

(h) *Subterranean Clover for Soil Improvement*.—An inspection was made of an area of subterranean clover growing as a cover-crop in a private orchard. Analysis of soil samples at a time when nitrogen should be in optimum supply showed that the topsoil under clover contained 15.7 p.p.m. nitrate nitrogen and 24.1 p.p.m. ammoniacal nitrogen, as compared with 4.6 p.p.m. and 7.2 p.p.m. respectively on the adjoining clean-cultivated portion of the orchard.

(i) *Rootstock Trials at Annesbrook Orchard*.—The soil in this orchard is a clay loam of medium fertility. On this area Double Vigour stock (vegetatively propagated French Crab seedling) has given better results than Northern Spy stock with the varieties Jonathan, Statesman, and Sturmer.

(j) *Raspberry Fertilizer Experiments*.—In view of the low potash status of many raspberry soils in Nelson, two fertilizer experiments have been laid down in commercial gardens in the Tadmor Valley. So far, a "complete" mixture used at $7\frac{1}{4}$ cwt. per acre has given the best result, and extra potash has given no further improvement.

(k) *Raspberry Disease Survey*.—This survey in the Tadmor-Tapawera district has been continued. The more important fungi found on unhealthy or dying plants are silver-leaf (*Stereum purpureum*), root-rot (*Rosellinia* sp.), *Nectria*, and cane-wilt (*Leptosphaeria comiothyrium*). Inadequate soil drainage or damage to roots by grass-grub and cultivation implements is in certain cases responsible for weakening the plants, thus favouring the development of disease.

(l) *Raspberry Bud-moth*.—A small plot of raspberries at the Cawthron Institute has been infected with bud-moth with a view to detailed studies on the behaviour of the insect and its control.

MISCELLANEOUS

Apple Dehydration.—The Fruit Section of Head Office has collaborated with the Chemical Engineering Section of the Dominion Laboratory in providing technical advice and assistance to the Internal Marketing Division in connection with the commercial dehydration of apples.

INDUSTRIAL PSYCHOLOGY DIVISION

Advisory Committee.—Mr. H. E. Moston (Chairman); Drs. F. S. Maclean, E. Marsden; Messrs. J. Ferguson, D. Lagan, E. Langford, D. I. Macdonald, N. S. Woods, R. T. Wright, D. Sandys Wunsch, L. S. Hearnshaw (Director).

FUNCTIONS OF THE DIVISION

The Industrial Psychology Division exists to serve New Zealand industry, and it attempts to do this in three ways—firstly, by research to elucidate problems upon which practical industrialists are unable with the resources at their disposal to arrive at any solution; secondly, by education to disseminate the results of the work carried out by industrial psychologists; and, thirdly, by direct assistance and advice, to help firms and other organizations that ask for such aid. This report outlines the ways in which this threefold programme has been carried out during the past year.

RESEARCH

(1) *The Girl Worker in Industry*.—This research into the attitudes and problems of the girl worker in industry, which commenced last year and was referred to in last year's annual report, has been completed during the year, and it is hoped that the report will be published in book form during 1946.