

UNCONSOLIDATED DEPOSITS AND AVAILABILITY OF GROUND WATER

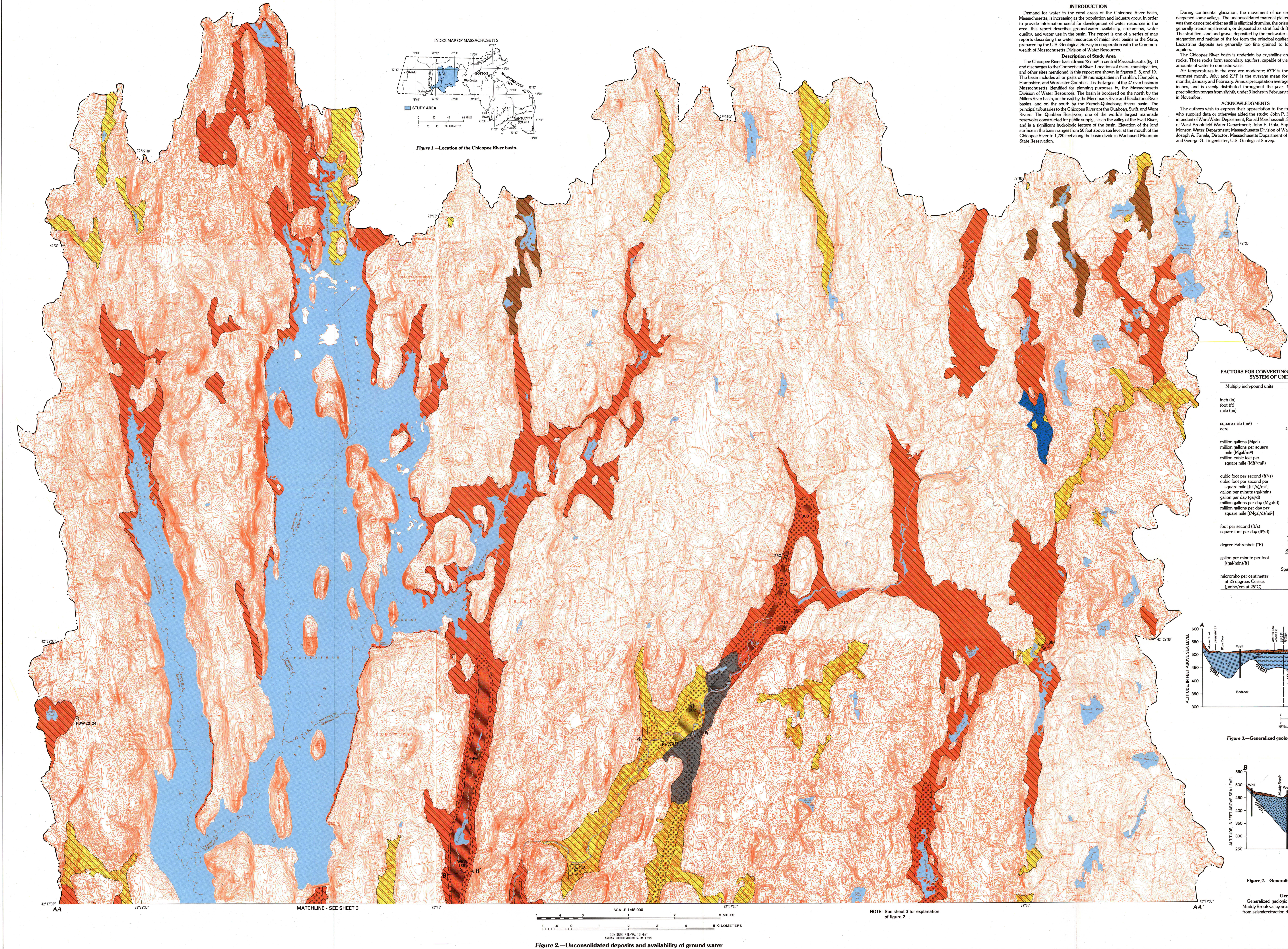


Figure 1.—Location of the Chicopee River basin.

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM OF UNITS (SI), WITH ABBREVIATIONS

Multiply inch-pound units	By	To obtain SI Units
	Length	
inch (in)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
	Area	
square mile (mi ²)	2.590	square kilometer (km ²)
acre	4.047	square meter (m ²)
	Volume	
million gallons (Mgal)	3.785 × 10 ⁶	cubic hectometer (hm ³)
million gallons per square mile (Mgal/mi ²)	1.461 × 10 ⁴	cubic hectometers per square kilometer (hm ³ /km ²)
million cubic feet per square mile (Mcf/mi ²)	0.01093	cubic hectometers per square kilometer (hm ³ /km ²)
	Flow	
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)
cubic foot per second per square mile (ft ³ /s/mi ²)	0.01093	cubic meter per second per square kilometer [(m ³ /s)/km ²]
gallon per minute (gal/min)	6.309 × 10 ⁻²	cubic meter per second (m ³ /s)
gallon per day (gal/d)	3.785 × 10 ⁻⁴	cubic meter per day (m ³ /d)
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m ³ /s)
million gallons per day per square mile [(Mgal/d)/mi ²]	0.01691	cubic meter per second per square kilometer [(m ³ /s)/km ²]
	Hydraulic units	
foot per second (ft/s)	0.3048	meter per second (m/s)
square foot per day (ft ² /d)	0.0069	square meter per day (m ² /d)
	Temperature	
degree Fahrenheit (°F)	5/9 (°F - 32)	degree Celsius (°C)
	Specific capacity	
gallon per minute per foot [(gal/min)/ft]	2.070 × 10 ⁻⁴	cubic meter per second per meter [(m ³ /s)/m]
	Specific conductance	
microhm per centimeter at 25 degrees Celsius (μmho/cm at 25°C)	1	microsiemens per centimeter at 25 degrees Celsius (μS/cm at 25°C)

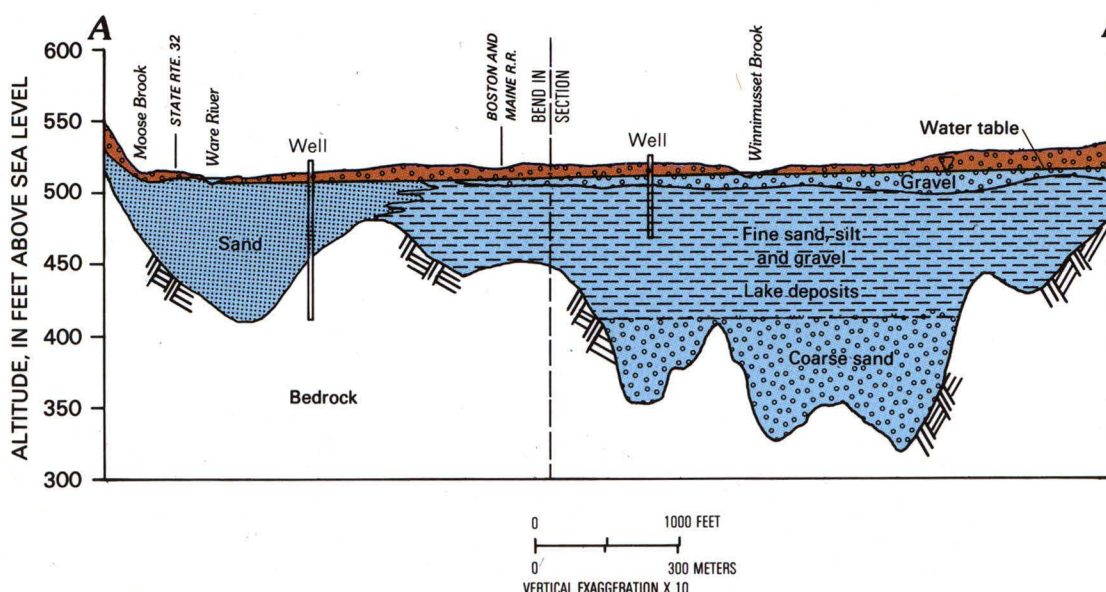


Figure 3.—Generalized geologic section of Ware River valley.

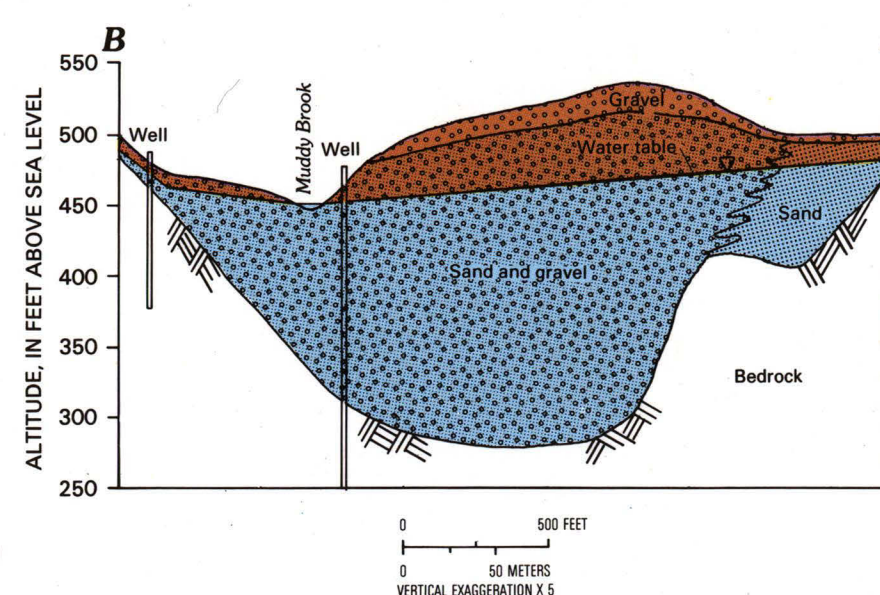


Figure 4.—Generalized geologic section of Muddy Brook valley.

Generalized Geologic Sections
Generalized geologic sections across the Ware River valley and the Muddy Brook valley are shown in figures 3 and 4. The sections were derived from seismic refraction data and lithologic logs of borings and wells.

Figure 2.—Unconsolidated deposits and availability of ground water

WATER RESOURCES OF THE CHICOPEE RIVER BASIN, MASSACHUSETTS

by
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