

Some years ago the discrimination of underwriters in the matter of insurance rates charged on ships plying to Canadian ports led the Department to feel that any reasonable expenditure which would tend to reduce these charges would be a sound investment. To this end 13 direction-finding stations have been established at specially selected sites with respect to navigational routes—7 on the east coast, 5 on Hudson bay and strait, and 1 on the west coast. These stations are fitted with special apparatus which enables the direction of the incoming radio signal transmitted by a ship to be accurately determined.

A more recent extension of the shore direction finder is the development of the direction-finding instrument on board ship. To assist this development, the Department has established radio beacon transmitters at a number of lighthouses and lightships (see Table 80). These radio beacons transmit characteristic radio signals with an approximate range of 50 miles every hour at advertised times during clear weather and continuously when the atmosphere in the vicinity of the station is so obscure as to impede navigation.

To insure the safety of life at sea, all passenger steamers and freighters plying to and from Canadian ports must carry radio equipment manned by competent operators in possession of a certificate of proficiency in radio. The Department maintains a complete radio inspection service to enforce this regulation. Inspectors located at various ports throughout the Dominion are responsible for checking the efficiency of the radio equipment on ships of all nationalities, and seeing that only competent operators are carried. Ships are also surveyed with a view to the issuance of the necessary certificates prescribed under the Safety of Life at Sea and Load Line Conventions Act, 1931. Examinations for certificates of proficiency in radio are conducted by the Radio Branch, and 5,631 certificates had been issued up to Mar. 31, 1935.

80.—Government-Owned Radio Stations in Canada, fiscal year ended Mar. 31, 1935.¹

Name of Station.	Situation.	Name of Station.	Situation.
East Coast.		RADIO BEACON STATIONS.	
Belle Isle, Nfld. ²	Belle Isle Straits.	Cape Whittle.....	Gulf of St. Lawrence.
Cape Race, Nfld. ²	Newfoundland.	West Point.....	Anticosti.
Chebucto Head, N.S. ²	Entrance Halifax Harbour.	Pointe des Monts.....	Gulf of St. Lawrence.
Clarke City.....	Gulf of St. Lawrence.	Perroquet Island.....	Gulf of St. Lawrence.
Fame Point, Que.*.....	" "	Natashquan Point.....	Gulf of St. Lawrence.
Father Point, Que.*.....	" "	Cape Bauld.....	N.W. Newfoundland.
Grindstone Island, Que.*.....	Magdalen Islands.	Cape Ray.....	S.W. Newfoundland.
Halifax Dockyard.....	Halifax, N.S.	Heath Point.....	Heath Point, Anticosti.
Montreal, Que.*.....	St. Lawrence River.	Lurcher Lightship.....	Off Yarmouth, N.S.
North Sydney*.....	Cape Breton, N.S.	Sambro Lightship.....	Off Halifax, N.S.
Point Amour, Nfld.*.....	Gulf of St. Lawrence.	Seal Island.....	S.E. of Nova Scotia.
Quebec, Que.*.....	St. Lawrence River.	LIFE-SAVING STATIONS.	
Sable Island*.....	North Atlantic.	Grindstone.....	Gulf of St. Lawrence.
Saint John, N.B. ²	Red Head, N.B.	Bird Rocks.....	Gulf of St. Lawrence.
Yarmouth, N.S. ²	Nova Scotia.	Little Wood Island....	Bay of Fundy.
DIRECTION-FINDING STATIONS.		Gannet Rock.....	Bay of Fundy.
Belle Isle D/F.....	Belle Isle Straits.	Great Lakes.	
Canso D/F.....	Nova Scotia.	Kingston, Ont.*.....	Barriefield Common.
Cape Race D/F.....	Newfoundland.	Midland, Ont.*.....	Georgian Bay.
Chebucto Head D/F.....	Entrance Halifax Harbour.	Point Edward, Ont.*...	Lake Huron.
Saint John D/F.....	Red Head, N.B.	Port Arthur, Ont.*.....	Port Arthur.
Saint Paul D/F.....	Nova Scotia.	Port Burwell, Ont.*...	Lake Erie.
Yarmouth D/F.....	Nova Scotia.	Sault Ste. Marie, Ont.*	Sault Ste. Marie, Ont.
		Tobermory, Ont.....	Entrance Georgian Bay Ont.
		Toronto, Ont.*.....	Toronto Island.

For footnotes see end of table, p. 732.