

15.—Toll Revenue from St. Lawrence Seaway Traffic, classified by Type of Vessel and Type of Cargo, 1959 and 1960—concluded

Item	1959 ¹		1960	
	Upbound	Downbound	Upbound	Downbound
	\$	\$	\$	\$
Welland Canal Section				
Type of Vessel—				
Cargo.....	437,057	581,559	432,679	675,443
Cargo with passengers.....	43,441	40,792	37,245	44,933
Tug and barge.....	15,418	13,548	14,257	16,759
Tanker.....	39,439	41,805	44,224	49,486
Other craft.....	4,196	4,181	1,599	1,732
Totals, Welland Canal Section.....	539,551	681,885	530,004	788,353
Type of Cargo—				
Bulk.....	266,941	561,732	235,472	654,459
General.....	76,171	12,850	70,350	27,514
Mixed.....	33,248	60,365	29,921	74,572
Passengers.....	8,127	8,113	2,455	3,365
In Ballast—				
Ocean.....	30,126	4,184	40,239	1,171
Laker.....	111,694	27,769	148,478	24,334
Other.....	13,244	6,872	3,089	2,938
Grand Totals.....	6,056,451	5,211,862	5,059,508	6,367,908

Excludes pleasure craft.

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. 829. A further aid to safe navigation is found in the chains of radio signal and direction-finding stations described under Marine Navigation at p. 867. 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, 1959 and 1960

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	1959	1960	Type of Signal	1959	1960
	No.	No.		No.	No.
Lights.....	3,022	3,074	Hand fog horns and bells.....	105	98
Lightships.....	4	4	Lighted and combination lighted whistling and bell buoys.....	1,119	1,214
Light-keepers.....	980	930	Whistling buoys.....	30	30
Fog whistles and sirens.....	32	39	Bell buoys.....	110	108
Diaphones and tyfons.....	267	268	Explosive signals.....	4	3
Mechanical bells and gongs.....	20	18			