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New Records of Amphibians and Reptiles from South-central South Dakota, USA

The collection of voucher specimens has helped to better document and update the distributions of South Dakota's amphibians and reptiles (e.g., Davis 2018, 2021; Davis and Farkas 2018). Though large strides have been made to better record these distributions since 2012, areas remain where our understanding of species' distributions is limited. Here, we report seven new county records of five species of amphibians and reptiles from south-central South Dakota, USA that are the result of fieldwork conducted in June and September 2021. Much of this region is broadly characterized as the Northwestern Glaciated Plains and the Northwestern Great Plains, and

specimens were collected primarily in the Ponca Plains, Southern River Breaks, and River Breaks ecoregions (Bryce et al. 1998). County records were determined by examining Ballinger et al. (2000), Platt et al. (2005), Davis et al. (2016, 2017a, b), Austin et al. (2017), Davis and Farkas (2018), Davis (2018, 2021), individual accounts published in *Herpetological Review*, and a thorough review of museum holdings. All specimens were deposited at the Biodiversity Collections, The University of Texas at Austin (TNHC), and all identifications were verified by Travis J. LaDuc. Locality information was collected with a handheld GPS (WGS 84), and nomenclature used follows that of Crother (2017). Specimens were collected under a South Dakota Game, Fish and Parks Scientific Collecting Permit (2021_#16) issued to DRD and followed an approved IACUC protocol issued by The University of Texas Rio Grande Valley (AUP #18-28). Genetic tissue samples (liver or skeletal muscle) were collected from all individuals and deposited alongside the specimen at TNHC. Several of the nearest known specimen occurrences to the records included in this note are represented by voucher specimens that were also collected during 2021 and deposited at TNHC. Additional nearest known populations are represented by voucher specimens from the former University of South Dakota Herpetological Collection that is now housed at the University of Nebraska State Museum (UNSM).

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ANURA — FROGS

***HYLA CHRYSOSCELIS* (Cope's Gray Treefrog).** CHARLES MIX Co.: White Swan Game Production Area, settling ponds (43.07334°N, 98.52871°W). 15 June 2021. Clinton J. Guadiana and Drew R. Davis. TNHC 116553, 116554 (DRD 7682, 7683). Amplectant pair (TNHC 116553: male, 7.9 g, 45 mm SVL; TNHC 116554: female, 8.5 g, 47 mm SVL) collected along the water's edge at 0045 h. Numerous additional individuals were observed and heard calling at this locality and nearby, but not collected. *Hyla chrysozelis* is known from adjacent Bon Homme County, South Dakota (Ballinger et al. 2000) and Knox County, Nebraska (Fogell 2010). Fisher et al. (1999) included Charles Mix County in the "probable range" of *H. chrysozelis*, and O'Roke (1924) described collecting and vouchering *H. versicolor* (now believed to be *H. chrysozelis*) from "between Springfield and Running Water" in Bon Homme County, but erroneously illustrated this collecting locality in Charles Mix County. The nearest known specimen record is ca. 56.6 km to the southeast in Bon Homme County (UNSM ZM-22485, 22492, 22495).

TESTUDINES — TURTLES

***CHELYDRA SERPENTINA* (Snapping Turtle).** STANLEY Co.: SD Hwy 34, ca. 0.9 rd km W jct 262nd Ave (44.37167°N, 100.88408°W). 18 June 2021. Drew R. Davis and Clinton J. Guadiana. TNHC 116539 (DRD 7718). Large adult collected DOR at 1752 h. *Chelydra serpentina* is only known from adjacent Haakon County (Davis et al. 2017b). This species has been previously reported from Stanley County (Bandas 2003; Bandas and Higgins 2004), however, no verifiable records or vouchered specimens are known to exist. Additional observations reported on iNaturalist (www.inaturalist.org; iNat 51243031, 94008981) suggest that this species likely occurs in aquatic habitats throughout the county as part of a statewide distribution suggested by Kiesow and Davis (2020). The nearest known specimen record is ca. 40.4 km to the southwest in Haakon County (UNSM ZM-18273).

TRIPP Co.: US Hwy 18, ca. 0.4 rd km E jct 331st Ave (43.23401°N, 99.54826°W). 2 September 2021. Drew R. Davis. TNHC 116540 (DRD 8504). Juvenile (6.4 g, 30 mm SCL, 20 mm SPL) collected DOR at 2240 h. *Chelydra serpentina* is known from adjacent Gregory County, South Dakota (Ballinger et al. 2000) and Keya Paha County, Nebraska (Ballinger et al. 2010; Fogell 2010). This species has been previously reported from Tripp County (Bandas 2003; Bandas and Higgins 2004; Backlund 2005), however, no verifiable records or vouchered specimens are known to exist. Two additional observations reported on HerpMapper (www.herpMapper.org; HM 283833, 342819) suggest that this species likely occurs throughout the county as part of a statewide distribution suggested by Kiesow and Davis (2020). The nearest known specimen record is ca. 11.4 km to the east in Gregory County (TNHC 116429).

SQUAMATA — SNAKES

***DIADOPHIS PUNCTATUS* (Ring-necked Snake).** GREGORY Co.: Randall Creek Recreation Area (43.04968°N, 98.54480°W). 14 June 2021. Drew R. Davis and Clinton J. Guadiana. TNHC 116547 (DRD 7668). Adult male (9.0 g, 293 mm SVL, 75 mm tail length) collected DOR within the campground at 0007 h. Public walk-in area on E side of 362nd Ave, ca. 0.8 rd km W Co Rd 1806 (43.12715°N, 98.93648°W). 14 June 2021. Drew R. Davis

and Clinton J. Guadiana. TNHC 116548 (DRD 7673). Adult male (6.9 g, 246 mm SVL, 59 mm tail length) collected alive under artificial debris at 1031 h. An additional adult female (TNHC 116549 [DRD 7674]: 7.4 g, 246 mm SVL, 59 mm tail length) was collected nearby at 1044 h. Public walk-in area on N side of St. Charles Township Hwy, ca. 0.4 rd km W jct 358th Ave (43.08421°N, 99.02554°W). 2 September 2021. Drew R. Davis. TNHC 116550 (DRD 8499). Adult male (5.1 g, 219 mm SVL, 59 mm tail length) collected alive under artificial debris at 1222 h. One additional observation of *D. punctatus* from Gregory County exists on HerpMapper (www.herpMapper.org; HM 308673) from near Lucas, 26–59 km northwest of these newly reported localities. *Diadophis punctatus* is known from adjacent Bon Homme County, South Dakota (Ballinger et al. 2000) and Boyd and Keya Paha counties, Nebraska (Ballinger et al. 2010; Fogell 2010). The nearest known specimen record is ca. 2.2 km to the northeast in Charles Mix County (TNHC 110241).

***PANTHEROPHIS RAMSPOTTI* (Western Foxsnake).** CHARLES MIX Co.: Randall Creek Recreation Area (45.05904°N, 98.55751°W). 14 June 2021. Drew R. Davis and Clinton J. Guadiana. TNHC 116555 (DRD 7671). Adult male (256.3 g, 875 mm SVL, 190 mm tail length) collected DOR on road to wildlife viewing area at 0828 h. *Pantherophis ramspotti* is known from adjacent Bon Homme and Gregory counties, South Dakota (Ballinger et al. 2000; see below) and Boyd and Knox counties, Nebraska (Ballinger et al. 2010; Fogell 2010). This species has been previously reported from Charles Mix County (Backlund 2005), however, no verifiable records or vouchered specimens are known to exist. The nearest known specimen record is ca. 0.3 km to the southeast in Gregory County (TNHC 116556; see below).

GREGORY Co.: Randall Creek Recreation Area (45.05689°N, 98.55571°W). 14 June 2021. Drew R. Davis and Clinton J. Guadiana. TNHC 116556 (DRD 7672). Adult female (260.3 g, 883 mm SVL, 148 mm tail length) collected DOR on road near fishing pier at 2152 h. Additional observations exist on iNaturalist (www.inaturalist.org; iNat 38402667, 38451882) and HerpMapper (www.herpMapper.org; HM 207492, 207505, 234227) from near this locality, suggesting an established population at this site. *Pantherophis ramspotti* is known from adjacent Charles Mix County, South Dakota (see above) and Boyd County, Nebraska (Ballinger et al. 2010; Fogell 2010). The nearest known specimen record is ca. 0.3 km to the northwest in Charles Mix County (TNHC 116555; see above).

***THAMNOPHIS SIRTALIS* (Common Gartersnake).** TRIPP Co.: 296th St, ca. 0.7 rd km E jct 312th Ave (45.11130°N, 99.92038°W). 16 June 2021. Drew R. Davis and Clinton J. Guadiana. TNHC 116618 (DRD 7699). Subadult female (12.7 g, 315 mm SVL, 90 mm tail length) collected alive at 1200 h. 28780 318th Ave, Colome, SD 57528 (43.23003°N, 99.80969°W). 4 September 2021. Drew R. Davis. TNHC 116617 (DRD 7696). Adult female (29.5 g, 457 mm SVL, 124 mm tail length) collected alive under artificial cover at 1040 h. Two additional juvenile males (TNHC 116619 [DRD 8529]: 4.6 g, 221 mm SVL, 16 mm tail length [incomplete]; TNHC 116620 [DRD 8533]: 3.2 g, 182 mm SVL, 57 mm tail length) were collected nearby. Additional observations exist on iNaturalist (www.inaturalist.org; iNat 60888170, 83675302) from across Tripp County suggesting the species is widespread there. *Thamnophis sirtalis* is known from adjacent Todd and Gregory counties, South Dakota (Ballinger et al. 2000) and Keya Paha County, Nebraska (Ballinger et al. 2010; Fogell 2010). This

species has been previously reported from Tripp County (Backlund 2005), however, no verifiable records or vouchered specimens are known to exist. The nearest known specimen record is ca. 52.2 km to the southeast in Keya Paha County, Nebraska (UNSM ZM-9431).

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