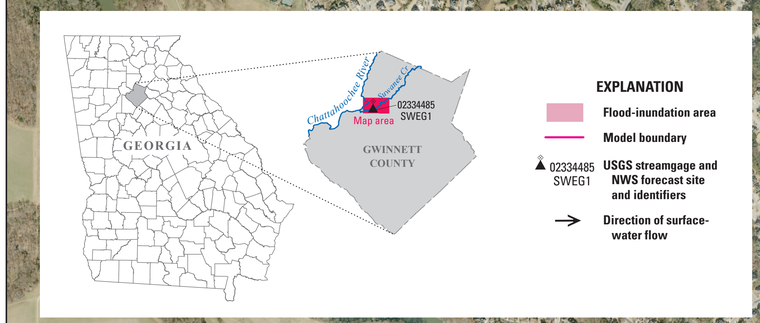
Prepared in cooperation with
Gwinnett County,
Georgia

Scientific Investigations Map 3226
Sheet 19 of 19
Pamphlet accompanies map

84°06'W 84°05'W 84°04'W 84°03'W

34°03'N

34°02'N



EXPLANATION

- Flood-inundation area
- Model boundary
- 02334485 SWEG1 — USGS streamgage and NWS forecast site and identifiers
- Direction of surface-water flow

LAWRENCEVILLE SUWANEE ROAD

MARTIN FARM ROAD

MCGINNIS FERRY ROAD

BUFORD HIGHWAY

PEACHTREE INDUSTRIAL BOULEVARD

NOBLIN RIDGE DRIVE

NORFOLK SOUTHERN RAILROAD

Chattahoochee River

02334485
SWEG1

Disclaimer for Flood-Inundation Maps

Inundated areas shown should not be used for navigation, regulatory, permitting, or other legal purposes. The USGS provides these maps "as-is" for a quick reference, emergency planning tool but assumes no legal liability or responsibility resulting from the use of this information.

Uncertainties and Limitations for Use of Flood-Inundation Maps

Although the flood-inundation maps represent the boundaries of inundated areas with a distinct line, some uncertainty is associated with these maps. The flood boundaries shown were estimated based on water stages (water-surface elevations) and streamflows at selected USGS streamgages. Water-surface elevations along the stream reaches were estimated by steady-state hydraulic modeling, assuming unobstructed flow, and by using streamflows and hydrologic conditions anticipated at the USGS streamgage(s). The hydraulic model reflects the land-cover characteristics and any bridge, dam, levee, or other hydraulic structures existing as of October 2011. Unique meteorological factors (timing and distribution of precipitation) may cause actual streamflows along the modeled reach to vary from those assumed during a flood, which may lead to deviations in the water-surface elevations and inundation boundaries shown. Additional areas may be flooded due to unanticipated conditions such as changes in the streambed elevation or roughness, backwater into major tributaries along a main stem river, or backwater from localized debris or ice jams. The accuracy of the floodwater extent portrayed on these maps will vary with the accuracy of the digital elevation model used to simulate the land surface. Additional uncertainties and limitations pertinent to this study are described in the document accompanying this set of flood-inundation map plates.

If this series of flood-inundation maps will be used in conjunction with National Weather Service (NWS) river forecasts, the user should be aware of additional uncertainties that may be inherent or factored into NWS forecast procedures. The NWS uses forecast models to estimate the quantity and timing of water flowing through selected stream reaches in the United States. These forecast models (1) estimate the amount of runoff generated by precipitation and snowmelt, (2) simulate the movement of floodwater as it proceeds downstream, and (3) predict the flow and stage (water-surface elevation) for the stream at a given location (Advanced Hydrologic Prediction Service [AHPS] forecast point) throughout the forecast period (every 6 hours and 3–5 days out in many locations). For more information on AHPS forecasts, please see: *http://water.weather.gov/ahps/pcpn_and_river_forecasting.pdf*.

Base from High-Resolution Orthoimagery for Gwinnett County, 2010
Transverse Mercator projection
State Plane Coordinate System, Georgia West, FIPS 1002
North American Datum of 1983 (NAD 83)

0 1,000 2,000 3,000 4,000 FEET
0 500 1,000 METERS

Flood-Inundation Map of Suwanee Creek in Gwinnett County, GA, Corresponding to a Gage Height of 16.0 Feet and an Elevation of 925.9 Feet (NAVD 88) at U.S. Geological Survey Streamgage Suwanee Creek at Suwanee, GA (02334885)

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation:
Musser, J.W., 2012, Flood-Inundation Maps for Suwanee Creek from the Confluence of Ivy Creek to the Noblin Ridge Drive Bridge, Gwinnett County, Georgia: U.S. Geological Survey Scientific Investigations Map 3226, 8 p. pamphlet, 19 sheets; available online only at http://pubs.usgs.gov/sim/3226/.

Prepared in coordination with the
National Weather Service
http://water.weather.gov/ahps/pcpn_and_river_forecasting.pdf