



Connecticut Association of Flood Managers (CAFPM) – United States Geological Survey (USGS) Webinar

**THURSDAY, MAY 28, 2026 – Capturing Perishable Data and Recommended
Analyses Following a Major Flood**

1:00 pm-2:00 pm (Virtual Webinar)

Gregory Stewart, USGS

Catastrophic flooding occurred in various portions of the State of Vermont from July 9-12, 2023 and the State of Maine from December 19-21, 2023. The USGS, in cooperation with the Federal Emergency Management Agency (FEMA), is conducting studies to characterize the magnitude and extent of these floods. This includes documentation and analysis of peak water-surface elevation through high-water marks (HWMs), computing annual exceedance probability (AEP) and recurrence interval, updating regression equations in Vermont, analyzing reservoir storage in basins in Maine, and quantifying and validating existing FEMA Flood Insurance Studies. Over 900 peak water-surface elevations from HWMs were immediately collected and will be used to compare the floods to historical events, such as Tropical Storm Irene (2011) in Vermont and the Flood of 1987 in Maine. Preliminary AEP flood frequencies detail that 19 stream gages in the Vermont and Maine Floods recorded a peak streamflow, with the majority recording an AEP less than or equal to 1 percent (greater than a 100-year recurrence interval). These data allow for the accurate calibration of flood risk models and floodplain delineation. Additionally, flood risk and the effects of these extreme events may be assessed by road engineers and local public-works officials to determine bridge and culvert risk and replacement and emergency-action plans. This documentation is essential for the development of mitigation measures to minimize future flood loss and may be used to aid in the allocation of disaster assistance funding during a future event.

There will be a question-and-answer period at the end of the presentation, as well as a brief discussion of other ongoing USGS projects in New England.

To register for this webinar, please use the following link:

<https://us06web.zoom.us/meeting/register/81mGOW7KQ86UJZpO2wml5Q>

ASFPM has preapproved this webinar for 1.0 continuing education credit for CFMs.



Gregory Stewart, PE is Chief of the Applied Hydrology Branch in the New England Water Science Center and has been with the USGS since 1990. The Applied Hydrology Branch provides hydrologic data, research, and tools to water resource managers, stakeholders and policy makers that inform critical water management decisions throughout New England. Mr. Stewart's expertise includes hydrology, streamflow, and surface water modeling. His experience includes field data collection; hydrologic, hydraulic, and statistical studies including Flood Insurance Studies and Flood Recovery Reports; and coordinating various federal programs with FEMA.