

from Montreal to Kingston. The Lachine Canal ( $8\frac{1}{2}$  miles) is common to this system and the St. Lawrence system.

NAME.	LOCKS.				
	Length in	Number.	Dimensions.	Rise in	Depth on Sill.
	Miles.		Ft.	Ft.	Ft.
The St. Anne's Lock.....	$\frac{1}{2}$	1	200 by 45	3	9
Carillon.....	$\frac{1}{2}$	2	200 by 45	16	9
Chute à Blondeau.....					
Grenville.....	$5\frac{1}{2}$	5	200 by 45	$43\frac{3}{4}$	9
Rideau.....	$16\frac{1}{2}$ *	49†	134 by 33	$282\frac{1}{2}$	5
Perth Branch.....	6	2	134 by 32	26	$5\frac{1}{2}$
Total... ..	$29\frac{1}{2}$	59			

\* The total length of navigation waters is  $126\frac{1}{2}$  miles. The total distance from Montreal to Kingston by this route is  $245\frac{1}{2}$  miles. The lockage is  $446\frac{1}{2}$  feet,  $282\frac{1}{2}$  being rise and 164 fall.

† Thirty-five ascending and 14 descending.

On the Upper Ottawa are the Culbute works, situated at L'Islet. These surmount the Culbute and L'Islet rapids on the northern branch of the Ottawa River. The works comprise two locks and three continuous dams.

### (3) THE RICHELIEU AND LAKE CHAMPLAIN SYSTEM.

1047. This third line of improvements was designed with a view of placing the St. Lawrence in communication with Lake Champlain and the State of New York system of canals, which leads to the Hudson River and the port of New York. Boats leaving Canadian waters for New York enter the mouth of the Richelieu River at Sorel on the St. Lawrence, 46 miles below Montreal and 114 above Quebec. From the mouth of the Richelieu vessels ascend 14 miles to St. Ours, where they are lifted 5 feet. Proceeding up the Richelieu 32 miles further they enter the Chambly Canal, which in a space of 12 miles raises them by lockage 74 feet more, and after traversing 23 miles more of the Richelieu the vessels reach the Canadian frontier. The total length of canal navigation between Montreal and New York by this route is 85 miles, and the total lockage ascending and descending is 283 feet; the total distance is 457 miles. The distance from Sorel to the boundary line is 81 miles, and from the boundary to New York city 330 miles. The St. Ours lock is one-eighth of a mile in length. Its dimensions are 200 feet by 45 feet, and the depth of water on the sills is 7 feet at low water.

The Chambly Canal has nine locks, and the depth of water on the sills is 7 feet. The dimensions of the lock vary from 118 feet to 125 feet in length and from  $22\frac{1}{2}$  feet to 24 feet in width.

This completes the general view of the canal systems connected with the St. Lawrence River and its tributaries.

1048. In the other provinces few attempts have been made in the direction of canal building.

Governor Wentworth, in 1794, proposed to connect Halifax Harbour with Cobequid Bay and Basin of Minas by the Shubenacadie Canal. Directors