

# **Selected Records of Reptiles and Amphibians from Kansas**

BY

JOHN BREUKELMAN AND HOBART M. SMITH

*University of Kansas Publications*

*Museum of Natural History*

*Volume 1, No. 5, pp. 101-112*

*August 15, 1946*

UNIVERSITY OF KANSAS

LAWRENCE

1946

UNIVERSITY OF KANSAS PUBLICATIONS, MUSEUM OF NATURAL HISTORY

Editors: E. Raymond Hall, Chairman, Donald S. Farner, Donald F. Hoffmeister

Volume 1, No. 5, pp. 101-112

Published August 15, 1946

UNIVERSITY OF KANSAS

Lawrence, Kansas

PRINTED BY

FERD VOILAND, JR., STATE PRINTER

TOPEKA, KANSAS

1946

21-2762

---

[Pg 103]

## **Selected Records of Reptiles and Amphibians from Kansas**

*By*

JOHN BREUKELMAN AND HOBART M. SMITH

Preparation of a handbook of reptiles and amphibians by the junior author has led to a survey of the collections of these animals at Kansas State Teachers College in Emporia. Numerous locality records of interest and importance have been accumulated there through the efforts of the senior author and a number of his students, particularly Mr. Allen Downs. The more important records, including the first record for Kansas of *Rana sylvatica*, are reported here. We have not mentioned specimens that are from counties from which the University of Kansas Museum of Natural History already has specimens.

Specimens examined by Smith are indicated by an asterisk; those identified by the late Dr. F. N. Blanchard are indicated by an encircled period (none of these specimens are

now available). All other specimens here recorded have been examined either by the senior author or by Mr. Allen Downs, or by both. Specimen numbers, unless otherwise indicated, are those of the Kansas State Teachers College collection.

**Triturus viridescens louisianensis** (Wolterstorff), Newt.—*Cherokee Co.*: 1 mile north and 4 miles east of Crestline (No. 164).\* This is a terrestrial adult, and provides the second known locality for the species in the state.

**Ambystoma texanum** (Matthes), Narrow-mouthed Salamander.—*Lyon Co.*: Emporia.

**Ambystoma tigrinum mavortium** (Baird), Tiger Salamander.—*Lyon Co.*: (No. 292); 2 miles east of Americus. *Ness Co.*: Ness City (No. 591).

**Scaphiopus bombifrons** Cope, Plains Spadefoot.—*Ness Co.*: 4 miles west, 1.5 miles north of Ness City (No. 592).

**Bufo americanus americanus** (Holbrook), American Toad.—*Chase Co.*: 10 miles southwest of Saffordville. *Cherokee Co.*: 4 miles southeast of Columbus. *Lyon Co.*: 6 miles south of Plymouth (No. 290)\*; Emporia (Nos. 442, 443).\* The records from Chase and Lyon counties represent the westernmost localities for the species in Kansas.[Pg 104]

**Bufo cognatus** Say, Great Plains Toad.—*Ness Co.*: 4 miles west and 1.5 miles north of Ness City (No. 594).

**Bufo woodhousii woodhousii** (Girard), Rocky Mountain Toad.—*Clark Co.*: 11 miles south of Bucklin (No. 401).\* *Decatur Co.*: Sappa Creek near Oberlin (2 spec.).\* *Ford Co.*: 5 miles southwest of Dodge City (1 spec.).\* *Lyon Co.*: Emporia (No. 352).\* *Ness Co.*: Ness City (Nos. 502-504, 595, 596)\*; 4 miles west, 1.5 miles north of Ness City (No. 593).\* *Sheridan Co.*: Sheridan County State Park (Nos. 565-568).

**Acris crepitans** Baird, Northern Cricket Frog.—*Ness Co.*: 4 miles west and 1.5 miles north of Ness City (Nos. 506, 507, 597-606).\*

**Pseudacris nigrita triseriata** (Wied), Striped Chorus Frog.—*Lyon Co.*: 10 miles south of Plymouth; 3 miles north of Emporia (No. 300); 7 miles west of Olpe; 2 miles northeast of Emporia (Nos. 434-441).\* *Neosho Co.*: 3 miles west of Erie.

**Hyla versicolor versicolor** (Le Conte), Common Tree Toad.—*Chautauqua Co.*: Elk City (No. 621).

**Rana catesbeiana** Shaw, Bullfrog.—*Ness Co.*: 4 miles west and 1.5 miles north of Ness City (No. 607).\* *Wallace Co.*: 3 miles east of Sharon Springs (1 spec.).\*

***Rana pipiens brachycephala*** Cope, Leopard Frog.—*Clark Co.*: 11 miles south of Bucklin (Nos. 398-400).\* *Ness Co.*: 4 miles west and 1.5 miles north of Ness City (Nos. 505, 508, 509, 608).\*

***Rana sylvatica cantabrigensis*** Baird, Wood Frog.—*Lyon Co.*: extreme southwestern corner, 3 miles east of Chase County line, between the Verdigris River and the corner of the county (1 specimen, now Mus. Nat. Hist., Univ. Kans., No. 23149).\* This specimen provides for the first time a basis for inclusion of the species in the fauna of Kansas. It measures 50 mm. snout to vent; hind leg from vent 80 mm.; tibia 23 mm. The ratio of hind leg to snout-vent measurement is 0.625, and that of the tibia to snout-vent measurement is 2.17. Both figures are too high for *Rana s. sylvatica*, in which the former ratio varies between 0.53 and 0.62, the latter ratio between 1.6 and 1.88. The ratios agree well with those of *R. s. cantabrigensis*, in which the former ratio varies from 0.62 to 0.75, the latter from 1.93 to 2.3. Direct comparison of the specimen with typical examples of both subspecies substantiates its allocation to *R. s. cantabrigensis*.

In the vicinity of Kansas, specimens of this species are known from Missouri (St. Louis and Stone Counties only) and northwestern Arkansas (Washington County: Winslow and Prairie Grove, Mus. [Pg 105]Nat. Hist., Univ. Kans., Nos. 16526, 18820, 18823). Reëxamination of these specimens confirms their identity as *Rana sylvatica sylvatica* to which the Missouri specimens from Stone County undoubtedly also belong. Accordingly this race is still to be anticipated in extreme southeastern Kansas.

Reference of the specimen from Lyon County to *Rana s. cantabrigensis* presents a problem in distribution, for the race is not known from nearer Kansas than North Dakota, Minnesota, Wisconsin and southern Illinois, except for a record given by Cope (Bull. U. S. Nat. Mus., No. 34:437, 1889) from "western Missouri." Hurter (Trans. St. Louis Acad. Sci., 20:123, 1911) restricts this record to Cooper County, and presumably verifies Cope's identification. Hurter, too, recognized the other form, *R. sylvatica*, in Missouri (Marble Cave, Stone County). Cope distinguished between the two races (as they are now recognized) and recorded typical *R. sylvatica* from St. Louis. Accordingly the specimen from Cooper County may be considered properly identified racially. It apparently is from the locality nearest to Kansas at which the race has been taken.

It seems highly probable that the Kansas occurrence, and possibly those in Arkansas and Missouri also, is a relict one. It is highly improbable that the species has a continuous distribution in either state. A wider or more southern distribution in the past seems evident. The group to which it belongs certainly has had a more southern range, as indicated by Taylor's discovery in Meade County, Kansas (Univ. Kans. Sci. Bull., 28:217, 1942), of a fossil species of *Rana (parvissima)*, from the Upper Pliocene, presumably related to *sylvatica*. It may or may not have been a direct ancestor of the living species.

**Microhyla olivacea** (Hallowell), Northern Narrow-mouthed Toad.—*Lyon Co.*: 6 miles southwest of Emporia. *Wilson Co.*: 7 miles northeast of Fall River.

**Crotaphytus collaris collaris** (Say), Collared Lizard.—*Geary Co.*: 4 miles south of Fort Riley. *Wabaunsee Co.*: 2 miles northeast of Alma.

**Holbrookia maculata maculata** (Girard), Earless Lizard.—*Chase Co.*: 7 miles south of Saffordville (No. 350)\*; 6 miles southwest of Saffordville; 1 mile south of Saffordville (No. 338)\*; 10 miles southwest of Olpe. *Hodgeman Co.*: Jetmore. *Lyon Co.*: 5 miles south of Plymouth; 6 miles southeast of Emporia; 9 miles southwest of Emporia. *Ness Co.*: 4 miles west and 1.5 miles north [Pg 106]of Ness City (Nos. 480, 481, 484-497, 609-611)\*, 6 miles west and 0.5 miles south of Ness City (Nos. 482, 483, 498).\*

**Sceloporus undulatus garmani** Boulenger, Northern Plains Lizard.—*Ellsworth Co.*: Carneiro; 10 miles south of Ellsworth. *McPherson Co.*: 4 miles west of Roxbury (No. 133). *Ness Co.*: 4 miles west and 1.5 miles north of Ness City (No. 479, 612).\*

**Phrynosoma cornutum** (Harlan), Texas Horned Lizard.—*Ellsworth Co.*: 10 miles south of Ellsworth. *Lyon Co.*: 1 mile south of Emporia; 8 miles southwest of Emporia. *Saline Co.*: Coronado Heights; 3 miles northwest of Lindsborg.

**Opisaurus ventralis** (Linnaeus), Glass-snake Lizard.—*Lyon Co.*: Emporia; 1 mile southwest of Emporia (No. 288).\* *Rooks Co.*: 5 miles southwest of Stockton (No. 407).\*

**Cnemidophorus sexlineatus** (Linnaeus), Six-lined Racerunner.—*Ellsworth Co.*: Carneiro. *Lyon Co.*: 1.5 miles northwest of Reading. *Shawnee Co.*: 5 miles east of Topeka (No. 14).\*

**Leiopeltis laterale** (Say), Brown Skink.—*Labette Co.*: 7 miles northwest of Mound Valley (No. 301).\* *Lyon Co.*: 1.5 miles northwest of Reading. *Wilson Co.*: 4 miles southwest of Coyville (No. 281).\*

**Eumeces fasciatus** (Linnaeus), Common Five-lined Skink.—*Bourbon Co.*: 1 mile north of Fulton. *Chase Co.*: 7 miles southwest of Saffordville; 6 miles south of Clements; 2 miles south of Saffordville. *Franklin Co.*: 8 miles east of Ottawa; 2 miles south of Ottawa; 2 miles southwest of Lane; 4 miles east of Ottawa; 5 miles southwest of Ottawa. *Labette Co.*: 2 miles southwest of Dennis; 7 miles northwest of Mound Valley. *Lyon Co.*: 1.5 miles northwest of Reading. *Miami Co.*: 2.5 miles south of Fontana. *Montgomery Co.*: 5 miles west of Independence. *Neosho Co.*: 4 miles northwest of Erie (No. 318).\*

**Eumeces obsoletus** (Baird and Girard), Sonoran Skink.—*Coffey Co.*: 4 miles south of Gridley (No. 467).\* *Ellsworth Co.*: 10 miles south of Ellsworth. *Franklin Co.*: 2 miles

south of Lane. *Linn Co.*: 0.5 miles north of Trading Post. *Lyon Co.*: 1.5 miles northwest of Reading; 10 miles south of Plymouth; 2.5 miles northeast of Dunlap; 4 miles southwest of Bushong; Emporia (No. 433)\*; Dunlap (No. 444).\* *McPherson Co.*: 4 miles west of Lindsborg. *Morris Co.*: 5 miles east of Skiddy; 1 mile east of Skiddy. *Neosho Co.*: 15 miles north of Parsons. *Wilson Co.*: 3 miles east of Buffalo.

**Eumeces septentrionalis septentrionalis** (Baird), Northern [Pg 107]Prairie Skink.—*Chase Co.*: 6 miles south of Clements; 1 mile south of Saffordville; 11 miles southwest of Olpe (No. 348).

**Diadophis punctatus arnyi** (Kennicott), Prairie Ring-necked Snake.—*Bourbon Co.*: 1 mile north of Fulton. *Chase Co.*: 5 miles southwest of Saffordville (No. 334)\*; Elmdale (No. 146)\*; 3 miles west of Bazaar. *Franklin Co.*: 2.5 miles southeast of Peoria; 2 miles south of Lane. *Linn Co.*: 0.5 miles north of Trading Post. *Lyon Co.*: 1.5 miles northwest of Reading (Nos. 6, 372)\*; Emporia. *Morris Co.*: 5 miles south of Council Grove (Nos. 469-472). *Neosho Co.*: 4 miles northwest of Erie (No. 316).\* *Osage Co.*: 8 miles southwest of Auburn. *Shawnee Co.*: 5 miles east of Topeka. *Wabaunsee Co.*: 2 miles northeast of Alma. *Wilson Co.*: 3 miles east of Buffalo.

**Carphophis amoena vermis** (Kennicott), Western Worm Snake.—*Bourbon Co.*: 6 miles northwest of Fort Scott. *Chase Co.*: 6 miles southwest of Cottonwood Falls (No. 365).\* *Geary Co.*: 5 miles southwest of Wreford. *Greenwood Co.*: 4 miles northwest of Lamont (Nos. 516, 517).\* *Johnson Co.*: 3 miles east of De Soto. *Labette Co.*: 9 miles northeast of Parsons (No. 313).\* *Linn Co.*: 3.5 miles south of Pleasanton. *Lyon Co.*: 2 miles northeast of Reading; 5 miles northwest of Emporia. *Neosho Co.*: 4 miles northwest of Erie (No. 314).\* *Shawnee Co.*: Wakarusa. *Wilson Co.*: 2 miles northwest of Neodesha (No. 322).\*

**Heterodon contortrix contortrix** (Linnaeus), Common Hog-nosed Snake.—*Saline Co.*: Coronado Heights; 3 miles northwest of Lindsborg.

**Heterodon nasicus nasicus** Baird and Girard, Western Hog-nosed Snake.—*Chautauqua Co.*: Peru. *Ness Co.*: 6 miles west and 0.25 miles south of Ness City (No. 501)\*; 5 miles northwest of Ness City (Nos. 619, 620).\* *Rooks Co.*: Stockton (No. 418). *Scott Co.*: Near Scott City (Nos. 511-513, 515).\*

**Coluber constrictor flaviventris** (Say), Blue Racer.—*Butler Co.*: 3 miles south of El Dorado. *Chase Co.*: 5 miles south of Saffordville (Nos. 4, 110, 122-129, 656, 657).\* *Chautauqua Co.*: 1 mile south of Chautauqua (No. 375).\* *Geary Co.*: 5 miles southwest of Wreford. *Labette Co.*: 7 miles northwest of Mound Valley (No. 356).\* *Lyon Co.*: 5 miles northwest of Reading (No. 226)\*; 2 miles west of Olpe (No. 341)\*; 5 miles northwest of Emporia (No. 397)\*; 17 miles southwest of Emporia (No. 655).\* *McPherson Co.*: 4 miles west of Roxbury. *Morris Co.*: 4 miles west of Delavan. *Neosho Co.*: 4 miles northwest of Erie; 8 miles southeast of Chanute. [Pg

108]*Ness Co.*: 5 miles northwest of Ness City (No. 617).\* *Wilson Co.*: 3 miles east of Buffalo; 2 miles northwest of Neodesha; 7 miles northeast of Fall River.

**Masticophis flagellum flagellum** (Shaw), Eastern Coachwhip.—*Wilson Co.*: 2 miles northwest of Neodesha (No. 302).\* *Elk Co.*: 5 miles west of Grenola (No. 3).\*

**Masticophis flagellum testaceus** (Say), Western Coachwhip.—*Ness Co.*: 5 miles northwest of Ness City (No. 616).\* *Rooks Co.*: Stockton (Nos. 411, 412).\*

**Elaphe laeta laeta** (Baird and Girard), Emory Rat Snake.—*Chase Co.*: 5 miles southwest of Saffordville (Nos. 117-120, 130, 326, 354)\*; Wolf Creek; 2 miles northeast of Strong City (No. 366).\* *Coffey Co.*: 7 miles east of Lebo. *McPherson Co.*: Lindsborg. *Morris Co.*: 10 miles south of Council Grove (No. 230).\* *Saline Co.*: Salemsborg. *Wilson Co.*: 3 miles east of Buffalo (No. 161).\*

**Elaphe obsoleta obsoleta** (Say), Pilot Black Snake.—*Atchison Co.*: Atchison (No. 15).\* *Labette Co.*: 4 miles north of Oswego (No. 320).\* *Lyon Co.*: Emporia (Nos. 12, 374, 514)\*; 5 miles northwest of Emporia (No. 337); 1.5 miles northwest of Reading (No. 634).\* *Morris Co.*: 0.5 miles north of Wilsey. *Neosho Co.*: 4 miles northwest of Erie (Nos. 321, 359).\* *Wabaunsee Co.*: 4 miles southwest of Alma. *Wilson Co.*: 7 miles northeast of Fall River.

**Pituophis catenifer sayi** (Schlegel), Common Bull Snake.—*Atchison Co.*: Atchison. *Chase Co.*: 4 miles east of Elmdale; Toledo; 13 miles west of Emporia; Saffordville (No. 212).\* *Cherokee Co.*: 4 miles southeast of Columbus. *Coffey Co.*: 6 miles west of Waverly. *Ford Co.*: Bucklin (No. 405).\* *Franklin Co.*: 2 miles southwest of Lane. *Hodgeman Co.*: Jetmore. *Jefferson Co.*: 3 miles south of Nortonville. *McPherson Co.*: Lindsborg. *Morris Co.*: 3 miles southeast of Diamond Springs; 6 miles west of Council Grove; 4 miles west of Dwight; 3 miles north of Burdick; 3 miles east of Delavan. *Ness Co.*: 4 miles west and 1.5 miles north of Ness City (Nos. 499, 500, 615).\* *Rooks Co.*: 5 miles southwest of Stockton (Nos. 409, 410).\*

**Lampropeltis calligaster calligaster** (Harlan), Yellow-bellied King Snake.—*Butler Co.*: U. S. Highway 54 near Greenwood County line. *Coffey Co.*: 13 miles east of Emporia. *Franklin Co.*: 5 miles southwest of Ottawa (No. 207).\* *Lyon Co.*: 8 miles east of Emporia (No. 2)\*; 3 miles east of Emporia; 3 miles southeast of Olpe; southwest of Emporia (No. 216); 6 miles south of Plymouth (No. 22)\*; 1.5 miles northwest of Reading (No. 633).\* *McPherson* [Pg 109]*Co.*: Western edge of Lindsborg. *Osage Co.*: 4 miles northeast of Overbrook.

**Lampropeltis getulus holbrooki** (Stejneger), Speckled King Snake.—*Chase Co.*: 5 miles southwest of Saffordville (No. 109); 2 miles southwest of Elmdale (No. 363).\* *Hodgeman Co.*: Jetmore. *Lyon Co.*: 5 miles east of Emporia; 4 miles southwest of Bushong (No. 200).\* *Marion Co.*: 4 miles east of Antelope (No. 10).\* *Morris Co.*: 1

mile east of Skiddy. *Woodson Co.*: Lake Fegan (No. 626).\* *Wilson Co.*: 3 miles east of Buffalo (No. 162).\*

**Lampropeltis triangulum gentilis** (Baird and Girard), Western Milk Snake.—*Chase Co.*: 5 miles southwest of Saffordville (Nos. 121, 131, 406).⊙ *Gove Co.*: Fair Grounds (No. 18). *Greenwood Co.*: 4 miles southwest of Lamont (No. 376)⊙; 6 miles south of Wilbur. *Scott Co.*: near Scott City (No. 510).\*

**Lampropeltis triangulum sypila** (Cope), Red Milk Snake.—*Cherokee Co.*: 3 miles east of Crestline (No. 559). *Franklin Co.*: 2 miles southwest of Lane (No. 174).⊙

**Sonora episcopa** (Kennicott), Great Plains Ground Snake.—*Wilson Co.*: 2 miles northwest of Neodesha (Nos. 303-305, 323-325).\*

**Natrix erythrogaster transversa** (Hallowell), Yellow-bellied Water Snake.—*Chase Co.*: 6 miles south of Clements; 6 miles southwest of Saffordville; 3 miles east of Cottonwood Falls; 10 miles east of Matfield Green; 7 miles south of Plymouth (No. 287); Elmdale Hill, 0.5 miles east of Elmdale (No. 291)\*; 10 miles southwest of Olpe (No. 343).\* *Lyon Co.*: 9 miles south of Plymouth (No. 25); Emporia (No. 30)\*; 5 miles northwest of Emporia (No. 67); 1 mile north of Hartford (No. 108)\*; 7 miles southeast of Saffordville (No. 283).

**Natrix grahami** (Baird and Girard), Graham Water Snake.—*Lyon Co.*: Admire; 5 miles south of Plymouth (No. 19)\*; 6 miles east of Emporia (No. 40)\*; 0.5 miles north of Hartford (No. 85)\*; 2 miles east of Emporia (No. 208)\*; Emporia (No. 588).\*

**Natrix rhombifera** (Hallowell), Diamond-backed Water Snake.—*Lyon Co.*: 1 mile south of Emporia (Nos. 218-225)\*; 8 miles northwest of Emporia (Nos. 28, 29, 240, 261)\*; 2 miles southeast of Emporia (Nos. 32-35)\*; 5 miles northwest of Reading.

**Natrix sipedon sipedon** (Linnaeus), Common Water Snake.—*Barber Co.*: 8 miles west of Medicine Lodge. *Bourbon Co.*: 1 mile north of Fulton (No. 184).\* *Lyon Co.*: 5 miles northeast of Emporia (No. 5)\*; 9 miles south of Plymouth (No. 23)\*; 1 mile west [Pg 110]of Neosho Rapids; 2 miles southeast of Emporia (No. 142, 211)\*; 9 miles northeast of Emporia (No. 41); 3 miles northwest of Emporia (No. 66); 8 miles northwest of Emporia (Nos. 75, 78, 241, 254, 272)\*; 5 miles south of Hartford (No. 86); 1 mile north of Hartford (Nos. 91, 100); 7 miles southwest of Emporia (No. 116); Emporia (No. 239). *Morris Co.*: 3 miles southwest of Council Grove. *Shawnee Co.*: 4 miles east of Topeka (No. 31).\*

**Haldea striatula** (Linnaeus), Southern Ground Snake.—*Cherokee Co.*: 3 miles east of Crestline (No. 317)\*; 2 miles north of Baxter Springs; 1 mile north and 4 miles east of Crestline.



**Thamnophis radix radix** (Baird and Girard), Plains Garter Snake.—*Chase Co.*: 5 miles southwest of Saffordville. *Lyon Co.*: Emporia (Nos. 209, 210)\*; 1.5 miles northwest of Reading. *Ness Co.*: 5 miles northwest of Ness City (No. 618).\*

**Thamnophis sauritus proximus** (Say), Western Ribbon Snake.—*Chase Co.*: 1 mile south of Saffordville (No. 340).\* *Lyon Co.*: 2 miles southeast of Emporia (No. 38)\*; 5 miles northwest of Emporia (Nos. 68-70)\*; 12 miles southeast of Emporia (No. 215)\*; 5 miles northwest of Reading (No. 229).\* *Wilson Co.*: 3 miles east of Buffalo.

**Thamnophis sirtalis parietalis** (Say), Red-sided Garter Snake.—*Barber Co.*: 8 miles north of Medicine Lodge. *Dickinson Co.*: 1.5 miles northwest of Herington. *Lyon Co.*: 2.5 miles southeast of Emporia (No. 39)\*; 1 mile northeast of Emporia (Nos. 43-48)\*; 5 miles northwest of Emporia (No. 71)\*; 8 miles northwest of Emporia (No. 84).\* *Wabaunsee Co.*: 2 miles northeast of Alma.

**Tropidoclonion lineatum** (Hallowell), Lined Snake.—*Chase Co.*: Saffordville; 3 miles northeast of Bazaar. *Labette Co.*: 1 mile north of Montana (No. 362).\* *Lyon Co.*: Emporia; 9 miles south and 5 miles west of Emporia. *Marion Co.*: 4 miles east of Antelope (No. 11).\* *Morris Co.*: 3 miles east of Woodbine (Nos. 518-520).\* *Rooks Co.*: 5 miles northwest of Stockton (Nos. 414, 415).\*

**Tantilla gracilis** Baird and Girard, Slender Tantilla.—*Cherokee Co.*: 3 miles east of Crestline (Nos. 540-544). *Geary Co.*: 4 miles south of Fort Riley. *Wilson Co.*: 3 miles east of Buffalo; 7 miles northeast of Fall River; 2 miles northwest of Neodesha.

**Tantilla nigriceps nigriceps** Kennicott, Great Plains Black-headed Snake.—*Rooks Co.*: 5 miles northwest of Stockton (No. 416); Stockton (No. 417). This is the northernmost known record for the species.[Pg 111]

**Agkistrodon mokeson mokeson** (Daudin), Southern Copperhead.—*Atchison Co.*: Atchison (Nos. 201, 202, 573, 578)\*; 5 miles north of Atchison (No. 653).\* *Bourbon Co.*: 6 miles northwest of Fort Scott (No. 294).\* *Cherokee Co.*: 1 mile north and 4 miles east of Crestline (Nos. 165-170)\*; 2 miles east of Riverton (No. 293).\* *Coffey Co.*: 4 miles northeast of Burlington. *Franklin Co.*: 2 miles southwest of Lane (Nos. 187-192, 194).\* *Lyon Co.*: 1.5 miles northwest of Reading (No. 7).\* *Wabaunsee Co.*: 2 miles northeast of Alma (No. 195).\* *Woodson Co.*: Lake Fegan (Nos. 627, 628, 630-632, 649).\*

**Sistrurus catenatus tergeminus** (Say), Western Massasauga.—*Chase Co.*: 5 miles southwest of Saffordville (Nos. 8, 26, 112, 113, 295)\*; 3 miles southwest of Elko (No. 145)\*; 11 miles northeast of Matfield Green (No. 231)\*; 8 miles south of Clements; 2 miles southwest of Elmdale (No. 333); 10 miles southwest of Olpe (No. 344).\* *Lyon Co.*: 10 miles south of Plymouth (Nos. 20, 121)\*; 8 miles southwest of Emporia (No.

114)\*; 5 miles northwest of Bushong (No. 353)\*; 11 miles northeast of Emporia (No. 474). *Wabaunsee Co.*: Kansas State Highway 99 just north of Lyon County (No. 641).\*

**Crotalus horridus horridus** (Linnaeus), Timber Rattlesnake.—*Atchison Co.*: Atchison (Nos. 204-206)\*; 5 miles north of Atchison (Nos. 642-652).\*

**Crotalus viridis viridis** (Rafinesque), Prairie Rattlesnake.—*Hodgeman Co.*: Jetmore.

**Sternotherus odoratus** (Latreille), Common Musk Turtle.—*Cherokee Co.*: 1 mile north and 4 miles east of Crestline (No. 171).

**Kinosternon flavescens flavescens** (Agassiz), Yellow Mud Turtle.—*Ford Co.*: Rattlesnake Creek 2 miles south of Bucklin (1 spec.).\* *Pratt Co.*: 5 miles southeast of Pratt. *Sheridan Co.*: Sheridan County State Park (No. 569).

**Chelydra serpentina serpentina** (Linnaeus), Common Snapping Turtle.—*Chase Co.*: 10 miles southwest of Olpe (No. 345); 3 miles east of Cottonwood Falls; 5 miles northeast of Strong City. *Greenwood Co.*: (1 spec.).\* *Lyon Co.*: 1.5 miles northwest of Reading (No. 336); 5 miles south of Plymouth; 10 miles north of Emporia; Admire; 4 miles northwest of Olpe; Emporia. *Sheridan Co.*: State Lake; 7 miles northeast of Quinter.

**Terrapene ornata** (Agassiz), Ornate Box Turtle.—*Chase Co.*: 14 miles southwest of Olpe; 6 miles south of Clements; 5 miles southwest of Saffordville. *Coffey Co.*: 4 miles south of Gridley (No. [Pg 112]468)\*; 1 mile west of Agricola (No. 638).\* *Ellsworth Co.*: 10 miles south of Ellsworth. *Greenwood Co.*: (1 spec.).\* *Hodgeman Co.*: Jetmore. *Lyon Co.*: 6 miles south of Plymouth; 8 miles southwest of Emporia; 7 miles west of Olpe. *Morris Co.*: 5 miles northwest of Council Grove; 1 mile east of Skiddy; 5 miles south of Council Grove. *Rice Co.*: Sterling. *Rooks Co.*: Solomon River near Stockton (No. 408).\*

**Terrapene triunguis** (Agassiz), Carolina Box Turtle.—*Coffey Co.*: 1 mile west of Agricola (No. 637).\*

**Chrysemys picta bellii** (Gray), Painted Turtle.—*Chase Co.*: Kahola Creek, near Morris County line. *Dickinson Co.*: 1.5 miles north of Herington. *Ford Co.*: Rattlesnake Creek; 2 miles south of Bucklin (1 spec.).\* *Lyon Co.*: 3 miles north of Emporia; 6 miles south of Plymouth. *Ness Co.*: 4 miles west and 1.5 miles north of Ness City (Nos. 613, 614).\* *Sheridan Co.*: Sheridan County State Park (No. 570). *Wilson Co.*: 4 miles southeast of Buffalo. *Woodson Co.*: Owl Creek north of Yates Center (1 spec.).\*

**Pseudemys floridana hoyi** (Agassiz), Toothed Turtle.—*Greenwood Co.*: Holmer Creek south of Hamilton on Kansas State Highway 99 (Mus. Nat. Hist., Univ. Kans., No. 23148).\* This is the second published locality for the species in Kansas; it has

previously been reported from a locality 5.5 miles northeast of Coyville, Woodson County (Burt and Hoyle, Trans. Kans. Acad. Sci., 37:198, 1934).

**Pseudemys scripta elegans** (Wied), Scribe Turtle.—*Chase Co.*: 7 miles southwest of Saffordville. *Lyon Co.*: 10 miles northwest of Emporia; 7 miles south of Plymouth.

**Amyda mutica** (Le Sueur), Spineless Soft-shelled Turtle.—*McPherson Co.*: Lindsborg.

**Amyda spinifera spinifera** (Le Sueur), Spiny Soft-shelled Turtle.—*Chase Co.*: 10 miles southwest of Olpe; 7 miles southwest of Saffordville (No. 351). \* *Lyon Co.*: 5 miles east of Emporia. *Ness Co.*: 5.5 miles northwest of Ness. *Sheridan Co.*: State Lake; 7 miles northeast of Quinter.

21-2762

\*\*\* END OF THE PROJECT GUTENBERG EBOOK SELECTED RECORDS OF REPTILES AND AMPHIBIANS  
FROM KANSAS \*\*\*

Updated editions will replace the previous one—the old editions will be renamed.

Creating the works from print editions not protected by U.S. copyright law means that no one owns a United States copyright in these works, so the Foundation (and you!) can copy and distribute it in the United States without permission and without paying copyright royalties. Special rules, set forth in the General Terms of Use part of this license, apply to copying and distributing Project Gutenberg™ electronic works to protect the PROJECT GUTENBERG™ concept and trademark. Project Gutenberg is a registered trademark, and may not be used if you charge for an eBook, except by following the terms of the trademark license, including paying royalties for use of the Project Gutenberg trademark. If you do not charge anything for copies of this eBook, complying with the trademark license is very easy. You may use this eBook for nearly any purpose such as creation of derivative works, reports, performances and research. Project Gutenberg eBooks may be modified and printed and given away—you may do practically ANYTHING in the United States with eBooks not protected by U.S. copyright law. Redistribution is subject to the trademark license, especially commercial redistribution.

START: FULL LICENSE

## THE FULL PROJECT GUTENBERG LICENSE

PLEASE READ THIS BEFORE YOU DISTRIBUTE OR USE THIS WORK

To protect the Project Gutenberg™ mission of promoting the free distribution of electronic works, by using or distributing this work (or any other work associated in any way with the phrase “Project Gutenberg”), you agree to comply with all the terms of the Full Project Gutenberg™ License available with this file or online at [www.gutenberg.org/license](http://www.gutenberg.org/license).

### Section 1. General Terms of Use and Redistributing Project Gutenberg™ electronic works

1.A. By reading or using any part of this Project Gutenberg™ electronic work, you indicate that you have read, understand, agree to and accept all the terms of this license and intellectual property (trademark/copyright) agreement. If you do not agree to abide by all the terms of this agreement, you must cease using and return or destroy all copies of Project Gutenberg™ electronic works in your possession. If you paid a fee for obtaining a copy of or access to a Project Gutenberg™ electronic work and you do not agree to be bound by the terms of this agreement, you may obtain a refund from the person or entity to whom you paid the fee as set forth in paragraph 1.E.8.

1.B. “Project Gutenberg” is a registered trademark. It may only be used on or associated in any way with an electronic work by people who agree to be bound by the terms of this agreement. There are a few things that you can do with most Project Gutenberg™ electronic works even without complying with the full terms of this agreement. See paragraph 1.C below. There are a lot of things you can do with Project Gutenberg™ electronic works if you follow the terms of this agreement and help preserve free future access to Project Gutenberg™ electronic works. See paragraph 1.E below.

1.C. The Project Gutenberg Literary Archive Foundation (“the Foundation” or PGLAF), owns a compilation copyright in the collection of Project Gutenberg™ electronic works. Nearly all the individual works in the collection are in the public domain in the United States. If an individual work is unprotected by copyright law in the United States and you are located in the United States, we do not claim a right to prevent you from copying, distributing, performing, displaying or creating derivative works based on the work as long as all references to Project Gutenberg are removed. Of course, we hope that you will support the Project Gutenberg™ mission of promoting free access to electronic works by freely sharing Project Gutenberg™ works in compliance with the terms of this agreement for keeping the Project Gutenberg™ name associated with the work. You can easily comply with the terms of this agreement by keeping this work in the same format with its attached full Project Gutenberg™ License when you share it without charge with others.

1.D. The copyright laws of the place where you are located also govern what you can do with this work. Copyright laws in most countries are in a constant state of change. If you are outside the United States, check the laws of your country in addition to the terms of this agreement before downloading, copying, displaying, performing, distributing or creating derivative works based on this work or any other Project Gutenberg™ work. The Foundation makes no representations concerning the copyright status of any work in any country other than the United States.

1.E. Unless you have removed all references to Project Gutenberg:

1.E.1. The following sentence, with active links to, or other immediate access to, the full Project Gutenberg™ License must appear prominently whenever any copy of a Project Gutenberg™ work (any work on which the phrase “Project Gutenberg” appears, or with which the phrase “Project Gutenberg” is associated) is accessed, displayed, performed, viewed, copied or distributed:

This eBook is for the use of anyone anywhere in the United States and most other parts of the world at no cost and with almost no restrictions whatsoever. You may copy it, give it away or re-use it under the terms of the Project Gutenberg License included with this eBook or online at [www.gutenberg.org](http://www.gutenberg.org). If you are not located in the United States, you will have to check the laws of the country where you are located before using this eBook.

1.E.2. If an individual Project Gutenberg™ electronic work is derived from texts not protected by U.S. copyright law (does not contain a notice indicating that it is posted with permission of the copyright holder), the work can be copied and distributed to anyone in the United States without paying any fees or charges. If you are redistributing or providing access to a work with the phrase “Project Gutenberg” associated with or appearing on the work, you must comply either with the requirements of paragraphs 1.E.1 through 1.E.7 or obtain permission for the use of the work and the Project Gutenberg™ trademark as set forth in paragraphs 1.E.8 or 1.E.9.

1.E.3. If an individual Project Gutenberg™ electronic work is posted with the permission of the copyright holder, your use and distribution must comply with both paragraphs 1.E.1 through 1.E.7 and any additional terms imposed by the copyright holder. Additional terms will be linked to the Project Gutenberg™ License for all works posted with the permission of the copyright holder found at the beginning of this work.

1.E.4. Do not unlink or detach or remove the full Project Gutenberg™ License terms from this work, or any files containing a part of this work or any other work associated with Project Gutenberg™.

1.E.5. Do not copy, display, perform, distribute or redistribute this electronic work, or any part of this electronic work, without prominently displaying the sentence set forth in paragraph 1.E.1 with active links or immediate access to the full terms of the Project Gutenberg™ License.

1.E.6. You may convert to and distribute this work in any binary, compressed, marked up, nonproprietary or proprietary form, including any word processing or hypertext form. However, if you provide access to or distribute copies of a Project Gutenberg™ work in a format other than “Plain Vanilla ASCII” or other format used in the official version posted on the official Project Gutenberg™ website ([www.gutenberg.org](http://www.gutenberg.org)), you must, at no additional cost, fee or expense to the user, provide a copy, a means of exporting a copy, or a means of obtaining a copy upon request, of the work in its original “Plain Vanilla ASCII” or other form. Any alternate format must include the full Project Gutenberg™ License as specified in paragraph 1.E.1.

1.E.7. Do not charge a fee for access to, viewing, displaying, performing, copying or distributing any Project Gutenberg™ works unless you comply with paragraph 1.E.8 or 1.E.9.

1.E.8. You may charge a reasonable fee for copies of or providing access to or distributing Project Gutenberg™ electronic works provided that:

- • You pay a royalty fee of 20% of the gross profits you derive from the use of Project Gutenberg™ works calculated using the method you already use to calculate your applicable taxes. The fee is owed to the owner of the Project Gutenberg™ trademark, but he has agreed to donate royalties under this paragraph to the Project Gutenberg Literary Archive Foundation. Royalty payments must be paid within 60 days following each date on which you prepare (or are legally required to prepare) your periodic tax returns. Royalty payments should be clearly marked as such and sent to the Project Gutenberg Literary Archive Foundation at the address specified in Section 4, “Information about donations to the Project Gutenberg Literary Archive Foundation.”
- • You provide a full refund of any money paid by a user who notifies you in writing (or by e-mail) within 30 days of receipt that s/he does not agree to the terms of the full Project Gutenberg™ License. You must require such a user to return or destroy all copies of the works possessed in a

physical medium and discontinue all use of and all access to other copies of Project Gutenberg™ works.

- • You provide, in accordance with paragraph 1.F.3, a full refund of any money paid for a work or a replacement copy, if a defect in the electronic work is discovered and reported to you within 90 days of receipt of the work.
- • You comply with all other terms of this agreement for free distribution of Project Gutenberg™ works.

1.E.9. If you wish to charge a fee or distribute a Project Gutenberg™ electronic work or group of works on different terms than are set forth in this agreement, you must obtain permission in writing from the Project Gutenberg Literary Archive Foundation, the manager of the Project Gutenberg™ trademark. Contact the Foundation as set forth in Section 3 below.

#### 1.F.

1.F.1. Project Gutenberg volunteers and employees expend considerable effort to identify, do copyright research on, transcribe and proofread works not protected by U.S. copyright law in creating the Project Gutenberg™ collection. Despite these efforts, Project Gutenberg™ electronic works, and the medium on which they may be stored, may contain “Defects,” such as, but not limited to, incomplete, inaccurate or corrupt data, transcription errors, a copyright or other intellectual property infringement, a defective or damaged disk or other medium, a computer virus, or computer codes that damage or cannot be read by your equipment.

1.F.2. LIMITED WARRANTY, DISCLAIMER OF DAMAGES - Except for the “Right of Replacement or Refund” described in paragraph 1.F.3, the Project Gutenberg Literary Archive Foundation, the owner of the Project Gutenberg™ trademark, and any other party distributing a Project Gutenberg™ electronic work under this agreement, disclaim all liability to you for damages, costs and expenses, including legal fees. YOU AGREE THAT YOU HAVE NO REMEDIES FOR NEGLIGENCE, STRICT LIABILITY, BREACH OF WARRANTY OR BREACH OF CONTRACT EXCEPT THOSE PROVIDED IN PARAGRAPH 1.F.3. YOU AGREE THAT THE FOUNDATION, THE TRADEMARK OWNER, AND ANY DISTRIBUTOR UNDER THIS AGREEMENT WILL NOT BE LIABLE TO YOU FOR ACTUAL, DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE OR INCIDENTAL DAMAGES EVEN IF YOU GIVE NOTICE OF THE POSSIBILITY OF SUCH DAMAGE.

1.F.3. LIMITED RIGHT OF REPLACEMENT OR REFUND - If you discover a defect in this electronic work within 90 days of receiving it, you can receive a refund of the money (if any) you paid for it by sending a written explanation to the person you received the work from. If you received the work on a physical medium, you must return the medium with your written explanation. The person or entity that provided you with the defective work may elect to provide a replacement copy in lieu of a refund. If you received the work electronically, the person or entity providing it to you may choose to give you a second opportunity to receive the work electronically in lieu of a refund. If the second copy is also defective, you may demand a refund in writing without further opportunities to fix the problem.

1.F.4. Except for the limited right of replacement or refund set forth in paragraph 1.F.3, this work is provided to you ‘AS-IS’, WITH NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

1.F.5. Some states do not allow disclaimers of certain implied warranties or the exclusion or limitation of certain types of damages. If any disclaimer or limitation set forth in this agreement violates the law of the state applicable to this agreement, the agreement shall be interpreted to make the maximum disclaimer or limitation permitted by the applicable state law. The invalidity or unenforceability of any provision of this agreement shall not void the remaining provisions.

1.F.6. INDEMNITY - You agree to indemnify and hold the Foundation, the trademark owner, any agent or employee of the Foundation, anyone providing copies of Project Gutenberg™ electronic works in accordance with this agreement, and any volunteers associated with the production, promotion and distribution of Project Gutenberg™ electronic works, harmless from all liability, costs and expenses, including legal fees, that arise directly or indirectly from any of the following which you do or cause to occur: (a) distribution of this or any Project Gutenberg™ work, (b) alteration, modification, or additions or deletions to any Project Gutenberg™ work, and (c) any Defect you cause.

## **Section 2. Information about the Mission of Project Gutenberg™**

Project Gutenberg™ is synonymous with the free distribution of electronic works in formats readable by the widest variety of computers including obsolete, old, middle-aged and new computers. It exists because of the efforts of hundreds of volunteers and donations from people in all walks of life.

Volunteers and financial support to provide volunteers with the assistance they need are critical to reaching Project Gutenberg™'s goals and ensuring that the Project Gutenberg™ collection will remain freely available for generations to come. In 2001, the Project Gutenberg Literary Archive Foundation was created to provide a secure and permanent future for Project Gutenberg™ and future generations. To learn more about the Project Gutenberg Literary Archive Foundation and how your efforts and donations can help, see Sections 3 and 4 and the Foundation information page at [www.gutenberg.org](http://www.gutenberg.org).

## **Section 3. Information about the Project Gutenberg Literary Archive Foundation**

The Project Gutenberg Literary Archive Foundation is a non-profit 501(c)(3) educational corporation organized under the laws of the state of Mississippi and granted tax exempt status by the Internal Revenue Service. The Foundation's EIN or federal tax identification number is 64-6221541. Contributions to the Project Gutenberg Literary Archive Foundation are tax deductible to the full extent permitted by U.S. federal laws and your state's laws.

The Foundation's business office is located at 809 North 1500 West, Salt Lake City, UT 84116, (801) 596-1887. Email contact links and up to date contact information can be found at the Foundation's website and official page at [www.gutenberg.org/contact](http://www.gutenberg.org/contact)

## **Section 4. Information about Donations to the Project Gutenberg Literary Archive Foundation**

Project Gutenberg™ depends upon and cannot survive without widespread public support and donations to carry out its mission of increasing the number of public domain and licensed works that can be freely distributed in machine-readable form accessible by the widest array of equipment including outdated equipment. Many small donations (\$1 to \$5,000) are particularly important to maintaining tax exempt status with the IRS.

The Foundation is committed to complying with the laws regulating charities and charitable donations in all 50 states of the United States. Compliance requirements are not uniform and it takes a considerable effort, much paperwork and many fees to meet and keep up with these requirements. We do not solicit donations in locations where we have not received written confirmation of compliance. To SEND DONATIONS or determine the status of compliance for any particular state visit [www.gutenberg.org/donate](http://www.gutenberg.org/donate).

While we cannot and do not solicit contributions from states where we have not met the solicitation requirements, we know of no prohibition against accepting unsolicited donations from donors in such states who approach us with offers to donate.

International donations are gratefully accepted, but we cannot make any statements concerning tax treatment of donations received from outside the United States. U.S. laws alone swamp our small staff.

Please check the Project Gutenberg web pages for current donation methods and addresses. Donations are accepted in a number of other ways including checks, online payments and credit card donations. To donate, please visit: [www.gutenberg.org/donate](http://www.gutenberg.org/donate)

## **Section 5. General Information About Project Gutenberg™ electronic works**

Professor Michael S. Hart was the originator of the Project Gutenberg™ concept of a library of electronic works that could be freely shared with anyone. For forty years, he produced and distributed Project Gutenberg™ eBooks with only a loose network of volunteer support.

Project Gutenberg™ eBooks are often created from several printed editions, all of which are confirmed as not protected by copyright in the U.S. unless a copyright notice is included. Thus, we do not necessarily keep eBooks in compliance with any particular paper edition.

Most people start at our website which has the main PG search facility: [www.gutenberg.org](http://www.gutenberg.org).

This website includes information about Project Gutenberg™, including how to make donations to the Project Gutenberg Literary Archive Foundation, how to help produce our new eBooks, and how to subscribe to our email newsletter to hear about new eBooks.