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PUBLICATIONS AND OTHER WORKS BY R. F. DIFFENDAL, JR.

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Articles


1996  Diffendal, R.F., Jr., and F.A. Smith; Geology beneath the primary Management Systems Evaluation Area (MSEA) site, southwest of Shelton, Buffalo County, Nebraska: Conservation and Survey Division, University of Nebraska, Report of Investigations No. 11: 20 p.


1994  Diffendal, R.F., Jr., and M.R. Voorhies; Geologic framework of the Niobrara River drainage basin and adjacent areas in South Dakota generally east of the 100th meridian west longitude and west of the Missouri River: Conservation and Survey Division, University of Nebraska, Report of Investigations No. 9: 13 p.

1994  Geomorphic and structural features of the Alliance 1° × 2° Quadrangle, western Nebraska, discernible from synthetic-aperture radar imagery and digital shaded-relief maps: University of Wyoming Contributions to Geology, v. 30 (2) : p. 137-147.

1993  Diffendal, R.F., Jr., and M.R. Voorhies; Geologic framework of the Niobrara River drainage basin and adjacent areas in South Dakota generally east of the 100th meridian west longitude and west of the Missouri River: Proceedings of the Niobrara Basin Research Symposium: 8 p. + 12 p. addendum.


1984  Evidence for the Quaternary piracy of a segment of Pumpkin Creek, southern Morrill County, Nebraska: Nebraska Academy of Sciences Transactions, v. XII: p. 65-69.


1981  Diffendal, R.F., Jr., and R.R. Burchett; Gravity and ground magnetic investigations in eastern Nebraska: NUREG/CR-2411: p. 21-44.


Chapters in Books


Books


2015  Fossils on the Floor — Mosaics in the Rotunda of the Nebraska State Capitol: Conservation and Survey Division, University of Nebraska, Educational Circular 24: 78 + iv p.

Field Guides

2012  Geologic Observations along the Steamboat Trace Trail, Markers 16-20, in the Vicinity of Peru, Nemaha County, Nebraska (Including on the Indian Cave Sandstone): University of Nebraska–Lincoln DigitalCommons; http://digitalcommons.unl.edu/diffendal/2/


2003  Diffendal, R.F., Jr., and Anne P. Diffendal; Lewis and Clark and the geology of Nebraska and parts of adjacent states: Conservation and Survey Division, University of Nebraska, Educational Circular 18: 32+iv p.


1999  Geology of Rock Creek Station State Historical Park: University of Nebraska-Lincoln, Conservation and Survey Division Educational Circular 11a: 16 p.


1995  Geology of the Ogallala-High Plains Regional Aquifer System in Nebraska: In Diffendal, R.F., Jr., Chair, and Flowerday, C.F., ed., Geologic field trips in Nebraska and adjacent parts of Kansas and South Dakota, Conservation and Survey Division, University of Nebraska, Guidebook No. 10, p. 61-75.

1993  Diffendal, R.F., Jr., and R.K. Pabian; Geologic field guide to the Cedar Point Biological Station, Keith County, Nebraska: University of Nebraska-Lincoln, Conservation and Survey Division, Private Circulation Guide (Revised): 26 p.


1987  Ash Hollow State Historical Park: Type area for the Ash Hollow Formation (Miocene), western Nebraska: Geological Society of America Centennial Field Guide--North-Central Section Trip 6: p. 29-34.


1979  Geologic field guide to the Cedar Point Biological Station, Keith County, Nebraska: University of Nebraska-Lincoln, Conservation and Survey Division, Private Circulation Guide: 17 p.

Geologic Maps

2008  Diffendal, R.F., Jr., M. E. Voorhies, E. Jane Voorhies, H. E. LaGarry, C. L. Timperly, and M. E. Perkins; Geologic map of the O’Neill 1° × 2° Quadrangle, Nebraska, with configuration maps of surfaces of formations: University of Nebraska–Lincoln, Conservation and Survey Division Geologic Map GMC-34, scale 1:250,000, one sheet with accompanying 29-page pamphlet.


1991 Geologic map showing configuration of the bedrock surface, North Platte 1° × 2° Quadrangle, Nebraska: U.S. Geological Survey, Miscellaneous Investigations Map 1-2277, scale 1:250,000, one sheet.


1986 Part of Burchett, R. R., compiler; Geologic bedrock map of Nebraska.


Other Maps

2001 Contributed to Ecoregions of Nebraska and Kansas: U.S. Geological Survey Map, scale 1:1,950,000, 2 sheets.

1979 Contributed to Thickness of the principal aquifer, North Platte 1° × 2° and Scottsbluff 1° × 2° maps: University of Nebraska-Lincoln, Conservation and Survey Division, GM-56.

1979 Contributed to Base of the principal aquifer, North Platte 1° × 2° and Scottsbluff 1° × 2° maps: University of Nebraska-Lincoln, Conservation and Survey Division, GM-55.

1979 Contributed to Thickness of principal aquifer, Nebraska: University of Nebraska-Lincoln, Conservation and Survey Division, GM-53.

1979 Contributed to Configuration of base of principal aquifer, Nebraska: University of Nebraska-Lincoln, Conservation and Survey Division, GM-52.

Cover Photographs

2013 Cover photograph: Great Plains Research, v. 23 (1).

2012 Cover photograph: Great Plains Research, v. 22 (2).

2011 Cover photograph: Great Plains Research, v. 21 (1).

2009 Cover photograph: Great Plains Research, v. 19 (1).

2008 Cover photograph: Great Plains Research, v. 18 (2).

2008 Cover photograph: Great Plains Research, v. 18 (1).

2006 Cover photograph: Great Plains Research, v. 16 (2).

1994  Cover photograph: University of Wyoming Contributions to Geology, v. 30 (2).

1987  Cover photograph: University of Nebraska-Lincoln, Conservation and Survey Division (CSD) Resource Notes, v. 1 (3).


1984  Cover photograph: University of Wyoming Contributions to Geology, v. 22 (2).


Other Photographs

2012  Photograph on map of Top 50 Ecotourism Sites in the Great Plains.

2006  Photograph in Editor’s Note, Great Plains Research, v. 16 (2), p. 115.


Newspaper and Other Articles


Test-Hole Logs


Television Programs

2000 Interview on Water Riches Grade School Program - KNOP-TV, North Platte.

1999 Geologic Points of Interest For Tourist Development - Shixing County, Guangdong Province, China, TV.

1997 Saturday With a Scientist - Chimney Rock - For UNL Public Relations - Aired on stations across Nebraska.

1986 Consultant to WTTW and the British Broadcasting Corporation on filming parts of the program The Making of a Continent.

Abstracts

2019 With a spoonful of sugar the medicine goes down: Using an existing interest to initiate geoscience engagement: Geological Society of America Abstracts with Programs, v. 51.


2010 Pabian, Roger K., and R.F. Diffendal, Jr. Evidence of a Late Paleozoic faunal kill in the Hughes Creek Shale Member, Foraker Formation (Late Pennsylvanian?/Early Permian?) in south-eastern Nebraska: Nebraska Academy of Sciences Proceedings of the 120th Annual Meeting: p. 98.


2004 Geological observations by Lewis and Clark along the Missouri River in Nebraska in 1804: Geological Society of America Abstracts with Programs, v. 36(3) : p. 46.


2003 Joints, faults, angular unconformities reconsidered - Harlan County Lake, Nebraska: Geological Society of America Abstracts with Programs, v. 35 (2) : p. 51.

2002 Joints, faults, angular unconformities - Harlan County Lake, Nebraska: Geological Society of America Abstracts with Programs, v. 34 (6) : p. 79.


1996  Perkins, M.E., R.F. Diffendal, Jr., and M.R. Voorhies; Update on efforts to correlate Ash Hollow Formation (Miocene) volcanic ash deposits across parts of Nebraska, Kansas, and South Dakota and to correlate some of those deposits with specific Snake River Plain volcanic province eruptions: TER-QUA ‘96 Program with Abstracts: p. 25.

1996  Diffendal, R.F., Jr., and P-H. Huang; Weathering and structural features of Huangshan (Yellow Mountain) in China: Geological Society of America Abstracts with Programs, v. 28 (6) : p. 36.


1989 Pabian, R.K., R.F. Diffendal, Jr., and others; Late Pennsylvanian and Early Permian cyclic sedimentation, paleogeography, paleocology, and biostratigraphy in Kansas and Nebraska: Missouri Division of Geology and Land Survey Special Publication 5: p. 5-6.


1987  The Sidney Gravel and Kimball Formation, supposed parts of the Ogallala Group (Neogene), are not objectively mappable units: Ogallala Symposium Abstracts: p. 9.


1985  Paleovalleys to nowhere, megaclast fills, and other unusual phenomena, upper White River-lower Arikaree groups (Oligocene), Morrill and Banner counties, Nebraska: TER-QUA ‘85 Program with Abstracts: p. 11.


1984  Further comments on the nature and developmental history of Quaternary Pumpkin Creek, Banner and Morrill counties, Nebraska: Nebraska Academy of Sciences Proceedings of the 94th Annual Meeting: p. 44.


1984  An examination of the possibility of extending the Sidney Gravel (upper Tertiary) beyond the immediate confines of its type area: TER-QUA ‘84 Program with Abstracts: p. 7.

1983  The applicability of the concept of the "Sidney Gravel" to rocks of the Ogallala Group exposed in southern Banner County, Nebraska: TER-QUA ‘83 Program with Abstracts: p. 17.

1983  Megaclasts in channel fills in the Ogallala Group (late Tertiary), Banner, Kimball, and Morrill counties, Nebraska: Nebraska Academy of Sciences Proceedings of the 93rd Annual Meeting: p. 46.

1982  Neogene development of southeastern Banner County, Nebraska, and adjacent areas: TER-QUA '82 Program with Abstracts: p. 11.

1982  Geometries and general features of some Cenozoic valleys and valley fills, western Nebraska: Nebraska Academy of Sciences Proceedings of the 92nd Annual Meeting: p. 47.


1981  An Irvingtonian (Middle Pleistocene) fauna from the highest terrace deposits along Pumpkin Creek, Morrill and Banner counties, Nebraska: Geological Society of America Abstracts with Programs, v. 13 (4): p. 194.


1979  A Gering Formation (Miocene) pumice conglomerate and associated beds from Broadwater, Nebraska: Nebraska Academy of Sciences Proceedings of the 89th Annual Meeting: p. 49.


1974  Microfossils from the upper Severy Shale near Dubois, Nebraska: Nebraska Academy of Sciences Proceedings of the 84th Annual Meeting: p. 31.

1972  The Delaware Limestone (Middle Devonian) of southwestern Ontario: Nebraska Academy of Sciences proceedings of the 82nd Annual Meeting: p. 38.

1972  The biostratigraphy of the Delaware Limestone (Middle Devonian of southwestern Ontario: Dissertation Abstracts, v. 32: p. 6546-B.


Reviews


**Manuscripts Accepted (A) , Submitted (S) or In Preparation (P)**

P  Swinehart, J.B., and R.F. Diffendal, Jr.; Stratigraphy of the Broadwater Formation, western Nebraska.

P  Roadside geology of Nebraska.

P  Perkins, M., R.F. Diffendal, Jr. and M.R. Voorhies; Volcanic ash chronology and correlation, Ogallala Group, Nebraska and NW Kansas.


P  Diffendal, R.F., Jr., and D. Oldham; Relationship of surface structures and geomorphology to Permo-Pennsylvanian salt solution and collapse, western Nebraska.

P  Timperley, C.L., R.F. Diffendal, Jr., and M.R. Voorhies; New Arikareen (Late Oligocene) fossil sites in northeastern Nebraska.

P  Joeckel, M., and R.F. Diffendal, Jr.; Geologic guide to the Lake McConaughy Visitor Center area.

P  Pabian, R.K., and R.F. Diffendal, Jr.; Geology along the Nebraska City to Brownville Bike Trail.

**Geologic Maps-Nebraska**

7.5-minute Geologic with Outcrop, Structural and Economic Information—Open-File or work maps, University of Nebraska-Lincoln, Conservation and Survey Division

Abbott Ranch  Amboy
Ainsworth  Amelia
Ainsworth  Atkinson
Ainsworth NW+  Atkinson NE
Ainsworth SW  Atkinson NW
Barn Butte
Bassett
Bassett NW+
Belmar Big Springs NE
Big Springs NW
Bloomington
Boiling Spring
Bostwick
Bridgeport SW
Bristow
Broadwater
Broadwater NE
Broadwater NW
Brownson
Brule
Brule NE
Brule NW
Brule SE
Bruner Lake
Burton+
Bushnell
Buske Ranch
Butte
Butte NW
Butte SE
Butte SW
Carns+
Carson Lake
Chain Lake
Chambers West
Horsehead Ranch
Huddle Table+
Indian Springs
Inavale
Inman
Clearwater
Cottonwood Lake
Coumbe Bluff
Courthouse Rock
Cowles
Deloit
Deloit NE
Deloit NW
Deloit SW
Dustin*
Dutch Creek+
Easterly Airport
Emmet
Emmet NW
Emmet SE
Emmet SW
Ewing
Ewing SW
Fairchild Ranch
Franklin
Gabe Rock
Glinn Ranch
Green Ranch
Goldman Lake
Goldman Lake NE
Goldman Lake NW
Goldman Lake SE
Goose Lake
Goose Lake NE
Goose Lake SW
Gross
Guide Rock
Guide Rock NE
Hackberry Creek
Hagen Lake
Hagen Lake NE
Hagen Lake NW
Hardy
Harrisburg
Hershey West
Hofeld Lake
Neligh SW
Newport
Newport NE+
Newport SW
Niobrara
Jamison+
Jamison SW+
Keystone
Lambs Lake
Lambs Lake NE
Lake George
Lemoyne
Lewellen
Linke
Lake
Lisco Lisco SE
Lisco NW
Long Pine
Lorenzo
Lost Lake Ranch
Lynch
Lynch NE
Mariaville+
Martin
Marty
Maxwell
Maxwell SW
Meadville+
Meadville NE+
Meadville NW+
Meek Meek NE
Meek SW
Miles Ranch
Mills+
Monowi
Mont Clare
Mud Springs
Naper*
Naper NW*
Naper SW*
Neligh
Neligh SE
Ogallala
Ogallala SE
Ogallala SW
O’Neill
O’Neill SW
Opportunity
Orchard
Orchard NE
Orchard NW
Oshkosh
Oshkosh SW
Page
Paramount Valley
Paxton North Pischelville
Point of Rocks
Pony Lake
Potter Potter SE
Potter 2 NE
Raven
Raven SW
Red Cloud NE
Red Cloud NW
Redington Riverton
Riverview
Rose
Roundhouse Rock
Royal Ruthton
Shovel Dot Ranch
Sidney
Sidney Muni. Airport
Sidney SE
Singleton Ranch
Spencer North
Spencer South
Springview+
Springview NW+
Springview SE+
Star
Stockdale Lake
Stonehouse Ranch
Stonehouse Ranch NE
Stonehouse Ranch NW
Stuart
Stuart NE*
Stuart NW*
Stuart SE
Sunol
Superior
Sutherland Reservoir NW
Swan Lake
Sybrant
Tar Valley
Tar Valley SW
Twin Buttes
Venus
Verdel
Verdigre
Verdigre NE
Walnut

* with Cinda Timperly    + with Hannan LaGarry

**Geologic Maps–Nebraska** — 7.5-minute Maps with Some Information

Barton
Bennett Reservoir E
Bennett Reservoir NW
Bennett Reservoir W
Bethel Cem.
Big Springs
Bushnell SE
Bushnell SW
Chappell
Chappell
Chappell NE
Chappell NW
Chappell SE
Dalton
Dalton SE
Public Documents


Miscellaneous Publications


2006  Editor’s Note: Great Plains Research, v. 16(2), p. 115- 116.

2006  Editor’s Note: Great Plains Research, v. 16(1), p. 3-4.

1999  Geology sections in Diffendal, A.P. and G.E. Moulton; Reconnaissance survey of Lewis and
Clark on the Missouri National Recreational River, Nebraska and South Dakota: U.S. National

1999  George R. Hallberg Citation: GSA Today, v. 9(3):19-20.

1995  Diffendal, R.F., Jr., and D.B. Loope, compilers; 1995 GSA North-Central/South-Central Sections
Abstracts with Programs: Geological Society of America Abstracts with Programs, v. 27(3): 103
p.

1995  Final Announcement, 29th Annual Meetings, Geological Society of America, North-Central and

1994  Preliminary Announcement, 29th Annual Meetings, Geological Society of America, North-

**Editing**

2017  Divine, D.P., and D.A. Eversoll; The Groundwater Atlas of Red Willow County, Nebraska:
Conservation and Survey Division, University of Nebraska, Resource Atlas No. 11: 35 p.

2017  Divine, D.P.; The Groundwater Atlas of Richardson County, Nebraska: Conservation and Survey
Division, University of Nebraska, Resource Atlas 10: 33 p.

Division, University of Nebraska, Bulletin 9 (New series): 29 pp.

2017  Divine, D.P., and S.S. Sibray; An Overview of Secondary Aquifers in Nebraska: Conservation
and Survey Division, University of Nebraska, Educational Circular 26: 40 p.

2015  Hrabik, R.A., S.C. Schainost, R.H. Stasiak, and E.J. Peters; The Fishes of Nebraska: School of
Natural Resources, University of Nebraska–Lincoln: 542+xviii p.

2015  Divine, D.P., R.M. Joeckel, and J. Korus; Basic Guide for the Description of Cuttings from
Boreholes in Nebraska: Conservation and Survey Division, University of Nebraska, Educational

2015  Bleed, A., and C.H. Babbitt; Nebraska's Natural Resource Districts: An Assessment of a Large-
Scale Locally Controlled Water Governance Framework: Robert B. Daugherty Water for Food
Institute, University of Nebraska, Policy Report 1: 155 p.

Division, University of Nebraska, Resouce Atlas: v. RA-9, 40 p.

Division, University of Nebraska, Resouce Atlas 7: 39 p.

2004–2013  *Great Plains Research*

2013  Korus, J. et al., The Groundwater Atlas of Nebraska (3rd Revised Edition), Conservation and
Survey Division, University of Nebraska, Resource Atlas 4b, 64 p. (** This publication has been
awarded the 2014 John C. Frye Memorial Award by the Association of American State Geologists and the Geological Society of America as Best Environmental Geology Publication of 2014.)
