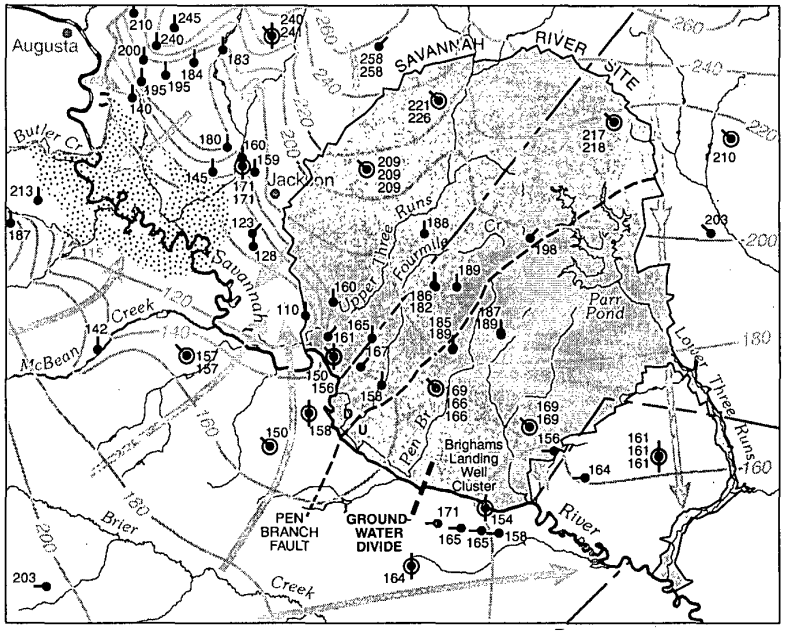
GROUND-WATER LEVELS, PREDEVELOPMENT GROUND-WATER FLOW, AND STREAM-AQUIFER RELATIONS IN THE VICINITY OF THE SAVANNAH RIVER SITE, GEORGIA AND SOUTH CAROLINA

U.S GEOLOGICAL SURVEY



Prepared in cooperation with the

U.S. DEPARTMENT OF ENERGY

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
GEORGIA GEOLOGIC SURVEY

Water-Resources Investigations Report 97-4197

GROUND-WATER LEVELS, PREDEVELOPMENT GROUND-WATER FLOW, AND STREAM-AQUIFER RELATIONS IN THE VICINITY OF THE SAVANNAH RIVER SITE, GEORGIA AND SOUTH CAROLINA

By John S. Clarke and Christopher T. West

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 97-4197

Prepared in cooperation with the

U.S. DEPARTMENT OF ENERGY and the

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
GEORGIA GEOLOGIC SURVEY

U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

Thomas J. Casadevall, Acting Director

For additional information write to:

District Chief
U.S. Geological Survey
3039 Amwiler Road
Peachtree Business Center, Suite 130
Atlanta, GA 30360

Copies of this report can be purchased from:

U.S. Geological Survey
Branch of Information Services
Denver Federal Center
Box 25286
Denver, CO 80225-0286

CONTENTS

ILLUSTRATIONS

Plates

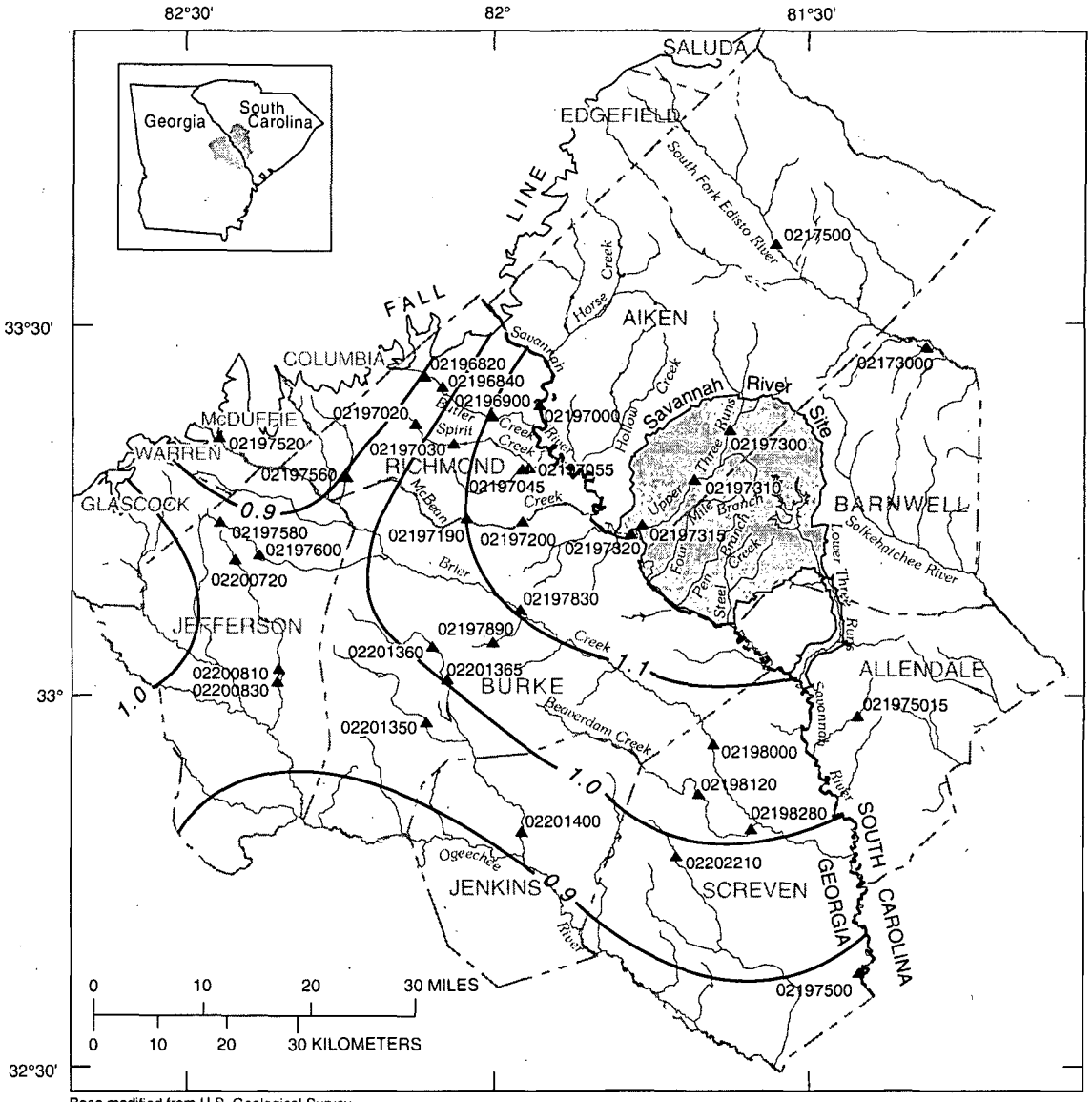
[in pocket in back of report]

ILLUSTRATIONS—Continued

ILLUSTRATIONS—Continued

ILLUSTRATIONS—Continued

TABLES



Base modified from U.S. Geological Survey
State base maps

EXPLANATION

—— 1.0 —— **LINE OF EQUAL MEAN-ANNUAL RUNOFF, 1941–70**—
INTERVAL 0.1 CUBIC FOOT PER SQUARE
MILE OF DRAINAGE AREA

▲02198120 **STREAMFLOW-GAGING STATION AND IDENTIFICATION NUMBER**

Figure 3. Mean-annual runoff in Georgia part of study area, 1941–70, and locations of selected streamflow-gaging stations (modified from Faye and Mayer, 1990).