

# The Canadian Entomologist.

VOL. XLIV.

LONDON, MAY, 1912.

No. 5

## MAP ILLUSTRATING FAUNAL ZONES OF NORTH AMERICA.

Through the courtesy of Dr. H. W. Henshaw, Chief of the Biological Survey of the United States Department of Agriculture, we are enabled to publish the Fourth Provisional Zone Map of North America. This map has not yet been published by the Biological Survey, by whom it was prepared, to accompany a revised edition of their Bulletin No. 10, now in course of preparation, but has appeared in the American Ornithologists' Check List.

Our object in publishing this map is primarily to assist those engaged in the preparation of the Catalogue of the Insects of Canada and Newfoundland. (See pp. 273-275 of Vol. XLIII of this journal.) On page 274 it was stated that the geographical distribution of each species within Canada and Newfoundland will be given. "This will be indicated as a rule by Provinces, in order from east to west, e.g., N. S., Ont., B. C., etc. The characteristic faunal zones inhabited by the species will be indicated so far as it may be possible by abbreviations, thus: Ar.-Arctic, H.-Hudsonian, C.-Canadian, T.-Transitional" With the addition of Upper Austral, to be indicated by "U. A.," these are all the zones which are represented in Canada and Newfoundland, so far as we know at present. The entire map of North America has been published, as it is impossible to consider or discuss the faunal zones of Canada apart from those of the United States.

In stating the distribution of provinces, the recent extensions made to the boundaries of the Provinces of Manitoba, Ontario and Quebec should be noted. The northern boundary of Manitoba is marked by the 60th parallel, and the new north-eastern boundary is a line drawn from the north-eastern corner of the original boundaries to the shore of the Hudson Bay, where the latter is intersected by the 89th meridian. The Province of Ontario extends northward to the Hudson Bay, east of the eastern boundary of Manitoba. The Province of Quebec extends northwards, and includes the region of Ungava.

Mr. Edwin C. Van Dyke, of San Francisco, Cal., who has made a careful study of faunas of western North America, in a recent letter to me,