Oochoristica scelopori (Cestoda: Linstowiidae) in a grassland population of the bunch grass lizard, Sceloporus scalaris (Phrynosomatidae), from Arizona

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The bunch grass lizard (Sceloporus scalaris Wiegmann, 1828) is known from the Huachuca, Dragoon, Santa Rita, and Chiricahua mountains of Arizona, the Animas Mountains of New Mexico, and in the Sierra Madre Occidental and Sierra del Nido of Mexico, usually above 1830 m, but a few isolated valley populations occur as low as 1200 m (Stebbins 1985). To our knowledge, the only report of helminths of this species was a study of a high-elevation (2438–2560 m) Chiricahua Mountain population of Sceloporus scalaris slevini by Goldberg and Bursey (1992a). The purpose of our note is to report on a helminthological examination of a low-elevation (ca 1524 m) grassland population of S. scalaris slevini Smith, 1937 from Arizona, and to compare our findings with those of Goldberg and Bursey (1992a).

We examined 51 S. scalaris slevini (mean snout-vent length 51 ± 3.4 mm [s], range 40–55 mm) collected (mostly by hand, a few by dust shot) on the Sonoita Plain, elevation ca 1524 m (31°39’N, 111°32’W), in the vicinity of Elgin, Santa Cruz County, Arizona. Specimens were deposited in the University of Colorado, Museum of Natural History, Boulder, Colorado as UCM 57259-57282; 57284-57286; 57289-57292; 57295-57298; 57300-57305; 57307-57310; 57313-57316; 57318-57319. UCM 57318-57319 were collected 20 August 1989; others were collected 12–19 July 1990.

The abdomen was opened, and the esophagus, stomach, and small and large intestines were removed from the carcass. Each organ was slit longitudinally and examined under a dissecting microscope. The liver and body cavity were also examined. Each helminth was identified using a glycerol wet mount. Representative cestodes were stained with hematoxylin and mounted in balsam for further examination. Voucher specimens were deposited in the U.S. National Parasite Collection, Beltsville, Maryland 20705 (USNPC 85053). Terminology use is in accordance with Margo­lis et al. (1982).

Only 1 helminth was found, the cestode Oochoristica scelopori Voge and Fox 1950. Prevalence of infection was 10% (5 of 51); mean intensity = 1.2 ± 0.45 [s], range 1–2.

In the only other investigation of helminths of S. scalaris, Goldberg and Bursey (1992a) reported finding tetrathyridia of the cestode Mesocestoides sp. (prevalence 8%) and larvae of the nematode Physaloptera sp. (prevalence 3%). That study was done on a coniferous forest high-elevation population (approximately 2500 m) in the Chiricahua Mountains, whereas the current study considered a low-elevation population (ca 1524 m) on the Sonoita Plain, located ca 126 km SE of the Chiricahua Mountains study site. Although both populations harbored mutually exclusive helminth faunas, additional work on larger S. scalaris samples from these sites will be required to determine the constancy of these differences.

Oochoristica scelopori is a common cestode of North American lizards and has been found in 14 other North American phrynosomatid lizards (Table 1). In addition, Amrein (1951) and Telford (1964) reported finding O. scelo­pori in the xantusiids, Xantusia henshawi, X. riversiana, and X. vigilis. Measurements of various structures of these cestodes were strikingly different from the measurements as given.
in the original description of *O. scleropori* by Vogel and Fox (1950). Amrein (1951) reported the average length of 25 mature cestodes from *X. henshawi* and *X. vigilis* to be 15.82 mm; the cestodes from *X. riversoniana* measured 33-37 mm. Telford (1964) indicated his cestode specimens from xantusiid lizards were less than 45 mm. Both Amrein and Telford identified these cestodes as *O. scleropori*. Bursey and Goldberg (1992) found Amrein’s measurements of cestodes from *X. henshawi* and *X. vigilis* to approximate the measurements of *O. bezyi*, whereas Telford’s measurements of cestodes from *X. riversoniana* approximated measurements of *O. islandensis* and suggested that *X. henshawi*, *X. riversoniana*, and *X. vigilis* be removed from the host list of *O. scleropori*, leaving only phrynosomatid lizards as hosts for *O. scleropori*.

**LITERATURE CITED**


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