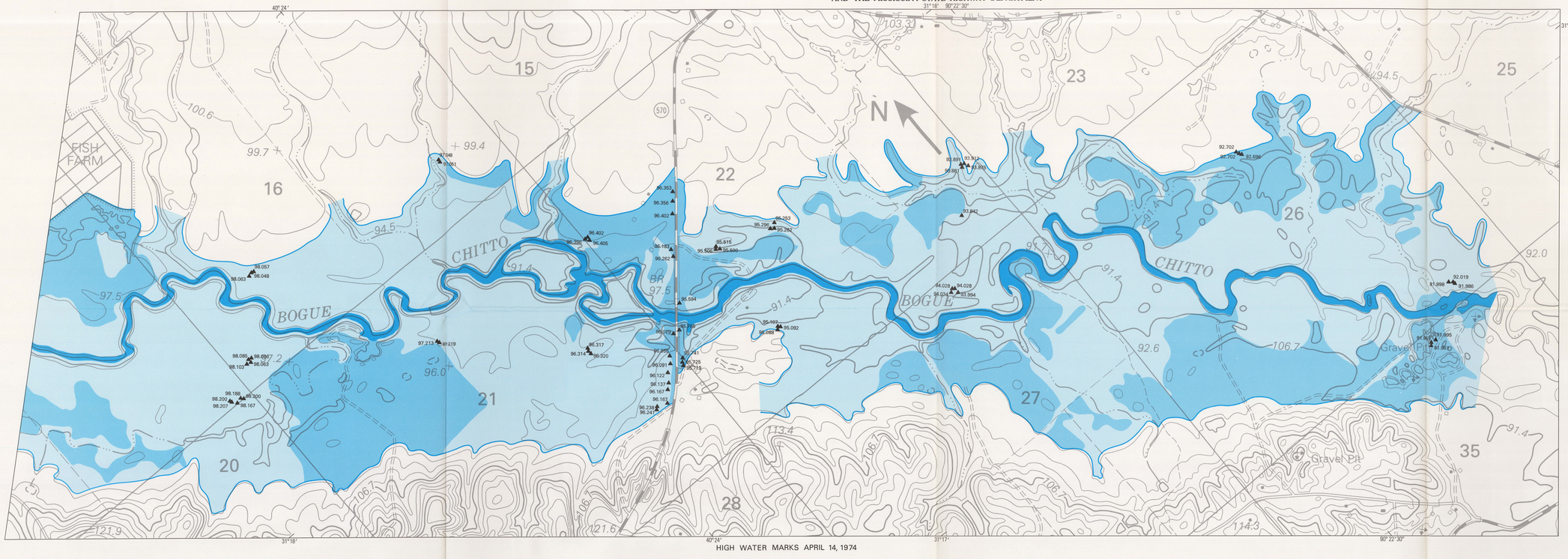
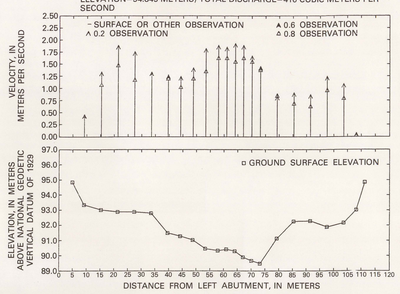
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Prepared in cooperation with the
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
AND THE MISSISSIPPI STATE HIGHWAY DEPARTMENT



HIGH WATER MARKS APRIL 14, 1974

DISCHARGE MEASUREMENT DECEMBER 21, 1972, BOGUE CHITTO AT STATE HIGHWAY 570 NEAR SUMMIT, MISSISSIPPI (WATER-SURFACE ELEVATION=94.845 METERS) TOTAL DISCHARGE=416 CUBIC METERS PER SECOND



EXPLANATION

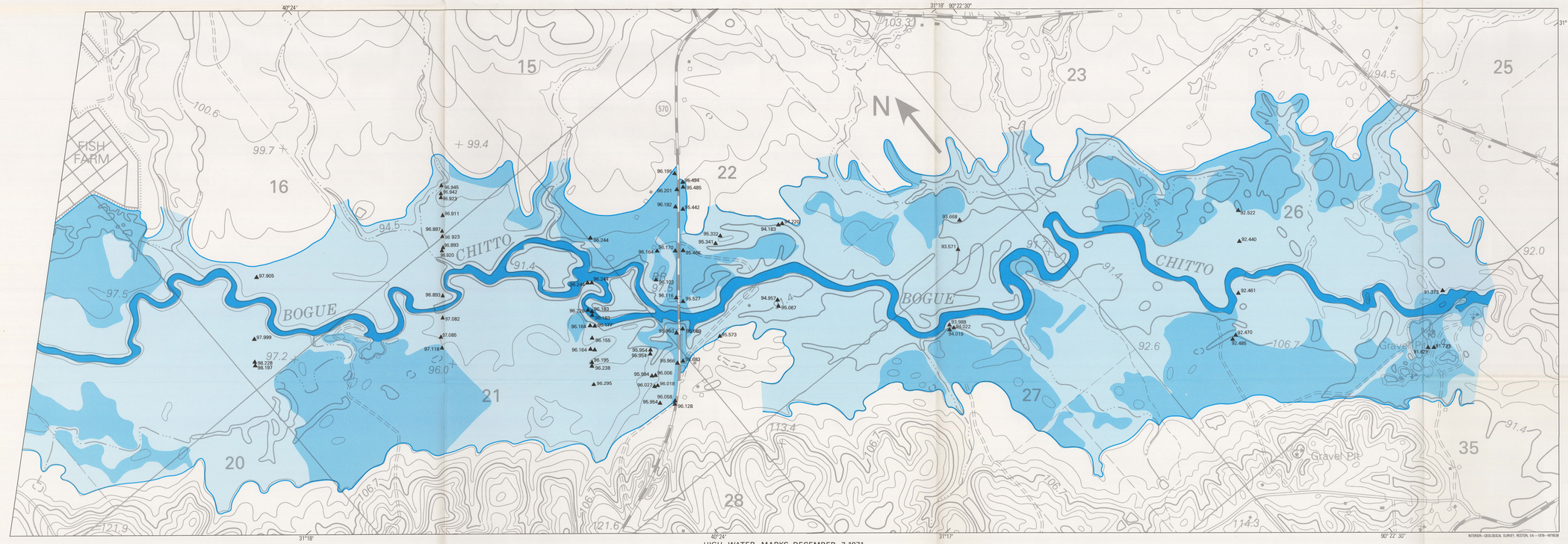
▲99.270 Elevation of water surface

Flood boundary

Manning Roughness Coefficient

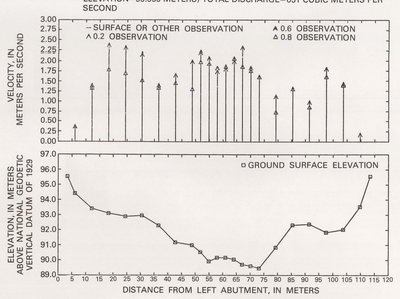
Lower water channel	0.065–0.085
Open land, pasture	0.085–0.120
Dense woods	0.120–0.250

EXAMPLE: If water depth is less than 0.6 meter, n=0.250. If water depth is greater than 1.0 meter, n=0.125 (Assume linear variation of n for water depths between 0.6 and 1.0 meter).



HIGH WATER MARKS DECEMBER 7, 1971

DISCHARGE MEASUREMENT DECEMBER 7, 1971, BOGUE CHITTO AT STATE HIGHWAY 570 NEAR SUMMIT, MISSISSIPPI (WATER-SURFACE ELEVATION=95.555 METERS) TOTAL DISCHARGE=651 CUBIC METERS PER SECOND



EXPLANATION

▲99.261 Elevation of water surface

Flood boundary

Manning Roughness Coefficient

Lower water channel	0.065–0.085
Open land, pasture	0.085–0.120
Dense woods	0.120–0.250

EXAMPLE: If water depth is less than 0.6 meter, n=0.250. If water depth is greater than 1.0 meter, n=0.125 (Assume linear variation of n for water depths between 0.6 and 1.0 meter).

Base from U.S. Geological Survey
McComb North and Priestdale 1:24 000, 1972

SCALE 1:8 000

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 METERS

CONTOUR INTERVAL ABOUT 3 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

INTERIOR—GEOLOGICAL SURVEY, RESTON, VA.—1978—W78038

BACKWATER AT BRIDGES AND DENSELY WOODED FLOOD PLAINS, BOGUE CHITTO NEAR SUMMIT, MISSISSIPPI

By
B. E. Colson, C. O. Ming, and George J. Arcement

1978