

where they may easily be seen and taken, since they swim very poorly, and are unable to dive rapidly. The species reported from Old Canada are eight in number, one of which (*obscurus*) may be erroneously identified, having been originally described from the Colorado River. The differential characters are:—

- A. Size larger (.23 in.), head and thorax shining, sparsely punctulate, the latter sparsely granulate at sides, median sulcus slightly undulate.....*oblongus*, Lec.
- AA. Size less (.13-.18 in.).
 - b. Elytra tuberculate (.13 in.).*tuberculatus*, Gyll.
 - bb. Elytra not tuberculate, alternate interspaces higher (.13 in.).....*inquinatus*, Mann.
 - bbb. Elytral interspaces not tuberculate nor alternating.
 - c. Hind angles of thorax obtuse.
 - d. Sides of thorax rounded in front, nearly straight behind (.18 in.).....*lacustris*, Lec.
 - dd. Sides of thorax regularly rounded.
 - Legs testaceous, median thoracic sulcus undulate (.17 in.).....*obscurus*, Lec.
 - Legs piceous, tibiae and tarsi testaceous, median thoracic sulcus nearly straight (.12 in.)... ..*nitidulus*, Lec.
 - cc. Hind angles of thorax rectangular.
 - Thorax not narrowed at base, sides nearly straight, elytra clouded with fuscous (.12 in.).....*linearis*, Lec.
 - Thorax slightly narrowed at base, sides subsinuate, elytra with fuscous markings, of which an inverted post-median sutural V- and two spots each side are most obvious (.10-.15 in.).....*lineatus*, Say.

HYDROCHUS, Leach.

Four species which are found in the same situations as *Helophorus* belong here, and, while differing considerably in facies from that genus, would at once be recognized as allied to it. The thorax is much narrower than the elytra, and the breadth only about equal to, or very slightly exceeding, the length.

- A. Smaller (.10 in.), elytral interstices not distinctly alternating, nor interrupted; thorax scarcely narrowed behind, sides straight, scarcely crenulate, basal foveæ deep.....*simplex*, Lec.
- AA. Larger (.13-.15 in.), elytral interstices alternating, and more or less interrupted.