## Elhe đamalian Yytromonogita.

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FURTHER NOTES ON ALBERTA LEPIDOPTERA.
by F. H. WOlley dod, millarville, alta.
(Continued from page 327.)
209. Noctua rosaria Grt.-I consider this identical with European rubi Viewag. In my earlier collecting days in Alberta I seemed to recognize in what I was taught to call rosaria, the familiar rubi so common nearly everywhere in England. I noted them as probably identical after studying the British Museum material in 1909, and have now European and Calgary specimens in my collection which match exactly. The late C. G. Barrett claims that they are identical in his "Lepidoptera of the British Isles" (IV, p. 90), though in many cases his assciations of European with North American species are unjustified. Sir George Hampson keeps them distinct, ascribing to rosaria in the table dark streaks on the veins, stated to be lacking in rubi. This is a variable character in rosaria, of which, besides a long local series, I have three from Kaslo and over thirty from Vancouver Island.

Sir George Hampson still confuses Calgary specimens of rosaria with calgary Smith. Long familiarity with both in a state of nature would doubtless obviate this. They seem quite easily separable, and the differences pointed out in my former notes hold, except that I have since occasionally found rosaria with black in the cell.

A much nearer ally of rosaria is perumbrosa Dyar. Though there can be no doubt of their distinctness, the differences are hard to express in words. Perumbrosa and its eastern ally, rubifera, as I understand it, have varying shades of red and brown, but entirely lack the rosaceous tint of all rosaria that I have seen. The colour is also much more even throughout, whereas in rosaria the submedian and subterminal spaces are usually slightly, though rarely contrastingly, paler than the rest of the wing. The cross lines in perumbrosa, though indistinct, are finer and less diffuse. Structurally the thorax and abdomen are less robust, and the fore wing has both costa and hind margin more rounded.

