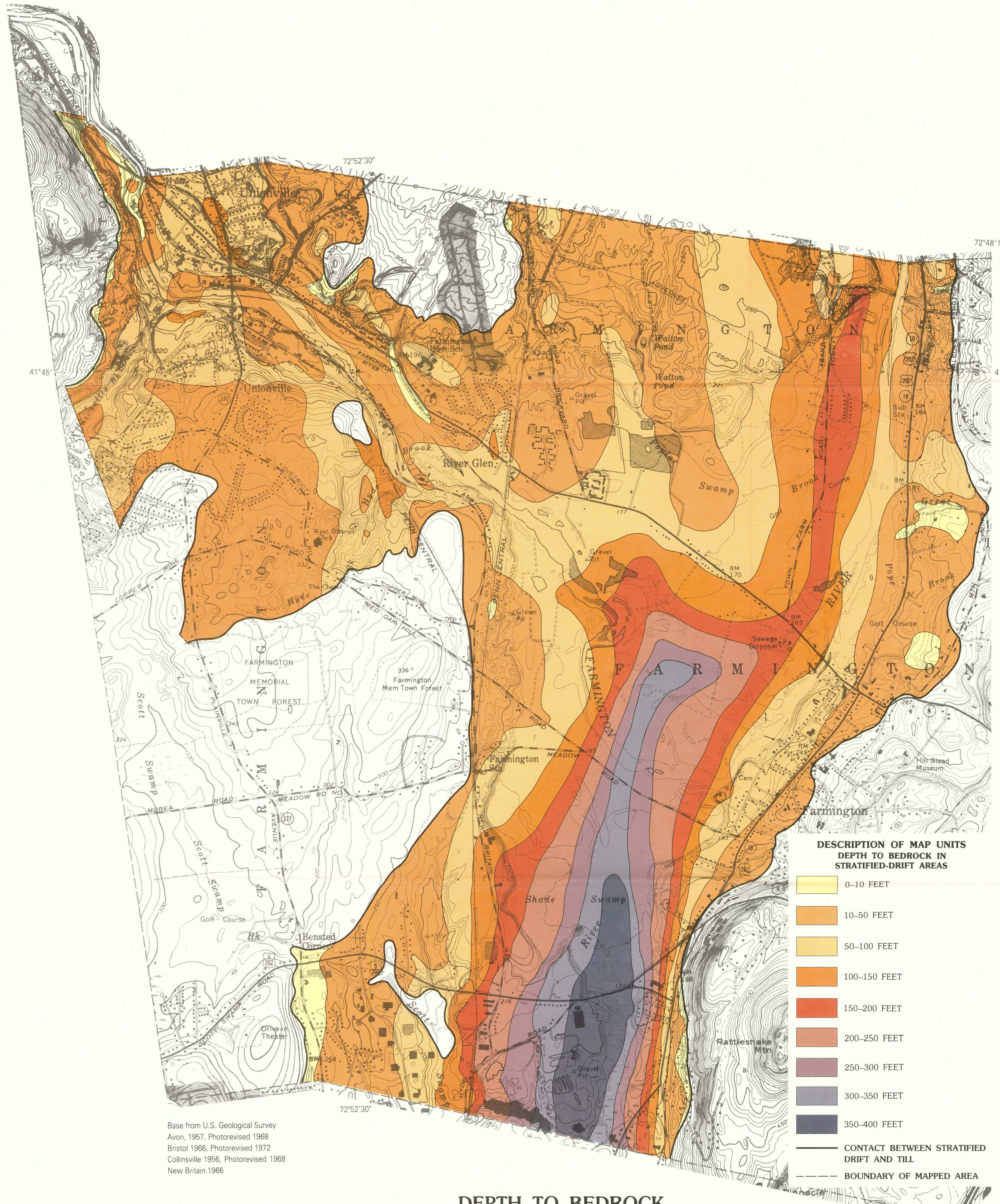
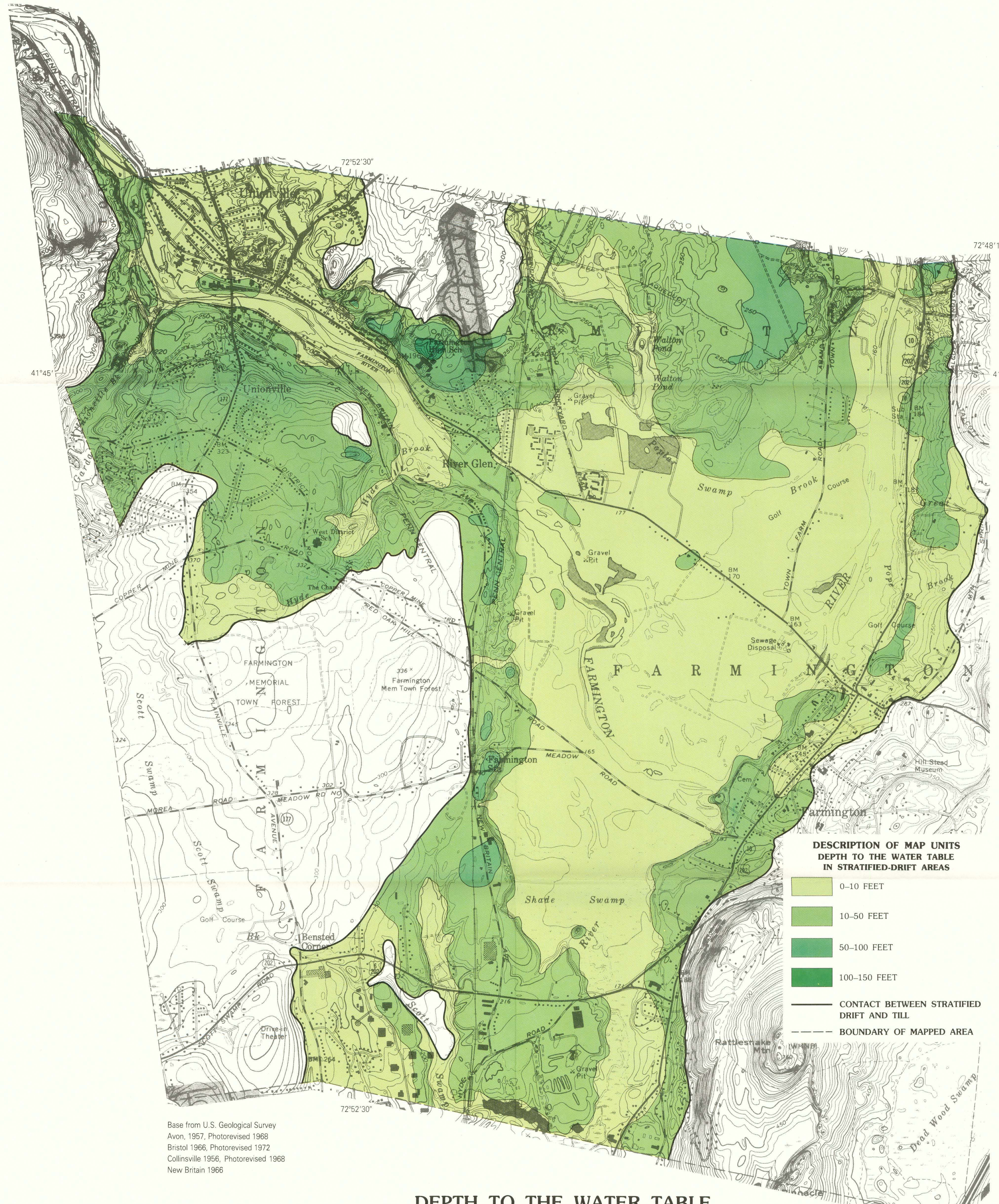


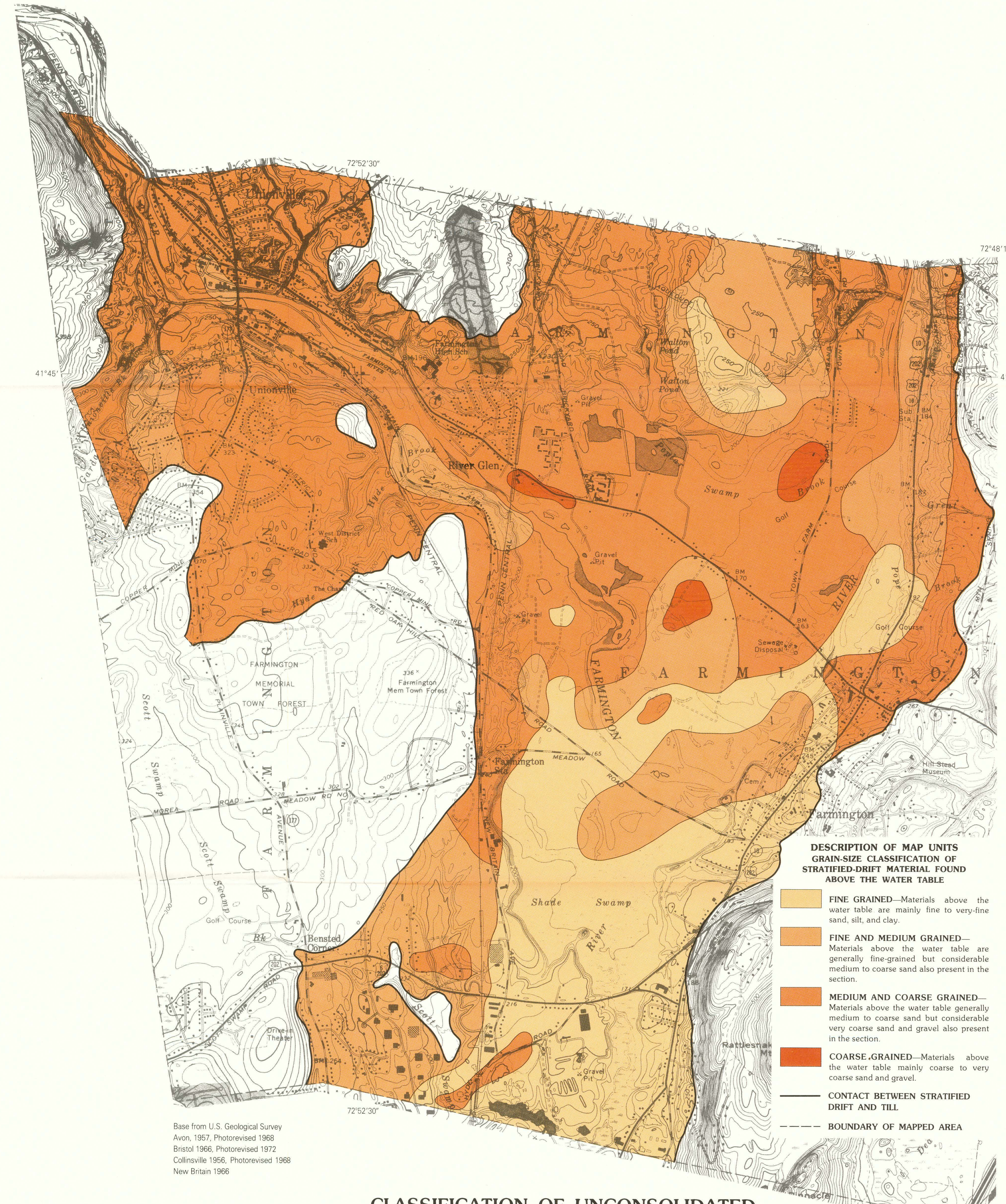
DEPTH TO BEDROCK

Contact between stratified drift and till from H. E. Simpson (1959) and R. W. Schnabel (1962)



DEPTH TO THE WATER TABLE

Contact between stratified drift and till from H. E. Simpson (1959) and R. W. Schnabel (1962)

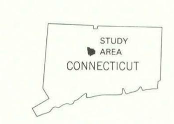


CLASSIFICATION OF UNCONSOLIDATED MATERIALS ABOVE THE WATER TABLE

INTERIOR—GEOLOGICAL SURVEY, RESTON, VA.—1986—W85087

Contact between stratified drift and till from H. E. Simpson (1959) and R. W. Schnabel (1962)

SCALE 1:24 000
1 ½ 0 1 MILE
1 .5 0 1 KILOMETER
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



EXPLANATION

Maps show depth to bedrock, depth to the water table, and the general particle-size composition of unconsolidated materials above the water table in stratified-drift areas of part of the Farmington River valley, Farmington, Connecticut. Depths to bedrock and the water table are shown in feet below land surface. Unconsolidated materials include stratified-drift, flood-plain, and stream-terrace deposits. Map units describing the particle-size composition of stratified drift are based primarily on geologists' and drillers' descriptions of unconsolidated materials found in test holes and wells. Terms used to describe these materials (gravel, sand, silt, and clay) generally correspond to the particle-size classification developed by Wentworth (1922) as shown in the adjacent diagram.

PARTICLE-SIZE CLASSIFICATION TERMS USED IN THIS REPORT

Average Diameter (millimeter)		2	1	0.5	0.25	0.125	0.063	0.004
TERM	Gravel	Very Coarse	Coarse	Medium	Fine	Very Fine	Silt	Clay
	Gravel	Sand						
	COARSE		MEDIUM		FINE			

Data used to construct the three maps were obtained from previous hydrogeologic studies that included all or part of the Farmington River valley (Hopkins and Handman, 1975; Melvin, 1976; and Mazzaferro, 1980). Geologic maps of the Avon and New Britain quadrangles (Schnabel, 1960, 1962; and Simpson, 1959, 1966) also provided useful information. The data from these sources vary considerably in completeness and geographic distribution. Furthermore, the water table is a dynamic feature; it may change daily, seasonally, and yearly in response to natural conditions and may be affected by pumpage from wells. Actual depths to bedrock, depths to the water table, and the grain-size distribution of stratified drift, in places, may differ from the ranges defined in the descriptions of the map units that accompany each map. **THESE MAPS GENERALLY DESCRIBE THE DEPTH-TO-BEDROCK, DEPTH-TO-WATER TABLE, AND TYPE OF MATERIAL THAT CAN BE EXPECTED IN AN AREA. THEY ARE NOT INTENDED TO BE SUBSTITUTES FOR DETAILED SITE INVESTIGATIONS.**

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DEPTH TO BEDROCK, DEPTH TO THE WATER TABLE, AND CLASSIFICATION OF UNCONSOLIDATED MATERIALS ABOVE THE WATER TABLE IN STRATIFIED-DRIFT AREAS OF PART OF THE FARMINGTON RIVER VALLEY, FARMINGTON, CONNECTICUT

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1986

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