

## TETRAOPES, Serv.

Moderate sized, stout insects, with short antennæ and strongly tuberculate thorax. They are found on *Asclepias*, the common milkweed, in the stems and roots of which they are said to breed. The two Canadian species may be known thus :

Smaller (.32-.48 in.); body beneath, legs and antennæ, black.

Above red; scutellum, four spots on the thorax and elytral markings (a spot on the umbone, a large median heart-shaped blotch and broad common apical space), black. These markings are liable to some variation through extension or diminution . . . . . *canteriator*, Drap.

Larger (.36-.56 in.); ground colours and thoracic ornamentation about as in the preceding species, the front angles and basal margin sometimes also dark. Elytra with umbonal, two ante-median (one subsutural, one discal) and one post-median spot on each, black . . . . . *tetraophthalmus*, Forst.

The bibliography of the North American Cerambycidæ is very extensive. Aside from detached descriptions of species and biological notes, the following papers, which are more or less synoptic or monographic in form, are recommended for consultation :

1847. Haldeman, S. S. Materials towards a history of the Coleoptera Longicornia of the United States. Trans. Am. Phil. Soc. Additions and corrections to same, Proc. Am. Phil. Soc., Vol. IV.

1850-1852. Leconte, J. L. An attempt to classify the Longicorn Coleoptera of America north of Mexico. Jour. Acad. Nat. Sci., Phila.

1873. Leconte, J. L. New species of North American Coleoptera, Part II., Smithsonian Institution. Contains tables of several genera.

1878. Horn, Geo. H. Notes on some genera of Cerambycidæ of the United States. Tr. Am. Ento. Soc.

1880. Horn, Geo. H. Notes on some genera of Cerambycidæ, with descriptions of new species. Tr. Am. Ento. Soc.

1885. Horn, Geo. H. Descriptions of some new Cerambycidæ, with notes. Tr. Am. Ento. Soc.

1884-1890. Leng, C. W. Synopses of Cerambycidæ. Begun in Bulletin Brooklyn Ento. Soc., Vol. VII., continued in Entomologica Americana, Vols. I.-VI. Contains tables of all genera up to and including the Lepturoides. The remainder are treated in a paper, cited below, by the same author in collaboration with Dr. Hamilton.

1890. Casey, Thos. L. Coleopterological Notices, II. Ann. N. Y. Acad. of Science. Tables of *Ergates* and *Tragosoma*.

1891 Casey, Thos. L. Coleopterological Notices, III. Ann. N. Y. Acad. of Sci. Contains synopses of several of the smaller genera.

1893. Casey, Thos. L. Coleopterological Notices, V. Ann. N. Y. Acad. Sci. Tables of four genera.

1896. Leng, C. W., and Hamilton, John, The Lamiinæ of North America. Trans. Am. Ento. Soc.