

15.—Toll Revenue from St. Lawrence Seaway Traffic, classified by Type of Vessel and Type of Cargo, 1960 and 1961—concluded

Item	1960		1961	
	Upbound	Downbound	Upbound	Downbound
	\$	\$	\$	\$
Welland Canal Section				
Type of Vessel—				
Cargo.....	469,924	720,376	515,139	822,053
Tug and barge.....	14,257	16,759	10,269	15,115
Tanker.....	44,224	49,486	44,760	50,918
Other craft.....	1,599	1,732	940	1,237
Totals, Welland Canal Section.....	530,004	788,353	571,108	889,343
Type of Cargo—				
Bulk.....	235,472	654,459	208,544	747,238
General.....	70,350	27,514	74,543	14,043
Mixed.....	29,921	74,572	40,393	96,920
Passengers.....	2,455	3,365	5,045	3,067
In Ballast—				
Ocean.....	40,239	1,171	49,320	1,535
Laker.....	148,478	24,334	191,160	24,303
Other.....	3,089	2,938	2,103	2,237
Grand Totals.....	5,059,508	6,367,998	5,016,691	7,850,820

Subsection 5.—Marine Services of the Federal Government

The services covered in this Subsection deal with aids to navigation, including the maintenance of the St. Lawrence River Ship Channel, steamship inspection and pilotage service.

Aids to Navigation.—Included under aids to navigation are the lighthouses and the whole system of marine danger signals on the East and West Coasts of Canada, on Hudson Bay and Strait, the St. Lawrence River and Gulf, the Mackenzie River and Arctic passages, and the inland rivers and lakes—a very extensive system designed to provide safe navigation in all Canadian waters. In addition, a pilotage service is maintained in waters where navigation is difficult; this service is described at p. 814. A further aid to safe navigation is found in the chains of radio signal and direction-finding stations described under Marine Navigation at pp. 848-849. Lists of aids to navigation, with the exception of very minor ones, are published by the Department of Transport.

16.—Marine Danger Signals Maintained in Canada, Years Ended Mar. 31, 1960 and 1961

NOTE.—In addition to the aids to navigation listed, approximately 10,400 unlighted buoys, balises, dolphins and beacons are maintained. Lists of marine danger signals maintained from 1929 are given in the corresponding table of previous Year Books beginning with the 1941 edition.

Type of Signal	1960	1961	Type of Signal	1960	1961
	No.	No.		No.	No.
Lights.....	3,074	3,054	Hand fog horns and bells.....	98	85
Lightships.....	4	3	Lighted and combination lighted whistling and bell buoys.....	1,214	1,324
Light-keepers.....	930	903	Unlighted bell and whistling buoys.....	138	136
Fog whistles and sirens.....	39	45	Explosive signals.....	3	3
Diaphones and tyfons.....	268	270			
Mechanical bells and gongs.....	18	18			