



of ledge-forming, indurated ferruginous sandstone of the Pascagoula Formation exposed along the valley wall along a tributary of South Fork Coles Creek. Section 46 Township 7N. Range 1W. Photographed on March 14, 2022.



Locally graveliferous outcrop of ledgeforming, indurated ferruginous cross-bedded sandstone of the Pascagoula Formation demonstrating differential weathering of liesegang limonite and goethite cementation. Section 29 Township 7N. Range 1W. Photographed on March 14, 2022.



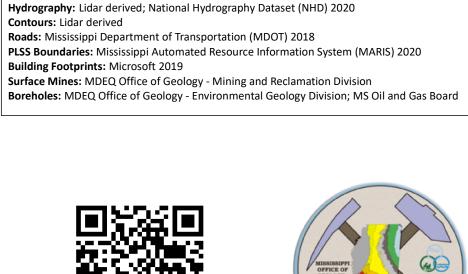




Jonathan Leard standing next to an outcrop of ledge-forming, indurated ferruginous cross-bedded sandstone of the Pascagoula Formation exposed along the valley wall along a tributary of South Fork Coles Creek. Section Township Range. Section 29 Township 7N. Range 1W. Photographed on March 14, 2022.



Pea gravel conglomerate from the ironstone of the Pascagoula Formation exposed as float along a tributary of South Fork Coles Creek. Section 29 Township 7N. Range 1W. Photographed on March 14, 2022.



Declination: World Magnetic Model, January 1, 2022 estimated Magnetic North declination in CRANFIELD

quadrangle center area, (31° 33' 45" N 91° 11' 15" W), is 0° 36' west of True North ± 0°21'. Annual rate of

Lidar: Mississippi Department of Environmental Quality (MDEQ), U.S. Army Corps of Engineers (USACE),

United States Geological Survey (USGS), Natural Resources Conservation Service(NRCS), Federal

Emergency Management Agency(FEMA), National Oceanic and Atmospheric Administration(NOAA),

National Park Service (NPS), and Tennessee Valley Authority (TVA). Project span 2005-2017.

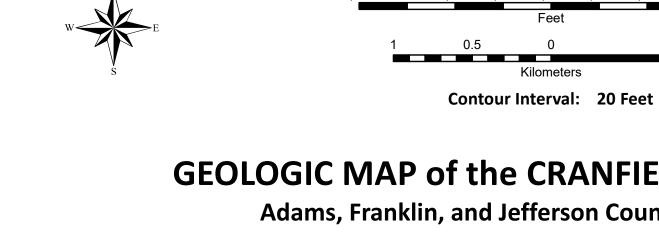
Base Map produced by the Mississippi Geological Survey

declination change is approximately 0° 6' west per year.

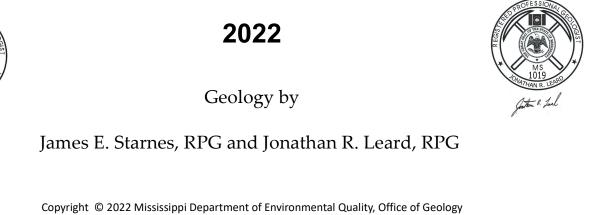
Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere

Projection: Mercator Auxiliary Sphere; Datum: WGS 1984; Units: Meter

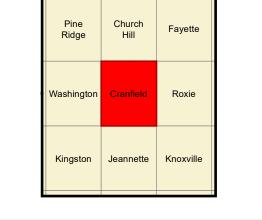




GEOLOGIC MAP of the CRANFIELD QUADRANGLE Adams, Franklin, and Jefferson Counties, Mississippi







Adjoining 7.5' Quadrangles

This geologic map was funded in part by the U.S. Geological Survey, National Cooperative Geologic Mapping Program, under STATEMAP award number

G21AC10822. Geology field checked in 2021 and 2022 using LIDAR, Projection:

Mercator Auxiliary Sphere; Datum: WGS 1984, Horizontal Units: Meter, Contour

Geologic maps are only a guide to current understanding and do not eliminate

the need for detailed investigations of specific sites for specific purposes. The

views and conclusions contained in this Open-File Report are those of the

geologists and should not be interpreted as representing the official policies,

either expressed or implied, of the State of Mississippi or of the United States

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