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## CANALS.

The Canals of the Dominion have been constructed on the following routes of inland navigation :—

1. The St. Lawrence and Western Lakes.
2. The Ottawa, to the City of Ottawa.
3. The Rideau navigation from Ottawa to Kingston.
4. The River Richelieu to Lake Champlain.
5. St. Peter's Canal, Cape Breton, Nova Scotia.

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### RIVER ST. LAWRENCE AND LAKES.

This navigation extends from the Straits of Belle-Ile, Newfoundland, to Duluth at the head of Lake Superior, a distance of 2,384 statute miles.

The canals on the route are the Lachine, Beauharnois, Cornwall, Farran's Point, Rapid Plat, Galops and Welland. Their total length is 70.83 miles ; total lockage, 536½ feet ; number of locks, 54.

The St. Mary Canal is situated on the United States' side of the channel, and was constructed by that Government to avoid the St. Mary Rapid. It connects Lakes Huron and Superior. It is 1.17 miles long, and has 18 feet lockage, with a depth of water on sills of 12 feet.

Lake Superior is about 600 feet above the highest tidal flow of the St. Lawrence at Three Rivers.

A statement of distances, and sections of navigation, from the Straits of Belle Ile to Duluth, at the head of Lake Superior, are given. (Appendix 2, pages 8 & table A.)

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### LACHINE CANAL.

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| Length of Canal.....                   | 8½ statute miles.         |
| Number of locks.....                   | 5                         |
| Dimensions of locks.....               | 200 feet by 45 feet.      |
| Total rise of lockage.....             | 44½ feet.                 |
| Depth of water on sills                | { at two locks..... 16 "  |
|  | { at three locks..... 9 " |
| Breadth of canal at bottom.....        | 80 "                      |
| Breadth of canal at water surface..... | 120 "                     |

This canal extends from the City of Montreal to the Village of Lachine, thereby enabling vessels to avoid the St. Louis Rapids, the first series of rapids which bar the ascent of the River St. Lawrence, for a distance of 986 miles from the Straits of Belle-Ile.