

1.—Radio Stations in Operation, by Class, as at Mar. 31, 1950

| Class  | No. | Class  | No.              |
|--|-----|--|------------------|
| <b>Department of Transport Stations</b>                        |     | <b>Other Stations</b>                                  |                  |
| Coast.....   | 3   | Ship (Class A).....                                    | 2,308            |
| Combined Coast and L.F. Direction Finding                      | 1   | Ship (Class B—Receiving only).....                     | 33               |
| Combined Coast, Radiotelephone and L.F. Direction Finding..... | 11  | Limited Coast.....                                     | 14               |
| Combined Coast and Radiobeacon.....                            | 3   | Aircraft.....  | 879              |
| Combined Coast, Radiobeacon and Lighthouse Radiotelephone..... | 1   | Public Commercial.....                                 | 100              |
| Combined Coast and Radiotelephone.....                         | 28  | Private Commercial.....                                | 4,750            |
| Combined Coast, Radiotelephone and Radiobeacon.....            | 1   | Municipal Police Private Commercial....                | 123              |
| Radiobeacon.....   | 37  | Private Commercial Broadcasting—                       |                  |
| Combined Radiobeacon and Lighthouse Radiotelephone.....        | 6   | Operated by the Canadian Broadcasting Corporation..... | 68               |
| Combined Radiobeacon and L.F. Direction Finding.....           | 2   | Operated by private owners.....                        | 168              |
| Combined Radiobeacon and Radiotelephone Radiotelephone.....    | 17  |  | 236              |
| Combined Radiotelephone and Radiotelegraph.....                | 2   | Technical or training schools.....                     | 8                |
| Ionosphere.....  | 10  | Experimental.....                                      | 181              |
| H.F. Direction Finding.....                                    | 2   | Commercial receiving.....                              | 424              |
| Monitoring.....  | 5   | Commercial receiving (special).....                    | 123              |
| Land.....  | 1   | Amateur experimental.....                              | 6,417            |
| Ship (Class A).....  | 24  | Private radio receiving.....                           | 2,161,635        |
| Aircraft.....  | 26  | Free to the blind.....                                 | 8,513            |
| Radio Range.....   | 43  | Free to hospitals and charitable institutions.....     | 99               |
| Combined Radio Range, Radiotelegraph and Radiotelephone.....   | 49  | Free to schools.....                                   | 6,764            |
| Lighthouse Radiotelephone.....                                 | 126 | Free to crystal receivers.....                         | 2                |
| Fan Marker.....  | 10  | Free to Federal Government.....                        | 432              |
| Weather Reporting.....   | 5   |  | 2,177,445        |
| Frequency Modulated Relay.....                                 | 6   |  |                  |
| Loran (Long range aid to navigation).....                      | 4   | <b>Total, All Stations.....</b>                        | <b>2,193,466</b> |

**Control and Licensing of Marine and Aeronautical Radio.**—Under the Safety of Life at Sea Convention and the Canada Shipping Act, most passenger ships and larger cargo ships must be fitted with radiotelegraph equipment, primarily for use in cases of distress. This requirement includes certain standards that the equipment must meet to fulfil the purposes for which it is fitted, as well as standards of proficiency of operating personnel. Type approval is given for each make and model of equipment which comes up to the required standard and, in addition, the ship station as a whole is inspected before the licence is issued and periodically thereafter. Foreign ships are subject to inspection before sailing from Canadian ports to ensure that they conform with the requirements of the Safety of Life at Sea Convention. Approximately 3,300 ships are inspected annually.

Analogous inspections of aircraft radio stations are carried out and about 310 such stations were inspected in 1949.

Standards are provided specifying in detail the requirements to be met to ensure an airworthy installation. These requirements are contained in Radio Division Circular C.R. 1, copies of which can be obtained from any Departmental Radio Inspector.

A 'type certificate' of airworthiness is granted to manufacturers for each type (model) aircraft radio equipment that has been demonstrated to meet the requirements. These requirements are contained in Circular C.R. 2, "Requirements for Type Certificate of Airworthiness for Aircraft Radio Equipment". Only type-certificated equipment is accepted for use on scheduled airlines and, while other equipment may be acceptable in other aircraft upon inspection at the time of