

FIGURE 6. Distribution of Ovatus Group species.

Aglaothorax segnis Rehn & Hebard, 1920 comb. restored

Aglaothorax segnis—Rehn & Hebard, 1920: 225.

Aglaothorax segnis—Tinkham, 1944: 291 (Incorrect synonymy).

Neduba (Aglaothorax) ovata segnis—Rentz & Birchim, 1968: 85 (A change in status).

Aglaothorax segnis **comb. restored** (Restored to species status as proposed by Rehn & Hebard, 1920).

Fig. 6 (distribution), Fig. 10 (male and female habitus, calling song, male and female terminalia, karyotype), Plate 4 (male terminalia), Plate 7 (female subgenital plate), Plate 10 (male titillators), Plate 14 (male calling song).

Common name. Sluggish Shieldback.

History of recognition. Described in *Aglaothorax* (Rehn & Hebard 1920). Name erroneously applied to eastern Sierra Nevada populations that belong to both *A. giganteus* and *A. ovatus* (Tinkham 1944). Transferred to *Neduba (Aglaothorax)* and relegated to a subspecies of *ovatus* (Rentz & Birchim 1968). Returned to *Aglaothorax* (Rentz & Colless 1990) where this species remains as a subspecies of *A. ovatus* (Cigliano *et al.* 2025). Based on phylogenetic and cytogenetic evidence, we elevate *A. segnis* to species rank, reinstating the taxonomic status of this species as originally described.

Type material. The holotype male housed at ANSP is from Crestline, Lincoln County, Nevada, taken from Joshua tree at 6000 feet elevation. Images of the type are available at OSFO (Cigliano *et al.* 2025). TOPOTYPES EXAMINED: (n=10) **USA, NV, Lincoln Co.**, 13 miles E Panaca on State Highway 319, 37.790280, -114.150913, 1950 m, 11-VIII-1988, d B Weissman, d C Lightfoot, CAS, 1♂, 1♀; 16 miles E Panaca Summit, 37.764601, -113.897074, 11-VIII-1988, d B Weissman, d C Lightfoot, CAS, 1♂; 18 miles E Panaca on State Highway 319, 37.790059, -114.059173, 1720 m, 11-VIII-1988, d B Weissman, d C Lightfoot, CAS, 1♂; 7 miles E of Panaca, 37.790450, -114.260999, 1829 m, 20-VIII-1982, d B Weissman, CAS, 2♂; Beaver dam State Park, 37.521362, -114.072202, 12-IX-1973, RC Bechtel, GM Nishida, Nd AC, 4♂.

Measurements. (mm, ♂n=5, ♀n=2) Hind femur ♂16.65–17.35, ♀19.40–20.74, pronotum total length ♂11.15–13.99, ♀13.34–14.35, prozona length ♂4.56–5.66, ♀5.62–6.15, metazona dorsal length ♂6.59–8.44, ♀7.72–8.20, pronotum constriction width ♂2.97–3.90, ♀3.69–5.00, metazona dorsal width ♂7.35–8.75, ♀8.50–9.25, head width ♂5.06–5.62, ♀6.05–6.67, ovipositor length ♀19.41–20.41.

Distribution. Mountain ranges of southeastern Nevada at high elevation. The type locality is in the Cedar Range. Other populations are known from the Clover Mountains and Bristol Range.

Habitat. Pinyon-juniper woodland. Taken from high branches of Utah Juniper (*Juniperus osteosperma* (Torr.) Little).

Seasonal occurrence. Limited records suggest mid- to late summer adult activity (4-VIII-2005, JA Cole, LACM) that extends into Fall (12-IX-1973, RC Bechtel & GM Nishida, CAS).

Stridulatory file. (n=5) length 4.85–5.10 mm, 102–117 teeth, tooth density 21.7±1.1 (20.6–23.4) teeth/mm.

Song. (n=18) Brief echemes (“chirps”) similar to *A. armiger*. Pulse trains 50±10 ms in length are repeated at a rate of 10.1±1.52 s⁻¹. Mean peak frequency is 14.13±2.77 kHz; high frequency recordings show song energy at the ultrasonic boundary at 20.25 kHz. Echemes group 3±1 pulse trains with 0.71–3.56 (mean 1.53±0.75) s of silence between echemes.

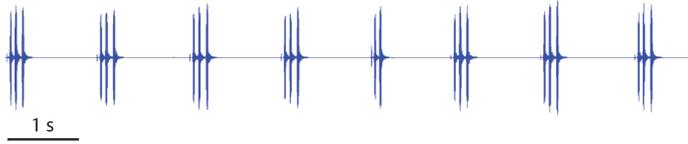
Karyotype. (n=6) 2n♂=24 (22t+Xty t), topotype T88-43 (S88-93).

Recognition. Morphology, geography, and karyotype. *A. segnis* is separated from all *Ovatus* Group species except *A. strobilium* and most *A. gurneyi* by the apical, mesally directed tooth on the male paraproct process; rarely, the cercus terminates in a double tooth, with one of the two teeth positioned apically. All other *Ovatus* Group species have a subapical ventrally directed tooth. The male paraproct in *A. segnis* is about three times as long as wide, as opposed to thick and about twice as long as wide in other *Ovatus* Group species. The *A. segnis* male supra-anal plate is wider than long and reflexed caudally, a condition like that of *A. armiger* and *A. strobilium* but unlike *A. giganteus*, *A. khioneos*, *A. ovatus*, and *A. tinkhamorum*, which have supra-anal plates that are as long as wide. *A. segnis* and *A. strobilium* have abundant longitudinal black streaks on the pronotal disk, unlike the disk of *A. armiger* which typically has reduced black marking. The *A. segnis* pronotum is broader than that of *A. strobilium*, with a concomitant increase

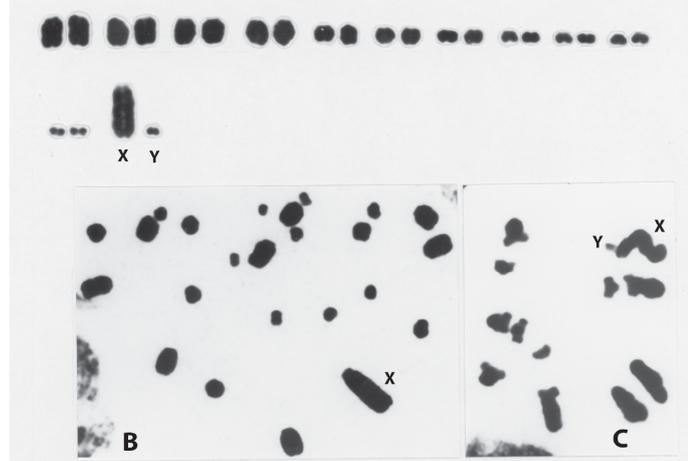
male TOPOTYPE USA. NV: Lincoln Co. S88-93



calling song TOPOTYPE USA. NV: Lincoln Co. 24.0°C R88-159



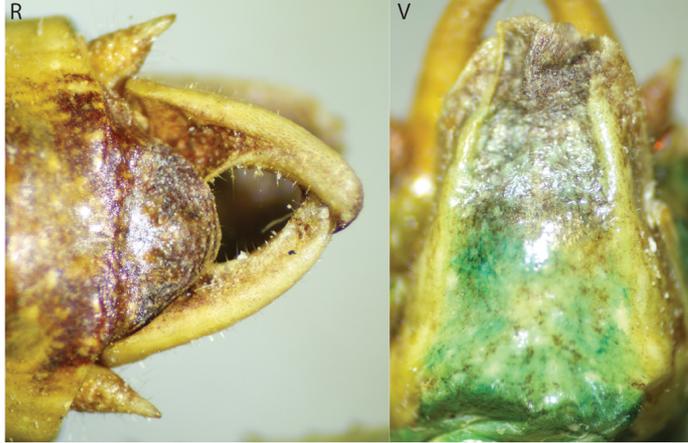
karyotype TOPOTYPE USA. NV: Lincoln Co. S88-93, T88-43



female TOPOTYPE USA. NV: Lincoln Co. S88-93

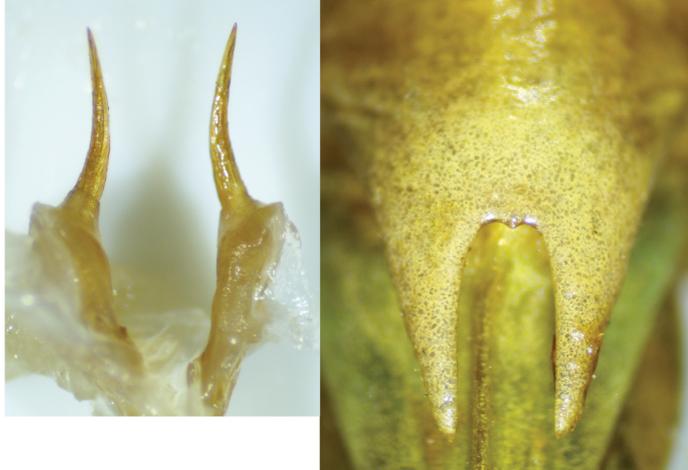


male terminalia S82-78



titillator TOPOTYPE
S82-78 R82-316

female subgenital plate TOPOTYPE
S88-93



male TOPOTYPE USA. NV: Lincoln Co. S88-93



FIGURE 10. *A. segnis* male and female habitus, calling song, male and female terminalia, and karyotype. Idiogram top panel shows karyotype $2n_{\text{♂}}=24$; B. Plate showing all 24 chromosomes; C. Metaphase I, showing 11 autosomal pairs and associated XY pair.

in the ratio of the pronotal constriction width to metazona width in the former versus the latter (*A. segnis* 2.24–2.47 vs. *A. strobilion* 1.97–2.20). Female *A. segnis* have the shortest subgenital plate lateral processes of any *Ovatus* Group species (although females of *A. strobilion* are unknown). Geographically, *A. segnis* occupies mountain ranges in the northeasternmost extent of the Mojave Desert where that desert interdigitates with the Great Basin Desert. The $2n♂=24$ karyotype is shared only with *A. gurneyi*; all other *Ovatus* Group species have $2n♂=23$, including *A. strobilion*, which superficially resembles this species.

Notes. This species inhabits remote areas and is thus seldom encountered. Individuals perch high in large trees and are thus difficult to collect when found. The $2n♂=24$ karyotype is shared with another sky island endemic *Ovatus* Group species, *A. gurneyi* of the California Transverse Ranges.

Material examined. (n=7) **All USA, NV, Lincoln Co.**, 27 mi. N Pioche on Hwy. 93, 38.32116, -114.452214, 1981 m, 20-VIII-1982, d B Weissman, CAS, 2♂; Hwy. 319, 1.9 miles west of Utah State Line, 37.72564, -114.0844, 1804 m, 19-VIII-2009, d B Weissman, d C Lightfoot, CAS, 1♂; Oak Spring Summit Picnic Area, along US93, 9.3 mi. E of Caliente, 37.5923, -114.6828, 1901 m, 4-VIII-2005, JA Cole, LACM, 1♂; same data except JAC, 2♂; Pioche, 37.929685, -114.452214, 1848 m, 20-VIII-1958, RC Bechtel, Nd AC, 1♀.