

It is by means of cartographic recording in the field that geographic investigation of such settlement types as those outlined must proceed, perhaps in sample areas. It is a somewhat time-consuming task, but no alternative all-embracing source of information is to be found. Census reports include all small rural hamlets in the totals of population for the surrounding locality, and no guide to the true extent of nucleation of settlement can be found from this source. By seeking to recognise the areal extent of combinations of settlement types, such as those outlined and illustrated* in this address from the several field traverses undertaken, conclusions of geographic value should be reached. The assessment of settlement data within a regional context must be the aim. Such conclusions, and the data obtained in the field, are not only of value to academic geographers, in their search for knowledge on the forms of the occupation of the earth's surface, but also will be of value to others concerned with the economic progress of New Zealand's rural communities. Although perhaps 70 per cent. of New Zealanders now dwell in urban or suburban surroundings, it is nevertheless upon the economic well-being of the rural areas that the national economy fundamentally rests.

GENERAL SYMPOSIA (SECTION F)

1. *Climate and Agriculture* (with Section L1)

FINKELSTEIN, J. Evaporation in New Zealand.

ROBERTSON, N. G. Soil temperatures in New Zealand.

MUNSTER, R. J. The measurement of solar radiation in New Zealand.

VAN'T WOUDE, B. D. Observations on water-table level and summer pasture production.

MOUAT, H. M. Some effects of climate on fruit plants.

ATKINSON, J. D. Frost in relation to fruit growing.

CLOSS, R. L. Evaporation and soil moisture.

CURRY, L. Climate and pasture growth in New Zealand.

2. *Greater Auckland and its problems* (with Section K).

JONES, F. W. O. The problems of Greater Auckland.

MCELROY, R. G. Urban sprawl.

KNIGHT, C. R. Town planning within the urban fence.

JOBBERNS, G. The culture centre.

3. *Impact of substitute foods and fibres on New Zealand's primary industries*

See Section B.

4. *Social Science Research in New Zealand* (with Sections II and J)

RUTHERFORD, J. Methods of Research in the Social Sciences

The following sectional papers were also read:—

FOX, J. W. Land use survey

KIBBLEWHITE, Miss M. B. Contrasting patterns of early settlement in Northland and Central Otago.

POWNALL, L. L. The historical evolution of the urban hierarchy in New Zealand.

WALLACE, W. H. Some functional aspects of railways in Northland

* A series of slides illustrated the settlement types mentioned in Canterbury and Southland

