

NOTES ON THE NORTH AMERICAN SPECIES OF ISODONTIA,
PATTON, WITH DESCRIPTIONS OF A NEW
SPECIES AND VARIETY.

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The North American species of *Isodontia* may be distinguished by means of the following table :

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| 1. Mandible with two teeth (anterior tooth sometimes partly divided) . . . 2. | Mandible with three teeth 7. |
| 2. Petiole black 3. | Petiole yellow <i>exornata</i> , n. sp. |
| 3. Third segment of antenna longer than seventh or eighth 4. | Third segment of antenna shorter than seventh or eighth 5. |
| 4. Median segment above with long white hairs <i>macrocephala</i> , var. <i>cinerea</i> , n. var. | Median segment above without long white hairs . . . <i>macrocephala</i> , Fox. |
| 5. Body hairs gray 6. | Body hairs black <i>azteca</i> , Sauss., var. |
| 6. Front part of wings fuscous <i>azteca</i> , Sauss. | Wings entirely fuscous <i>azteca</i> , Sauss., var. |
| 7. Legs more or less yellowish 8. | Legs black <i>apicalis</i> , Sm. |
| 8. Abdomen black <i>tibialis</i> , Lep. | Abdomen more or less yellowish <i>elegans</i> , Sm. |

I am hardly prepared at present to accept *Isodontia elegans*, Smith, as a variety of *I. apicalis*, Smith. The differences between the two seem to be very constant, and their distribution appears to be somewhat different, *elegans* being more a southern and western form, while *apicalis* occurs chiefly in the central, eastern and northern States.

Patton (Proc. Ent. Soc., Wash., III., p. 46) regards *macrocephala*, Fox, as a synonym of *azteca*, Sauss. With this I am unable to agree, all the specimens of a large series of both of these species before me being distinguishable almost at a glance. The type specimen of *macrocephala* has the anterior tooth of the mandible with a groove dividing it into two portions, which leads me to believe that in this insect the mandible was originally three-toothed, but that the anterior two have partially fused. All my specimens of *azteca*, on the other hand, indicate an originally two-toothed mandible, and though the anterior tooth is blunt in many cases, it