

Characteristics and Classification of Least Altered Streamflows in Massachusetts

By David S. Armstrong, Gene W. Parker, and Todd A. Richards

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Conversion Factors and Other Abbreviations

Inch/Pound to SI

Multiply	By	To obtain
Length		
inch (in.)	2.54	centimeter (cm)
inch (in.)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
yard (yd)	0.9144	meter (m)
Area		
acre	4,047	square meter (m ²)
square mile (mi ²)	259.0	hectare (ha)
square mile (mi ²)	2.590	square kilometer (km ²)
Volume		
gallon (gal)	3.785	liter (L)
gallon (gal)	0.003785	cubic meter (m ³)
gallon (gal)	3.785	cubic decimeter (dm ³)
million gallons (Mgal)	3,785	cubic meter (m ³)
cubic foot (ft ³)	0.02832	cubic meter (m ³)
Flow rate		
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)	0.06309	liter per second (L/s)
gallon per day (gal/d)	0.003785	cubic meter per day (m ³ /d)
gallon per day per square mile [(gal/d)/mi ²]	0.001461	cubic meter per day per square kilometer [(m ³ /d)/km ²]
inch per year (in/yr)	25.4	millimeter per year (mm/yr)
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]	1,461	cubic meter per day per square kilometer [(m ³ /d)/km ²]

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

$$^{\circ}\text{F}=(1.8\times^{\circ}\text{C})+32$$

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

$$^{\circ}\text{C}=(^{\circ}\text{F}-32)/1.8$$

OTHER ABBREVIATIONS USED IN REPORT

ANOVA	analysis of variance
CLA	cluster analysis
CPUE	Catch per unit effort
CT	Connecticut
CV	coefficient of variation
EFC	Environmental Flow Components
FD	Fluvial dependent
FDC	Flow-duration curve
FS	Fluvial specialist
GIS	geographic information system
GPS	Global Positioning System
HIT	Hydrologic Index Tool
HRO	High-gradient runoff
HUC	Habitat Use Classification
IBI	Index of Biotic Integrity
IHA	Indicators of Hydrologic Alteration
IQR	Interquartile range
MA	Massachusetts
MDEP	Massachusetts Department of Environmental Protection
MG	Macrohabitat generalist
MDCR	Massachusetts Department of Conservation and Recreation
MDFG	Massachusetts Department of Fish and Game
MDFW	Massachusetts Division of Fisheries and Wildlife
MOVE	maintenance of variance extension
MOVE.3	maintenance of variance extension, type 3
NED	National Elevation Dataset
NH	New Hampshire
NHD	National Hydrography Dataset
NLCD	National Land Cover Dataset
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollution Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRO	Northern runoff
NWIS	National Water Information System

PC	principal component
PC1	principal components axis 1
PC2	principal components axis 2
PC3	principal components axis 3
PCA	principal-components analysis
POR	period of record
RI	Rhode Island
RO	Runoff
SRO	Southern runoff
SYE	Sustainable-Yield Estimator
TFC	Target Fish Community
UPGMA	unweighted pair-group method
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey