

First Record In Canada of *Onthophilus pluricostatus* LeConte (Coleoptera: Histeridae) and a New Mention for the Rare Species *Lordithon niger* (Gravenhorst) (Coleoptera: Staphylinidae)

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SCIENTIFIC NOTE

FIRST RECORD IN CANADA OF *ONTHOPHILUS PLURICOSTATUS* LeConte
(COLEOPTERA: HISTERIDAE) AND A NEW MENTION FOR THE RARE SPECIES
LORDITHON NIGER (GRAVENHORST) (COLEOPTERA: STAPHYLINIDAE)

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We report the first record of the species *Onthophilus pluricostatus* LeConte (Coleoptera: Histeridae) in Canada, **new country record**, and a new mention for the rare species *Lordithon niger* (Gravenhorst) (Coleoptera: Staphylinidae). One specimen of *O. pluricostatus* was caught in a pitfall trap in a red oak (*Quercus rubra* L.; Fagaceae) stand in the Parc national du Mont-Saint-Bruno (N 45°33'3.5" W 73°19'27.8") in southern Québec. The trap used a solution of 40% ethanol and 5% vinegar as preservative and was active during 1–23 August 2011.

Our record represents the northernmost known range limit for *O. pluricostatus*. Its previously reported range extended northwards to Massachusetts, with the southern limit occurring in northern Florida and the western limit in Michigan (Bousquet and Laplante 2006). Although the species has not been reported from Ontario, a specimen reported from Detroit, Michigan indicates it may be found in that province (Helava 1978; Bousquet and Laplante 2006).

Two specimens of *L. niger* were observed together (one collected) under the bark of a mid-fallen dead deciduous tree (most likely sugar maple (*Acer saccharum* Marshall; Aceraceae) or red oak) on 18 May 2013, also in the Parc national du Mont-Saint-Bruno. The species is considered potentially endangered in New England (McCullough 1997), and potentially extirpated in Pennsylvania

(Rawlins and Bier 1998) and Virginia (Roble 2003). The status of this species is unknown in Canada, but seems less critical. Campbell (1982) reports only seven records of *L. niger* after 1942, but four of these were in Québec. Furthermore, Webster *et al.* (2012) report four records in New Brunswick between 2006–2009 and one in Québec for Saint-Raphaël in 2006. The other records of this species in Québec were for Québec City (four records) and West Brome (Campbell 1982).

The identification of *O. pluricostatus* was confirmed by Serge Laplante from the Canadian National Collection of Insects, Arachnids and Nematodes in Ottawa, Ontario where the voucher is kept. The specimens of *L. niger* were identified by the first author, and the voucher is kept in the arthropod collection in the laboratory of I. Tanya Handa at the Université du Québec à Montréal.

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