

# FLOODPLAIN MAPPING IN GEORGIA USING DIGITAL ORTHOPHOTO QUARTER QUADRANGLE BASE MAPS

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**Abstract.** The U.S. Geological Survey (USGS), in cooperation with the Georgia Emergency Management Agency, is working to develop a new base map for mapping flood hazards using color-infrared (CIR), Digital Orthophoto Quarter Quadrangle (DOQQ) imagery now available for the State of Georgia. Approximately 4,000 quarter quadrangles are needed to provide full coverage for the State of Georgia.

Each map is approximately 34 by 44 inches and contains a 1:12,000-scale CIR DOQQ (1999 photography, where available, otherwise a 1993 panchromatic DOQQ is used) and a Digital Raster Graphic of the associated USGS 7.5-minute topographic quadrangle map. Available statistical floodplain (Q3) boundaries from the Federal Emergency Management Agency (FEMA) are shown. FEMA developed the digital Q3 floodplain boundaries at a 1:24,000 scale by scanning existing Flood Insurance Rate Maps and vectorizing a thematic overlay of flood risks. These boundaries represent the 100-year recurrence interval

flood, 500-year recurrence interval flood, and floodway information within the quarter quadrangle, where available. Figure 1 shows the Albany West Northeast (NE) Quarter Quadrangle map.

A complementary countywide PC-based Topographic map and DOQQ viewer also is being prepared. The viewer and associated data for a given county will be distributed on a DVD-ROM. The viewer is being developed to provide countywide information views and a digital database framework layer. This format facilitates adding information in future years; for example, the addition of important community infrastructure. The viewer will permit search by Geographic Names Information System features, seamless pan and zoom, and an informative county inset map showing roads and towns.

The Georgia Geologic Survey's Maps and Publications Office (19 Martin Luther King, Jr. Drive, Room 400, Atlanta, Georgia 30334) will distribute the maps (scheduled for publication by late Spring 2003).



