Description	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
	No.	No.	No.	No.	No,	No.	No.	No.	No.	No.	No.	No.
Hand fog horns Hand fog bells Gas, and combination gas. whistling, and bell	147 4	151 4	152 4	153 4	154 4	154 4	155 4	158 4	158 4	158 4	156 4	154 4
buoys Whistling buoys Bell buoys Submarine bells Fog guns and bombs Fog alarm stations only.	411 40 111 4 5 13	425 40 119 4 5 13	429 40 119 4 5 13	436 42 119 3 5 13	444 42 122 2 5 13	440 41 122 2 5 13	438 41 122 2 4 13	441 41 124 2 6 13	445 41 126 2 9 13	460 39 127 2 12 13	456 41 124 2 13 13	464 44 122 2 13 13

2.--Marine Danger Signals Maintained in Canada, Fiscal Years 1929-40-concluded

A great deal has been done to improve navigable waters by dredging in channels and harbours, by the removal of obstructions, and by the building of remedial works to maintain or control water levels. Probably the largest task of this nature has been the St. Lawrence River Ship Channel. An extensive floating plant is in service to maintain and improve the deep-water channel from Montreal to the sea for ocean-going shipping. Incidental to these developments of navigable waters are works to guard shorelines and prevent erosion, and also the control of roads and bridges that cross navigable channels. In order to prolong the season of navigation in important waters that freeze over in winter, ice-breaking operations are carried on at both the beginning and end of winter. This is particularly the case in connection with sea-going shipping from Montreal.

3.—Duration of the Season of Open Navigation on the St. Lawrence Ship Channel, 1911-40

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	
1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1925	Apr. 25 " 29 " 14 " 25 " 14 " 22 " 22 " 22 " 22 " 16 " 18 Mar. 29 Apr. 13 " 29 " 17 " 10	Apr. 26 " 30 " 19 " 29 " 30 May 1 " 1 " 7 Apr. 22 " 25 " 21 " 24 May 3 Apr. 24 " 22	Dec. 3 " 3 Nov. 29 Dec. 4 " 11 " 3 " 7 " 14 " 10 " 7 " 8 " 2 " 2 " 3 " 9	1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940	May 1 Apr. 11 " 26 " 10 " 12 Mar. 19 " 27 " 23 " 28 " 30 " 28 Apr. 9 " 12 " 29 " 23	May 3 Apr. 12 " 26 " 20 " 21 " 15 " 14 " 14 " 14 " 26 " 15 " 13 " 19 " 18 " 29 " 24	Dec. 6 " 6 " 7 " 12 " 11 " 8 " 6 " 8 " 9 " 11 " 8 " 4 " 12 " 5	

Note.—For the years 1882-1910, see Canada Year Book, 1934-35, p. 756.

¹ "Channel Open" means it can be navigated although there may be floating ice still 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, 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 the canals of Canada were constructed.