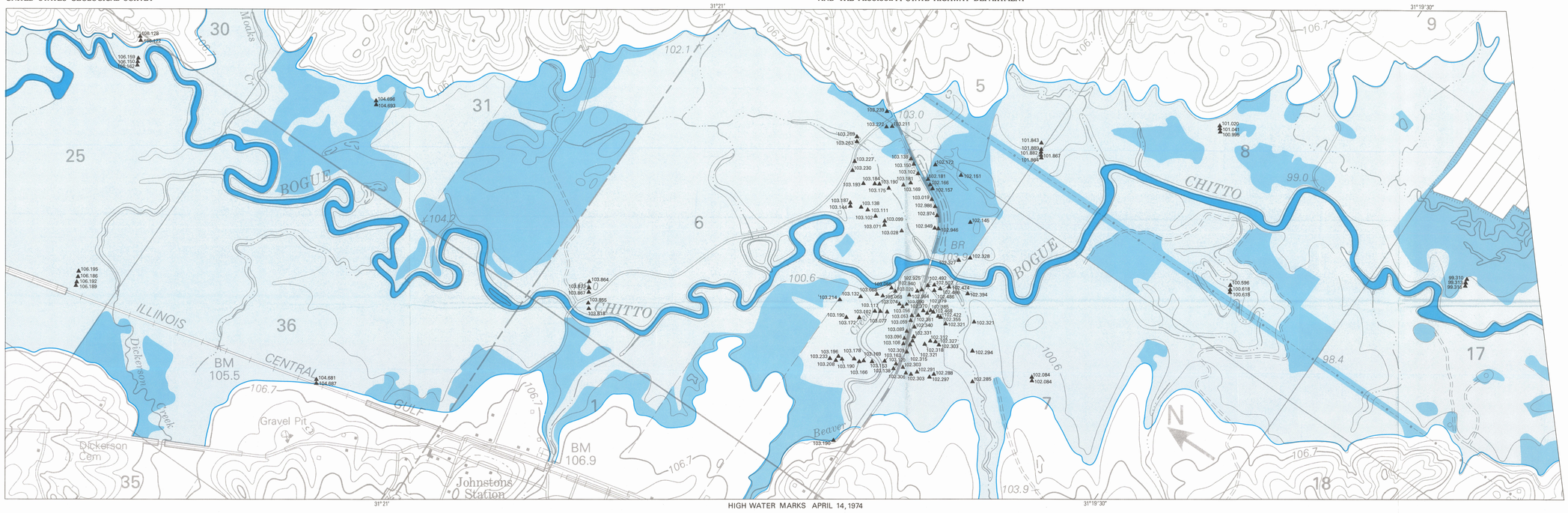
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

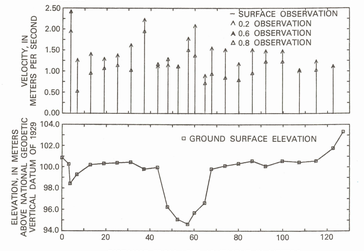
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINSTRATION
AND THE MISSISSIPPI STATE HIGHWAY DEPARTMENT

HYDROLOGIC INVESTIGATIONS
ATLAS HA-591 SHEET 3



HIGH WATER MARKS APRIL 14, 1974

DISCHARGE MEASUREMENT APRIL 14, 1974, BOGUE CHITTO AT COUNTY HIGHWAY NEAR JOHNSTON STATION, MISSISSIPPI (WATER-SURFACE ELEVATION=102.315 METERS) TOTAL DISCHARGE=606 CUBIC METERS PER SECOND



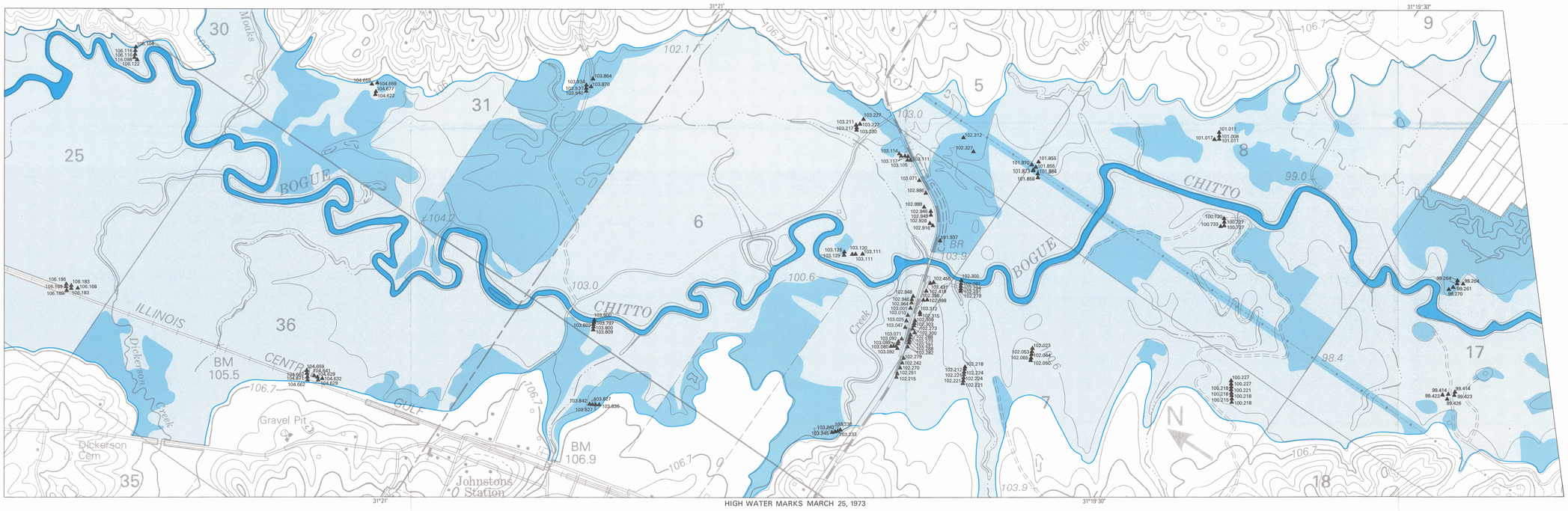
EXPLANATION

- 99.316 Elevation of water surface April 14, 1974
- Flood boundary

Manning Roughness Coefficient

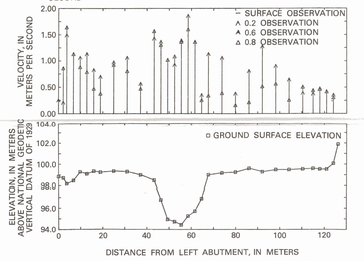
Low water channel	0.065	0.085
Open land, pasture	0.085	0.120
Dense woods	0.120	0.250

EXAMPLE: If water depth is less than 0.6 meters, n=0.250 If water depth is greater than 1.0 meter n=0.120 (Assume linear variation of n for water depths between 0.6 and 1.0 meter)



HIGH WATER MARKS MARCH 25, 1973

DISCHARGE MEASUREMENT DECEMBER 21, 1972, BOGUE CHITTO AT COUNTY HIGHWAY NEAR JOHNSTON STATION, MISSISSIPPI (WATER-SURFACE ELEVATION=101.895 METERS) TOTAL DISCHARGE=362 CUBIC METERS PER SECOND



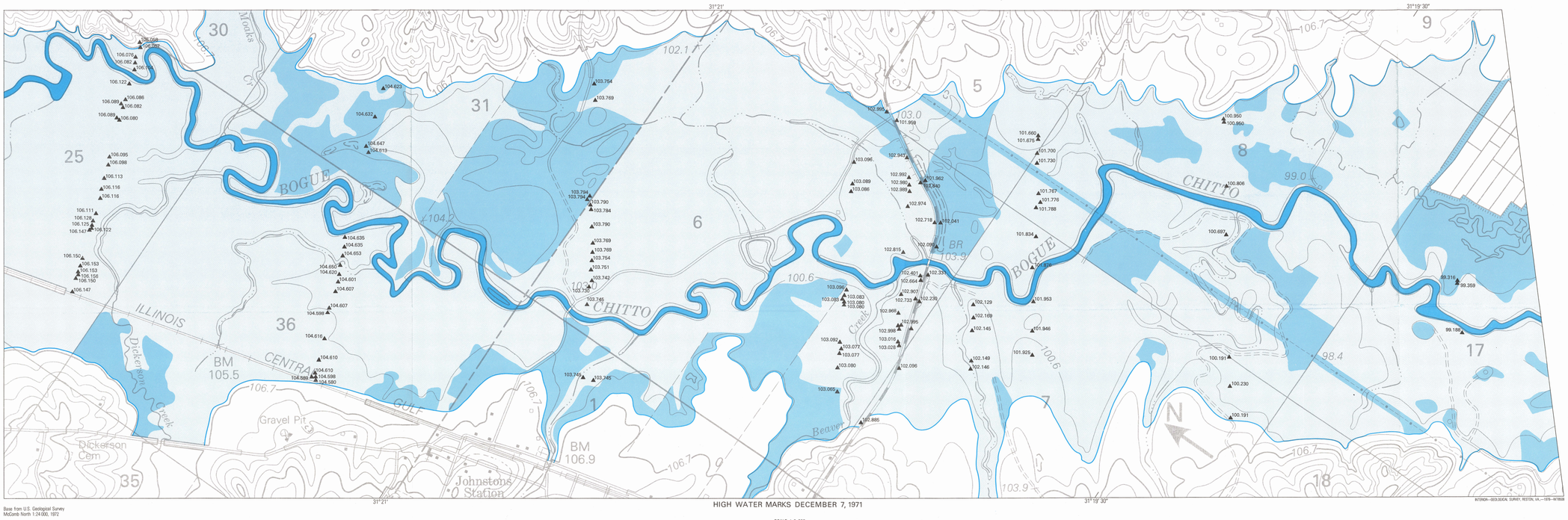
EXPLANATION

- 99.426 Elevation of water surface March 25, 1973
- Flood boundary

Manning Roughness Coefficient

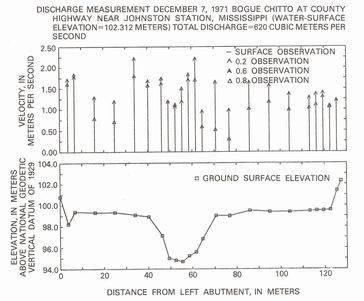
Low water channel	0.065	0.085
Open land, pasture	0.085	0.120
Dense woods	0.120	0.250

EXAMPLE: If water depth is less than 0.6 meters, n = 0.250 If water depth is greater than 1.0 meter n = 0.120 (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 COUNTY HIGHWAY NEAR JOHNSTON STATION, MISSISSIPPI (WATER-SURFACE ELEVATION=102.312 METERS) TOTAL DISCHARGE=620 CUBIC METERS PER SECOND



EXPLANATION

- 99.188 Elevation of water surface December 7, 1971
- Flood boundary

Manning Roughness Coefficient

Low 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 meters, n = 0.250 If water depth is greater than 1.0 meter n = 0.120 (Assume linear variation of n for water depths between 0.6 and 1.0 meter)

Base from U.S. Geological Survey
McComb North 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—W7804

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

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

1978