

County Records, Voucher Specimens, and Notes on Turtles (Reptilia: Testudines) in Oklahoma.

Jeffrey H. Black and William A. Carter

Department of Biology, East Central University, Ada, OK 74820

Jimmie Pigg

Oklahoma State Department of Health, Oklahoma City, OK 73124

Received: 1992 Dec 08; Revised: 1993 Apr 16

Nineteen species and subspecies of turtles have been reported from Oklahoma (1-3). Turtles range throughout Oklahoma; 18 of these have their distribution primarily determined by appropriate aquatic habitats. Owing to their aquatic nature and difficulty of capture, turtles have received little study within Oklahoma.

Webb (1) was the first to publish detailed range maps of reptiles in Oklahoma. He based his distribution maps on specimens he examined, museum records, published records, personal observations, and contributed field records from other herpetologists. In 1984, Secor and Carpenter (2) published distribution maps for reptiles in Oklahoma. Their distribution maps were based on Webb (1), new published distribution records since Webb, sightings by reliable observers, and records from several museums within and outside of Oklahoma. All records were put into a computer base known as DOKARRS (Distribution of Oklahoma Amphibians and Reptiles by Recorded Sightings) developed by Carpenter (4).

Many DOKARRS records in Secor and Carpenter (2) and some distribution records in other publications do not indicate whether records are based on voucher specimens (specimens preserved in a museum or university). Since Secor and Carpenter, several papers have been published reporting county records and voucher specimens for turtles in Oklahoma (5-14). Sievert and Sievert (15) and Conant and Collins (3) also showed distribution maps for turtle species found in Oklahoma, but specific county collection localities were not indicated.

This paper reports one state record, twelve county records, and fifty-five voucher specimens in the East Central University Biological Collection (ECUBC). These specimens represent new state and county records for Oklahoma as well as voucher specimens which verify published records and previous sight (DOKARRS) records in Secor and Carpenter (2).

The ECUBC contains nearly 600 preserved turtle specimens, most collected within the past 30 years. From 1981 through 1991, Jimmie Pigg has conducted a study of rivers, streams, and lakes throughout Oklahoma as part of the Biological Monitoring Program of the Oklahoma State Health Department. Turtle specimens from this study have been catalogued into the ECUBC. The personal collection of W.A. Carter is also housed at East Central University and specimens from this collection are indicated by WAC numbers.

All state and county records and voucher specimens listed in this paper are represented by specimens in the ECUBC. Site of collection, date of collection, collector, ECUBC or WAC number, and whether it is a state or county record or voucher specimen is indicated. For each specimen reference is made to the literature for which the specimen serves as a county or state record or voucher specimen. Localities are arranged alphabetically by county, and scientific and vernacular names used are those recommended by Collins (16).

•*Apalone mutica mutica* (Midland Smooth Softshell).

Johnston Co: Blue River, 8 km NNW Milburn. 1 June 1966. W.A. Carter. ECU 2001. Voucher (1,2).

Pontotoc Co: South Canadian River, 19.3 km N Ada. 19 July 1966. D.C. Flowers. ECU 834-836. Voucher (1,2,18).

•*Apalone spinifera hartwegi* (Western Spiny Softshell).

Murray Co: 4.8 km S Sulphur. 18 July 1971. J. Williams. ECU 2132. Voucher (2).

- Pontotoc Co: Oakman Lake, 12 km NNE Ada. W.A. Carter. WAC 37. Voucher (1,2,17,18).
- Apalone spinifera pallida* (Pallid Spiny Softshell).
Garvin Co: 12.9 km S Elmore City. 2 July 1966. L. Rose. ECU 729. Voucher (1,2).
Pontotoc Co: 5.6 km S Ada. 9 October 1965. W.A. Carter. WAC 2042. Voucher (2,18).
 - Chelydra serpentina serpentina* (Common Snapping Turtle).
Adair Co: near Proctor. 3 May 1963. M.E. Sisk, WAC 542. Voucher (1,2,17).
Cherokee Co: Illinois River, mouth of Baron Fork River. 21 July 1983. J. Pigg. ECU 6258. Voucher (1,2).
Cimarron Co: 24 km N, 9.7 km W Boise City. 20 August 1967. W.A. Carter. WAC 2287. Voucher (1,2).
Coal Co: 1.6 km E Coalgate. 10 May 1989. J. H. Black. ECU 6341. Voucher (1,2).
Sequoyah Co: 11.3 km NE Vian. 7 May 1966. W.A. Carter. WAC 1896. Voucher (1,2,25).
 - Chrysemys picta picta* (Eastern Painted Turtle).
Kay Co: Lake Ponca, Ponca City Park, Ponca City. 3 and 4 May 1973. W.A. McCracken. WAC 2656-2657. State Record (1,2). Probably introduced by human agency. Current status of population unknown.
 - Deirochelys reticularia miaria* (Western Chicken Turtle).
Pottawatomie Co: South city limits of Shawnee near South Canadian River. 3 May 1974. J.H. Black. ECU 6333. Voucher (2).
 - Graptemys kohnii* (Mississippi Map Turtle).
LeFlore Co: Blackfork River, 32.2 km SW Poteau. 9 March 1974. J.R. Waymire. ECU 2348. Voucher (1,2).
Sequoyah Co: Sallisaw Creek near Dwight Mission. 4 May 1963. W.A. Carter. WAC 540. Voucher (1,2,17).
 - Graptemys pseudogeographica ouachitensis* (Ouachita Map Turtle).
Garvin Co: Washita River, 1.6 km E Pauls Valley. 14 August 1990. J. Pigg. ECU 6196-6197. County Record (1,2).
Haskell Co: Canadian River, Whitefield. 19 July 1982. J. Pigg. ECU 6327. County Record (1,2).
Hughes Co: North Canadian River, N Wetumka. 19 July 1984. J. Pigg. ECU 6194. County Record (1,2).
Lincoln Co: Deep Fork River, SW Wellston. 12 June 1983. J. Pigg. ECU 6211. County Record (1,2).
Logan Co: Cimarron River, SW Guthrie. 15 May 1991. J. Pigg. ECU 6199. County Record (1,2).
McIntosh Co: 8 km SE Henryetta. 16 July 1966. T.S.E. Lewis. ECU 691. Voucher (1,2).
Oklahoma Co: Deep Fork River, 0.8 km S Arcadia. 22 May 1991. J. Pigg. ECU 6195. County Record (1,2).
Payne Co: Arkansas River, N Ralston. 21 June 1991. J. Pigg. ECU 6190. County Record (1,2).
Wagoner Co: Flat Creek Resort Area, Fort Gibson Lake. 9 October 1965. R. Jones. ECU 691. Voucher (1,2).
 - Kinosternon flavescens flavescens* (Yellow Mud Turtle).
Okfuskee Co: 14.5 km SW Okemah. 11 October 1969. G.G. Willis. ECU 1912. Voucher (2).
Pontotoc Co: 16 km W Ada. 8 May 1966. T.G. Henry. WAC 1821. Voucher (1,2,18).
 - Kinosternon subrubrum hippocrepis* (Mississippi Mud Turtle).
Carter Co: Martin Landing, Lake Murray. 16 August 1990. J. Pigg. ECU 6302. Voucher (1,2).
Hughes Co: 5.6 km S Wetumka. 4 May 1966. C. Johnson. WAC 1814. Voucher (1,2).
Murray Co: 9.7 km S Sulphur. 27 September 1969. H.S. Wood. ECU 1939. Voucher (2).
Okfuskee Co: 14.5 km SW Okemah. 11 October 1969. G.G. Willis. ECU 1913. Voucher (2).
Pittsburg Co: 8 km SE Stuart. 10 April 1965. C.T. Everett. ECU 249. Voucher (1,2).
Pontotoc Co: 11.3 km NE Ada. 1 June 1964. W.A. Carter. WAC 900. Voucher (1,2,17,18).
 - Macrolemys temminckii* (Alligator Snapping Turtle).
Murray Co: Washita River, S Davis. 3 July 1968. D. Reeves and N. Rose. ECU 2346. Voucher (2).
Specimen represented by photographs and newspaper column.
 - Pseudemys concinna metteri* (Missouri River Cooter).

Choctaw Co: Lake Raymond Gary. 20 July 1982. J. Pigg. ECU 6329. Voucher (2).
 Coal Co: 3.2 km E Coalgate. 8 July 1972. M.A. Byrd. ECU 2265. Voucher (2).
 Johnston Co: Tishomingo National Fish Hatchery, Reagan. 14 April 1965. W.A. Carter. WAC 1266-1267. Voucher (1,2).
 Muskogee Co: Arkansas River, NE Muskogee. 22 June 1984. J. Pigg. ECU 6324. Voucher (2).
 Osage Co: 14.5 km N, 1.6 km E Shidler. 11 March 1961. W. Hadley. Voucher (1,2).
 Pontotoc Co: Wintersmith Lake, Ada. 11 June 1966. L. Rose. ECU 727. Voucher (1,2,18).

•*Sternotherus odoratus* (Common Musk Turtle).

McIntosh Co: 14.9 km E Henryetta. 3 July 1967. J. Delso. ECU 1241. County Record (1,2).
 Okmulgee Co: 3.2 km E Henryetta. 15 June 1967. J. Delso. ECU 1448. County Record (1,2).
 Osage Co: Grainola. 11 March 1961. W. Hadley. WAC 613. Voucher (1,2).
 Pontotoc Co: 3.2 km SE Ada. 25 September 1964. L. Springfield. WAC 1117. Voucher (1,2,17,18).

•*Terrapene carolina triunguis* (Three-toed Box Turtle).

Okfuskee Co: 4.8 km E Okemah. 19 June 1966. T.S.E. Lewis. ECU 690. Voucher (1,2,20).
 Okmulgee Co: 4.8 km NE Shulter. 10 June 1967. J. Delso. ECU 1450. Voucher (1,2,21).
 Payne Co: 16.1 km W Stillwater. 13 June 1964. W.A. Carter. WAC 916. Voucher (1,2,19).
 Pushmataha Co: no locality data. 23 July 1956. W.B. Redman. ECU 65. Voucher (1,2,17).

•*Terrapene ornata ornata* (Ornate Box Turtle).

Johnston Co: Tishomingo. 28 April 1962. W.A. Carter. WAC 275. Voucher (1,2,22).
 Murray Co: 4.4 km E Davis. 13 September 1965. G.D. Fullerton. ECU 163. Voucher (1,2,19).
 Pittsburg Co: 8 km E, 1.6 km S Stuart. 25 September 1965. C.T. Everett. ECU 146. Voucher (1,2,17).
 Pontotoc Co: 11.3 km SE Ada. 23 September 1965. L.D. Springfield. ECU 125. Voucher (1,2,17,18).
 Pushmataha Co: no locality data. 23 July 1956. L.A. Redman. ECU 59. Voucher (1,2,17).
 Okfuskee Co: 14.5 km SW Okemah. 11 October 1969. G.G. Wallis. ECU 1914. Voucher (2).

•*Trachemys scripta elegans* (Red-eared Slider).

Atoka Co: Muddy Boggy River, Ferris. 14 June 1984. J. Pigg. ECU 6317. County Record (1,2).
 Blaine Co: South Canadian River, 1.6 km W Bridgeport. 28 June 1991. J. Pigg. Voucher (2).
 Cherokee Co: Cherokee Landing, Lake Tenkiller. 24 June 1980. J. Pigg. ECU 6303. Voucher (1,2).
 Choctaw Co: Red River, S. Hugo. 12 August 1981. J. Pigg. ECU 6310. Voucher (1,2).
 Coal Co: 3.2 km N Coalgate. 16 May 1966. J.W. Mann. WAC 2006. Voucher (1,2).
 Custer Co: Owl Cove, Lake Foss. 23 June 1981. J. Pigg. ECU 6319. County Record (1,2).
 Grant Co: Salt Fork Arkansas River, N Nash. 2 October 1983. J. Pigg. ECU 6307. Voucher (1,2,17).
 Hughes Co: 4.8 km S Holdenville. 27 November 1964. W.D. Stokes. ECU 177-178. Voucher (1,2,17).
 McIntosh Co: 3.2 km E Henryetta. 8 July 1967. S. Davidson. ECU 1238-1240. Voucher (2).
 Oklahoma Co: Deep Fork River, Luther. 8 August 1984. J. Pigg. ECU 6316. County Record (1,2).
 Osage Co: 14.5 km N, 4.8 km E Shidler. March 1961. W.F. Hadley. WAC 5354. Voucher (1,2).
 Payne Co: 6.4 km S Stillwater. 14 August 1964. W.A. Carter. WAC 1003. Voucher (1,2).
 Pittsburg Co: 4.8 km N Kiowa. 11 January 1965. J. Arter. ECU 402. Voucher (1,2,23,24).
 Pontotoc Co: 17.7 km E Ada. 27 June 1957. W.A. Carter. WAC 614-615. Voucher (1,2,17,18).
 Sequoyah Co: Sallisaw Cove, Kerr Lake. 21 July 1983. J. Pigg. ECU 6313. Voucher (1,2,25).

REFERENCES

1. Webb, R.G., *Reptiles of Oklahoma*. Univ.

- Oklahoma Press, Norman, OK (1970).
2. Secor, S.M. and Carpenter, C.C., Distribution Maps of Oklahoma Reptiles. *Oklahoma Herpetol. Soc. Spec. Publ.* No. 3. 1-57 (1984).
 3. Conant, R., and Collins, J.T., *A Field Guide To Reptiles and Amphibians of Eastern and Central North America*, 3rd ed., Houghton Mifflin Co., Boston, MA (1991).
 4. Carpenter, C.C., DOKARRS. *Bull. Oklahoma Herpetol. Soc.* **2**, 22-25 (1977).
 5. Secor, S. M., New County Records for Oklahoma Reptiles. *Bull. Oklahoma Herpetol. Soc.* **9**, 33 (1984).
 6. Mulvany, P.S., and Mulvany, M.C., New County Records for Reptiles in Craig and Notawa Counties. *Bull. Oklahoma Herpetol. Soc.* **10**, 12-14 (1985).
 7. Mathers, C.M., New County Records for Reptiles in Grady County, Oklahoma. *Bull. Oklahoma Herpetol. Soc.* **11**, 14 (1986).
 8. Vance, T., Two Unreported Turtle Records for Love County, Oklahoma. *Bull. Oklahoma Herpetol. Soc.* **11**, 13 (1986).
 9. Cline, G.R., Miscellaneous Accounts of Some Herptiles of Ottawa County, Oklahoma. *Bull. Oklahoma Herpetol. Soc.* **11**, 32-33 (1986).
 10. Black, J.H., Latham, E., Pigg, J., and Lardie, R., Distribution Records and Notes on *Trionyx* in Oklahoma. *Bull. Oklahoma Herpetol. Soc.* **11**, 42-44 (1986).
 11. Gates, C.E., Pigg, J., and Black, J.H., Verification of the Yellow Mud Turtle in Pottawatomie and Grant Counties, Oklahoma. *Bull. Oklahoma Herpetol. Soc.* **11**, 19(1986).
 12. Barnes, S.B., Black, J.H., and Pigg, J., New Distribution Records of the Genus *Sternotherus* in Oklahoma. *Bull. Chicago Herpetol. Soc.* **21**, 98-99 (1986).
 13. Black, J.H., Pigg, J., and Lardie, R.L., Distribution Records of *Graptemys* in Oklahoma. *Bull. Maryland Herpetol. Soc.* **23**, 65-68 (1987).
 14. Bethune, K.A., Pigg, J., Black, J.H., and Carter, W.A., County Records and Notes on *Apalone* in Oklahoma. *Bull. Oklahoma Herpetol. Soc.* **14**, 5-7 (1990).
 15. Sievert, G. and Sievert, L., *A Field Guide to Reptiles of Oklahoma*. Oklahoma Dept. Wildlife Conserv., Oklahoma City, OK (1988).
 16. Collins, J.T., *Standard Common and Current Scientific Names for North American Reptiles and Amphibians*, 3rd ed., Society for the Study of Reptiles and Amphibians (1990).
 17. Carter, W.A., Distribution Records for Oklahoma Reptiles. *Proc. Okla. Acad. Sci.* **46**, 33-36 (1966).
 18. Carter, W.A., Amphibians and Reptiles Known from Pontotoc County, Oklahoma. *Proc. Okla. Acad. Sci.* **47**, 66-71 (1968).
 19. Smith, H.M. and Leonard, A.B., Distributional Records of Reptiles and Amphibians in Oklahoma. *Am. Midl. Nat.* **15**, 190-196 (1934).
 20. Burt, C.E., and Burt, M.D., Field Notes and Locality Records on a Collection of Amphibians and Reptiles Chiefly from the Western Half of the United States. II. Reptiles. *J. Washington Acad. Sci.* **19**, 448-460 (1929).
 21. Force, E.R. Notes on Reptiles and Amphibians of Okmulgee County, Oklahoma. *Copeia* **1925**, 25-27 (1925).
 22. Carpenter, C.C., Records of Distribution for Amphibians and Reptiles of Oklahoma. *Proc. Okla. Acad. Sci.* **35**, 39-41 (1955).
 23. Harwood, P.D., Some Parasites of Oklahoma Turtles. *J. Parasitol.* **18**, 98-101 (1931).
 24. Laughlin, H.E., Stomach Contents of Some Aquatic Snakes from Lake McAlester, Pittsburgh [sic] County, Oklahoma. *Texas J. Sci.* **11**, 83-85 (1959).
 25. Carpenter, C.C., Additional Distribution Records for Oklahoma Reptiles. *Proc. Okla. Acad. Sci.* **38**, 71-74 (1958).