

EUROGLYPHUS (GYMNOGLYPHUS)
OSU NEW SPECIES FROM BARN FLOOR
IN USA
 (Acarina : Pyroglyphidae, Sarcoptiformes)

by A. FAIN* and D. JOHNSTON**

The species described herein was found in barns in Columbus and Wooster, Ohio, U.S.A.

This species is known only from the female. It is distinguished from *Euroglyphus (Gymnoglyphus) longior* (TROUESSART), the only other species in the subgenus, by the following characters :

- 1) Cuticle of the posterior part of the hysterosoma distinctly punctate.
- 2) Setae *a i* more anterior.
- 3) Body slightly larger.
- 4) Solenidia phi I and phi II shorter (in paratypes, resp. 48 μ and 78 μ , for 60-66 μ and 90-100 μ in *E. longior*).

As with other Pyroglyphinae the new species occurs in quite dry habitats.

The name *osu* is formed with the initials of « Ohio State University ».

Euroglyphus (Gymnoglyphus) osu spec. nov.

FEMALE (fig. 1-2) : The holotype is 345 μ long and 216 μ wide (idiosoma). Length x width in 4 paratypes : 330 x 195 μ ; 330 x 192 μ ; 333 x 198 μ ; 328 x 194 μ . *Dorsum* : cuticle with

* Institut de Médecine Tropicale, Nationalestraat 155, 2000 Antwerpen.

** Ohio State University, Columbus, Ohio, USA.

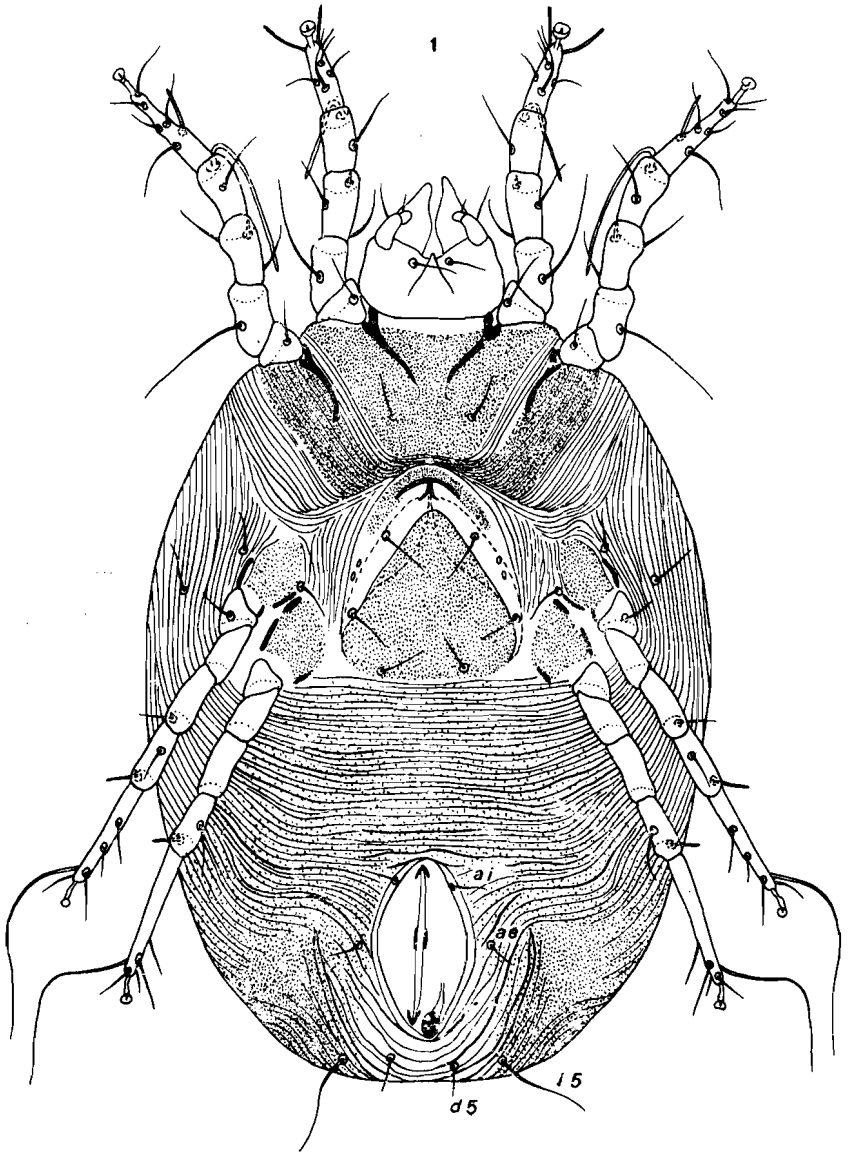


FIG. 1. — *Euroglyphus* (*Gymnogyphus*) *osu* sp.n. Holotype female in ventral view

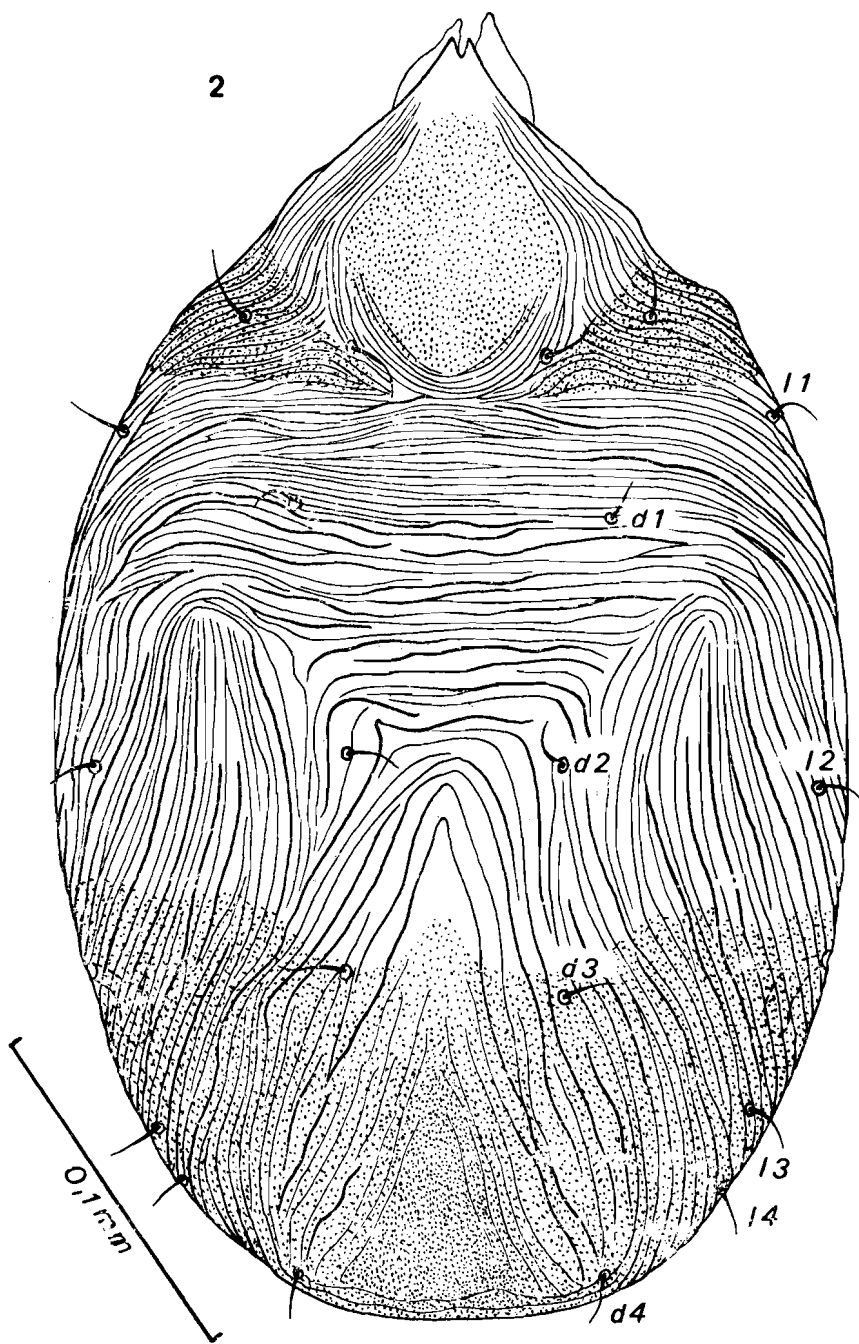


FIG. 2. — *Euroglyphus* (*Gymnoglyphus*) *osu* sp.n. Holotype female in dorsal view

thick and rather irregular striation resembling that of *E. longior*. Hysterosomal shield as in *E. longior* but with margins difficult to delimit and laterally it is continuous with the punctation of the striated cuticle. *Venter*: epimera, genital and anal regions as in *E. longior*.

Chaetotaxy: setae *a i* are situated at 12-13 μ from the anterior extremity of the anus. Setae *l 5* is 40-42 μ long in the holotype. In the paratypes the length of *l 5* varies between 40 and 60 μ .

Localities:

1. From floor sweepings and grain debris in cattle barn, College of Agriculture, Ohio State University, Columbus, Ohio, 19 June 1972. Coll. J.C. McGRATH, R.K. HODGSON, and R.A. NORTON (Holotype female and 5 female paratypes).

2. Ex dry debris on barn floor, Ohio Agricultural Research and Development Center, Wooster, Ohio, 11 June 1963. Coll. D.E. JOHNSTON and W. KNÜLLE (1 female paratype).

Holotype in the U.S. National Museum, Washington. Paratypes in the Acarology, Laboratory, Columbus, Ohio and in the collection of A. FAIN.

BIBLIOGRAPHY

FAIN A., 1965. — Les Acariens nidicoles et détriticoles de la famille Pyroglyphidae CUNLIFFE. *Rev. Zool. Bot. Afr.*, 72 (3-4): 257-288.
