

Simulation of Ground-Water Flow and Evaluation of Water-Management Alternatives in the Assabet River Basin, Eastern Massachusetts

By Leslie A. DeSimone

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Conversion Factors, Datums, and Abbreviations

Multiply	By	To obtain
cubic foot per day (ft ³ /d)	0.02832	cubic meter per day (m ³ /d)
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)
foot (ft)	0.3048	meter (m)
foot per day (ft/d)	0.3048	meter per day (m/d)
gallon per person per day (gal/person/d)	0.00378	cubic meter per person per day (m ³ /person/d)
inch (in.)	25.4	millimeter (mm)
inch per month (in/mo)	25.4	millimeter per month (mm/mo)
inch per year (in/yr)	25.4	millimeter per year (mm/yr)
mile (mi)	1.609	kilometer (km)
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m ³ /s)
square foot per day (ft ² /d)	0.0929	square meter per day (m ² /d)
square mile (mi ²)	2.590	square kilometer (km ²)

Temperature in degrees Fahrenheit (°F) can be converted to degrees Celsius (°C) as follows:

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times 0.5555$$

In this report, vertical coordinate information is referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29), and horizontal coordinate information is referenced to the North American Datum of 1983 (NAD 83). Altitude above the vertical datum is referred to as elevation.

ABF	Aquatic Base Flow
GIS	Geographic Information System
MADCR	Massachusetts Department of Conservation and Recreation
MADEP	Massachusetts Department of Environmental Protection
MWRA	Massachusetts Water Resources Authority
NPDES	National Pollution Discharge Elimination System
TMDL	Total Maximum Daily Load
USGS	U.S. Geological Survey
WMA	Water Management Act