

THE ORTHOPTERA OF WESTERN CANADA.

BY THE EDITOR.

(Continued from page 276.)

Since the first part of the present paper appeared, Mr. Caudell has kindly called my attention to the omission from the list of references of his paper, "Notes on some Orthoptera from British Columbia" (Ent. News, 1904, pp. 62, 63). From this paper, which will be cited as "Caudell," the only additional records to be made to those already published in the present list are the following from Kaslo, B. C.: *Blattella germanica*, *Tetrix granulatus*, *T. Brunneri* and *T. crassus*.

Subfamily CEdipodinae.

29. *Arphia frigida* (Scudd.).

MAN.—Aweme, June 21, 1903, 1 ♀, yellow-winged. (Fletcher.)

SASK.—(a) Yellow-winged (*frigida*): Saskatoon, June 1, 1906, 1 ♀. (Willing.) (b) Red-winged (*arcta*): Alameda, May 30,

1901, 1 ♂; July 5, 1902, 1 ♀. Banff, July 7, 1907, Estevan, July 8, 1902, 2 ♀'s. Ft. Qu'Appelle, June 17, 1901,

1 ♂; Medicine Hat, May 30, 1904, 3 ♂'s, 5 ♀'s; Oct. 1, 1903, 1 ♀ nymph. Oxboro', May 29, 1901, 1 ♂, 1 ♀.

Radisson, June 30, 1907, 1 ♀; July 29, 1907, 1 ♀. Regina, May 31, 1909, 1 ♂; June 20, 1903, 1 ♀; July 5, 1903, 1 ♀.

Saltcoats, July 12 and 13, 1902, 1 ♂, 1 ♀. Saskatoon, June 20, 1902, 2 ♂'s, 1 ♀. (Willing.) Also recorded from Wood

End (Scudder*), Rudy (Fletcher³ and Rehn), and Radisson

(Rehn).

ALTA.—(a) Yellow winged: Banff, back of Tunnel Mt., July 1, 1908, 1 ♂, 1 ♀. The Race-track, Banff July 1, 1909, 1 ♂.

Also 2 ♂'s, 3 ♀'s from Banff without dates. (Sansou.)

(b) Red-winged: Banff, back of Tunnel Mt., June 25, 1908, 1 ♀. Also 3 ♂'s, 2 ♀'s from Banff without dates. (Sansou.)

Nymphs: Banff, May 28, 1908, 3 spec.; July 21, 1909, 1 spec. Also recorded from Banff as *A. teporata* (Fletcher³).

In the large series from Saskatchewan the wings vary from yellow, through deep orange to deep vermilion. The red colour is only rarely as deep a shade as in *A. pseudonietana*. The yellow sutural stripe of the tegmina is present in only three

*Small numerals following an authority's name refer to same numerals in the list of references.