

carried on at both the beginning and end of winter. This is particularly the case in connection with sea-going shipping from Montreal: these operations are primarily intended to prevent flood conditions during the spring ice break-up.

2.—Duration of the Season of Open Navigation on the St. Lawrence Ship Channel, 1933-46

NOTE.—Figures for the years 1882-1911 are given at p. 756 of the 1934-35 Year Book and for 1912-32 at p. 615 of the 1942 edition.

| Year | Channel Open, Quebec, to Montreal ¹ | First Arrival from Sea, Montreal Harbour | Last Departure for Sea, Montreal Harbour | Year | Channel Open, Quebec to Montreal ¹ | First Arrival from Sea, Montreal Harbour | Last Departure for Sea, Montreal Harbour |
|-----------|--|--|--|-----------|---|--|--|
| 1933..... | Mar. 23 | Apr. 14 | Dec. 6 | 1940..... | Apr. 23 | Apr. 24 | Dec. 5 |
| 1934..... | " 28 | " 26 | " 8 | 1941..... | " 14 | " 19 | " 17 |
| 1935..... | " 30 | " 15 | " 9 | 1942..... | " 17 | May 2 | " 16 |
| 1936..... | " 28 | " 13 | " 11 | 1943..... | " 29 | " 24 | " 13 |
| 1937..... | Apr. 9 | " 19 | " 8 | 1944..... | " 20 | Apr. 21 | " 9 |
| 1938..... | " 12 | " 18 | " 4 | 1945..... | " 1 | " 9 | " 3 |
| 1939..... | " 29 | " 29 | " 12 | 1946..... | " 1 | " 12 | " 18 |

¹ "Channel Open" means the route can be navigated although there may be floating ice in the river.

Subsection 3.—Canals

Before the period of extensive railway construction, which commenced for Canada in the 1850's, the water routes, more especially the St. Lawrence, the Great Lakes, and the Ottawa River, were the chief avenues of transportation. These routes were interrupted at certain points, necessitating portages and, to eliminate the toil of unloading, transporting and reloading at the portages, canals were constructed.

The earliest mention of canals in Canada is in connection with the Lachine Canal, begun by early French settlers in 1700. Only after the conquest of Canada by the British, however, were improvements of the main water routes made. In the early part of the nineteenth century increased internal and foreign trade and the introduction of steam navigation resulted in more attention being given to this work. Although some of the early canals were constructed primarily for military purposes, they soon became essential to the commercial life of the country. However, since the development of railways in Canada and, even more, since the growth of motor-vehicle traffic, the canals, with the exception of those on the Great Lakes-St. Lawrence River Route, are playing a less important part in the transportation activities of the country.

The principal canals of Canada are under the jurisdiction of the Federal Department of Transport and each is accessible from the Atlantic Ocean. They serve six routes: (1) Montreal to Port Arthur and Fort William, via the St. Lawrence River and Great Lakes; (2) Montreal to the International Boundary near Lake Champlain, via the Richelieu River; (3) Montreal to Ottawa, via the Ottawa River; (4) Ottawa to Perth and Kingston, via the Rideau and Cataraqui Rivers; (5) Trenton, at the mouth of the Trent River on Lake Ontario, to the mouth of the Severn River on Lake Huron; and (6) St. Peters, Nova Scotia, on the Atlantic Ocean, to the Bras d'Or Lakes. The aggregate length of these six routes is 1,844 miles, the total of actual canal being 535 miles.