

The two 50,000-watt transmitters employed by the International Service can operate in any of the international short-wave broadcasting bands. The frequencies used depend upon climatic conditions, the geographical areas served, the time of day and season.

**Program Service and Development.**—During the fiscal year ended Mar. 31, 1945, 54,962 programs representing 16,646:55 hours of broadcasting were presented on the respective CBC Trans-Canada, Dominion and French networks. Of the total broadcasting hours, 80·4 p.c. were devoted to non-commercial and public-service programs and the remaining 19·6 p.c. to commercial presentations. Of all broadcasting hours on the various networks, 17·7 p.c. were given on a national basis and heard simultaneously from coast to coast.

The figures in this section deal with network activities only; they do not include local commercial or non-commercial broadcasts by CBC or privately owned stations.

The Trans-Canada regional networks released 50·8 p.c. of all network broadcasting hours. This figure represents the total time consumed by regional networks in the presentation of regionally originated and delayed broadcasts. It is only through the presentation of programs on regional networks that the CBC is able to render to the different parts of Canada complete service on news bulletins, and institutional, educational and specialized programs at times when they coincide best with listening habits throughout the day. The fact that there are five time zones further complicates broadcasting problems.

Dominion network operations accounted for 6·2 p.c. of total hours of broadcasting or 1,042:15 hours. This small proportion is attributable to the fact that the Dominion network operates only during the evening hours. During the past year, the Dominion network operated on a daily average of 2:50 hours as compared with the Trans-Canada average daily operation of 28:30 hours, calculated on a time-consuming basis and including simultaneous multiple Trans-Canada network operations. Of the 1,042:15 total hours of Dominion network broadcasting, 517:40 were devoted to sustaining programs and 524:35 to commercial.

An interesting point to be noted in a comparison of Dominion network and Trans-Canada non-commercial service is that approximately two-thirds of Dominion non-commercial hours were scheduled nationally and one-third regionally, in contrast to Trans-Canada non-commercial service, where one-sixth was carried nationally and five-sixths regionally. One reason for this difference is that, since the Dominion network operates almost exclusively during peak evening hours, there is not the same need to set up regionalized networks to take care of school broadcasts, agricultural and other public-service programs designed for release at convenient times throughout the day in the five different time zones.

Of all non-commercial program hours 85 p.c. were originated by the CBC, 8·9 p.c. were broadcasts from United States networks and 6·1 p.c. from the BBC. Table 9 shows the proportion of total time devoted to sustaining as compared with commercial programs and analyses those directed to music as compared with the spoken word.

In order to give adequate service to French-speaking listeners, 26·6 p.c. of all sustaining program hours and 30·9 p.c. of commercial hours were devoted exclusively to the French network. These figures represent a total of 4,571:05 hours of broadcasting. In addition to the foregoing, the French network also carried 410:20 hours of non-commercial and commercial service from either the Trans-Canada or