

(e) *Meteorological Office, Wigram.*—An investigation into the distribution of surface winds at Wigram has been completed and detailed wind roses have been prepared. This investigation was undertaken at the request of the Chief Flying Instructor in connection with the laying-down of a permanent flare-path for night flying activities.

(f) *Meteorological Office, Taieri.*—Work has been continued on the frost investigations for the fruitgrowing districts of Central Otago, and the Taieri office has continued to assist in the inspection and maintenance of meteorological equipment at the Government Research Orchard at Earnscliffe.

Training of Professional Staff.—During the year one course in basic meteorology for the training of prospective forecasters was conducted, the course lasting approximately two months.

LIBRARY AND PUBLICATIONS

Library.—As in previous years, the library has continued to provide a specialized service covering all phases of the work of the Meteorological Service. In order to increase the effectiveness of this service provision has been made for the progressive extension of the libraries held at branch meteorological offices throughout the country. As part of the programme, arrangements have been made to hold one copy of the more important standard text-books on meteorology at each branch forecasting office.

The number of publications received from overseas on an exchange basis has continued to increase, and in this way a number of important additions have been made to the library. Lack of space for the adequate handling of this material is now, however, a serious problem.

As in previous years, the library has dealt with a large number of requests for information from the general public and Government Departments. The public relations aspect of the library work has continued to expand, and various articles were prepared for the press regarding the work of the Meteorological Service. An agriculture bulletin entitled "New Zealand's Weather Forecast Service" was prepared for the Canterbury Chamber of Commerce, and has had a wide circulation among farmers throughout the country.

Publications.—In addition to the routine issues of climatological information, the following publications were issued by the Meteorological Service during the year under review :—

(a) *Meteorological Office Notes.*—These publications contain the results of meteorological research work carried out by staff members. Where such work is not of an overspecialized nature and the results are of general interest, they are published in the *New Zealand Journal of Science and Technology*, and the Meteorological Office Note is issued as a reprint from that *Journal*. During the year three additional Notes (Nos. 32-34) were prepared for publication.

(b) *Technical Information Circulars.*—In order to supplement the library material circulated to branch Meteorological Offices extracts or abstracts of the more important papers appearing in overseas journals are cyclostyled and issued for retention by branches as N.Z.M.O. Technical Information Circulars. During this year circulars Nos. 56 to 67 were issued.

(c) *Circular Notes.*—To promote investigations into local weather phenomena and to improve the standard of forecasting and observing throughout the Service members of the staff are encouraged to prepare papers containing the results of any special work that is undertaken. These notes, which are chiefly of local interest, are cyclostyled and issued within the Meteorological Service as N.Z.M.O. Circular Notes.