the Red Deer River locality—now known by the name of an adjacent post office, Dorothy—on July 23rd, 1907, which I have compared with both types in Smith's collection. In that collection also are a pair from Boreman, Montana, Aug., 1908, and a female from Westbourne, Man., Aug. 3rd, 1908, from Mr. J. B. Wallis. Sir George Hampson gives figures from coloured drawings sent him of both types. That of flavistriga is most like my specimen, but shorter winged. That of extensa is in accordance with my notes on that type, which is browner than any of the rest I have seen, though when I saw it it was greasy and probably discoloured.

600. Hadena castanea Grt.—This name stands wrongly in our lists as a synonym of bluviosa. The type of the latter is in the British Museum and is a very badly worn specimen from Vancouver Island. It is, as Hampson lists it, the species well known as arctica Bdv., which I believe was described from Labrador. A type of castanea is in the British Museum from California, and, according to Smith's Catalogue, there is another in the Tepper collection. That of cymosa from Washington Territory is in the British Museum also, and is the same as the type of castanea there, and distinct from arctica. Castanea is sienna brown, and cymosa fuscous brown, whilst the "ab. 1" of Hampson is a variegated form with pale shades in the subterminal area. Castanea occurs on Vancouver Island, often apparently in considerable numbers. Arctica occurs there also, but less commonly. Whilst I think it improbable that the two are one species, the variegated form of castanea sometimes resembles arctica so very closely as to make separation a matter of the very greatest difficulty, if not occasionally impossible.

In the Kootenai List Dr. Dyar records under *pluviosa* three specimens from Banff, Alta., July 21st, Aug. 11th and Sept. 10th, 1904, adding: "Apparently distinct from *arctica* Bdv., but very close to it." I did not see the specimens when at Washington, but must assume that he took the variegated form of *castanea*, and therefore so record it. I have not found the species amongst specimens sent me from time to time by Mr. Sanson.

601. H. loda Strk., syn. albiserrata Sm. Mr. Sanson has taken two males of this species at light at Banff, on Sept. 2nd, 1908, and