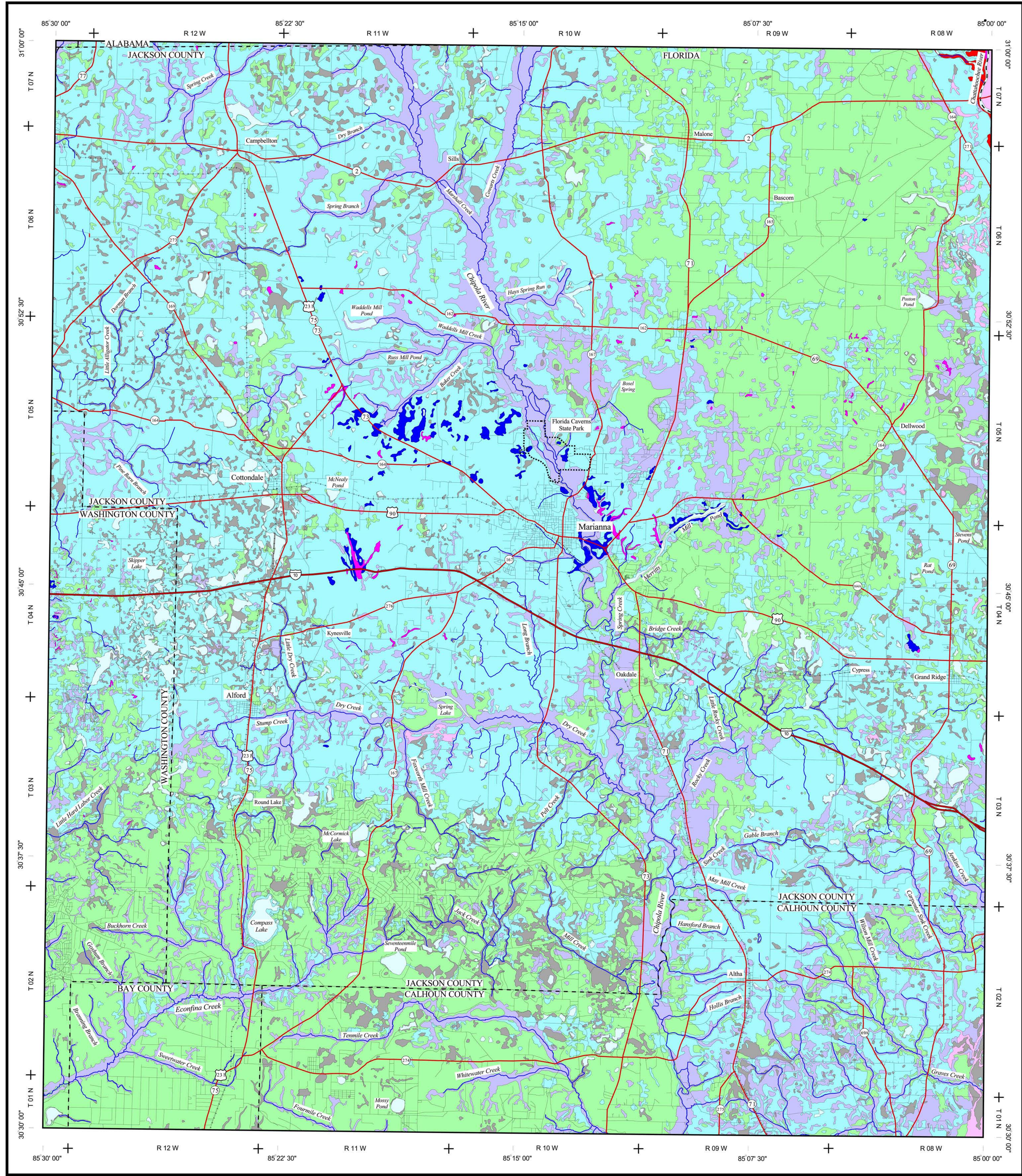




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SURFICIAL SEDIMENTS MAP OF THE EASTERN HALF OF THE U.S.G.S. 1:100,000 SCALE MARIANNA QUADRANGLE, NORTHWESTERN FLORIDA

BY RICHARD C. GREEN, P.G. #1776, WILLIAM L. EVANS III, P. G., JONATHAN R. BRYAN, AND DAVID T. PAUL, 2003

Surficial sediments and soils of the eastern half of the U.S.G.S. 1:100,000 scale Marianna Quadrangle are composed primarily of five lithologic components: quartz sand, loam, muck, clay, and limestone. Combinations of these components constitute the eight sediment units represented on this map.

Data utilized in creating this map were derived from a variety of sources, including United States Department of Agriculture Soil Surveys, field observations, cores and well cuttings, surface samples, and hand-augered samples. Sediment types shown on this map represent soil from within the upper 6.6 feet (two meters) of land surface.

Between 25 and 100 different soil types are recognized, depending on the county, by the United States Department of Agriculture (Duffee, et al., 1979; Duffee, et al., 1984; Huckle and Weeks, 1965; Sullivan, et al., 1975). In these soil surveys, soil types were categorized based on factors such as slope, moisture content, texture, distribution of organic matter, acidity and other physical properties. In order to organize these soil types into meaningful lithologic units for this map, soil types were grouped based on shared characteristics. The reader is urged to consult the soil surveys for more detailed information about soils in the map area.

The Sand, Loam, Clay, and Limestone unit represents areas where the Marianna Limestone and/or Ocala Limestone are within 24 to 48 inches of the surface. The soils in these areas consist of varying percentages of sand, loam, and clay. This unit generally occurs on ridges and in outcrops throughout central Jackson County, including areas along the northern portion of the Chipola River and Merritts Mill Pond.

Loam and Clay, defined as having less than 52 percent sand particles and more than 27 percent clay particles, is generally confined to the Chattahoochee River floodplain and a small area on the south bank of Dry Creek.

Loam is one of the least significant units in terms of coverage and is defined as soil material that is 7 to 27 percent clay particles, 28 to 50 percent silt particles, and less than 52 percent sand particles (Duffee et al., 1979, and Duffee, et al., 1984). It is present in only a few isolated areas, but is often a component of other units.

Clay is the soil type of smallest areal extent. This unit is confined to the Chattahoochee River basin in the northwestern-most corner of the study area; however it is also a component of other units.

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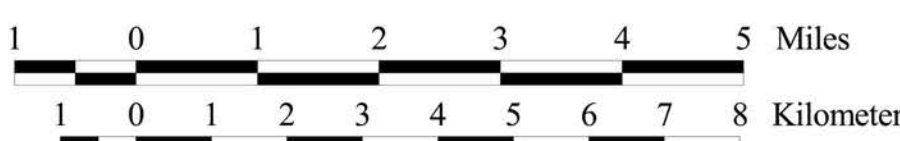
NOTES:

This map was created using FDEP databases and data obtained from the Florida Geological Survey. It was completed August 31, 2003, by the Florida Department of Environmental Protection, Division of Resource Assessment & Management, Florida Geological Survey, Geological Investigations Section. The presentation of the geologic information shown and is not intended to replace site-specific or use-specific investigations. The Florida Geological Survey does not guarantee this document to be free from errors or inaccuracies and disclaims any responsibility or liability for inappropriate change of scale or interpretations or decisions based thereon. For more information please contact:

Richard C. Green or David T. Paul
Florida Geological Survey, Gunter Building MS #720
903 W. Tennessee Street, Tallahassee, FL 32304-7700
850/488-9380

LEGEND FOR SURFICIAL SEDIMENTS MAP

- Sand, Loam, and Clay
 - Sand
 - Sand and Loam
 - Muck
 - Sand, Loam, Clay, and Limestone
 - Loam and Clay
 - Loam
 - Clay
 - Water
- Interstate
 - Primary / Secondary road
 - Local road
 - Railway
- Rivers and Streams
 - State Park
 - County Line
 - Limestone/Dolomite Quarries



SELECTED PHOTOGRAPHS FROM STUDY AREA

