

BIBLIOGRAPHY AND SUBJECT INDEX OF THE PRAIRIE SKINK, *EUMECES SEPTENTRIONALIS* (BAIRD) (SAURIA: SCINCIDAE)

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ABSTRACT.—The prairie skink, *Eumeces septentrionalis*, is a small, semifossorial lizard inhabiting the tall-grass prairies and savannas of the central lowland province region of North America. This study provides an extensive bibliography and subject index as a tool for current and future workers studying *E. septentrionalis* and related species.

The prairie skink, *Eumeces septentrionalis*, is a small, semifossorial lizard (family Scincidae) inhabiting tall-grass prairies and savannas of the central lowland region of North America (Breckenridge 1941a, 1943b, Taylor 1935, Smith and Slater 1949, Nelson 1963). Although *E. septentrionalis* was not formally described until 1858 (Baird), an obvious informal description was made by Schoolcraft (1834, discussed by Breckenridge 1941a, 1943b, 1981, Somma 1985a).

The two subspecies of *E. septentrionalis* currently recognized include the northern prairie skink, *E. s. septentrionalis* (Baird 1858, see also Baird 1859, Taylor 1935), and the southern prairie skink, *E. s. obtusirostris* (Bocourt 1879, see Taylor 1935). Smith and Slater (1949) described *E. s. pallidus* from Texas, a subspecies not currently recognized (Collins et al. 1982, Dixon 1987). While possible intergrades between *E. s. septentrionalis* and *E. s. obtusirostris* may exist in northern Oklahoma (Webb 1970) and Woodson County, Kansas (Clarke 1956), these specimens may require further study as it has been suggested that populations of these two subspecies in Kansas are isolated (Collins 1982).

Eumeces septentrionalis has received some attention in studies concerning its natural history (Breckenridge 1941a, 1943b, Nelson 1963, Bredin 1981, 1989 [personal communication]), physiological ecology of its eggs (Somma 1989c, unpublished data), and most recently its brooding behavior and nesting ecology (Somma 1985a, 1985c, 1987a–c, 1989a, 1989b, McAllister 1987, Somma and Fawcett 1989). Most of these studies have dealt with the northern subspecies, as little

knowledge of the biology of *E. s. obtusirostris* is currently available.

Several authors have provided bibliographies of the prairie skink in their respective studies (Breckenridge 1941a, Nelson 1963, Somma 1985a, Cochran and Somma, in press). These literature reviews are somewhat abbreviated or lacking in completeness. The objectives of this survey are to provide an extensive bibliography and subject index to *E. septentrionalis* as a resource for current and future workers in saurian biology, particularly in the prairie states, and to stimulate further interest in studying the biology of *E. septentrionalis*. We would appreciate being informed of any errors or omissions in our survey.

SUBJECT INDEX

TAXONOMY AND SYSTEMATICS.—Baird 1858, 1859, Cope 1875, 1880, 1900, Bocourt 1879, 1881, Ortenburger 1927, Taylor 1935, Breckenridge 1941a, 1943b, Smith and Slater 1949, Smith and Smith 1952, Clarke 1956, Cochran 1961, Nelson 1963, Smith et al. 1964, McCoy and Richmond 1966, Somma 1985a, Cochran and Somma, in press.

ETYMOLOGY.—Casper 1983, Cochran and Somma, in press.

FOSSIL RECORD.—Holman 1977, 1979, 1980, Stewart and Lindsey 1983.

CHECKLISTS (MUSEUM AND NATIONAL).—Hayden 1863, Cope 1875, Yarrow 1882, Davis and Rice 1883, Garman 1884, Boulenger 1887, Stejneger and Barbour 1917, 1923, 1933, 1939, 1943, Schmidt 1953, Conant et al. 1956, Cochran 1961, Smith et al. 1964, McCoy and Richmond 1966, Dowling 1975, Collins et al. 1978, 1982, Banks et al. 1987.

MORPHOLOGICAL DESCRIPTIONS.—Schoolcraft 1834, Baird 1859, Bocourt 1879, 1881, Cope 1880, 1900, Ditmars 1907, 1933, 1936, Jordan 1916, Kingman

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1932, Burt 1935, Pratt 1935, Taylor 1935, Breckenridge 1941a, 1943b, Hudson 1942, Morris 1944, 1974, Smith 1946, Smith and Slater 1949, Smith and Smith 1952, Clarke 1956, Cagle 1957, Conant 1958, 1975, H. Collins 1959, Nelson 1963, Wheeler and Wheeler 1966, Cochran and Goin 1970, Leviton [1972], J. Collins 1974, 1982, Behler and King 1979, 1985b, Bredin 1981, 1989, Haneline 1981, Vogt 1981, Smith and Brodie 1982, Ballinger and Lynch 1983, Dixon 1987, Garrett and Barker 1987, Sievert and Sievert [1988].

ILLUSTRATIONS (INCLUDES PHOTOGRAPHS).—Baird 1859, Cope 1900, Strecker 1910, Pope and Dickinson 1928, Kingman 1932, Taylor 1935, Breckenridge 1941a, 1943b, 1944, Hudson 1942, Smith 1946, Dickinson 1949, Smith and Slater 1949, Conant 1958, 1975, H. Collins 1959, Nelson 1963, J. Collins 1974, 1982, Black 1975, Carpenter and Ferguson 1977, Rundquist et al. 1978, Behler and King 1979, 1985a, Bredin 1981, Haneline 1981, Vogt 1981, Chace 1982, Lang 1982, 1983a, Preston 1982, Smith and Brodie 1982, Ballinger and Lynch 1983, Miller 1984, Somma 1985a, 1987a, Garrett and Barker 1987, Sievert and Sievert [1988], Lokke 1989.

DISTRIBUTION, NORTH AMERICA.—Hayden 1863, Cope 1875, 1900, Ditmars 1907, 1933, 1936, Pratt 1935, Taylor 1935, Breckenridge 1941a, 1943b, Morris 1944, 1974, Smith 1946, Smith and Slater 1949, Pope 1955, Conant 1958, 1975, Collins 1959, Nelson 1963, Cochran and Goin 1970, Behler and King 1979, 1985b, Haneline 1981, Vogt 1981, Smith and Brodie 1982, Ballinger and Lynch 1983, Bredin 1989, Cochran and Somma, in press.

DISTRIBUTION, STATES (INCLUDING MEXICO).—Note: Seehorn's (1982) records for *E. s. obtusirostris* in Florida, Arkansas (Ozark National Forest only), Mississippi, Louisiana, and Tennessee are highly erroneous and probably represent misidentified *E. anthracinus*. We recommend that this publication not be used as a reference to the status and distribution of *E. septentrionalis*.

Arkansas: Reagan 1974, Conant 1975, Seehorn 1982 (erroneous), Vance 1982, 1985.

Florida (erroneous): Seehorn 1982.

Georgia (erroneous, Taylor 1935): Cope 1880.

Illinois (erroneous, Morris et al. 1983): Smith 1961, Walley 1962, Dyrkacz 1974.

Iowa: Ruthven 1910, Somes 1911, Blanchard 1925, Nutting (cited in Taylor 1935), Taylor 1935, Scott and Sheldahl 1937, Giles 1940, Christiansen and Burken 1978, Christiansen 1981, [Crawford] 1981, [Hollander] 1982, Howe 1982, Perschau and Hollander 1982, 1983, [Perschau] 1985a, 1985b, 1986a, 1986b.

Kansas: Coues and Yarrow 1878, Cragin 1880, 1882, Yarrow 1882, Cope 1900, Burt 1928a, 1928b, Burt and Hoyle 1934, Taylor 1935, Breukelman and Downs 1936, Tihen 1937, Breukelman and Smith 1946, Smith 1950, 1956, Breukelman and Clarke 1951, Fitch 1954, 1955, 1958, 1967, Clarke 1955, 1956, 1958, 1965, Clarke et al. 1958, Fleharty and Ittner 1967, Collins 1974, 1979, 1981, 1982, 1983, 1986, Rundquist 1975, Anonymous 1977, 1981, Caldwell and Collins 1977, Grow 1977, 1978, Rundquist et al. 1978; Holman 1979, 1980, Burk-

hart 1980a, 1980b, Guarisco et al. 1982, Crampton 1983, Trott 1983, Miller 1984.

Louisiana: Morizot and Douglas 1967, Keiser and Wilson 1969, Dundee and Rossman 1976, 1989, Seehorn (erroneous), Lohofener and Altig 1983.

Manitoba, Canada: Criddle 1919, Hales 1919, Patch 1934, Mills 1948, Logier and Toner 1955, 1961, Cook 1964, 1970, 1977, 1984, Van Zyll de Jong and Nero 1971, McMaster 1979, Bredin 1981, 1989, Preston 1982.

Mexico (no confirmed occurrence): Smith and Smith 1976, Smith and Dixon 1987.

Minnesota: Schoolcraft 1834, Baird 1858, 1859, Cope 1875, 1900, Coues and Yarrow 1878, Yarrow 1882, Taylor 1935, Breckenridge 1938, 1940a, 1940b, 1941a, 1941b, 1943a, 1943b, 1943c, 1944, 1981, Hudson 1942, Swanson 1943, Hedrick and Holmes 1956, Nelson 1963, Henderson 1979a, 1979b, 1979c, 1979d, 1980a, 1980b, 1980c, 1980d, 1980e, 1980f, 1980g, Karns 1981, Pfannmuller and Wells 1981, Amphibian and Reptile Group 1982, Lampe 1982, Lang 1982, 1983a, 1983b, 1984, Lang et al. 1982, 1988, Casper 1983, [Gerholdt] 1983a, 1983b, 1983c, 1983d, 1983e, 1983f, 1983g, 1984a, 1984b, 1984c, 1984d, 1985a, 1985b, 1986, Moriarty 1984a, 1984b, 1984c, 1985, Cochran 1986a, Records Committee 1986, 1987.

Mississippi (erroneous): Seehorn 1982 (see Lohofener and Altig 1983).

Missouri (extirpated?): Anderson 1950, 1965, Johnson 1987.

Montana (erroneous, Taylor 1935): Coues and Yarrow 1878.

Nebraska: Baird 1858, 1859, Hayden 1863, Coues and Yarrow 1878, Yarrow 1882, Cope 1900, Burt and Burt 1929, Taylor 1935, Hudson 1942, Gehlbach and Collette 1959, ? Moody 1975, Iverson 1976, ? Meham 1980, Jones et al. 1981, [Adkins] 1983, Johnsgard 1984, Lynch 1985, Somma 1985a, 1985b, 1985c, 1987a, 1987b, 1987c, 1989a, 1989b, Lokke 1986, 1989, Freeman 1989, Somma and Fawcett 1989.

North Dakota: Wheeler 1947, Cook 1964, Wheeler and Wheeler 1966, Krapu and Duebbert 1974, Moriarty 1984, Bredin 1989.

Oklahoma: Cope 1900, Ortenburger 1927, Force 1928, 1930, Smith and Leonard 1934, Taylor 1935, Webb 1952, 1970, Carpenter 1956, 1959, 1980, 1981, Blair 1961, Engbretson 1974, Carpenter and Krupa 1979, Lardie 1982, Secor 1982, Secor and Carpenter 1984, Mulvany and Mulvany 1985, Sievert and Sievert [1988].

South Dakota: Coues and Yarrow 1878, Over 1923, Nelson 1963, Fishbeck and Underhill 1959, Dunlap 1967, Holman 1977, 1980.

Tennessee (erroneous): Seehorn 1982.

Texas: Bocourt 1879, 1881, Cope 1880, Yarrow 1882, A. Brown 1903, Strecker 1909, 1910, 1927, Taylor 1935, Smith and Slater 1949, B. Brown 1950, 1951a, 1951b, Peterson 1950, Smith and Slater 1952, Fouquette and Lindsay 1955, Raun 1959, Sabbath and Worthington 1959, Dial 1965, Raun and Gehlbach 1972, Thomas 1976, Seehorn 1982, McAllister and Ward 1985, Dixon 1987, Garrett and Barker 1987, McAllister 1987, Smith and Dixon 1987, Vance 1987.

Wisconsin: Hoy 1983, Higley 1989, Graenicher 1911, Schmidt 1926, Pope and Dickinson 1928, Dickinson 1949, Walley 1962, Briggs and Young 1976, Vogt 1981, Cochran 1989.

NATURAL HISTORY.—Breckenridge 1941a, 1943b, Smith 1946, Clarke 1955, Fitch 1958, Nelson 1963, Collins 1974, 1982, Bredin 1981, 1989, Vogt 1981, Cook 1984, Garrett and Barker 1987, Sievert and Sievert [1988].

CAPTIVITY RECORDS.—Slavens 1982, 1983, 1984, 1985, 1987, 1988, Cochran 1986b.

HABITAT.—Ruthven 1910, Criddle 1919, Hales 1919, Over 1923, Burt 1928a, 1928b, Burt and Burt 1929, Taylor 1935, Breckenridge 1941a, 1943b, 1944, Anderson 1950, 1965, B. Brown 1951a, Fitch 1954, 1955, 1958, 1967, Clarke 1955, 1956, Clarke et al. 1958, Gehlbach and Collette 1959, Raun 1959, Blair 1961, Nelson 1963, Cook 1964, 1984, Wheeler and Wheeler 1966, Morizot and Douglas 1967, Collins 1974, 1982, Krapu and Duebbert 1974, Black 1975, Rundquist et al. 1978, Bredin 1981, 1989, Carpenter 1981, Jones et al. 1981, Vogt 1981, Lang 1982, 1983a, Crampton 1983, [Gerholdt] 1984c, L. Brown 1985a, 1985b, Mulvany and Mulvany 1985, Somma 1985a, Garrett and Barker 1987, McAllister 1987, Sievert and Sievert [1988], J. Lynch cited in Freeman 1989.

GROWTH AND LONGEVITY.—Breckenridge 1941a, 1943b, Nelson 1963, Cochran 1986b, Bredin 1989.

HOME RANGE AND TERRITORIALITY.—Breckenridge 1941a, 1943b, Fitch 1958, Nelson 1963, Bredin 1989.

FEEDING HABITS.—Strecker 1927, Burt 1928a, Breckenridge 1941a, 1943b, 1944, Hudson 1942, Nelson 1963, Vogt 1981, Bredin 1989.

TEMPERATURE RELATIONS.—Fitch 1956, Nelson 1963.

HIBERNATION.—Scott and Sheldahl 1937, Breckenridge 1941a, 1943b, Nelson 1963.

AGGRESSION.—Cochran 1983, Somma 1985a, 1985c, Bredin 1989.

ESCAPE BEHAVIOR.—Taylor 1935, Nelson 1963, Black 1975, Vogt 1981, Preston 1982 (reviewed in Greene 1988).

PREDATION.—Burt 1928a, Burt and Hoyle 1934, Blake-more 1940, Giles 1940, Breckenridge 1941a, 1943b, Stevenson and Meitzen 1946, Peterson 1950, Nelson 1963, Platt 1969, Collins 1974, 1982, Vogt 1981, Lampe 1982, Lokke 1983, [Gerholdt] 1985c, Somma 1985b, Bredin 1989 (reviewed in Greene 1988).

PARASITISM.—Harwood 1933, Roundabush 1937, Roundabush and Coatney 1937, Nelson 1963, Somma 1985a.

DISEASE.—[Gerholdt] 1985a.

SEXUAL DIMORPHISM.—Burt and Hoyle 1934, Breckenridge 1941a, 1943b, Nelson 1963, Wheeler and Wheeler 1966, Mathewson 1973, Vogt 1981, Somma 1985a, Sievert and Sievert [1988], Bredin 1989.

REPRODUCTION.—?Hoy 1983, Taylor 1935, Breckenridge 1941a, 1943b, 1944, Smith and Slater 1949, Clarke 1955, Gehlbach and Collette 1959, Sabath and Worthington 1959, Nelson 1963, Wheeler and Wheeler 1966, Fitch 1970, 1985, Iverson 1976, Bredin 1981, 1989, Vogt 1981, Lang 1982, 1983a, [Gerholdt] 1983e, 1984c, Somma 1985a, 1985c,

1985d, 1987a, 1987b, 1987c, 1989a, 1989b, 1989c, Somma and Fawcett 1985, 1989, McAllister 1987.

STEREOTYPED BEHAVIOR.—Carpenter and Ferguson 1977.

BROODING BEHAVIOR.—?Hoy 1983, Breckenridge 1941a, 1943b, 1944, Smith and Slater 1949, Nelson 1963, Bredin 1981, Lange 1982, 1983a, [Gerholdt] 1984c, Somma 1985a, 1985c, 1985d, 1987a, 1987b, 1987c, 1989a, Somma and Fawcett 1985, 1989, McAllister 1987, Lokke 1989 (reviewed in Shine 1988, Somma, in press).

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