

THE SPECIES OF ANABRUS AND THEIR DISTRIBUTION.

FROM an examination of over two hundred specimens of *Anabrus* from different parts of the west, there appear to be four species in the United States. The first described was (1) *A. simplex* Hald. (Stansb. Expl. Utah, 372, pl. 10, fig. 4) which was first recorded from Salt Lake and is found over the interior plateau west of the Rocky Mts., and north of southern Utah to the Sierras and, beyond them, in northern California, Oregon and Washington. The figures of the species given by Glover (Illustr., pl. 9, fig. 1, pl. 14, fig. 5), Thomas (Hayden's Fifth Ann. Rep., pl. 1, fig. 1), and Packard (Second Rep. Ent. Comm., 164) belong here, and this is probably the case also with the figures of Herman (Verh. zool.-bot. ges. Wien, 24: pl. 6, figs. 76-86), which I formerly doubted (Rep. Chief. eng., 1876, 500).

The second species described was (2) *A. purpurascens* Uhl. (Proc. Ent. soc. Phil., 2: 550), a name which must be restricted to the species found east of the Rocky Mts., from Montana, Dakota and Manitoba over the prairies and plains as far as Kansas. The

type specimens (in my collection) come from Red River, Manitoba, and the specimens mentioned by Uhler from Texas and Washington probably belonged to other species. *A. similis* Scudd. (Hayd. Rep. Nebr., 249) is a synonym of this. The figures given by Glover (Illustr., pl. 17, figs. 10, 11) belong here, but that by Packard (Second Rep. Ent. Comm., 163) belongs to the next species.

This is (3) *A. coloradus* Thom. (Hayden's Fifth Ann. Rep., 440), redescribed in part by me (Rep. Chief Eng., 1876, 500), a mountain and alpine form, found mostly in Colorado but also extending south to New Mexico and Texas, unless the specimens from the latter state (of which I have but few, in poor condition) belong to *A. purpurascens*. As stated above, this species is figured by Packard under the name *A. purpurascens*.

A (4) fourth undescribed species in my collection, from Texas, is readily distinguished from the others by its much slenderer and relatively longer legs. The other species referred at different times to *Anabrus* do not belong here (See Can. Ent., 26: 180-81).

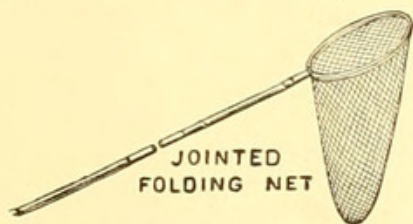
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