

- BRAITHWAITE, L.W. 1974. Environment and timing of reproduction and flightlessness in two species of Australian ducks. *Proc. 16th Internat. Ornith. Congr., Canberra, A.C.T.*, pp. 489-501.
- CARNABY, I.C. 1954. Nesting Seasons of Western Australian Birds. *West. Aust. Natur.*, 4:149-156.
- CARTER, T. 1924. Birds of the Broome Hill District. *Emu*. 23:223-235; 306-318.
- LANE, J.A.K. and MUNRO, D.R. 1983. 1982 Review of Rainfall and Wetlands in the South-West of Western Australia. *Dept. Fisheries and Wildlife Report*, No. 30, Perth.
- R.A.O.U. 1982. *West. Aust. Bird Notes*. Quarterly Newsletter of the W.A. Group, Royal Australasian Ornithologists Union, No. 21, March 1982.
- R.A.O.U. 1982. *West. Aust. Bird Notes*. Quarterly Newsletter of the W.A. Group, Royal Australasian Ornithologists Union, No. 22, June 1982.
- ROBINSON, A.H. 1955. Nesting Seasons of Western Australian Birds — A Further Contribution. *West. Aust. Natur.*, 4:187-192.
- SEDGWICK, E.H. 1955. Nesting Records — 1946 and 1947. *West. Aust. Natur.*, 5:46-7.
- SERVENTY, D.L. 1946. The Pituitary Gland and the Breeding Cycle. *West. Aust. Bird Notes*. 4:10-12.
- SERVENTY, D.L. and MARSHALL, A.J. 1957. Breeding Periodicity in Western Australian Birds: With an Account of Unseasonal nestings in 1953 and 1955. *Emu*. 57:99-126.
- SERVENTY, D.L. and WHITTELL, H.M. 1976. *Birds of Western Australia*. University of W.A. Press, Nedlands.
- THOMSON, A. Landsborough (ed.) 1964 *A New Dictionary of Birds*. Nelson, London.

NOTES ON REPRODUCTION IN CAPTIVE *MENETIA GREYII* (LACERTILIA: SCINCIDAE)

By BRIAN BUSH, P.O. Box 192, Esperance, Western Australia.

Menetia greyii Gray is a common, litter-foraging lizard with a distribution over much of Australia. Even so, very few published data are available concerning its reproductive biology. Although the incubation periods recorded here were obtained under laboratory conditions and may not be consistent with those in the field, all other measurements should be typical. Measurements of weight were achieved using balance-scales calibrated in 0.1 grain (= .0065 gram).

On 14 December 1982 a gravid female (SVL = 32mm; weight immediately following laying = .487gm) was collected at Lort River, W.A. (33°45'S, 121°15'E) and retained until oviposition was observed on 23 December. The clutch consisted of 3 eggs of varied size and weight (see Table 1). I have recorded two clutches of 2 eggs, and a field deposition site containing 4 eggs; Jenkins and Bartell (1980) recorded four clutches of 3 eggs in the A.C.T. Therefore, 2 or 3 eggs probably constitute a typical clutch for this species. The 4 eggs uncovered in the field may be the result of two females utilizing the one site.

To avoid desiccation, the eggs were placed in a plastic container on dampened vermiculite immediately after weighing and measuring. To allow observation with minimum disturbance, 'cling wrap' was pulled tight over the top of the container. This complete unit was then placed inside an aquarium with a 60 watt incandescent lamp where temperature was monitored with a thermometer and regulated with a room-airconditioner thermostat at 28°C ± 4°.

On 24 December it was evident by their increase in breadth that all 3 eggs had absorbed moisture and were therefore fertile (my previous experience at laboratory incubation showed that infertile eggs are subject to desiccation immediately after laying). On 27 January Egg B appeared badly desiccated but was not removed. It hatched after 46 days' incubation followed five hours later by Egg C. Egg A hatched after 49 days' incubation.

Hatchlings were weighed and measured as soon as they cleared the egg-case (see Table 1). Their colour and pattern was the same as in adults.

	EGG		Date Hatched	HATCHLING		
	Size (mm)	Weight (gms)		S.V.L. (mm)	Total Length	Weight (gms)
A	8 x 4	.065	10-2-83	15	31	.049
B	7 x 4	.056	7-2-83	13	28	.033
C	7 x 5	.078	7-2-83	16	36	.072

Table 1. Egg and hatchling data for captive *Menetia greyii*.

In 1981/82 two eggs from this species were successfully incubated without an artificial heat source; these took 104 days to hatch (24/11/81 - 7/3/82). The estimated full-term mean temperature during this period was 19.6° C (range = 12° - 39°) compared to 28° (range = 24° - 32°) for the present study. Between 5 and 12 February 1983 I observed in the field many small *Menetia greyii* similar in size to the hatchlings recorded here, suggesting that there is a uniform oviposition time throughout the population in this area, and that the deposition sites selected by gravid females have similar temperature conditions to those used in the present study.

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REFERENCE

JENKINS, R. and BARTELL, R. 1980. *Reptiles of the Australian High Country*. Inkarta Press, Melbourne.

USE OF A MAN-MADE FORESHORE BY WADING BIRDS AT HERDSMAN LAKE

By OTTO MUELLER, 7 Hamer Avenue, Wembley Downs 6019

INTRODUCTION

The wetlands of the Swan Coastal Plain have declined alarmingly during the last few decades. There is an obligation on our part to retain or maintain wetlands for the benefit of transmigration wadingbirds in accordance with a bilateral agreement to this effect between Australia and Japan (Anon 1974). In line with the above philosophy the developers at Herdsman Lake have attempted to provide suitable habitat for wading and marshland birds. The Lake is situated in the Perth metropolitan area at 31°55'S and 115°48'E.

During the summer of 1981/82 I decided to monitor the number of wading birds using the man-made foreshore. Between 12 November 1981 and 4 March 1982 the survey area was traversed every second day. Fifty visits were made during which the number and behaviour of each species was recorded. The study area is the western shoreline of a newly dredged lake within the boundaries of a large swamp area. The 900 m long artificial shoreline is slightly curved with baylets and one small headland. For public safety reasons it was given a very shallow gradient. To facilitate landscaping the area was topped with 200 mm sand over the underlying peat soil. The sand extends well into the water. The marginal vegetation consists of introduced weeds like *Coryza bonariensis*, *Paspalum paspalodes*, *Echinochloa crus-galli*, *Phyla nodiflora*, *Sisyrinchium micranthum*, *Aster subulatus*, *Atriplex hastata*, and *Chenopodium macrospermum*. There are also bullrushes (*Typha orientalis*), which in 12 clusters grow sometimes well out into the open water. In places vegetation failed to establish and ceased well before the water's edge thus giving wadingbirds ample opportunity to forage.

DISCUSSION

Despite numerous observations by amateurs over many years, there is little published literature on the wildlife of Herdsman Lake. The exceptions being Anon. (1980) and Curry (1981).



Bush, Brian. 1983. "Notes on Reproduction in Captive Menetia Greyii (Lacertilia Scincidae)." *The Western Australian Naturalist* 15(6), 130–131.

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