Table 1. Description of the fields needed to describe the creation of your dataset.

Title of dataset	Station_Details		
URL of dataset	https://github.com/spencer-		
	tassone/RiverineHeatwaves/blob/main/Station_Details.csv		
Abstract	Heatwaves are increasing in frequency, duration, and intensity in ocean, coastal, and lake ecosystems. While positive water temperature trends have been documented in many rivers, heatwaves have not been analyzed. This study examined heatwaves in rivers throughout the United States between 1996-2021. Riverine heatwaves increased in frequency over the study period, with significant increases in summer, in mid to high order streams, and at free-flowing sites and sites above a reservoir. The increase in heatwave frequency was accompanied by an increase in moderate strength heatwaves as well as an increasing trend in the average number of heatwave days each year. Riverine heatwaves were most likely to occur during periods of normal or below-normal discharge conditions and at sites with a mean annual discharge $\leq 250 \text{ m}^3 \text{ s}^{-1}$. These results provide the first assessment of heatwaves in rivers for a large geographic area in the United States. The dataset described here provides station specific details regarding location, altitude, reservoir position, and stahler stream order.		
Keywords			
Dataset lead author	USGS, stream, river, altitude, reservoir, stream order		
Position of data author	Spencer Tassone Graduate student		
Address of data author	Department of Environmental Sciences		
radices of data data of	University of Virginia Clark Hall 291 McCormick Rd P.O. Box 400123 Charlottesville, VA 22904		
Email address of data author	sjt7jc@virginia.edu		
Primary contact person for dataset	Spencer Tassone		
Position of primary contact person	Graduate student		
Address of primary	Department of Environmental Sciences		
contact person	University of Virginia		
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	P.O. Box 400123		
	Charlottesville, VA 22904		
Email address of	sjt7jc@virginia.edu		
primary contact person			
Organization associated	NA NA		
with the data			
Usage Rights	Publicly available and free to use		
Geographic region	United States of America		
Geographic coverage	Alabama, Alaska, California, Colorado, Georgia, Michigan, Montana, Nevada,		
	New Jersey, New York, Oregon, Pennsylvania, South Carolina, Texas,		

	Washington	
Temporal coverage - Begin date	2021	
Temporal coverage - End date	2021	
General study design	This study collected USGS site specific variables using several publicly available datasets.	
Methods description	Altitude was extracted using the United States Geological Survey (USGS) 'dataRetrieval' R package. Stahler stream order was determined using the USGS NHDPlus High Resolution geospatial database using ESRI ArcMap version 10.8. Categorical assignment of site position relative to a reservoir (i.e., above, below, none) was determined from aerial photographic visual inspection of each sites location relative to the U.S. Army Corps of Engineers National Inventory of Dams (NID) in ArcMap.	
Laboratory, field, or other analytical methods	The USGS conducts high-frequency surface water monitoring throughout the U.S. as part of its national water information system. All sites with daily mean water temperature records available for the 26-year period of 1996-2021 were identified using the R package 'dataRetrieval' version 2.7. Tidally influenced and lake sites were removed, as were all flagged data other than those 'Approved', 'Approved Revised', 'Approved Edited', or 'Provisional'. Sites with < 90% of their daily records were also excluded. Linear interpolation was applied to water temperature gaps ≤ 2 days. For larger gaps, multiple linear regression models were developed using 1 km2 resolution, daily climate data using the R package 'daymetr' version 1.6. Only those sites with regressions where $R^2 \geq 0.80$ were used in this analysis (mean \pm SD $R^2 = 0.91 \pm 0.04$). Seventy long-term water temperature sites were identified, resulting in a total of 1,820 station years of water temperature data available for analysis. Site specific variables included region, altitude, Stahler stream order, and position in landscape relative to a reservoir. Regional assignment was classified according to historically climatic consistent regions of the U.S. (https://www.ncei.noaa.gov/monitoring-references/maps/us-climate-regions). Altitude was extracted using the 'dataRetrieval' R package. Stahler stream order was determined using the USGS NHDPlus High Resolution geospatial database using ESRI ArcMap version 10.8. Categorical assignment of site position relative to a reservoir (i.e., above, below, none) was determined from aerial photographic visual inspection of each sites location relative to the U.S. Army Corps of Engineers National Inventory of Dams (NID) in ArcMap (https://nid.sec.usace.army.mil).	
Quality control	Visual inspection of sites was warranted as the NID may exclude low head dams or historical mill dams.	
Additional information	Altitude was converted from NGVD 29 to NAVD 88 by adding 3.6 feet prior to conversion to units of meters. See USGS report for vertical datum conversion https://pubs.usgs.gov/sir/2010/5040/section.html .	
	Many USGS site numbers begin with the number zero. Noted in table 2, all site numbers in this analysis < 10301500 ($<$ line 47) begin with a zero.	

Table 2. Description of the variables (i.e., columns) in the dataset in sufficient detail for another user to understand and use the data.

Column name	Definition	Units
station_nm	Station name issued by the USGS	NA
site_no	Site number issued by the USGS. All site numbers < 10301500 (< line 47) start with a zero which gets dropped in csv file format	NA
lat	Site latitude provided by the USGS	Decimal degrees
long	Site longitude provided by the USGS	Decimal degrees
state	United States - state name where the site is located	NA
STUSAB	United States - two letter state name abbreviation	NA
StreamOrder	Stahler stream order for each site as determined by the USGS NHDPlus High Resolution geospatial database using ESRI ArcMap version 10.8	NA
Reservoir	Site position relative to a reservoir. The categorical values can either be 'Above', 'Below', or 'None' indicating if the site is above a reservoir, below a reservoir, or free-flowing with no reservoir present	NA
DrainageArea_km2	Watershed drainage area for each site	Square kilometers
altitude_m_NAVD88	Altitude of each site based on the North American Vertical Datum of 1988 (NAVD88)	Meters