ARTICLES

Nebraska Specimens Of Amphibians and Reptiles in the University of Nebraska at Kearney (Kearney State College) Natural History Collection

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Abstract: Herein we present the holdings of amphibians and reptiles collected in Nebraska housed in the natural history collection at the University of Nebraska at Kearney, formerly known as Kearney State College. We provide specific localities of occurrence for each specimen along with the number of individuals collected from each site. We found records for 358 specimens collected from the state and examined 317 individuals. Although two publications were published in 2010 regarding the occurrences of herpetofauna in Nebraska, we present new county records that add to the known distributions of herpetofauna in the state. Awareness and access to records of localities for these specimens will further aid in the understanding of distributions for amphibians and reptiles in Nebraska.

INTRODUCTION

Hudson (1942) published the first comprehensive account regarding the distributions of amphibians and reptiles in Nebraska, including range maps and specific localities of occurrence for 56 species. Over 40 years later, Lynch (1985) updated distributional range maps for 13 species of amphibians and 47 species of reptiles. In 2010, Ballinger et al. (2010) and Fogell (2010) updated range maps for 13 species of amphibians and 48 species of reptiles with known occurrences in Nebraska.

Range maps in Lynch (1985), Ballinger et al. (2010), and Fogell (2010) are based on voucher specimens or voucher photographs in museum collections, but none of these publications present specific locality data for locality dots on distribution maps (Lynch 1985, Ballinger et al. 2010) or shaded counties with known occurrences (Fogell 2010). Details for most voucher specimens referenced in those publications likely can be accessed via websites such as HerpNet (http://www.herpnet.org/); however, one important repository for specimens in Nebraska is not accessible via the web—the collection of amphibians and reptiles housed at the University of Nebraska at Kearney (UNK; formerly known as Kearney State College), Kearney, Nebraska. This collection contains more than 400 specimens of herpetofauna from 11 different states, with the majority of specimens from Nebraska. Herein, we report details on the inventory for those specimens collected in Nebraska. We provide the county and specific localities of occurrence for each Nebraska specimen, along with the number of individuals collected from each site. Our research will further aid in the understanding of distributions for herpetofauna in the state and allow researchers to readily observe the specific holdings in the collection.

METHODS AND MATERIALS

In spring 2010, we sorted all the Nebraska specimens in the UNK natural history collection from those collected in other states. Next, we both independently identified and verified each specimen from Nebraska to species with taxonomic keys (i.e., Smith 1978, Smith and Brodie 1982, Fogell 2010). Furthermore, we verified entries in the UNK catalog with those on specimen tags or tags contained in bottles. For some catalog entries, we determined that more than one individual corresponded with a catalog number; we verified this by examining original field notes of the collector for that spec-
pecific locality and date.

The order and names (common and scientific) of species presented below follow Fogell (2010). In records of occurrence for each species, county names are capitalized and presented in alphabetical order. For specimens that we examined and verified, details are listed under "Specimens examined". For specimens listed in the UNK catalog that we were unable to locate or examine, details are listed under "Specimens not examined". Some of the missing specimens probably represent those that lacked specimen tags, which likely were inadvertently removed with use in past herpetology classes. Other missing specimens likely have been lost, destroyed, or discarded over the years. Numbers in parentheses that follow each locality represent the number of individuals in the collection. For specimens of larvae or eggs, we verified that specimens existed but assumed identification to be accurate. A single collection of numerous eggs or small larvae were counted as a single record. In a few instances, we added further details to localities via brackets. Furthermore, we geo-referenced all unambiguous localities and recorded them in decimal degrees using a download of Google Earth (www.google.com/earth/index.html).

RESULTS

We found records for 358 total specimens of reptiles and amphibians collected from Nebraska, including 317 individuals that we personally examined and verified. The last specimen entered in the collection was collected on 20 March 1995 but was entered 1 February 1996. We discovered 6 county records not reported by Fogell (2010), which include the following: Anaxyrus cognatus (Dawson County), Ambystoma mavortium (Sherman and Thomas), Apalone spinifera (Dawson), and Crotalus viridis (Hooker and Thomas). We also discovered a number of records not reported in Ballinger et al. (2010), including A. cognatus (Dawson County), Pseudacris maculata (Webster), Lithobates blairi (Dawson), Lithobates catesbeianus (Dawson and Dixon), Spea bombifrons (Buffalo and Kearney), A. mavortium (Thomas), Chrysemys picta (Dawson), Terrapene ornata (Antelope), A. spinifera (Dawson), Holbrookia maculata (Red Willow), Sceloporus consobrinus (Red Willow), Coluber constrictor (Kearney), Pantherophis emoryi (Franklin), Pituophis catenifer (Webster), Diadophis punctatus (Buffalo, Dawson, and Sherman), Heterodon platirhinos (Custer), Tropidoclonion lineatum (Sherman), and C. viridis (Custer, Furnas, and Hooker). In Ballinger et al. (2010), some locality dots were located on county lines making it difficult to interpret which county specimens were obtained from in their publication. Our list of county records above represents those that represent obvious new county records.

One specimen, which was purposely not reported in Fogell (2010, D. Fogell in litt.), included a Ringneck Snake (D. punctatus) from Sioux County. This record represents a 350 km range extension from the closest records in Keya Paha County (Lynch 1985). Because this potentially represents a significant westward expansion in distribution in the United States, we attempted to verify the validity of the specimen. We contacted the collector (C. True) and learned that there are no field notes associated with the specimen. The collector also could not specifically remember collecting the snake. Although we could not find such supporting evidence, we have no specific reason why this record is not valid.

In the UNK catalog, a Smooth Green Snake (Lioclorophis vernalis) was reported from Buffalo County but the catalog states that the individual was captured and released. We include the locality below, but we do not include this in our specimen count or as a county record due to the lack of a verifiable voucher specimen or photograph.

RECORDS OF OCCURRENCE

Great Plains Toad (Anaxyrus cognatus)

Woodhouse's Toad (Anaxyrus woodhousii)
Specimens examined (total 34). BUFFALO: 3 mi N, 2 mi W Kearney; 40.74209°N, 99.12202°W (1), 2 mi S, 6 mi E Ravenna; 40.998267°N, 98.798159°W (1 larva), Kearney, South Railroad and D Avenue;
40.69451°N, 99.07629°W (4), 5.6 mi S, 4.6 mi W Gibbon; 40.66508°N, 98.93391°W (3 and 1 group of eggs). CUSTER: 2.5 mi SE Callaway; 41.25959°N, 99.90034°W (1). DAWSON: 1 mi N, 1.25 mi E Gothenburg; 40.94491°N, 100.13650°W (1), 1 mi N Gothenburg; 40.94439°N, 100.16047°W (1), Darr; 40.82083°N, 99.88333°W (1). FURNAS: 0.5 mi E Arapahoe; 40.30389°N, 99.89014°W (1), 1 mi S, 0.5 mi E Arapahoe; 40.20887°N, 99.88821°W (2), 1 mi S, 1.5 mi E Arapahoe; 40.26924°N, 99.86971°W (1). KEARNY: 4 mi S, 0.5 mi W Kearney; 40.6409°N, 99.0944°W (2), 2 mi S, 7.5 mi E Kearney, sandpit; 40.68083°N, 98.9440°W (1). RED WILLOW: 1 mi N, 0.5 mi W Indianola; 40.25032°N, 100.42886°W (2), 3.75 mi S, 0.75 mi E Indianola; 40.18116°N, 100.40584°W (1), 0.75 mi S Indianola; 40.22463°N, 100.41744°W (1). WEBSTER: 1 mi N, 0.2-2.25 mi W Guide Rock (2), 1 mi N, 2.25 mi W Guide Rock; 40.08944°N, 98.3729°W (3), 1.25 mi S Red Cloud; 40.07007°N, 98.51881°W (1), 1 mi N, 3.75 mi W Guide Rock; 40.08944°N, 98.40085°W (3).

Specimens not examined (total 1). CHERY: 16 mi S, 2 mi W Nenzel; 42.69597°N, 101.14361°W (1).

Blanchard’s Cricket Frog (Acris blanchardii)
Specimens examined (total 12). BUFFALO: 5.5 mi E Pleasanton; 40.96705°N, 98.98083°W (1). FURNAS: 0.7 mi S Arapahoe, Hwy 283; 40.29332°N, 99.89772°W (7). RED WILLOW: 0.5 mi S, 1.25 mi W Bartley; 40.24571°N, 100.33013°W (1). WEBSTER: 0.5 mi S, 2.5 mi W Guide Rock; 40.0657°N, 98.37732°W (1), 1 mi S Cowles; 40.15719°N, 98.44809°W (2).

Boreal Chorus Frog (Pseudacris maculata)
Specimens examined (total 8). DAWSON: 96 Ranch, T11N, R25W, Sec 35, [3 mi S, 1.6 mi E Gothenburg]; 40.88365°N, 100.12949°W (4), 1105 17th Street, Gothenburg; 40.93496°N, 100.15061°W (2), 2 mi S Gothenburg, 1 mi E Hwy 47; 40.89865°N, 100.14839°W (1). WEBSTER: 5.5 mi S, 0.25 mi W Red Cloud; 40.00827°N, 98.52484°W (1 larva).

Specimens not examined (total 1). PHELPS: 0.5 mi N, 2 mi W Wilcox, Sacramento Game Management Area; 40.37255°N, 99.20829°W (1).

Great Plains Narrowmouth Toad
(Gastrophyne olivacea)
Specimens examined (total 2). GAGE: 1.5 mi E Wymore; 40.12262°N, 96.63374°W (1). WEBSTER: 4 mi S, 1 mi W Red Cloud; 40.03115°N, 98.54170°W (1).

Plains Leopard Frog (Lithobates blairi)
Specimens examined (total 21). BUFFALO: 2 mi S, 6 mi E Ravenna; 40.998267°N, 98.798159°W (1 larva), 5.4 mi S, 4.4 mi W Gibbon, Lillian Annette Rose Sanctuary; 40.66223°N, 98.92859°W (1 group of eggs), 5.6 mi S, 4.6 mi W Gibbon, Lillian Annette Rose Sanctuary; 40.66069°N, 98.93391°W (3). DAWSON: 96 Ranch, T11N, R25W, Sec 35, [3 mi S, 1.6 mi E Gothenburg]; 40.88365°N, 100.12949°W (2). DIXON: 5 mi N Allen; 42.48729°N, 96.84485°W (1). FURNAS: 0.7 mi S Arapahoe; 40.29332°N, 98.89772°W (3). RED WILLOW: 0.25 mi S, 0.25 mi E Indianola; 40.23237°N, 100.41421°W (1), 3.75 mi S, 0.75 mi E Indianola; 40.18116°N, 100.40584°W (1), 1 mi S, 1.5 mi E Indianola; 40.22306°N, 100.38987°W (1), 4 mi N, 0.75 mi E Indianola; 40.29256°N, 100.40411°W (1). WEBSTER: 1 mi N, 0-2.25 mi W Guide Rock (1), 8 mi N, 1 mi W Red Cloud; 40.20501°N, 98.53849°W (1), 2.375 mi S, 2.625 mi W Guide Rock; 40.03852°N, 98.37978°W (1), 1 mi N, 7.9 mi W Guide Rock; 40.08874°N, 98.48013°W (1), 0.8 mi S Guide Rock; 40.06019°N, 98.33018°W (1), 5.5 mi S, 0.25 mi W Red Cloud; 40.00827°N, 98.52484°W (1 larva).

Specimens not examined (total 2). BUFFALO: 1 mi S Ravenna; 41.01199°N, 98.91297°W (1). WEBSTER: 0.375 mi S, 2.625 mi W Guide Rock; 40.06734°N, 98.3800°W (1).

Bullfrog (Lithobates catesbeianus)
Specimens examined (total 10). BUFFALO: 1.5 mi S Kearney; 40.67801°N, 99.08453°W (1), 2.4 mi S, 4.7 mi E Kearney; 40.66468°N, 98.99762°W (1 group of eggs), 1 mi S, 4.25 mi W Kearney; 40.68534°N, 99.16694°W (2 larvae). DAWSON: 0.5 mi S, Gothenburg on Hwy 47; 40.91916°N, 100.1667°W (1), 1.5 mi S Gothenburg; 40.90455°N, 100.16756°W (1). DIXON: 5 mi N Allen; 42.48729°N, 96.84485°W (1), WEBSTER: 1.5 mi S, 2 mi W Guide Rock; 40.05093°N, 98.29247°W (2),
1 mi S Cowles; 40.15719°N, 98.44809°W (1).
Specimens not examined (total 1). SIOUX: 5.5 mi N, 2 mi W Harrison, Gilbert-Baker Wildlife Area; 42.76638°N, 103.92397°W (1).

Northern Leopard Frog (Lithobates pipiens)
Specimens examined (total 25). BUFFALO: 1 mi S Ravena; 41.01277°N, 98.91331°W (1). CHERRY: 17 mi S, 5 mi W Nenzel; 42.68069°N, 101.20175°W (2), 8 mi S Nenzel, Niobrara River; 42.80364°N, 101.10396°W (1), 17 mi S, 8.5 mi W Nenzel; 42.67815°N, 101.26869°W (8), 15 mi S Nenzel, 3 mi W of Ranger Station; 42.70923°N, 101.10280°W (2). SIOUX: 2 mi N, 5 mi W Fort Robinson State Park; 42.69781°N, 103.57153°W (1), 16 mi N, 8.5 mi E Harrison; 42.91865°N, 103.71473°W (5), 11 mi N, 10.5 mi E Gilbert-Baker Campground; 42.9255°N, 103.72009°W (2), 5.5 mi S, 2.25 mi W Harrison, Gilbert-Baker Wildlife Area, Monroe Creek; 42.76722°N, 103.92894°W (3).

Plains Spadefoot (Spea bombifrons)
Specimens examined (13). CHERRY: 16 mi S, 2 mi W Nenzel; 42.69597°N, 101.14361°W (1). DAWSON: 1 mi N, 1 mi E Gothenburg; 40.94484°N, 100.14160°W (1), 1.5 mi N, 1 mi E Gothenburg; 40.94887°N, 100.14125°W (2). RED WILLOW: 3.75 mi S, 0.75 mi E Indianola; 40.18116°N, 100.40584°W (3), 4 mi N, 0.75 mi E Indianola; 40.29377°N, 100.40462°W (1), 4 mi N, 3.75 mi E Indianola; 40.29524°N, 100.34699°W (1). THOMAS: Nebraska National Forest, 5 mi S of Fire Tower, Windmill #59 [ambiguous locality; windmill #59 is ~2 mi S of Fire Tower] (1). WEBSTER: 1 mi N, 6.4 mi W Guide Rock; 40.08906°N, 98.45114°W (1), 1 mi N, 2 mi W Guide Rock; 40.08905°N, 98.36844°W (2 larvae).
Specimens examined (total 8). BANNER: 10 mi S, 2.5 mi E Gering; 41.67908°N, 103.61991°W (2, one is neotenic). LINCOLN: 5 mi SW Brady; 40.95201°N, 100.39809°W (1). SHERMAN: Litchfield; 41.15694°N, 99.15361°W (2). THOMAS: [Nebraska National Forest], 4 mi S[E] of Fire Tower, Windmill #128, [4.8 mi S, 1.7 mi W Halsey]; 41.83427°N, 100.30198°W (1 neotenic). WEBSTER: 5.5 mi S, 0.25 mi W Red Cloud; 40.00827°N, 98.52484°W (2).
Specimens not examined (total 2). WEBSTER: 5.5 mi S, 0.25 mi W Red Cloud; 40.00827°N, 98.52484°W (2 larvae).

Smallmouth Salamander (Ambystoma texanum)
Specimens examined (total 1). RICHARDSON: 2 mi S, 2 mi E Falls City; 40.03169°N, 95.56307°W (1).

Common Snapping Turtle (Chelydra serpentina)
Specimens examined (total 4). BUFFALO: 1 mi S, 1 mi W Kearney, Kearney Canal; 40.68512°N, 99.10503°W (1 group of eggs). CHERRY: 17 mi S, 8.5 mi W Nenzel; 42.67815°N, 101.26869°W (1). DAWSON: 2 mi S, 1 mi E Gothenburg; 40.89865°N, 100.14839°W (1). WEBSTER: 4.5 mi S Red Cloud; 40.02272°N, 98.51871°W (1).

Northern Painted Turtle (Chrysemys picta)
Specimens examined (total 6). BUFFALO: 0.25 mi N Pleasanton; 40.97472°N, 99.08651°W (1), 2 mi S, 6 mi E Ravena; 40.998267°N, 98.798159°W (1), 6 mi E Kearney; 40.69936°N, 98.96939°W (1). DAWSON: 2 mi S, 1 mi E Gothenburg; 40.89865°N, 100.14839°W (1), 4 mi S, 1.5 mi E Gothenburg; 40.88271°N, 100.13086°W (1). MERRICK: 5 mi W Central City; 41.11383°N, 98.09724°W (1).

Blanding’s Turtle (Emydoidea blandingii)
Specimens examined (total 1). CHERRY: 17.5 mi S, 8.75 mi W Nenzel, Schoolhouse Lake; 42.68547°N, 101.26505°W (1).

Ornate Box Turtle (Terrapene ornata)
Specimens examined (total 9). ANTELOPE: 3 mi S Clearwater; 42.126364°N,
98.18849°W (1), 3.5 mi S, 3.5 mi E Clearwater; 42.11844°N, 98.12089°W (1). BUFFALO: 1.5 mi S, 1.3 mi W Pleasanton; 40.94549°N, 99.11242°W (1). CUSTER: North of Arnold (1). DAWSON: 1 mi N Gothenburg; 40.94439°N, 100.16047°W (1). KEARNEY: 10 mi N, 1 mi E Axtell; 40.62575°N, 99.10761°W (1). RED WILLOW: 6.25 mi W Indianola; 40.23476°N, 100.53735°W (2). WEBSTER: 5.5 mi S, 0.25 mi W Red Cloud; 40.00827°N, 98.52484°W (1). Specimens not examined (total 1). CHERRY: 12.5 mi S, 8.75 mi W Nenzel; 42.7481°N, 101.27491°W (1).

Yellow Mud Turtle (Kinosternon flavescens)
Specimens examined (total 2). CHERRY: 7 mi S of 20-83 junction; 42.71526°N, 100.5363°W (1). KEARNEY: 3.5 mi S, 0.5 mi E Norman; 40.42902°N, 98.78199°W (1).

Spiny Softshell (Apalone spinifera)
Specimens examined (total 4). BUFFALO: Kearney, Kearney Canal west of campus; 40.70237°N, 99.10831°W (1). DAWSON: 2 mi S, 1 mi E Gothenburg; 40.89685°N, 100.14839°W (1), 0.5 mi S Interstate 80, Gothenburg Sand Pits; 40.89827°N, 100.14077°W (1). KEARNEY: 3 mi S, 1.5 mi W Kearney; 40.65467°N, 99.11439°W (1).

Lesser Earless Lizard (Holbrookia maculata)

Mountain Short-horned Lizard
(Phrynosoma hernandesi)
Specimens not examined (total 1). CHEY-ENNE: 12 mi S Potter; 41.04732°N, 103.31665°W (1).

Prairie Lizard (Sceloporus consobrinus)
Specimens examined (total 9). CHERRY: 16.5 mi S, 2.5 mi W Nenzel; 42.68756°N, 101.15228°W (2). RED WILLOW: 0.5 mi S, 1.25 mi W Bartley; 40.24571°N, 100.33013°W (2). THOMAS: Nebraska National Forest, Halsey Division, Cedar Campground, [0.3 mi S, 1.4 mi W Halsey]; 41.8989°N, 100.29711°W (1). [Nebraska National Forest], 5 mi S of Fire Tower, between windmills #161-159; 41.81481°N, 100.3391°W (1). [Nebraska National Forest, 5.9 mi S, 2.3 mi W Halsey], 1 mi E windmill #161; 41.81745°N, 100.31407°W (1). [Nebraska National Forest], 5 mi S of Fire Tower, 0.5 mi W windmill #161; 41.81741°N, 100.33917°W (1), 14 km S, 6 km W Halsey, Dismal River; 41.77759°N, 100.34302°W (1).

Many-lined Skink (Plestiodon multivirgatus)
Specimens examined (total 2). CHERRY: 13.5 mi S, 1 mi W Nenzel; 42.73180°N, 101.12154°W (1). LOGAN: Stapleton Area; 41.48024°N, 100.51286°W (1).

Northern Prairie Skink
(Plestiodon septentrionalis)
Specimens examined (total 6). BUFFALO: 3 mi S Gibbon; 40.70430°N, 98.845571°W (1), 5.4 mi S, 4.4 mi W Gibbon, Lillian Annette Rowe Sanctuary; 40.66223°N, 98.92859°W (2), 5.6 mi S, 4.6 mi W Gibbon, Lillian Annette Rowe Sanctuary; 40.66069°N, 98.93391°W (3).

Six-lined Racerunner (Aspidoscelis sexlineata)
Specimens examined (total 25). BROWN: 0.5 mi N, 0.5 mi W Long Pine; 42.54361°N, 99.71257°W (1). BUFFALO: 3 mi S Elm Creek; 40.67497°N, 99.37584°W (1), 1 mi S, 7 mi E Kearney; 40.68538°N, 98.9502°W (2), 5 mi S, 0.5 mi W Gibbon; 40.67534°N, 98.85373°W (3). FURNAS: 1.5 mi S, 0.125 mi E Arapahoe; 40.28154°N, 99.89619°W (5). RED WILLOW: 1 mi S, 1.5 mi E Indianola; 40.22305°N, 100.38897°W (1), 0.5 mi S, 1.25 mi W Bartley; 40.24571°N, 100.33013°W (1). THOMAS: [Nebraska National Forest], 5 mi S of Fire Tower, between windmills #161-159; 41.81481°N, 100.3391°W (1), [Nebraska National For-
est], 0.5 mi N windmill 128, 3.5 mi S, 2 mi E Fire Tower; 41.83581°N, 100.30013°W (1). WEBSTER: 0.375 mi S, 2.625 mi W Guide Rock; 40.06734°N, 98.3800°W (4), 1 mi S Cowles; 40.15719°N, 98.44809°W (5).

Eastern Racer (Coluber constrictor)
Specimens examined (total 7). CUSTER: 3 mi N, 3 mi E Oconto; 41.18475°N, 99.70445°W (1), 2.5 mi SE Callaway; 41.25959°N, 99.90034°W (1). KEARNEY: 6.75 mi N, 3.5 mi E Minden; 40.59334°N, 98.8859°W (1). RED WILLOW: 1 mi S, 1.5 mi E Indianola; 42.22306°N, 100.38897°W (1). SIOUX: 5 mi N, 3.5 mi W Harrison; 42.76065°N, 103.95219°W (1), 5.5 mi N, 2 mi W Harrison, Gilbert-Baker Wildlife Area; 42.76638°N, 103.92397°W (1). WEBSTER: 4.5 mi S Red Cloud; 40.02272°N, 98.51871°W (1).
Specimens not examined (total 1). RED WILLOW: 5.25 mi S, 0.75 mi E Indianola; 40.16008°N, 100.40481°W (1).

Milk Snake (Lampropeltis triangulum)
Specimens examined (total 2). RICHARDSON: 9 mi S, 0.75 mi E Humboldt; 40.03482°N, 95.93211°W (1). THOMAS: Nebraska National Forest, 1 mi W Halsey; 41.90426°N, 100.28835°W (1).
Specimens not examined (total 1). CUSTER: Mason City; 41.2225°N, 99.29833°W (1).

Smooth Green Snake (Liochlorophis vernalis)
Specimens not examined (total 0). BUFFALO: 5 mi S, 4 mi W Gibbon, Lillian Rowe Sanctuary; 40.67477°N, 98.92168°W (No specimen taken, capture and Released individual, verified by C. True, still an entry in catalog).

Great Plains Rat Snake (Pantherophis emoryi)
Specimens examined (total 1). FRANKLIN: 1.75 mi S, 1.25 mi W Franklin; 40.07051°N, 98.97660°W (1).

Bullsnake (Pituophis catenifer)
Specimens examined (total 14). ANTELOPE: 0.5 mi N, 2.25 mi W Neligh; 42.13603°N, 98.07404°W (1). BUFFALO: 2 mi N, 6 mi E Kearney; 40.72885°N, 98.96935°W (1), 0.25 mi N Pleasanton; 40.97472°N, 99.08651°W (1), 1 mi S, 2 mi W Kearney; 40.68593°N, 99.12359°W (1), 1.5 mi S, 3.5 mi W Pleasanton; 40.94547°N, 99.15448°W (1). DAWSON: 3 mi S Gothenburg; 40.88368°N, 100.16753°W (1). FRANKLIN: 0.125 mi W Riverton; 40.08944°N, 98.76136°W (1). FURNAS: 1 mi S, 0.5 mi E Arapahoe; 40.28878°N, 99.88821°W (1), 1.5 mi S, 0.75 mi E Arapahoe; 40.28154°N, 99.88619°W (1). KEARNEY: 7.5 mi N, 0.5 mi W Axtell; 40.58821°N, 99.13591°W (1), 10.5 mi N, 2.5 mi W Minden; 40.64774°N, 98.99902°W (1). WEBSTER: 1.75 mi S, 1 mi E Red Cloud; 40.06290°N, 98.50198°W (1), 2 mi S, 0.5 mi E Red Cloud; 40.05998°N, 98.50788°W (1), 0.5 mi S, 2.5 mi W Guide Rock; 40.0657°N, 98.37732°W (1).

Western Rat Snake (Scotophis obsoletus)
Specimens examined (total 1). RICHARDSON: 9 mi S, 0.75 mi E Humboldt; 40.03482°N, 95.93211°W (1).
Specimens not examined (total 1). GAGE: 0.5 mi N, 2 mi E Barneston; 40.05607°N, 96.53780°W (1).

Plains Blackhead Snake (Tantilla nigriceps)
Specimens examined (total 1). FURNAS: 1 mi W Arapahoe; 40.30629°N, 99.91713°W (1).

Western Worm Snake (Carphophis vermis)
Specimens examined (total 1). RICHARDSON: 12.5 mi N, 3 mi E Falls City, Indian Cave State Park; 40.24052°N, 95.54314°W (1).

Ringneck Snake (Diadophis punctatus)
Specimens examined (total 5). BUFFALO: 1 mi N, 2 mi E Odessa; 40.71616°N, 99.21811°W (1). DAWSON: 6 mi S Gothenburg; 40.84023°N, 100.16361°W (1). SHERMAN: 0.5 mi N, 1.5 mi W Litchfield; 41.16263°N, 99.18212°W (1). SIOUX: 3.5 mi N, 2.5 mi W Harrison; 42.73766°N, 103.93229°W (1). WEBSTER: no specific locality (1).

Western Hognose Snake (Heterodon nasicus)
Specimens examined (total 4). CHERRY: 16.25 mi S, 2 mi W Nenzen; 42.691°N, 101.13891°W (1). KEARNY: 2 mi S, 4 mi E Kearney, Fort Kearney Area; 40.67059°N, 99.14087°W (1), 7.75 mi N Minden; 40.60806°N, 98.95134°W (1). THOMAS: [Nebraska National Forest], 7 mi S Ranger Station; 41.79962°N, 100.31602°W (1).
Eastern Hognose Snake (*Heterodon platirhinos*)
Specimens examined (total 1). CUSTER: 10 mi N Cozad; 41.00761°N, 99.98520°W (1).

Northern Water Snake (* Nerodia sipedon*)
Specimens examined (total 4). BUFFALO: Kearney; 40.6999°N, 99.08325°W (1). DAWSON: 3 mi S Gothenburg, 1 mi E Headquarters; 40.88747°N, 100.14197°W (1), 1 mi W of Highway 47, Platte River, Gothenburg; 40.91499°N, 100.18529°W (1). THOMAS: 12.2 mi S, 3.7 mi W Thedford, Dismal River, Jameson Landing; 41.80106°N, 100.64643°W (1).
Specimens not examined (total 2). RICHARDSON: 9 mi S, 0.75 mi E Humboldt; 40.03482°N, 95.93211°W (1). WEBSTER: 0.25 mi S, 2 mi W Guide Rock; 40.07122°N, 98.36824°W (1).

Redbelly Snake (* Storeria occipitomaculata*)
Specimens examined (total 3). BUFFALO: 1 mi S Odessa; 40.68704°N, 99.25587°W (1). DAWSON: 2 mi S, 2 mi E Gothenburg; 40.88365°N, 100.12949°W (2).

Terrestrial Garter Snake (*Thamnophis elegans*)
Specimens examined (total 3). SIOUX: 5 mi N, 2.5 mi W Harrison, Gilbert-Baker Wildlife Area; 42.76067°N, 103.93130°W (1), 2 mi N, 5 mi W Fort Robinson State Park; 42.69781°N, 103.57153°W (2).
Specimens not examined (total 3). SIOUX: 5 mi N, 2.5 mi W Harrison, Gilbert-Baker Wildlife Area; 42.76067°N, 103.93130°W (1), 5.5 mi N, 2.5 mi W Harrison, Gilbert-Baker Wildlife Area, Monroe Creek; 42.76651°N, 103.93123°W (1), 1.5 mi W on south fork of Soldiers Creek; 42.68835°N, 103.59545°W (1).

Plains Garter Snake (*Thamnophis radix*)
Specimens examined (total 14). BUFFALO: 3 mi S, 1.5 mi W Kearney; 40.6568°N, 99.11327°W (1). CHERRY: 17 mi S, 7.5 mi W Nenzel; 42.68007°N, 101.24928°W (1), 15 mi S, 9 mi W Nenzel; 42.70916°N, 101.27847°W (7). DAWSON: 1105 17th Street, Gothenburg; 40.93496°N, 100.15061°W (1). KARNEEN: 2.75 mi S, 2 mi W Kearney; 40.66115°N, 99.12365°W (1). RED WILLOW: 4 mi N, 0.75 mi E Indianola; 40.29256°N, 100.40411°W (2). SHERMAN: Loup City; 41.27559°N, 98.96675°W (1). Specimens not examined (total 1). CHERY: 17 mi S, 8.5 mi W Nenzel; 42.67815°N, 101.26869°W (1).

Common Garter Snake (*Thamnophis sirtalis*)
Specimens examined (total 14). BUFFALO: 0.75 mi S, 9.25 mi E Kearney; 40.6885°N, 98.9069°W (2), 0.5 mi S, 10 mi E Kearney; 40.69347°N, 98.8943°W (2), 0.5 mi S, 11.125 mi E Kearney; 40.6927°N, 98.87123°W (1), 2 mi W Kearney; 40.69931°N, 99.12171°W (1), 2.75 mi S Elm Creek; 40.6786°N, 99.38043°W (1), 2 mi S Elm Creek; 40.6886°N, 99.37985°W (1), 5.5 mi S, 0.75 mi W Gibbon; 40.66939°N, 98.85963°W (1). DAWSON: 96 Ranch, T11N, R25W, Sec 35, [3 mi S, 1.6 mi E Gothenburg]; 40.88365°N, 100.12949°W (1). HARRISON: 2.75 mi S, 1 mi E Orleans; 40.09124°N, 99.43542°W (1). KARNEY: 3 mi S, 6 mi E Kearney; 40.65524°N, 98.97065°W (1). RED WILLOW: 1 mi W, 0.5 mi W Bartley [ambiguous locality in UNK catalog] (1). WEBSTER: 0.375 mi S, 2.625 mi W Guide Rock; 40.06734°N, 98.3800°W (1).
Specimens not examined (total 8). CHERY: 15 mi S, 9 mi W Nenzel; 42.70916°N, 101.27847°W (3), 18.5 mi S, 8.75 mi W Nenzel; 42.65896°N, 101.26925°W (1); 17 mi S, 8.5 mi W Nenzel; 42.67815°W, 101.26869°W (1). KARNEY: 3 mi S, 1.5 mi W Kearney; 40.65467°N, 99.11439°W (1). SIOUX: South fork of Soldier Creek [ambiguous local in UNK catalog] (1). WEBSTER: 0.375 mi S, 2.625 mi W Guide Rock; 40.06734°N, 98.3800°W (1).

Lined Snake (*Tropidoclonion lineatum*)
Specimens examined (total 3). DA WSON: 1.5 mi N of Highway 30, Willow Island; 40.91001°N, 100.07211°W (1), 1 mi E Gothenburg; 40.9306°N, 100.14164°W (1). SHERMAN: Litchfield; 41.15694°N, 99.15361°W (1).

Timber Rattlesnake (*Crotalus horridus*)
Specimens examined (total 1). GAGE: 1 mi S Barneston; 40.03394°N, 96.57458°W (1).

Prairie Rattlesnake (*Crotalus viridis*)
Specimens examined (total 15). BUFFALO:

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2 mi N, 2.875 mi W Kearney; 40.72844°N, 99.13886°W (2), 3.5 mi N Odessa; 40.75281°N, 99.25542°W (1). CUSTER: 1 mi S, 2 mi E Callaway; 41.27753°N, 99.88411°W (1), 9 mi N Custer County line on Hwy N of Cozad; 41.16924°N, 99.9414°W (1), 5 mi N Arnold; 41.49431°N, 100.19513°W (1). FURNAS: 0.5 mi N, 3 mi E Cambridge; 40.28905°N, 100.10945°W (1). RED WILLOW: 0.25 mi N, 6.25 mi W Indianola; 40.23943°N, 100.53764°W (1), 6 mi W Indianola; 40.23637°N, 100.53222°W (1). THOMAS: 14 km S, 6 km Halsey; 41.77759°N, 100.34302°W (2), Seneca; 42.04272°N, 100.83166°W (1). SIOUX: 14 mi N, 0.75 mi W Harrison; 42.8879°N, 103.89801°W (1), 1.25 mi S, 7 mi W Harrison; 42.67042°N, 104.01922°W (1), 9 mi N, 2 mi W Harrison; 42.8215°N, 103.92539°W (1).

Specimens not examined (total 3). HOOKER: 1 mi W Seneca; 42.04243°N, 100.85104°W (1). SIOUX: 14 mi N, 0.75 mi W Harrison; 42.8879°N, 103.89801°W (1), 9.5 mi N, 1.5 mi W Harrison; 42.82653°N, 103.91064°W (1).

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LITERATURE CITED


