

AN ANTS'-NEST COCCID FROM NEW MEXICO.

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Phenacoccus solenopsis, n. sp.

Adult ♀.—Length, 5 mm.; width, 3 mm.; many are smaller than this, but this seems to be the average size of the adult containing eggs. Colour yellowish-gray, although they appear light gray, from the mealy secretion which covers the body.

Shape, ellipsoidal, dorsal surface quite convex, ventral surface flat, extremities rather pointed. Segmentation quite distinct to naked eye. Extremely short lateral appendages, little projections just visible; caudal appendages a little longer.

Legs and antennæ pale brown.

Dorsum has no bands, marks or ridges. Antennæ (fig. 6) of 9 segments; segment 2 longest, one-third longer than 9, which is next; segment 3 next longest and about three-quarters the length of 2; segment 1 usually next, although it is sometimes longer than 3, and sometimes sub-equal with 5; segment 4 is shorter than 5; 5 is usually shorter than 3, but is always appreciably longer than 4, 6, 7, or 8; 6 and 7 usually sub-equal; 8 often sub-equal with 6 and 7, but usually shorter.

Formula 293 (15) 4 (67) 8. Segments of antennæ with moderately stout hairs, segments 1, 4, 6, 7 and 8 having one ring and the others two or more rings of hairs. See figure of antenna.

Legs.—Femur fairly stout, being nearly half as wide as long (width 116μ , length 282μ), surface bears numerous bristles; tibia fairly stout (width 42μ , length 282μ), equal in length to the femur, bears numerous fairly stout spines; tarsus conical, not quite one-half the length of the tibia (length 105μ), several spines and a pair of long, slender digitules; claw rather small (length 34μ), a pair of fairly stout, knobbed digitules.

Anal lobes and ring normal.

Ovisac.—The one ovisac which I have found was on the stem of *Kallstromia brachystylis*, Vail., and was about 7 mm. long, 4 mm. wide, and rather loose in texture.

Eggs and newly-hatched larvæ pale yellow; male as yet unknown.

Habitat.—In nests of *Solenopsis geminata*, Fab., about the roots of

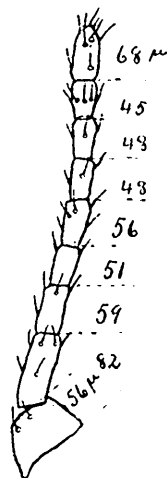


FIG. 6.