



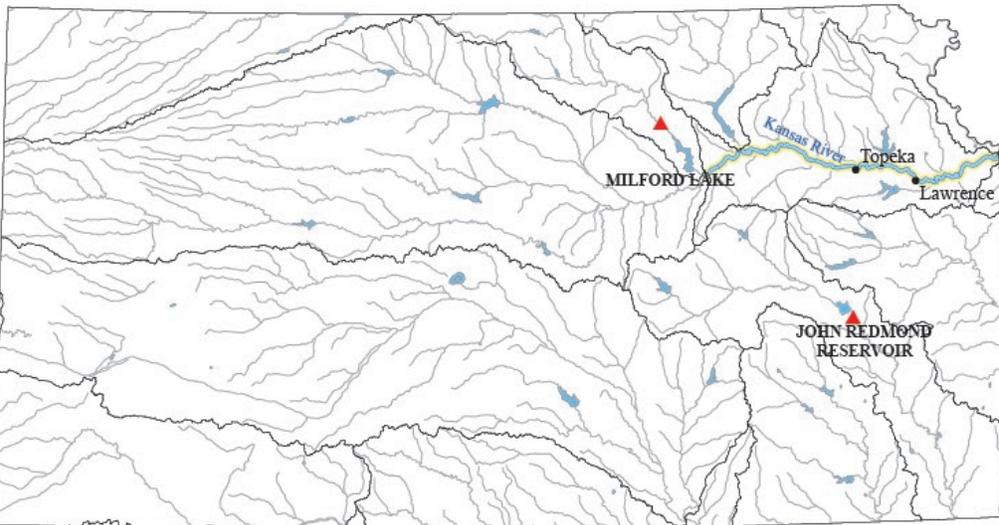
Pictured is the confluence of Rock Creek and the Neosho River at Burlington, just downstream of the outlet from John Redmond Reservoir. Hydrologic Technician Kyle Puls recently visited a nearby site ([07182510](https://www.usgs.gov/locations/offices/ks/water-science-center/locations/07182510)) to collect a streamflow measurement on November 29, 2021.



*Governor's Conference on the
Future of Water in Kansas*

November 17 & 18
Zoom Online Conference Sessions

Several USGS scientists presented current research at the 2021 Governor's Conference on the Future of Water in Kansas hosted by the Kansas Water Office. Topics included Cheney Reservoir watershed water-quality trends, Kansas River time of travel, Kansas River surrogate models for early warning notification, and John Redmond Reservoir sediment loading. Conference presentation recordings can be accessed free online: [2021 Governor's Conference Presentations \(ks.gov\)](https://www.ks.gov/governors-conference-presentations)



It's that time of year again! Cold temperatures are causing ice in some of our streams and rivers. During site visits, our hydrologic technicians may temporarily remove equipment to prevent damage due to freezing conditions. Justin and Nick visited the Republican River at Clay Center ([06856600](https://www.usgs.gov/locations/offices/ks/water-science-center/locations/06856600)) on 1/4/22 to service the continuous water-quality monitor and found more ice than expected! Thankfully after some hard work, they were able to remove the equipment unscathed. Water-quality data at Clay Center will be unavailable until the river thaws and equipment is reinstalled.

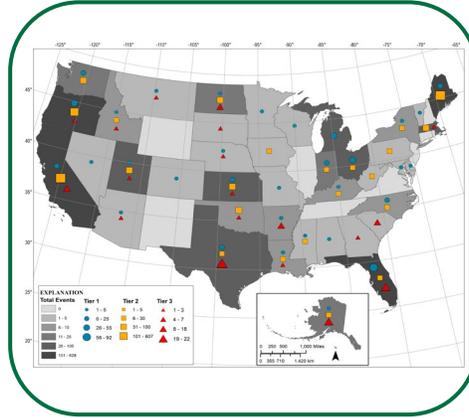
Science Spotlights



New Report! Regression analyses were performed on streamgauge data in Kansas that were most representative of natural flow. Regional regression equations were developed for the estimation of streamflow at ungaged locations in Kansas. The drainage-area ratio method was compared to the regional regression analysis as an alternative method for estimating streamflow at ungaged locations.

<https://doi.org/10.3133/sir20215100>

Lukasz, B.S., 2021, Methods for estimating low-flow frequency statistics, mean monthly and annual flow, and flow-duration curves for ungaged locations in Kansas: U.S. Geological Survey Scientific Investigations Report 2021–5100, 69 p., <https://doi.org/10.3133/sir20215100>.



New Report! In a review of algal toxin exposures on reserved Federal lands and among Trust species in the United States, algal toxin and effects were observed on 11% of Federal land units and found to affect 67 Trust species on and off Federal land. This estimate is likely an underestimate based on identified knowledge gaps. Funding for this review was provided by the U.S. Geological Survey's Environmental Health Mission Area Toxic Substances Hydrology Program.

<https://doi.org/10.1080/10643389.2021.2010511>



Farewell and many thanks to Andy Ziegler! Beginning his USGS career in 1985, Andy has spent the past 36 years passionately contributing to our science mission. From field work and data interpretation, to water-quality specialist, to center director – Andy has truly done it all. We appreciate and value his insights, extensive knowledge, and lengthy animated discussions. We wish him and his family well during this well-deserved new chapter of their lives. Andy's final day with the USGS is January 31st, 2022. He will remain a USGS volunteer and can be contacted at aziegler@usgs.gov.

Science Seminar Series

Join us February 16, 2022 at 1:00p CST for a presentation by Jaime Painter, USGS Water Use Program and Water Budget Program Manager. Jaime's presentation will establish USGS historical engagement in water use information reporting, share a vision for where the National Water Use Program intends to be in the long term, and how current activities at local, regional, and national levels can collectively build capacity to quantify, predict, and report comprehensive water use information and enhance our understanding of why water is used at a particular place and time.



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