

New! The Connecticut Streamflow and Sustainable Water Use Estimator

The Connecticut Streamflow and Sustainable Water Use Estimator (CT SSWUE) is a computer program which allows the user to estimate water availability for streams in Connecticut. It was:

- Developed by the U.S. Geological Survey in cooperation with the Connecticut Department of Energy and Environmental Protection;
- Designed to help decision makers balance human water needs with the instream flows needed to sustain healthy ecosystems;
- Uses basin characteristics and water-use volumes obtained from the USGS online StreamStats application (Ries and others, 2017; <https://water.usgs.gov/osw/streamstats/>) to estimate the unaltered and water-use-adjusted streamflows;
- Allows the user to estimate the effect of water use in a selected drainage basin by selecting different scenarios such as:
 1. Unaltered streamflow: the estimated daily mean streamflow in a drainage basin in the absence of any water withdrawals or wastewater discharges and with minimal human development.
 2. Net streamflow alterations caused by water withdrawals or wastewater discharges
 3. Estimates the accuracy and uncertainty of estimated unaltered streamflow.
 4. Provides a planning-level decision-support tool to assess sustainable water use at ungaged sites in Connecticut (Granato and Levin, 2018).

The SSWUE tool is more fully described and made available to the public in the following USGS online publications by the New England Water Science Center, Massachusetts-Rhode Island office:

1. USGS Scientific Investigations Report 2018–5135: The Connecticut Streamflow and Sustainable Water Use Estimator: A Decision-Support Tool To Estimate Water Availability at Ungaged Stream Locations in Connecticut

Suggested citation: Levin, S.B., Olson, S.A., Nielsen, M.G., and Granato, G.E., 2018, The Connecticut Streamflow and Sustainable Water Use Estimator—A decision-support tool to estimate water availability at ungaged stream locations in Connecticut: U.S. Geological Survey Scientific Investigations Report 2018–5135, 34 p., <https://doi.org/10.3133/sir20185135>. This publication is available online only.

2. USGS Open-File Report 2018–1163: User Guide for the Connecticut Streamflow and Sustainable Water Use Estimator (CT SSWUE—Version 1.0) Computer Program

Suggested citation: Granato, G.E., and Levin, S.B., 2018, User guide for the Connecticut Streamflow and Sustainable Water Use Estimator (CT SSWUE—version 1.0) computer program: U.S. Geological Survey Open-File Report 2018–1163, 7 p., <https://doi.org/10.3133/ofr20181163>. This publication is available online only.

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