## 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  $\pm$  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 =  $1.2 \pm 0.45$  [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

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TABLE 1. Definitive hosts of Oochoristica scelopori in North America.

Host	Locality	Prevalence	Reference
Crotaphytus collaris	California	100% (1/1)	Telford 1970
Gambelia wislizenii	California	40% (2/5)	Telford 1970
Sceloporus clarkii	Arizona	5% (1/20)	Goldberg et al. 1994
S. graciosus	California	not given	Voge and Fox 1950
	California	10% (7/71)	Telford 1970
	Idaho	22% (2/9)	Waitz 1961
	Idaho	1% (1/118)	Lvon 1986
	Utah	5% (1/22)	Pearce and Tanner 1973
S. jarrovii	Arizona	10% (47/489)	Goldberg and Bursey 1990
	Arizona	3% (1/31)	Goldberg and Bursey 1992b
	Arizona	5% (15/302)	Goldberg et al. 1995a
S. magister	Arizona	(?/3)	Walker and Mathias 1973
	Texas	6% (1/17)	Goldberg et al. 1995b
S. occidentalis	California	20% (13/65)	Voge and Fox 1950
	California	23% (27/116)	Telford 1970
	Idaho	11% (2/19)	Lyon 1986
	Oregon	33% (20/60)	White and Knapp 1979
	Utah	9% (1/11)	Pearce and Tanner 1973
S. olivaceus	Texas	3% (2/61)	Goldberg et al. 1995b
S. orcutti	California	22% (16/74)	Goldberg and Bursey 1991
S. poinsettii	Texas	30% (3/10)	Goldberg et al. 1993
S. scalaris	Arizona	10% (5/51)	this paper
S. undulatus	Arizona	6% (3/48)	Goldberg et al. 1994
Uma inornata	California	7% (1/15)	Telford 1970
U. notata	California	42% (10/24)	Telford 1970
Urosaurus graciosus	California	6% (2/34)	Telford 1970

in the original description of *O. scelopori* by Voge 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. riversiana 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. scelopori. 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. riversiana approximated measurements of O. islandensis and suggested that X. henshawi, X. riversiana, and X. vigilis be removed from the host list of O. scelopori, leaving only phrynosomatid lizards as hosts for O. scelopori.

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