

WILLIAM L. BROWN

Reprinted from PSYCHE, Vol. 58, No. 3, September 1951

PSYCHE

Vol. 58

September, 1951

Publ.
April 1952 No. 3

STUDIES ON ARIZONA ANTS.
2. NEW DATA ON THE ECOLOGY OF
APHAENOGASTER HUACHUCANA
AND A DESCRIPTION OF THE SEXUAL FORMS

BY WM. S. CREIGHTON

Department of Biology, College of the City of New York

In 1932 the writer presented, in this journal, a description of the worker of *Aphaenogaster (Attomyrma) huachucana* (1). The type specimens came from a single nest taken at an elevation of about 7000 feet in Ramsey Canyon in the Huachuca Mountains. I expected that other workers would find additional material of *huachucana* and that this would permit a better evaluation of its status, for *huachucana* is clearly related to *texana*. Since the latter species is also present in the Huachucas, much might be learned from the way in which the two insects behave in that area. In 1950 I synonymized Wheeler's variety *furvescens* with *texana* (2). The variety *furvescens*, which was based on material coming from the Huachucas, had proven to be a color phase that occurs over the entire range of *texana*. The synonymy of this variety raised disturbing possibilities in the case of *huachucana*, for there was a chance that it might also prove to be an inconsequential variation of *texana* when better known. In order to test the significance of the structural features on which *huachucana* was based, more material was urgently needed. This material has now come to hand and with it field data which provide good evidence that *huachucana* is a separate species. In order for this evidence to be appreciated it is necessary