

GEOLOGICAL AND NATURAL HISTORY SURVEY OF CANADA.

CONTRIBUTIONS TO CANADIAN PALEONTOLOGY.

VOLUME I.

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1. *Report on the Invertebrata of the Laramie and Cretaceous rocks of the vicinity of the Bow and Belly Rivers and adjacent localities in the North-West Territory.*

The present paper is intended primarily as a palaeontological supplement or appendix to Dr. G. M. Dawson's "Report on the Region in the Vicinity of the Bow and Belly Rivers," published in 1885 in the "Report of Progress" of the Survey for 1882-83-84. It is mainly based upon collections made by Dr. Dawson and Messrs. R. G. McConnell, J. B. Tyrrell and T. C. Weston in the years 1881-84, but in order to make it as complete a presentation as possible of the present state of our knowledge of the invertebrate fauna of the Laramie and Cretaceous rocks of the Canadian North-West, it contains also a revision of the species from these formations obtained by Dr. Dawson in 1874 in his capacity of Geologist to H. M. North American Boundary Commission, and identifications of a few Cretaceous fossils collected by Prof. Macoun in 1879.

Dr. Dawson's Report, in the volume referred to, contains several short lists of fossils, but these as there stated "are to be regarded as provisional only," and may be considered as superseded by the present paper.

The species are enumerated or described, as the case may be, in a stratigraphical and descending order corresponding as nearly as possible to the grouping and nomenclature in Dr. Dawson's Report. The only exceptions to this mode of arrangement occur in the case of a few of the specimens from the Laramie basin north of the typical region near the Belly River. In this northern part of the basin it has so far been impossible to correlate the sub-divisions of the Laramie with those of the Belly River and vicinity.

The writer desires to acknowledge his obligations to Dr. C. A. White, of the Smithsonian Institute, Washington, for a direct comparison of a number of Canadian specimens with the types of several of his own and of Mr. Meek's species in the museum of that institution, and for various and valuable critical suggestions.

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