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CONTRIBUTION TO A BIBLIOGRAPHY OF RECENT TEXAS MAMMALS, 1961-1970

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Raun's bibliography of the literature on Recent mammals of Texas (Bull. Texas Mem. Mus., 3:xi + 1-81, 1962) has proved to be a useful resource for mammalogists and others wishing an entrée to theriological information relating to that state. Although there is no statement in Raun's work as to a terminal year beyond which citations were not included, the most recent references therein are dated 1960, and we thus have assumed that coverage was intended through at least part of that year. The current bibliography covers the decade 1961 through 1970, but includes some citations dated 1960, for which year the previous compilation was incomplete, as well as a few from other years that evidently were overlooked. Our list is intended to complement and supplement the existing bibliographic data dealing with mammals of a large and zoogeographically important region.

Several organizational features of import are: 1) processed literature ordinarily is excluded as are articles from nontechnical sources, excepting important references from Texas Fish and Game (name changed to Texas Parks and Wildlife in fourth number of volume 23 for 1965); 2) publications listed (aside from some in the section entitled General References) are only those in which there is a clear reference to Texas; 3) citations to the serial literature include only volume and pagination unless individual numbers of volumes are separately paged; 4) references to publications on fossil mammals are included only when Recent material also was recorded or used in comparisons; 5) citations ordinarily appear exactly as published (with the exception that only proper nouns are capitalized), excepting that an occasional punctuation mark has been added for clarity; 6) only papers actually published in 1970 or earlier are included (if a volume

or number of a serial publication *for* 1970 actually appeared later than that year, it was not canvassed for articles).

The bibliography is organized in 12 sections: one including general references; one encompassing faunal studies, regional lists, and zoogeographic works; eight sections headed by a mammalian ordinal name; one on parasites and diseases; and a terminal section for miscellaneous papers in which Texas mammals are mentioned. Because the bibliography is relatively short, we have not attempted to cross-list citations. For example, a paper involving distributional notes on two or more species belonging to different orders has been treated as a "regional list," whereas a similar one involving comments on several different species of Rodentia will appear in the section having that ordinal heading. A publication on ectoparasites of the white-tailed deer will be found in the section dealing with parasites and diseases, not included under Artiodactyla. Thus, we have attempted to list references in the section most appropriate to the subject matter. Virtually all titles have been checked personally by one of the authors; the few not seen were taken from citations found in other works. Despite all efforts, some papers that should have been included almost certainly have been overlooked.

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**HISTOLOGICAL AND SCANNING ELECTRON
MICROSCOPIC STUDIES OF TOOTH STRUCTURE AND
THEGOSIS IN THE COMMON VAMPIRE BAT,
DESMODUS ROTUNDUS**

CARLETON J. PHILLIPS AND BARRY STEINBERG

Vampire bats, particularly the species *Desmodus rotundus*, have been studied in considerable detail in recent years. It is not surprising that the restricted sanguivorous feeding habit of these bats is reflected in their highly specialized morphological characteristics and physiological capabilities (for example, Forman, 1972; DiSanto, 1960; Horst, 1968). The dentitions of *Desmodus* and related *Diphylla ecaudata* have attracted considerable attention, primarily because of a marked reduction in number of permanent teeth (20) and obvious specializations in coronal morphology and occlusal pattern (Villa-R., 1966; Slaughter, 1970; Miller, 1896; Birney and Timm, 1975; Greenhall, 1972).

When teeth of *Desmodus* are examined grossly they always are impressively sharp; indeed, even in old individuals they are nearly razorlike. Maintenance of sharp cutting edges, especially on the upper and lower canines and large upper incisors, clearly is of importance to survival of individual vampire bats. Considering that individual *Desmodus rotundus* possibly live 10 or more years, the mechanisms of tooth-sharpening and replacement of dental tissues are of obvious interest if we are to understand the evolutionary biology of this species. The authors recently have had an opportunity to investigate these aspects of dentition of *Desmodus rotundus* as a part of general studies of chiropteran oral biology.

