunber, sawn, in vessels. Cailway ties in vessels. Voodenware.						3,600	40,026	40,425	43,982	54,906 2,307	2,337 101,989	
Total, class 5						3,600	40,637	40,425	43,982	57,218	104,326	126,851
Special Class. oal on ore								10,200 2,861				
Total, special class								13,061				
Grand total	4,542	4,436	5,991	6,211	13,714	25,289	100,699	71,512	72,482	96,791	159,451	191,510

A . 4 * .1	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.
Articles.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Γons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.													
icks ment and water limesh	845	300		18									
on, railway all other	965	770 324	1,008	714		30			1	27	30		
eelone for cutting		2,951	549 13,522	3,110	105					\dot{z}	509	9,086	
ples	14,173 169,057 7,237	6,909 150,667 4,212	2,424 81,777 6,118	2,402 60,545 7,966	7,119 55,531 17,168	7,418 66,111 13,785	11,433 108,917 6,082	16,621 60,964 8,556	9,197 93,622 24,054	9,266 135,240 15,215	2,812 124,474 18,898	7,148 99,830 17,694	4,224 100,967
y, pressed al, all kinds arble ils	41,644	22,626	18,198	14,244	14,016	12,675	13,546	13,076	9,606 87	10,668	21,976	21,353	
cake. ts. ase. tatoes		12,729 45	19,526	2,705 39,706 4	1,302 26,344	110 10,006	740 6,112 22	16,497	$\begin{array}{c} 228 \\ 10,892 \\ 76 \end{array}$	11,323 11	114 4,741 25	2,070	63
eax seed ax seededs, all kinds		1,197	923 200 11	2,149		10	4,174 1,594 27	• • • • • • • •	43	756 3	2 17	2	15,452
bacco	23	11,268	12,926	18,771	23 23,557 10	32,639	15,436	14,269	15,483	13,410	2 1,892 7	24,651	17,940 22,620 315
orsesrd and lard oil, &ceats, other than pork	. 1,444	3,671	864	1,588	1,680	2,413	2			22	86		
rkeep	. 243	1,271	343	17	970	632	152	379	273	268	429	190	
llowool	. 197	359 89	201	631	119	752	482	134	21	89	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

H.—Statement showing the Quantity of Freight passed Eastward through the Welland Canal, from United States Ports to United States Ports, during the season of Navigation from 1897 to 1909 inclusive.—Coucluded.

Articles.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.
TATOLOG.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 4—Con.					4								
olasses			8	57	1								
l, in barrelsint.	198	119	367	17 36	22	1,594	2,000	1 17	42	1	8 1	15 1	
igs da ash			1				4		4				
one, wrought gar hite lead	31							53	53	840	26,075		1,196
hitinghisky, beer and all other spirits			168	1	··· ··· · · · · · · · · · · · · · · ·		3				21 30		
erchandise	3,591		6,219	7,889	3,327	1,928	2,010	1,554	2,008	2,324	41,621	1,857	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 5.				5	282				3	2	1		
rewood, in vessels	68,280	52,844	57,695	55,128	38,085	72,806	48,337	717 30,194	$2,700 \\ 15,726$	3,609 $27,701$	1,980 14,314	3,509 21,571	24,327
asts and spars, in vessels								154 652	2,248		2,151	478	
ingles lit posts									$\begin{array}{c c} 62 \\ 12 \end{array}$	53	70		
aves, salt barrels	1.040									1,500			125 2,932
Total, class 5.	69,724	52,844	57,695	55,133	38,367	72,810	48,337	31,717	20,751	32,865	18,516	25,558	27,384
Special class.		759	2,293	992	357	501		1,100	3,346	4,400	110,347		400
ne, not suitable for cutting		.,					• • • • • • • •				2,734 1,316		
Total, special class		759	2,293	992	257	501		1,100	3,346	4,400	114,397		400
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	196,83

L—Statement of the quantity of Grain Transhipped to the following Ports for the season of 1909.

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

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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.
885	5,035	122,829	127,864
886	3,301	118,802	122,103
887	7,579	121,618	129,197
888	8,341	123,050	131,391
889	5,360	124,290	129,650
890	6,538	135,168	141,706
891	7.951	141,701	149,652
892	7,543	157,134	164,677
893	2,285	147,139	149,424
894	16,213	169,552	185,765
895	,	165,151	165,151
896	689	161.551	162,240
397	40	164.963	165, 03
398	400	175,609	176,009
899	448	201,546	201,994
900	10	280,169	280,179
901	2,765	298,245	301,010
902	9,231	95,702	104,933
903	30	290,548	290,578
904	9,670	320,973	330,643
905	8,518	345,589	354,107
906	6,989	313,080	320,069
007	1,281	406,978	408,259
907			3000
908	23,939	448,140	472,079

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

RECAPITULATION.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on Lake Ontario.
1898.	Tons.	Tons.	Tons.
Barley Corn Oats Pease Rye Wheat	3,960 310,498 3.975 260 16,133 184,706	1,417 13,338 625 39 15,860	6,909 116,317 12,729 45
Total grain	†519,532 19,773	31,279 79,614	144,612 114,259
Total	539,305	110,893	258,871
1899.			
Barley Corn Oats Pease	568 150,999 10,250	16,594	1,828 43,854 13,139
Rye Wheat	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	14,319 1,584	4,828 853	49,609 25,704
Rye, Wheat	2,961 132,702	8,051	9,057
Total grain	†151,566 32,854	13,732 128,614	83,370 91,799
Total	184,420	142,346	175,169

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

RECAPITULATION—Continued.

			-
Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on Lake Ontario.
1902.	Tons.	Tons.	Tons.
Barley. Corn. Oats Pease	1,719 1,412	10,335	7,418 55,583 9,764
Rye Wheat	4,079 200,975	12,452	8,389
Total grain Other articles	‡208,215 42,260	22,787 32,946	81,165 179,914
Total	250,475	55,733	261,078
1903.			
Barley Corn Oats Pease Rye Wheat	2,206 116,223 2,438 63 4,200	1,017 13,846	11,433 80,689 5,315 22 644
Total grain	\$351,936 38,850	29,062 82,298	13,725 111,828 101,621
Total	390,786	111,360	, 213,449
1904.			
Barley Corn Oats Pease Rye	9,697 55,021	853 3,950	16,621 57,473 16,497 3
Wheat	*133,528	18,908	11,929
Total grain	198,246 77,031	23,711 80,092	102,523 138,475
Total	375,277	103,803	240,998
1905.			
Barley. Corn. Oats. Pease.	43,607 84,204 21,404	2,628 3,095 3,776	$\begin{array}{c} 9,197 \\ 93,622 \\ 16,892 \\ 76 \end{array}$
Rye Wheat.	1,711 190,505	32,562	15,483
Total grain	**341,431 107,273	42,061 123,225	129,270 104,747
Total	448,704	165,286	234,017

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

RECAPITULATION—Concluded.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and. Cornwall.	Quantity passed down to United States Ports on Lake Ontario.
1906.	Tons.	Tons.	Tons.
Barley	21,196 55,559 37,164	984 15,688 819 11	9,266 140,558 11,323
RyeWheat	1,405 ***289,611	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 Corn Qats	9,936 106,299 67,063	492 31,901 1,565	2,812 133,493 4,741 25
Pease Rye. Wheat.	2,266 *450,009	8,072	22,222
Total grain	635,573 153,594	42,032 126,423	163,295 93,127
Total	789,167	168,455	256,422
1908.			
Barley Corn Oats	24,318 10,454 28,081	3,546 11,489 3,272	3,308 105,459 2,070 40
Pease. Rye. Wheat.	6,662 +686,626	19,832	24,293
Total grain	756,141 108,785	38,142 162,378	135,172 91,875
Total	864,926	200,520	227,047
1909.		,	
Barley Corn Oats Pease Rye Wheat	19,143 17,137 65,624 30 33 550,775	22,798 2,872 14,568	4,008 100,967 6,639 33 17,940
Total grain. Other articles.	652,742 272,263	40,238 113,970	129,587 126,223
Total	925,005	154,208	255,810

Table 1.—Comparative Statement of Grand Total Freight passed through the undermentioned Canals during the Seasons of Navigation in 1908 and 1909.

Canals.	t	anadian on Ports.	t	anadian o ates Ports.	t	ited States to tates Ports.	t	ited States to an Ports.	${ m Te}$	ons. '	Total Tons.	Origin o	f Cargo.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
1908.													
Sault Ste. Marie. Welland St. Lawrence Chambly. St. Peter's. Murray. Ottawa. Rideau. Trent. Grand total	128,077 434,906 4,160 22,420 6,717 2,358	1,486,689 571,961 839,881 10,730 49,595 5,380 226,623 31,713 69,850 3,292,422	35,370 140,162 364,774 	6 28,855	239,136 753	209,518 1,227	8,377 8,635	495,736 583,340 123,612 13,306 691	2,815,847 410,360 584,456 368,934 22,420 7,209 2,358 41,568 11,840 4,265,592	1,292,493 1,424,646 134,342 49,595 18,692 256,169 48,072	2,009,102 503,276 72,015 25,901 258,527 89,640 81,690	776,245 1,261,651 379,674 72,015 12,595 258,527 77,519	747,451 123,602 13,306 12,121
Sault Ste. Marie. Welland St. Lawrence Chambly St. Petér's Murray. Ottawa. Rideau Trent.	27,169	1,567,940 618,718 932,104 11,475 52.052 7,244 240,150 33,033 42.133	164.304 242,954 606,466 406 150 394		248,581		11,467 3,759 629 6775 5,175 1,827	551,837 661,557 128,696 21,935 12,148	3,424,743 642,089 780,421 611,946 27,798 73,112 54,456 46,341 17,819	1,630,208 140,171 52,052 29,179 282,483 45,433	2,025.951 2,410,629 752,117 79,850 102,291 336,939 91,774	3,366;495 1,050,241 1,710,797 623,421 79,150 79,254 331,104 77,643 59,952	699,832 128,696 700 23,037 5,835
Grand total	1,608,659	3,504,849	1,060,715	607,894	1,985,522	22,385,226	1,023,829	1,544,054	5,678,725	28,042,023	33,720,748	7,378,057	26,342,691

Tables 2.—Statement showing the Number, Tonnage and Nationality of Vessels passed through the several Canals during the Season of Navigation in 1909.

Vessels.	Total Number.	From Ca to Canadian		From C t United Sta	0	t	0	From Unit Canadian	0	Тог	ns.	Total Tons.
		Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	
Canadian Vessels. Steam and Sail.	,				•			4				
Sault Ste. Marie. Welland. St. Lawrence Chambly Ottawa. Rideau St. Peter's Trent Valley. Murray.	2,597 1,724 8,135 670 1,935 2,202 1,428 3,730 886	1,096,320 435,367 1,230,168 32,721 181,226 73,919 50,694 85,722 149,050	1,012,874 380,371 1,072,416 34,194 179,934 72,876 51,729 88,206 99,803	152,354 21,896 16,075 157 3,067	213,062 1,452 3,399 76	1,168		4,648	123,254 210,614 152,497 14,545 502 4,259	1,528,510 593 537 1,252,064 48,796 182,149 77,056 50,694 85,722 157,515	1,460,426 592,437 1,224,913 48,739 183,835 77,211 51,729 88,206 108,039	2,988,936 1,185,974 2,476,977 97,535 365,984 154,267 102,423 173,928 265,554
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
United States Vessels.												
Sault Ste. Marie. Welland. St. Lawrence. Chambly Ottawa Rideau St. Peter's Trent Valley.		144,118 859 115,486 2,649 198 293	83,507 1,139 20,956 1,876 1,022 628	61,457 120,844 203,865	12,581	267,395 8,789	10,228,683 200,005 906		58,249 135,216 222,118 205,278	4,299,726 334,622 245,212 203,865 12,038 920 575	10,551,012 343,262 244,020 207,154 12,581 1,134 628	677,884
Murray	71	289	279	385	7	38	20	526	1,029	1,238	1,335	2,573
Total 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

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

Vessels.	Total Number of	From Ca to Canadian		From C to United Sta	
	trips.	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	209,150 3,900
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	55,615	176,566 4,007
Total United States	3,734	144,118	83,507	55,615	180,578
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, steamsail	652 57	859	1,079	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 sail.	4,046 4,089		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, steamsail	278 392		28,536 5,658	135 15,940	
Total Canadian	670	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 1,034	1	86,759 93,175	157	1,007 2,392
Total Canadian	1,935	181,226	179,934	157	3,399

SESSIONAL PAPER No. 20a passed through the several Canals during the Season of Navigation in 1909.

From United to United State		From Uni to Canadia		Tons	S	Total Tons.
Up.	Down.	Up.	Down.	Up.	Down.	
81,423	109,466 1,770	252,281	123,254	1,515,000 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	10,487,490	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	121,513 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	717,500 507,413	1,454,881 1,022,096
			152,497	1,252,064	1,224,913	2,476,977
8,660 129	111 795	93	162,842 59,276	$\begin{array}{c} 171,710 \\ 73,502 \end{array}$	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
			14,545	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
			205,278	203,865	207,154	411,019
			219,823	252,661	255,893	508,554
		294 472	98 404	84,135 98,014	87,864 95,971	171,999 193,985
		766	502	182,149	183,835	365,984

Table No. 3.—Statement showing the Number, Tonnage and Nationality of vessels 1909—

Vessels.	Total Number	t	anadian o . n Ports.		Canadian to cates Ports.
	of Trips.	Up.	Down.	Up.	Down.
Ottawa Canals.					
United States vessels, steam	3 243	1	 		
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	1,775 427	57,222 16,697	57,419 15,457		76
Total Canadian	2,202	73,919	72,876	3,067	76
United States vessels, steamsail	2 32		10 1,012	10	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		15,118 36,611		
Total Canadian	1,428	50,694	51,729		
United States vessels, steam	8 3	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 sail	2,947 783	68,853 16,869	70,833 17,373		
Total Canadian	3,730	85,722	88,206		
United States vessels, steam sail.					
Total United States					,
Grand total, Trent Vallay Canals	3,680	85,722	88,206		
MURRAY CANAL.					
Canadian vessels, steam	652 234	$137,796 \\ 11,254$	88,847 10,956	3,347 4,938	
Total Canadian	886	149,050	99,803	8,285	
United States vessels, steamsail	47 24	175 114	162 117	36 349	7
Total United States	71	289	279	385	7
Grand total, Murray Canal	957	149,339	100,082	8,670	7

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passed through the several Canals during the Season of Navigation in Continued. From United States From United States Tons. United States Ports. Canadian Ports. Total Tons. Up. Down. Up. Down. Up. Down. 233 233 9,389 11,805 12,581 24,386 9,389 12,038 12,581 24,619 502 194,187 196,416 390,603 10,155 122,113 60,359 61,754 70 4,259 16,697 15,457 32,154 70 4,259 77,056 77,211 154,267 3 13 13 920 712 10 1,121 2,041 13 920 2,054 712 1,134 782 4,272 77,976 78,345 156,321 16,282 15,118 31,400 71,023 34,412 36,611 . 50,694 102,423 51,729 215 502 717 282 360 126 486 282 575 628 1,203 282 51,269 52,357 103,626 70,833 17,373 68,853 139,686 34,242 16,869

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3,354

4,882

8,236

1,029

9,265

951

78

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180

180

464

62

526

706

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38

38

38

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20

20

20

85,722

85,722

141,143

16,372

157,515

713

525

1,238

158,753

88,206

88,206

92,201

15,838

108,039

1,133

1,335

109,374

202

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173,928

173,928

233,344

265,554

1,846

2,573

268,127

727

32,210

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.	Tons.	Tons.	Tons.
Canadian vessels, steam	5,201,093 1,579,696 7,881,570 639,569	6,150,224 1,661,354 15,726,035 733,287	949,131 81,658 7,844,465 93,718	
Total, class No. 1	15,301,928	24,270,900	8,968,972	
Class No. 2.	No.	No.	No.	No.
Passengers	280,830	272,222		8,608
Class No. 3.	Tons.	Tons.	Tons.	Tons.
Barley Buckwheat Corn Oats Rye Flax Pease Wheat Flour Hay Other mill products Fruit and vegetables Potatoes Live stock Poultry, game, fish Dressed meats Other packing house products Hides and leather Wool All other animal products	$174,628 \\ 858 \\ 153,713 \\ 225,659 \\ 26,661 \\ 234,738 \\ 286 \\ 3 199,031 \\ 228,605 \\ 18,259 \\ 28,234 \\ 23,838 \\ 6,858 \\ 1,907 \\ 2,220 \\ 106 \\ 2,273 \\ 101 \\ 4 \\ 10,177 \\ \end{bmatrix}$	$176,577 \\ 6,789 \\ 180,203 \\ 432,769 \\ 7,688 \\ 206,750 \\ 326 \\ 3,397,567 \\ 324,044 \\ 36,503 \\ 57,288 \\ 15,036 \\ 9,457 \\ 1,635 \\ 3,064 \\ 573 \\ 3,201 \\ 594 \\ 287 \\ 14,947 \\$	1,949 5,931 26,490 207,110 40 198,536 95,439 18,244 29,054 2,599 844 467 928 493 283 4,770	18,973 27,988 8,802 272
Total, class No. 3	4,338,156	4,875,298	593,177	56,035
Class No. 4.				
Agricultural implements. Cement, bricks, lime. Household goods and furniture. Iron, pig and bloom	$\begin{array}{c} 11,378 \\ 191,411 \\ 4,718 \\ 52,952 \\ 227,284 \\ 87,456 \\ 22,709 \\ 10,193 \\ 542,029 \end{array}$	18,836 489,745 2,517 98,667 309,188 99,980 104,474 18,314 723,680	7,458 298,334 	2,201
Total, class No. 4	1,150,130	1,865,401	717,472	2,201

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. Iron ore. Other ore.	1,006,259 2,521,850 52 8,855 7,402,672 87,415	933,234 3,090,799 1,456 8,329 21,204,848 52,237	568,949 1,,404 13,802,176	73,025 526 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.

Table 5.—Statement of Traffic on the Undermentioned Canals during the Season of Navigation in 1909.

-									
ARTICLES.	Sault Ste. Marie Canal.	Welland Canal.	St. Law- rence Canals.	Chambly Canal.	Ottawa Canals.	Rideau Canal.	St. Peter's Canal.	Murray Canal.	Trent Valley Canal.
Class No. 1.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Canadian vessels, steam	2,949,978 $38,958$ $14,745,169$ $105,569$	989,641 196,333 640,432 37,452	1,454,881 1,022,096 337,625 151,607	57,182 40,353 411,019	171,999 193,985 233 24,386	122,113 32,154 13 2,041	31,400 71,023 717 486	233,344 32,210 1,846 727	139,686 34,242
Total, class No. 1	17,839,674	1,863,858	2,966,209	508,554	390,603	156,321	103,626	268,127	173,928
Class No. 2.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Passengers	32,810	3,092	97,371	2,979	21,731	19,498		24,368	70,373
Class No. 3.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Barley Buckwheat Corn Oats Rye Flax	133,708 5,769 5,562 282,147 7,058 166,045	23,151 	19,255 1,002 33,535 70,038 541 20,152	48 686	59 10 47 380 36 14	30 7 102 307	5 1 4 3,780 2	348 3 277	19 18
Peas Wheat Flour Hay Other mill products Fruit and vegetables Potatoes Live stock Poultry, game, fish Dressed meats	69 2,232,030 252,270 4,164 18,580 2,081 318 5 62	590,196 38,763 1,701 30,158 97	106 573,832 28,895 9,789 7,070 8,203 1,312 1,013 119 309	18 10 1,312 15,474 121 2,248 27	3 119 1,111 1,352 644 807 1,139 526 112	1 821 310 1,474 138 244 205 12 8	1,318 2,528 522 1,209 6,243 15 2,532 8	10 145 45 6 1 225	64 559 65 21 45 2 168 58
Other packing house products			000		10	18	0	420	

				0.000	400 (0.000	1 400 (200	118 (87	S
	All other animal			9,872	430	2,833	1,402	205			ES
2	Total, class No. 3	3,110,275	921,866	786,607	20,392	9,456	5,369	18,661	1,518	1,154	SIO
$20a - 4\frac{1}{5}$	Class No. 4.				77						NAL PA
	Agricultural implements Cement, bricks, lime Household goods and furniture Iron, pig and bloom Iron and steel, all other Petroleum and other oils Sugar and salt Wines, liquors and beers Merchandise not enumerated	8,163 123,028 63 54,903 154,530 11,062 36,044 4,364 318,203	9,574 80,852 16 21,193 65,832 48,352 46,671 4,899 229,100	449 177,143 1,644 20,920 84,010 37,641 10,839 6,230 133,780	71 915 23 58 606 188 885 160 6,654	233 42,070 160 663 1,250 878 4,262 1,018 13,619	285 27,662 146 510 1,172 710 3,639 668 7,850	3,619 135 25 139 445 1,778 297 1,186	35° 33,705 265 395 1,635° 685 340 660 12,315	24 751 65 	PER No. 20a
	Total, class No. 4	710,360	506,489	472,656	9,560	64,153	42,642	7,626	50,035	1,880	
	Class No. 5. Pulpwood. Sawed lumber. Squared timber. Shingles. Other woods.	2,331 47,789 2,187 7,206 11,616	122,867 45,881 13,069 298 4,499	253,086 232,771 13,845 145 9,310	483,573 114,671 23 1,063	778 197,040 225 439 33,543	1,710 18,931 1 253 5,832	5,634 936 506 1,347	1 318 30 2 304	19,591 5,745 1,479 120 28,151	
	Total, class No. 5	71,129	186,614	509, 157	599,330	232,025	26,727	8,423	655	55,086	
	Class No. 6.	N.					A	•			
	Hard coal Soft coal Coke.	361,£18 2,435,781 1,440 8,323	143,328 234,353	$313,709 \\ 326,058 \\ 2$	98,533	4,706 26,005 2	9,447 6,186 12	287 41,014	1,245 21,360	61 42	
	Copper ore	21,156,915 5,104	31,770 1,531	1,848 592	14,144 10,158	592	1,389	158 3,675	27,478	1,718	
	Total, class No. 6	23,969,481	410,982	642,209	122,835	31,305	17,036	45,140	50,083	1,832	
	Grand total	27,861,245	2,025,951	2,410,629	752,117	336,939	91,774	79,850	102,291	59,952	

Table 6.—Summary Statement of Traffic on the undermentioned Canals during the Season of Navigation ended December 31, 1909, showing the total quantity of each description of property passed through.

ARTICLES.	Sault Ste. Marie Canal.	Welland Canal.	St. Lawrence Canals.	Chambly Canal.	Ottawa Canals.	Rideau Canal.	St. Peter's Canal.	Murray Canal.	Trent Valley Canal.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Vessels of all kinds	17,839,674	1,863,858	2,966,209	508,554	390,603	156,321	103,626	268,127	173,928
	No.	No.	No.	No.	No.	No.	No.	No.	No.
Passengers.	32,810	3,092	97,371	2,979	21,731	19,498		24,368	70,373
Forest-Produce of Wood.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Pulpwood Sawed lumber Square timber Shingles Other woods	2,331 47,789 2,187 7,206 11,616	122,867 45,881 13,069 298 4,499	253,086 232,771 13,845 145 9,310	483,573 114,671 23 1,063	778 197,040 225 439 33,543	$ \begin{array}{r} 1,710 \\ 18,931 \\ 1 \\ 253 \\ 5,832 \end{array} $	5,634 936 506 1,347	$\begin{array}{c} 1\\318\\30\\2\\304\end{array}$	19,591 5,745 1,479 120 28,151
Total	71,129	186,614	509,157	599,330	232,025	26,727	8,423	655	55,086
Animals and Produce of Animals.								eriational proper states and annualization	
Live stock. Poultry, game and fish. Dressed meats. Other packing house products. Hides and leather. Wool.	78 259 70	230 427 315 151	1,013 119 309 1,540 14 10		526 112 13 239 2	12 8 18 269 4 17	15 2,532 8 286	6 1 225 320	58 42 2
All other animal products			9,872	430	2,833	1,402	205	118	87
Total	474	1,129	12,877	430	3,735	1,730	3,047	690	188

Agricultural Products.									(
Barley Buckwheat Corn Oats Rye. Flax Pease Wheat Flour Hay Other mill products Fruits and vegetables. Potatoes	133,708 5,769 5,562 282,147 7,058 166,045 69 2,232,030 252,270 4,164 18,580 2,081 318	23,151 140,902 75,135 33 20,538 63 590,196 38,763 1,701 30,158 97	19,255 1,002 33,535 70,038 541 20,152 106 573,832 28,895 9,789 7,070 8,203 1,312	17 48 686 1 18 10 1,312 15,474 121 2,248 27	59 10 47 380 36 14 3 119 1,111 1,352 644 807 1,139	30 7 102 307 1 821 310 1,474 138 244 205	5 1 4 3,780 2 2 1,318 2,528 522 1,209 6,243	348 3 277 	19 18 64 559 65 21 45 2 168
Total	3,109,801	920,737	773,730	19,962	5,721	3,639	15,614	828	965
Manufactures.									
Agricultural implements. Cement, bricks and lime Household goods and furniture. Iron, pig and bloom Iron, steel ,all other Petroleum and other oils. Sugar and salt. Wines, liquors and beers Merchandise not enumerated.	8,163 123,028 63 54,903 154,530 11,062 36,044 4,364 318,203	$\begin{array}{c} 9,574 \\ 80,852 \\ 16 \\ 21,193 \\ 65,832 \\ 48,352 \\ 46,671 \\ 4,899 \\ 229,100 \end{array}$	449 177,143 1,644 20,920 84,010 37,641 10,839 6,230 133,780	71 915 23 58 606 188 885 160 6,654	233 42,070 160 663 1,250 878 4,262 1,018 13,619	285 27,662 146 510 1,172 710 3,639 668 7,850	2 3,619 135 25 139 445 1,778 297 1,186	35 33,705 265 395 1,635 685 340 660 12,315	24 751 65 14 19 16 18 973
Total	710,360	506,489	472,656	9,560	64,153	42,642	7,626	50,035	1,880
Products of Mines. • Hard coal. Soft coal. Coke.	361,318 2,435,781 -,440	143,328 234,353	313,709 326,058 2	98,533	4,706 26,005	9,447 6,186 12	287 41,014	1,245 21,360	61 42
Copper ore	8,323 21,156,915 5,104	31,770 1,531	1,848 592	14,144 10,158	592	1,389	6 158 3,675	27,448	11 1,718
Total	23,969,481	410,982	642,209	122,835	31,305	17,036	45,140	50,083	1,832
Grand totals (passengers and tonnage of vessels not included)	27,861,245	2,025,951	2,410,629	752,117	336,939	91,774	79,850	102,291	59,952

Table 7 (No. 1)—General Statement showing the Quantity of each Article Transported on the Sault Ste. Marie Canal during the Season of Navigation in 1909.

Articles.	Can Can	rom adian to adian orts.	Free Cana tunited Por	dian o States	Unite Unite	rom d States to d States orts.	United to Cana Por	States o adian	Ton	ısı.	Total Tons.	Orig of Ca	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	8,133						~	30	8,133	30	8,163	8,163	
All others animal Barley Buckwheat	40	35,033 5,769		16,238		82,397			40	133,668 5,769	133,708 5,769	105,713 5,769	27,995
Cement, bricks, etc		1,600			11,605 270,006				121,428 361.918	1,600	123,028 361,918		5,990 361.918
" soft	102,775		-,	,	1,376,276	30,080	888,250 1,440	23,500	1,440	63,480	2,435,781 1,440		2,435,781 1,440
Jorn						3,931		1,619	12	5,550	5,562		3,030
Flax Flour Fruits and vegetables	795 2.024	38,017 162,467	73 57	29,213 360	22	98,815 82,876		5,631	936 2,081	166,045 251,334	166,045 252,270		32,103
HayHides and leather	3,601	29 213	523		11				4,135 45	29 214	2,081 4,164 259	4,164	
Household goods. fron, pig and bloom.	37 36,338	21 2,434	5 60		3,212	2,935	9,924		42 49.534	21 5,369	63 54,903	63	5,987
Iron and steel, all other	90,406	30,801			32,245		392		4	30,903	154,530 5	5	22,576
Merchandise Dats Other mill products.	256,060	4,932 239,839 6,034		16,938		24,622		3,196 748		12,557 $282,147$	218,203 282,147	267,561	14,488 14,586
packing house products		32				7,055		4,541	830 46 8,618	17,750 32 2,998	18,580 78 11,616		5,352
Ore, all other					1,367	3,737 8,323			1,367	3,737 8,323	5,104 8,323		5,104 8,323
iron	41	28,212		13,776		21,048,908 28		66,019		21,156,915		3,339	21,153,576
Petroleum Poultry, game and fish Potatoes	6,372	1,237	362		30		3.011		9,825	1,237	11,062		

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Pulpwood. Rye Sawed lumber. Shingles Squared timber. Sugar and salt. Wheat Wines, liquors and beers. Wool.	1,159 53 18,765 3,181 3,550	7,533 24 900	5,189 9,585	26,919 1,060 400,330	11,155	12,178 6,966 1,050 35		240	1,159 53 35,109 12,766 4,306	, ,	2,331 7,058 47,789 7,206 2,187 36,044 2,232,030 4,364 70	2,331 2,746 31,447 4,950 2,187 28,055 1,907,415 4,364 70	16,342 2,256 7,989 324,615	SESSIONAL PAPE
Total freight	641,601	1,567,940	46,041	512,293	1,736,801	22,188,388	1,000,300	167,881	3,424,743	24,436,502	27,861,245	3,366,495	24,494,750	RNo
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Table 7 (No. 2) —General Statement showing the Quantity of each Article transported on the Welland Canal during the Season of Navigation in 1909.—Con.

Articles.	Cana	om adian o adian rts.	Free Cana t United Por	dian o States.		States O States	, t	States o dian.	То	118.	Total tons.	Origin	of cargo
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements All other animal.	9,207	83		}		254		30	9,207	367	9,574	9,320	254
arley uckwheat		18,927			1	4,224				23,151	23, 151	18,927	4,224
ement, bricks, &c		. ,			130,731	400	11,067	5,769 1,530 233,953		19,669 1,530 234,353	80,852 143,328 234,353		11,125 143,328 234,353
orn								39,935		140,902	140,902		140,902
Pressed meats. Plax . Play . Lides and leather . Lousehold goods . ron, pig and bloom . ron and steel, all other . Live stock .	97 1,701	20,538 20,661 13 1,398				15,452 315		2,650		20,538 38,763 	20,538 38,763 97 1,701 315 16 21,193 65,832	20,538 20,254 97 1,701	18,509
terchandise	82,971 15 25 84	28,128 72,263 2,135			1,531	22,620		9,503 2,872 5,388 402 1,343	185,608 15 25 84 1,531	43,492 75,135 30,143 402 4,415	229,100 75,135 30,158 427 4,499 1,531	74,234 1,089 25 224	81,859 904 29,069 402 4,275 1,531
" copper." " iron ease. etroleum. oultry, game and fish	81	23,879	15			63		31,170	96 230	31,770 63 48,256	31,770 63 48,352 230		31,770 63 24,377 230

Potatoes Pulpwood Rye		33	2.004						122,867	33 41,857	122,867 33 45,881	122,867 33 17,687	28,194	ESSIO
Sawed lumber. Shingles. Squared timber. Sugar and salt.	 89 2,219	$2,190 \\ 103$		298 1,475		125 1,196		9,190 643	-,	298 12,980 1,942 590,074	298 13,069 46,671 590,196	298 2,279 2,869 436,373	10,790 43,802 153,823	NAL PA
Wheat Wines, liquors and beers Wool	2,081	269	837		6	157		1,706	2,924	1,975 157 1,383,862	4,899 157 2,025,951	4,893 1.050,241	$\frac{6}{157}$ 975,710	PER N
Total freight	217,737	618,718	164,304	16,469	248,081	196,838	1.1,407	551,837	042,000	1,305,002	2,020,551	1,000,241	/	lo. 20a

Table 7 (No. 3).—General Statement showing the Quantity of each through Article transported on the Welland Canal during the Season of Navigation in 1909.

Articles.	From Canadian to Canadian Ports.		Can t United	From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		ons.	Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
gricultural implements.								30	9,207	367	9,574	9,320	254
arleyuckwheat		18,927				4,224				23,151	23,151	18,927	4,224
ement, bricks, &c pal, hard u soft oke.	54,379	300			6,804 130,731			5,769 1,530 233,953	141,798	6,069 1,530 234,353	143,328	56,127	11,125 143,328 234,353
ressed meats						100,967	• • • • • • • • • • • • • • • • • • • •	39,935		140,902	140,902		140,90
our. uits and vegetables.		20,538 20,661				15,452		2,650	97	20,538 38,763	20,538 38,763 97		18,50
des and leather	1,701	13				315	• • • • • • • • • • • • • • • • • • • •		1,701	315 13	1,701 315	1,701	31
n, pig and bloom n and steel, all otherve stock	18,338 46,285	1,398 8,355						1,007 10,054	18,338 47,418			19,736	
rchandisets	15	2.135				5,861	400	9,503 2,872 5,388	184,855	17,065 75,135 30,143	201,920 75,135 30,158		81,859 90- 29,069
packing house products	25				1,531			402	1,531	402 2,934	427 2,934 1,531	25	2,934 1,533
copperiron						62		31,770		31,770	31,770		31,77
altry, game and fish	81	23,879	15		230			24,377	96 230	48,256	48,352 230		$ \begin{array}{r} 6 \\ 24,37 \\ 23 \end{array} $
atoespwood			122,867	.,					122,867	90	122.867	122,867	
wed lumber.	16			14,696		24,327		2,834	4,000	33 41,857	33 45,857	33 17,663	28,19

6 157

973,919

12,890

46,671

583,283 4,899

157

12,890

1,942

1,975

157

1,335,023 1,976,040

583,283

9,190 :

44,729

2,924

641,017

643

166,431

550,046

1,706

2,100

2,869

4,893

429,460

1,002,121

11,467

17,940

157

1,475 42,453

16,469 248,581 196,838

2,100

103

269

398,912

216,665 571,670 164,304

57

837

2,219

2,081

Shingles
Squared timber.
Sugar and salt

Wheat....

Wines, liquors and beers.....

Total freight.....

Wool

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APPENDIX A—Continued

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.

Articles.		rom adian to adian orts.	Can: United	From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		• Origin of Cargo.		
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.	
icultural implements		[· · · · · · · ·						
other animal								1,000						
kwheat						,								
nent, bricks, &c		13,600								13 600	13 600	13,600	• • • • • • • • • • • • • • • • • • • •	
soft												• • • • • • • • • •		
θ														
1														
ssed meats														
							• • • • • • • •							
irits and vegetables														
es and leather										• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			
sehold goods													••••	
-pig and bloom						1		450		450	450		41	
and steel, all other													-	
Stock														
Chandise	100	20,427							753	26 427	97 190	97 190		
ar mill products														
er mill productser packing house products							• • • • • • • • •							
er woods	84	140						1.341	84	1 401				
all other								1,011	01	1,481	1,565	224	1,3	
copper														
II'0II														
Oleum.														
biy, gaine and non						1								
toes														

1,791

179

6,913

48,120

179

6,913

49,911

6,791

48,839

122

1,072

1,791

Shingles

6,791 ...

90

1,072 47,048

89

122

Sawed lumber

Squared timber.....

Sugar and salt.....

Wheat....

Wool

Wines, liquors and beers.

Total freight.....

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0
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Table 7 (No. 5).—General Statement showing the Quantity of each Article transported on the St. Lawrence Canals during the Season of Navigation in 1909.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to * United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.		
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.	
Agricultural implements All other animal Barley Buckwheat Cement, bricks, &c. Coal, hard "soft Coke. Corn Dressed meat Flax Flour Fruits and vegetables. Hay Hides and leather Household goods. Iron—pig and bloom Iron and steel, all other Live stock Merchandise Oats Other mill products Other woods Other woods Ore, all other "copper" "iron	305 1,279 88 984 84,946 3,577 139,168 2,960 101 14 2,097 1,426 7,363 86 104,879 297 411 573 225 556	8,593 19,167 18 87,212 4,813 1,316 			52			185,574 9.772	305 1,279 88 984 84,946 7,336 139,168 2 2,960 103 14 2,097 1,428 7,363 7,363 7,363 7,363 14 20,399 67,658 86 104,931 297 411 649 225 556	144 8,593 19,167 18 92,197 306,373 186,890 30,575 206 20,138 26,798 6,775 2,426 5 1,124 521 16,352 927 28,849 69,741 6,659 891 1,860 	19,255 1,002 177,143 313,709 326,058 2 33,535 309 20,152 28,895 8,203 9,789 14 1,644 20,920 84,010 1,013 133,780 70,038 7,070 1,540 9,310 2,416	9,872 19,255 1,002 171,704 2,801 140,965 2 16,062 307 20,152 26,196 8,176 9,789 122 1,642 20,813 77,473 1,013 124,449 70,038 2,218 1,071 9,310 1,860	5,439 310,908 185,093 17,473 2 2,699 27 2 107 6,537 9,331 4,852 469	10-11 ED)
Pease. Petroleum. Poultry, game and fish. Potatoes Pulpwood. Rye. Sawed lumber.	35 3,293 1 357 18,923 416 37,578	71 18,771 118 955 685 125 149,170	233,478		······································		•••••		$ \begin{array}{r} 35 \\ 3,293 \\ 1 \\ 357 \\ 252,401 \\ 416 \\ 47,054 \end{array} $	71 34,348 118 955 685 125 185,717	$ \begin{array}{r} 106 \\ 37,641 \\ 119 \\ 1,312 \\ 253,086 \\ 541 \\ 232,771 \end{array} $	106 20,559 119 1,312 253,086 541 232,771	17,082	

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145|....

10,799 434,620

1,710,797

6,230

10

13,845

139,212

699,832

145

13,845

10,839

573,832

6,230

10

145

13,363

556,785

780

937

10

1,630,208 2,410,629

482

10,059

17,047

.

780,421

5,293

125,036

3,759 661,557

Sh ng es... Squared timber... Sugar and salt...

Wheat

Wines, liquors and beers.....

Wool

Total, freight.....

10,059

5,293

533,572 932,104 242,954

145 482 13,363

136

17,047 431,749

36,547

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Table 7 (No, 6)—General Statement showing the Quantity of each through Article transported on the St. Lawrence Canals, during the Season of Navigation in 1909—Continued.

Articles.	Cana Cana		From Canadian to United States Ports.		From United States to United States Ports.		From Unired States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	100 75	4,990 19,143							100 75	83 4,990 19,143		5,065	
Buckwheat. Cement, bricks, &c Coal, hard "soft."	14,011 707 11,140	12,715 4,611					1,696	4,985 289,969 175,115	14,011 2,403 11,140	$ \begin{array}{r} 17,700 \\ 294,580 \\ 175,115 \end{array} $	31,711 296,983 186,255	27,694 707 11,140	4,017 296,276 175,115
Coke. Corn. Dressed meats. Flax. Flour: Fruits and vegetables. Hay. Hides and leather.	814 78 25 44 1,701	7,365 200 19,634 19,546 5,989						9,772 2,359 25	814 78 25 44 1,701	17,137 200 19,634 21,905 6,014	17,951 278 19,634 21,930 6,058 1,701	814 278 19,634 19,231 6,033 1,701	2,699
Household goods. Iron—pig and bloom Iron and steel, all other. Live stock. Merchandise.	274 19,226 42,202 5 88,433	775 105 8,980 32 16,883						6,537 4,587	274 19,226 42,202 5 88,433	775 105 15,517 32 21,470	$ \begin{array}{r} 1,049 \\ 19,331 \\ 57,719 \\ 37 \\ 109,903 \end{array} $	19,331 51,182 37 104,436	5,467
Oats. Other mill products. packing house products. woods. Ore, all other.	47 162 2	960 216						4,916 384	$\begin{array}{c} 47 \\ 162 \\ 2 \end{array}$	65,624 5,876 600	$ \begin{array}{r} 65,624 \\ 5,923 \\ 762 \\ 2 \\ 1,824 \end{array} $		4,852
" copper" " iron Pease. Petroleum. Poultry, game and fish. Potatoes.	1,087	30 18,555						15,577	1,087		30	30	15,682

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	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	40 F
Total freight	163 ER Z

TABLE 7 (No. 7).—General Statement showing the Quantity of each Way Article transported on the St. Lawrence Canals during the Season of Navigation in 1909.

f Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.		
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.	
Agricultural implements. All other animal Barley Buckwheat. Cement, bricks, &c. Coal, hard " soft. Coke. Corn. Dressed meats. Flax Flour Fruits and vegetables. Hay. Hides and leather Household goods. Iron—pig and bloomj. Iron and steel, all other. Live stock. Merchandise Oats. Other mill products. " packing house products. " woods. Ore, all other. " copper " iron. Pease. Petroleum.	205 1,204 88 984 70,935 2,870 128,028 2,146 33 14 2,072 1,382 5,662 7 244 1,173 25,456 81 16,446 297 364 411 223 556 	24 18 74,497 202 1,316 13,438 6 504 4,893 761 2,426 5 349 416					2,063	11,591 10,459	205 1,204 88 984 70,935 4,933 128,028 2,146 25,145 14 2,072 1,384 5,662 9 246 1,173 25,456 81 16,498 297 364 487 223 556	61 3,603 24 18 74,497 11,793 11,775 	266 4,807 112 1,002 145,432 16,726 139,803 2 15,584 31 518 6,965 2,145 8,088 14 595 1,589 26,291 17,78 9,308 23,877 4,414 1,147 778 9,308 592	4,807 112 1,002 144,010 2,094 129,825 2 15,248 29 518 6,965 2,143 8,088 122 593 1,482 26,291 976 20,013 4,414 1,147 713 9,308 36 	1,422 14,632 9,978 336 2 2 107 3,864	
Poultry, gaine and fish	330	112 955							330	112 955	2,422 113 1,285	1,022 113 1,285	1,400	

Pulpwood	482 5,123 16,297 1,084	$149,170 \\ 145 \\ 12,463 \\ 360 \\ 6,010$		36,547	 		2,904 416 36,341 482 5,123 16,297 1,084	685 5 185,717 145 12,463 360 6,010 41	3,589 421 222,058 145 12,945 5,483 22,307 1,125	222,058 145 12,945 5,483 22,307 1,125	 SESSIONAL PAP
Total freight		296,153	2,229			 	328,315	354,750	83,065	650,696	ER No. 20a

Table 7 (No 8).—General Statement showing the Quantity of each Article transported on the Chambly Canal during the Season of Navigation in 1909.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements All other animal. Barley.	69 21 17	247						162	69 21 17	2 409	71 430 17	71 268 17	
Buckwheat	478 2		146					291 98,531	624	291 98,531	915 98,533		291 93,531
oke forn Pressed meats.	48								48		48	48	
lax. lour. 'ruits and vegetables lay. lides and leather.	1,312 669	1,579 7,772	7,702						$ \begin{array}{c} 1\\1,312\\669\\7,702 \end{array} $	1,579 7,772	1,312 2,248 15,474	1,312 2,248 15,474	
lousehold goods ron-pig and bloom ron and steel, all other ive stock.	19 52 596	3 6 10						1	19 52 596	4 6 10	23 58 606	22 58 606	
lerchandise	836 17 112	407 669 9	172					5,239	1,008 17 112	5,646 669 9	6,654 686 121	1,415 686 121	
re, all other	86 30	747	230		• • • • • •			10,128	316 30	747 10,128	1,063 10,158	1,063	
ironease								14,144	18 156	14,144	14,144 18 188	18 156	14,144

Poultry, game and fish			[1	[[·						E
Potatoes	23	4								4	27	27		SS
Pulpwood			433,573						483,573		483,573	483,573		0
Rve														Z
Sawed lumber	24	4	114,643						114,667	4	114,671	114,671		D
Shingles	23								23		23	23		Г
Squared timber														U
Sugar and salt	711	6		,				168	711	174	885	717	168	7
Wheat	10								10		10	10		m
Wines, liquors and beers		10							150	10	160	160		N
Wool														7
														0
Total freight	5,480	11,475	606,466					128,696	611,946	140,171	752,117	623,421	128,696	
														20
														03

Table 7(No. 9).—General Statement showing the Quantity of each Article transported on the St. Peter's Canal during the Season of Navigation in 1909.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Perts.		Tons.		Total tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements All other animal Barley. Buckweat Cement, bricks, &c Coal, hard. Coal, soft. Coke Corn. Dressed meats Flax Flour. Fruits and Vegetables Hay Hides and leather. Household goods. Iron-pig and bloom. Iron and steel, all other. Live stock. Merchandise. Oats. Other mill products. Other packing house products Other woods. Ore, all other. " copper " iron Pease. Petroleum.	2 5 5 1 756 147 47 48 8 1,303 1,209 2,528 	15 121 3 76 194 3 980 3,603					140		2 5 5 1 756 287 47 48 8 1,303 1,209 2,528 2,528 3,780 522 283 367 72 6 158 2 2 403	2,863 40,967 15 121 3 76 194 3,803 3,603	2 205 5 1 3,619 287 41,014 	76 41,014 4 8 1,318 1,209 2,528 135 25 139 15 1,182 3,780 522 286 1,345 3,603 6 158 2	211

Poultry, game and fish		2,814	 	 	 218 6,242	2,314	2,532 6,243	6,243		SESSION
Pulpwood	5,125 506 371	509		408	 5,125 506 779 .1,776	509 157 2	5,634 506 936 1,778		408	VAL PAPE
Wheat	292	2	 	 3	 295	52,052	79,850	$ \begin{array}{r} 294 \\ \hline 1 \\ \hline 79,150 \end{array} $	700	R No. 20

Table 7 (No. 10).—General Statement showing the Quantity of each Article transported on the Murray Canal during the Season of Navigation in 1909.

Articles.	From C		United	Canadian to l States orts.		United o United Ports.			Tor	ns.	Total Tons.	Ori of C	gin argo.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Tons.	Canadian.	United States.
Agricultural implementsAll other animalBarleyBuckwheat	• 27	91 348							30 27	5 91 348	35 118 348	118	
Jement, bricks, &c Joal, hard Joal, soft Joke	32,825	880						573 21,360		880 573 21,360	33,705 1,245 21,360		1,245 21,360
Corn Dressed meats 'lax	65	3 160							65	3 160	3 225	3 225	
lour ruits and vegetables lay lides and leather.	15								15	130	145	· 145	
lides and leather. Iousehold goods. ron-pig and bloom. ron and steel, all other. ive stock.	207 370 952 4	25							207 370 952	58 25 683	265 395 1,635		363
erchandiseatsther mill products	9,241	3,072 277 10						2	9,241	3,074 277 10	$ \begin{array}{r} 6 \\ 12,315 \\ 277 \\ 10 \end{array} $	$ \begin{array}{r} 6 \\ 12,303 \\ 277 \\ 10 \end{array} $	
ther packing house productsther woodsre, all otherre	165 100 26,928								165 304 26,928	155 550	320 304 27,478	304	
r ironeaseetroleum oultry, game and fish								,	385	300	685	683	

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660

23,037

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79,254

Potatoes....

Pulpwood.....

Shingles.....

Squared timber.....

Sugar and salt.....

Wool

Wheat Wines, liquors and beers.....

Total freight.....

Rye.... Sawed lumber.....

101

240

300

72,034

20

116

7,244

35|.....

672

21,935

.

406

100

10

318

240

300

20

73,112

35

100

360

29,179

45

318

2

30

340

660

102,291

20

Table 7 (No. 11).—Genral Statement showing the quantity of each Article transported on the Ottawa Canals during the Season of Navigation in 1909.

Articles.	Can	rom adian o adian rts.	From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Ton	S.	Total Tons.		gin argo.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
•											#(=		
gricultural implements.	194	39		, 					194	39	233	233	
ll other animal.	113	2.720							113	2.720	2,833		
arlev	59								59		59		
ackwheat	10							3	10		10	10	• • • • • • •
ement, bricks, &c	1,829	40.241							1,829	40,241	42,070		
pal, hard	784	10,211					3,922		4,706	10,211	4,706	124	
soft	25,995	10					0,022		25,995	10	26,005	26,005	
oke	20,000	10							40,000	10	20,000	20,000	
	47								477		47	2	
orn	11								41		47	44	
ressed meats	- 4	0							_ 4.	6	13	13	
ax	14								14		14	14	
our	1,017	94							1,017	94	1,111	1,111	
ruits and vegetables	307	500							307	500	807	807	
ay	106	1,246							106	1,246	1,352	1,352	
ides and leather		2								2	2	2	
ousehold goods	106	54							106	54	160	160	
on-pig and bloom	662	1							662	1	663	663	
on and steel, all other	1,189	41	20						1,209	41	1,250	1,250	
ive stock	29	497							29	497	526	526	
erchandise	9,120	3,782	20				697		9,837	3,782	13,619	12,922	6
	135	245	20				031		135	245	380	380	0
1 '11 1	51	593											
cher mill products	207	22	10						51	593	. 644	644	
her packing house products	201		10						217	22	239	239	
her woods		33,313		230						33,543	33,543	33,543	
re, all other		36					556		556	36	592	36	5
copper													
iron													
ease	3								3		3	3	
etroleum	698	170	10						708	170	878	878	
oultry, game and fish		112								112	112	112	

Potatoes. Pulpwood. Rye. Sawed lumber.	280	175		42,103			 307 603 36 280	832 175 196,760 439	1,139 778 36 197,040 439	778 36 197,040		SESSIONA
Shingles. Squared timber. Sugar and salt. Wheat. Wines, liquors and beers. Wool.	4,112 119 990	225 65 23 10	85 5				 4,197 119 995	225 65 23 10	225 4,262 119 1,018 10	4,262 119 1,018		L*PAPER
Total freight		240,150	150	42,333	 	5,175	 54,456	282,483	336,939	331,104	5,835	No. 2
										,		0a

Table 7 (No. 12).—General Statement showing the Quantity of each Article transported on the Rideau Canal during the Season of Navigation in 1909.

${ m Articles}.$	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements. All other animal Barley Buckwheat Cement, bricks, &c	188 514 7 5,767								188 514 7 15,767	97 888 30 11,895	285 1,402 30 7 27,662	$ \begin{array}{c} 285 \\ 1,402 \\ 30 \\ 7 \\ 27,662 \end{array} $	
Coal, hard. "soft Coke Corn Dressed meats. Flax	189 1,371 12 2 13						1,787	7,314 4,789 40	1,976	7,471 4,815 100 5	9,447 6,186 12 102	205	9,242 4,809 40
Flour. Fruit and vegetables. Hay. Hides and leather. Household goods	$ \begin{array}{r} 67 \\ 159 \\ 1,322 \\ 2 \\ 64 \end{array} $	243 45 152 2 82					40		67 199 1,322 2 64	243 45 152 2 82	310 244 1,474 4 146	310 204 1,474 4 146	40
Iron-pig and bloom Iron and steel, all other Live stock Merchandise Oats Other mill products	394 1,081 6 5,078 30 30	$ \begin{array}{c} 116 \\ 91 \\ 6 \\ 2,771 \\ 277 \\ 108 \end{array} $						······i	394 1,081 6 5,078 30	116 91 6 2,772 277	510 1,172 12 7,850 307	1,172 12 7,850 307	
Other packing house products	203 4,844 369	66 987 950	70					1	30 203 4,844 439	108 66 988 950	138 269 5,832 1,389	138 269 5,832 1,389	
rease		2							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2	$\begin{bmatrix} 2 \\ 1 \end{bmatrix}$	2	

Petroleum. Poultry, game and fish	449					1			Q	261	710	710		SES
Potatoes	179	26							179	26	205	205		S
Pulpwood	84	1,626							84	1,626	1,710			
Rye	7 015													A
Sawed lumber Shingles	7,615 178		324	252				3	7,939	10,992	18,931	18,931		
Squared timber	1						The second second		1		203	1		PA
Sugar and salt	3,281	358							3,281	358	3,639			P
Wheat	15	806							15	806	821	821		E
Wines, liquors and beers	597	71				1			597	71	668	668		7
		10			****	* * * * * * * * *			1	16	17	17		0
Total freight	44,120	33,033	394	252			1,827	12,148	46,341	45,433	91,774	77,643	14.131	N
										20,200	02,	11,010	11,101	0a

Table 7 (No. 13).—General Statement showing the Quantity of each Article transported on the Trent Valley Canals during the Season of Navigation in 1909.

Articles.	Cana Cana Por	dian	Cana	o States	Fred United United Por	States o States	United t Cana Por	States o dian	То	ns.	Total Tons.	Or of C	igin argo.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements	. 34								4 34	20 53		24 87	
Buckwheat	527 37 42	224 24	,						527 37 42	224 24	751 61 42	751 61 42	••••
Coke. Corn. Dressed meats Flax. Flour	44								* 44	21			••••
Fruits and vegetables	$\frac{2}{21}$								2 21 21	21	21	65 2 21	••••••
Iron-pig and bloom	45 637	14 13 336							45 637	14 13 336	14 58 973		
Oats Other mill products. Other packing house products. Other woods. Ore, all other	19 16 42 13,179 4	29							$ \begin{array}{r} 19 \\ 16 \\ 42 \\ 13,179 \\ 4 \end{array} $	29 14,972 1,714	19 45 42 28,151 1,718	45 42	• • • • • • • • • • • • • • • • • • • •
" copper." iron. Pease. Petroleum. Poultry, game and fish.	11 64 15	4		•••••					11 64 15	4	11 64 19	11 64 19	••••

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539

1,044

848

.

2

18

45

14

559

10

17,819

631

19,0521

4,701

42,133

848

19,591

5,745

1,479

59,952

120

16

559

18

18

5,745

1,479

559

59,952

120

16

18

18

Pulpwood.....

Rye....

Sawed lumber.....

Shingles.....

Squared timber.....

Sugar and salt.....

Wheat

Wines, liquors and beers.....

Wool

Total freight.....

539

45

631

14

559

17,819

10

1,044

18

4,701

42,133

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Table 8.—Statement showing the Classified Tonnage of all kinds of Vessels passed SAULT STE.

			DIAN.	CANA			
Tonnage	No.	Sailing Vessels.	Class.	Tonnage.	No.	Steam Vessels.	Class.
3,2		5,000 to -— tons. 4,000 " 5,000 " " " " " " " " " " " " " " " " " "	1 2 3 4 5 6	5,142 4,361 6,775 17,333 75,254 20,278 129,143	1 1 2 6 57 61 128	5,000 to 5,142 tons. 4,000 " 5,000 " 3,000 " 2,000 " 3,000 " 1,000 " 2,000 " 1,000 "	1 2 3 4 5 6
ELLAN	w						
7,58 67 67 66 68 1	14 3 4 6 1 1 - 29	250 to 989 tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Under 50 "	1 2 3 4 5 6	61,058 430 675 450 460 625 63,698	66 2 4 4 6 15 	250 to 1,579 tons	1 2 3 4 .5 6
VRENC	LAV	ST.					
33,14 1,47 9,60 10,52 5,05 25	79 7 59 87 64 6	250 to 1,184 tons	1 2 3 4 5 6	$ \begin{array}{r} 48,242 \\ 1,520 \\ 1,145 \\ 1,185 \\ 1,625 \\ 706 \\ \hline 54,423 \end{array} $	$ \begin{array}{r} 46 \\ 7 \\ 7 \\ 10 \\ 22 \\ 36 \\ \hline 128 \end{array} $	250 to 1,597 tons	1 2 3 4 5 6
VA ANI	TTAV	RIDEAU, O'					
1,02 6,37 6,65 1,29 28	5 39 52 17 11 124	250 to — tons	1 2 3 4 5 6	1,334 185 100 530 609 2,758	4 1 1 8 36 50	250 to 372 tons	1 2 3 4 5 6

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

MARIE CANAL.

			UNITED	STATES	S.		
Class.	Steam Vessels.	No.	Tonnage.	Class.	Sailing Vessels.	No.	Tonnage.
1 2 3 4 5 6	5,000 to 6,498 tons	50 77 137 45 59 51	270,666 308,184 464,262 123,158 96,016 19,905	1 2 3 4 5 6	5,000 to tons	3 6 6 5 6	13,839 19,540 14,962 7,148 3,348
	Total	419	1,282,191			26	58,837
CANA	AL.						
1 2 3 4 5 6	250 to 1,673 tons	55 2 1 9 17 84	49,912 340 120 750 420 51,542	1 2 3 4 5 6	250 to 1,310 tons	10 1 1 4 1 	1,925 200 160 290 35 2,610
CANA	ALS.		01,012				
1 2 3 4 5 6	250 to 1,609 tons	29 1 3 4	24,552 :::::::::::::::::::::::::::::::::::	1 2 3 4 5 6	250 to 796 tons. 200 " 249 " " " " " " " " " " " " " " " " " " "	10 41 88 3 142	5,256 4,430 8,240 63 17,989
CHAI	MBLY CANALS.		1	j	*		
1 2 3 4 5 6	250 to — tons 200 " 249 " 150 " 200 " 100 " 149 " 50 " 99 " Under 50 "	9	174	1 2 3 4 5 6	250 to — tons 200 " 249 " (150 " 200 " 100 " 149 " 50 " 99 " Under 50 "	9 440 199 2 650	1,410 45,905 18,630 23 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.)

introduction deport of waveley	Miles.
1. Lachine canal	$8\frac{1}{2}$
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	$1\frac{1}{2}$
River St. Lawrence	10
5. Rapide Plat canal	33
River St. Lawrence	4
6. Galops canal	$7\frac{1}{3}$
River St. Lawrence and Lake Ontario	236
7. Welland canal	$26\frac{3}{4}$
Lake Erie, Detroit river, Lake St. Clair, Lake Huron, &c.	580
8. Sault Ste. Marie canal	14
Lake Superior to Port Arthur	266
Total	$1,223\frac{7}{12}$
To Duluth	1,357
Chicago	1,286

Second.—Ottawa to Lake Champlain.

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

Third.—Ottawa to Kingston and Perth.

1. Rideau canal.

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

1. Trent canal (not completed).

Fifth.—Ocean to Bras d'Or lakes.

1. St. Peter's canal. 20a—6\frac{1}{3}

RIVER ST. LAWRENCE AND LAKES.

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

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

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

of April.

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

The difference in level between the point on the St. Lawrence, near Three Rivers,

where tidal influence ceases, and Lake Superior is about 600 feet.

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

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

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

LACHINE CANAL.

First con	struction	commenced	182	1
	"	completed	182	5
First en	largement	commenced	184	3
	"	completed	1848	8
Second e	nlargement	commenced	187	3
	"	completed	190	1
Length o	f canal		81 8	statute miles.
Number	of locks		5	
Dimensio	ns of locks	· · · · · · · · · · · · · · · · · · ·	270 fe	eet by 45 feet.
Total rise	e of lockage	e	45 fe	eet.
Depth of	water lat	two locks	18	"
on sill	s. Sat	three locks	14	"
		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 looks (lift	4
Number of locks { liftguard	1
Dimensions of locks	280 feet by 45 feet.
Total rise of lockage	84 feet
Depth of water on sills	15 "
Breadth of canal at bottom	100 "
Breadth of canal at water surface	164 "
Number of arc lights	219 of 2,000 c. p. each.

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

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

CORNWALL CANAL.

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

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

From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis, of 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 Corn-

wall 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	7
Emargement commenced	
completed	U
Length of canal	
Number of locks 1	
New lock	et
Old lock	
Total rise or lockages $3\frac{1}{2}$ 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 feet 1	844
" opened 1	
Enlargement commenced 1	884
" completed 1	897
Length of canal	
Number of locks 2	
Dimensions of locks	feet.
Total rise in lockage	
Depth of water on sills	
Breadth of canal at bottom 80 "	
Breadth of canal at surface of water 152 "	

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

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

GALOPS CANAL.

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

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

MURRAY CANAL.

Construction begun	1882
Completed	
Length between eastern and western pier heads	
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. Length of Canal		Enlarged or New Line 26 ³ miles 2 25	
Dimensions. $ \begin{cases} 1 \text{ lock } 200 \times 45 \\ 1 \text{ lock } 200 \times 45 \\ 1 \text{ (tidal) } 230 \times 45 \\ 24 \text{ locks } 150 \times 45 \end{cases} $	270 fee	et x 45 fee	et.
Total rise or lockage 3263 feet		3263 feet.	
Depth of water on sills 104 "		14 "	
Construction commenced, 10 feet 3 inches		1824	
" Completed		1833	
Enlargement commenced, 14 feet		1872	
" completed		1887	

WELLAND RIVER BRANCHES.

	Length of canal—
	Port Robinson cut to River Welland 2,622 feet. From the canal at Welland to the river, via
	lock at Aqueduct 300 "
	Chippewa cut to River Niagara 1,020 "
	Number of locks—one at Aqueduct and one at Port
	Robinson 2
	Dimensions of locks
	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
	Dimensions of locks
	Total rise or lockage
	PORT WELLAND BRANCH.
	Length of canal
	Dimensions of locks
for	The Welland canal has two entrances from Lake Ontario, at Port Dalhousie, one the old, the other for the new canal.
	From Port Dalhousie to Allanhurg 113 miles there are two distinct lines of

From Port Dalhousie to Allanburg, 113 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 chan-

nel, 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	
Breadth of canal at bottom	141 feet 8 inches.
Breadth at surface of water	150 feet.

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

MONTREAL, OTTAWA AND KINGSTON.

This route extends from the harbour of Montreal to the port of Kingston, passing through the Lachine canal, the navigation section of the lower River Ottawa, and the Ottawa canals, to the city of Ottawa; thence by the River Rideau and the Rideau canal to Kingston, on Lake Ontario—a total distance of 2455 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.	Intermediate Distance.	Total Distance, from Montreal.
	Miles.	Miles.
The Lachine canal From Lachine to Ste. Anne's lock Ste. Anne's lock and piers Ste. Anne's lock to Carillon canal The Carillon canal The Carillon to Grenville canal The Grenville canal From the Grenville canal to entrance of Rideau navigation Rideau navigation ending at Kingston	$ \begin{array}{c c} 15 \\ 27 \\ 6\frac{4}{4} \\ 5\frac{3}{4} \\ 56 \end{array} $	23 23 50 51 57 63 119 245

STE. ANNE'S LOCK.

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

THE CARILLON CANAL.

Construction commenced	1819
" completed	1833
Enlargement commenced	1871
" completed	1887
Length of canal	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 "
This canal overcomes the Carillon rapids.	

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

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

GRENVILLE CANAL.

Construction commenced	1819
" completed	1833
Enlargement commenced	1871
" completed	1887
Length of canal	$5\frac{3}{4}$ miles.
Number of locks	5
Dimensions of locks	200×45 feet.
Total rise or lockage	43¾ feet.
Depth of water on sills	9 "
Breadth of canal at bottom	40 to 50 feet.
Breadth of canal at surface of water	50 to 80 "

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

RIDEAU NAVIGATION.

Construction	commenced.	 		 	 	 		 1826
"	completed	 			 	 		 1832

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

Length of navigation waters 1264 mil	les.
Number of locks going from Ottawa to Kingston. \ 35 asce 14 desc	_
Total lockage446½ feet \(\frac{282½}{164} \) rise and \(\) at high wa	
Dimensions of locks	feet.
Depth of water on sills 5 fee	et.
Navigation depth through the several reaches 4½ "	
Prood the of some learner of letters 5 60 feet	in earth.
	in rock.
Breadth of canal at surface of water 80 feet	in earth.

PERTH BRANCH.

Construction commenced	1883 1892	
Length of canal	7	miles.
Number of locks	2	4
Dimensions of locks	134 26	feet x 33 feet.
Total rise or lockage	20	" 6 inches.
Length of dam	200	
Breadth of canal at bottom	40	"
Breadth of canal at surface of water	{ 40	
Dreadin of Canal at Surface of Water.	$\begin{cases} 60 \end{cases}$	" in clay.

The Perth branch of the Rideau canal affords communication between Beveridge's

bay, on Lake Rideau and the town of Perth.

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

From the summit, the route towards Ottawa follows the Rideau river, and that towards Kingston follows the River Cataraqui. The supply of water for the canal is

derived from the reserves given in detail below.

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

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

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

3. The southwest descending level to Kingston, supplied by the Mud lake system

formerly known as the Devil lake system, discharging into Lake Openicon.

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

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

RICHELIEU AND LAKE CHAMPLAIN.

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

At Whitehall, the southern end of Lake Champlain is entered, and connection is obtained with the River Hudson, by which the city of New York is directly reached.

From the boundary line to New York the distance is 330 miles.

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

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

ST. OURS LOCK DAM.

Construction commenced	1844
" completed	1849
Length	
Number of locks	
Dimensions of lock	200 feet by 45 feet.
Total rise of lockage	
Depth of water on sills	
Length of dam in eastern channel	
Length of dam in western channel	690

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

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

CHAMBLY CANAL.

Construction commenced	1831
" completed	1843
Length of canal	12 miles.
Number of locks	9
Dimensions of locks:—	
Guard lock, No. 1 at St. Johns	122 feet.)
Lift " 2	124 " From 22½ 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 Ontario and Lake Huron.

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

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

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

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

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

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

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

From Trenton, Bay of Quinté to Nine Mile rapids Nine Mile rapids to Percy landing Percy landing to Heeley's Falls dam Heeley's Falls dam to Peterborough Peterborough to Lakefield	19½ — 51¾ —	$ \begin{array}{r} 9 \\ \hline 14\frac{1}{2} \\ \hline 9\frac{1}{2} \end{array} $
Lakefield to a point across Balsam lake	61 ————————————————————————————————————	33

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

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

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

At Burleigh rapids, 10 miles from Young's point, a canal, about 2½ miles in length, passes the Burleigh and Lovesick rapids, and gives communication between Stony lake and Deer bay.

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

At Bobcaygeon, 15³ 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.

	4 0	to o o depth wat	er on mitre sill.			
2 I	locks a	t Fenelon	134' x 33' x 5' 0" to	7' 6"	depth water	on mitre sill.
1	"	Lindsay	134' x 33' x 5' 0" to	7' 6"	- "	"
1	66	Bobcaygeon	134' x 33' x 5' 8" to	7' 0"	66	"
1	66	Buckhorn	134' x 33' x 5' 0" to	9'0"	66	"
1	44	Lovesick	134' x 33' x 5' 0" to	9'4"	"	"
2	**	Burleigh	134' x 33' x 6' 0" to	8'0"	"	"
1	6.	Young's point.	134' x 33' x 5' 0" to 1	14' 0"	"	"
1	66	Peterborough .	134' x 33' x 5' 0" to 1	10' 0"	"	"
1	66		134' x 33' x 7' 0" to 1		"	46
1	66		124' x 22' x 5' 0" to		66	

ST. PETER'S CANAL, CAPE BRETON.

Construction commenced	
" completed	
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	
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	
Length of canal	12 statute miles.
Number of locks	9
Dimensions of locks 2	200 feet by 45 feet.
Total rise or lockage	821 "
Depth of water on sills	9 "
Breadth of canal at bottom	80 "
Breadth of canal at water surface 1	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
66	completed													1780

SPLIT ROCK CANAL.

Construction	commenced.												,	1779
"	completed													1780

CASCADE POINT CANAL.

Construction	commenced				 			 		1782
"	completed	 						 		1783

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

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

BURLINGTON BAY CANAL.

commenced	
DESJARDINS CANAL.	

completed......

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

Construction commenced.....

ST. LAWRENCE NAVIGATION—TABLE OF DISTANCES.

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

			Statu	te Miles.
From	То	Sections of Navigation.	Intermediate.	Total to Straits of Belle-Ile.
Cape Whittle. West Point, Anticosti. Father Point. Rimouski. Bic. Isle-Verte (opp. Saguenay). Quebec. Three Rivers. Montreal. Lachine Cascade Point Coteau Landing. Cornwall Dickinson's Landing Farran Point. Upper end Croyle's Island. Williamsburg Rapide Plat. Point Iroquois Village. Presqu-Ile. Point Cardinal Galops Rapids Prescott. Kingston. Port Dalhousie. Port Colborne Amherstburg Windsor. Foot of St. Mary's Island. Sarnia Footof St. Joseph's Island. Sault-Ste. Marie. Head of Sault Ste. Marie. Pointe aux Pins. Port Arthur to Lake Sheba: Lake Shebandowan to Nort North-west Angle to Winni	West Point, Anticostic. Father Point Rimouski Bic. Isle Verte. Quebec. Three Rivers. Montreal Lachine. Cascade Point Coteau Landing. Cornwall Dickinson's Landing Farran's Point. Upper end of Croyle's Island. Williamsburg or Morrisburg. Rapide Plat Point Iroquois Village. Upper end Presqu'Ile. Point Cardinal, Edwardsburg. Head of Galops Rapids Prescott. Kingston Port Dalhousie. Port Colborne. Amherstburg Windsor Foot of St. Mary's Island Sarnia Foot of St. Joseph Island Foot of Sault Ste. Marie.	Lachine Canal Lake St. Louis Soulanges Canal Lake St. Louis Cornwall Canal River St. Lawrence Farran's Point River St. Lawrence Rapide Plat Canal River St. Lawrence Point Iroquois Canal Junction Canal Galops Canal Lake Ontario Welland Canal Lake Erie River Detroit Lake St. Clair River St. Clair River St. Clair River St. Clair Lake Huron River Ste. Marie Sault Ste. Marie Sault Ste. Marie Lake Superior	$\begin{array}{c} 240 \\ 201 \\ 202 \\ 6 \\ 12 \\ 39 \\ 126 \\ 74 \\ 86 \\ 8\frac{1}{2} \\ 16 \\ 14 \\ 30 \\ 111\frac{1}{2} \\ 5 \\ 3\frac{4}{4} \\ 4\frac{1}{2} \\ 3 \\ 2\frac{5}{8} \\ 27 \\ 8 \\ 59 \\ 170 \\ 268 \\ 232 \\ 18 \\ 25 \\ 33 \\ 270 \\ 47 \\ 1 \\ 7 \\ 266 \\ 45 \\ 312 \\ 95 \\ 390 \\ \end{array}$	$\begin{array}{c} 240 \\ 441 \\ 643 \\ 649 \\ 661 \\ 700 \\ 826 \\ 900 \\ 986 \\ 994 \\ 1,0094 \\ 1,021 \\ 1,053 \\ 1,065 \\ 1,0704 \\ 1,071 \\ 1,081 \\ 1,085 \\ 1,090 \\ 1,093 \\ 1,095 \\ 1,105 \\ 1,164 \\ 1,334 \\ 1,360 \\ 2 \\ 1,592 \\ 2 \\ 1,938 \\ 3 \\ 1,986 \\ 2 \\ 1,983 \\ 3 \\ 2,259 \\ 3 \end{array}$

Of the 2,259\frac{3}{2} miles from the Straits of Belle-Ile to the head of Lake Superior, 73\frac{1}{2} miles are artificia navigation, and 2,188\frac{3}{4} open navigation.

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

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

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

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

Chicago 525 miles, and to Milwaukee, 442 miles.

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

Station.	Name of Station.	Distances from	L	ocks.		of Arti- Canal at Station les.		
No. of	Traine of Station.	Ottawa.	No.	Lift at Low water.	No.	Length.	Height.	Length ficial each in mil
		Miles.		Rise. Ft. In.		Feet.	Feet.	
1	Ottawa	0	8	82 0	3	$ \begin{cases} 230 \\ 1,320 \\ 1,616 \end{cases} $	13 33 14	
2	Hartwell's	41/4	2	22 0		100	28 [4.00
3	Hogsback	$5\frac{1}{2}$	2	13 6	1	320	60)	0.10
4	Black Rapids	$9\frac{1}{2}$	1	10 0	1	300	12	0.13
5	Long IslandBurritt's	$14\frac{5}{4}$ $40\frac{3}{4}$	3	27 0 10 6	3	850 240	68	1.50
7	Nicholson	433	2	15 2	1	500	9	0.50
8	Clowes	441	1	10 6	1	481	16	0.05
9	Merrickville	$46\frac{5}{4}$	3	25 0	1	150	6	0.33
10	Maitland	55	1	4 9	1	270	8	0.13
11	Edmunds	$ \begin{array}{c c} 59\frac{1}{2} \\ 60\frac{1}{2} \end{array} $	$\frac{1}{2}$	10 10 15 6	1 1	343 250	8 20	0.06
12 13	Old Slys Smith's Falls	$61\frac{1}{6}$	4	33 9	2	600	24	0.13
14	First Rapids or Poonamalie	64	î	7 9	1	260	5	1.25
15	Narrows	831	1	4 0	1	600	9	0.06
	Total rise at low water			292 3				
			1	Fall.				
16	Isthmus	871/2	1	4 0				1.25
17	Chaffey	92	1	12 6				0.13
18	Davis	$94\frac{1}{2}$	1	9 0	1	300	15	0.06
19	Jones' Falls	97½ 108½	4 2	60 0	1	300 200	60 20	1.75
20 21	Brewer's Upper Mills	110	1	14 2	1	200	12	4.25
22 23	Kingston Mills	$120\frac{1}{4}$	4	46 8	1	6,042	14	0.25
	Total fall at low water			165 4				
	Total		47		24	15,472		16:46

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