

**ACWI**  
**Streamflow Information Collaborative (SIC)**  
**Tuesday, August 14, 2018**  
**10:30am Central**

**Phone:** 1-855-547-8255 (toll free), Access Code 74449#  
 1-703-648-4848, Access Code 74449#

**WEBEX:** Please join meeting from your computer, tablet or smartphone.  
<https://global.gotomeeting.com/join/882470341>

First GoToMeeting? Do a quick system check: <https://link.gotomeeting.com/system-check>

Attachment 1 – SIC-Agenda-08142018  
 Attachment 2 – SIC-Minutes-07102018-Draft  
 Attachment 3 – Goodrich-abstract.doc

Time	Topic	Discussion Leader
10:30am	Welcome and Attendance	Ryan
10:35	Call Purpose <ol style="list-style-type: none"> <li>1. Presentation: <i>The USDA-ARS Experimental Watershed Network—Evolution, Lessons Learned, and Moving Forward</i></li> <li>2. Update on Streamflow related activities</li> </ol>	Ryan
10:40	Business Portion	
	Approval of agenda – additions/deletions (Attachment #1) Opportunity to add to the agenda <b>Outcome: Approved agenda</b>	Ryan
	Approval of previous minutes (Attachment #2) <b>Outcome: Approved minutes</b>	Ryan
10:45	SIC Work Items	Mike
10:45	Dave Goodrich, USDA-ARS-SWRC <i>The USDA-ARS Experimental Watershed Network—Evolution, Lessons Learned, and Moving Forward</i> (abstract attached) <b>Outcome: Information Exchange</b>	Dave Goodrich
11:20	Streamflow Outreach/Communication/Activities	Ryan
	Round Robin—Streamflow Information Exchange Topics/speakers for future presentations <b>Outcome: Information Exchange</b>  USGS report: <i>Characterization of peak streamflows and flood inundation from the 2017 flood resulting from Hurricane Harvey</i> <a href="https://pubs.er.usgs.gov/publication/sir20185070">https://pubs.er.usgs.gov/publication/sir20185070</a>  USGS report: <i>Refinement of a regression method for prediction of flow-duration curves of daily streamflow</i> <a href="https://pubs.er.usgs.gov/publication/sir20185072">https://pubs.er.usgs.gov/publication/sir20185072</a>	ALL

	Interstate Council on Water Policy Annual Meeting; October 9-11, 2018; Oklahoma City; Learn more at <a href="http://www.icwp.org/">http://www.icwp.org/</a>	
	SEDHYD 2019 conference—Abstracts due September 1, 2018; Learn more at <a href="https://www.sedhyd.org/2019/">https://www.sedhyd.org/2019/</a>	
	Upcoming Meetings: Next SIC call – September 11, 10:30am central <i>Federated Data Systems in the Information Age</i> , Emily Read, USGS	
11:30am	Adjourn	Ryan
	SIC Meeting—October 9, 10:30am central	
	SIC Meeting—November 13, 10:30am central	

**Attendees:**

Ryan Mueller, Dave Goodrich, Sue Lowry, Charles DuCharme, Brian Beucler, Mike Ellerbe, Michele Eddy, Michael Weller, Meredith Carr, Greg Kruse, Karen Metchis, Mike Woodside

**Presentation:**

Dave Goodrich, USDA-ARS-SWRC

*The USDA-ARS Experimental Watershed Network—Evolution, Lessons Learned, and Moving Forward*

Presentation will be posted on the SIC web site.

A few notes from presentation:

The National Ag Library is being designed now. It will be a web services based tool and will house the data for the LTAR and Experimental Watersheds. It will not contain all data collected—just the core data that are common to most all the locations. It will include some realtime data. The eddy covariance and carbon flux data sets will be housed using the Oak Ridge National Lab service. The Library continues to evolve.

Senate Doc. 59 <https://catalog.hathitrust.org/Record/009069490>

Handbook 224: Field Manual for Research in Agricultural Hydrology (revised 1979)

[https://apps.tucson.ars.ag.gov/dap/dap\\_docs/literature/Blue\\_book.pdf](https://apps.tucson.ars.ag.gov/dap/dap_docs/literature/Blue_book.pdf)

**Abstract**

**THE USDA-ARS EXPERIMENTAL WATERSHED NETWORK – EVOLUTION, LESSONS LEARNED, AND MOVING FORWARD**

David Goodrich, USDA-Agricultural Research Service,  
Southwest Watershed Research Center, Tucson, AZ  
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Abstract --The USDA-Agricultural Research Service's Experimental Watershed Network grew from Dust Bowl era efforts of the Soil Conservation Service in the mid 1930's with the establishment of watersheds in three States; one of which is still in operation. In the mid-50's five centers with intensively instrumented watersheds at the scale of 100 to 700 km<sup>2</sup> were established. Primary network research objectives were to quantify the field-scale and downstream effects of conservation practices and develop rainfall-runoff relationships for design of water conservation structures. USDA-ARS has operated over 600 watersheds in its history and continues to operate roughly 120 watersheds, many of which consist of gauged subwatersheds nested within larger gauged watersheds to enable investigation of scaling. With passage of the Clean Water Act in 1972, research objectives have evolved to add a variety of observations relevant to the water quality issues in their respective regions resulting in a more diverse, but less homogeneous network. The core instrumentation and related long record of high-quality observations have led to initiation of a series of multi-location projects to examine trends and directions of these observations across the network. As a result of their long history, intensive monitoring, and well described processes, the USDA-ARS watersheds have been used extensively in the development and validation of numerous watershed models. In addition, they served, and continue to serve as validation sites for aircraft and satellite based remotely sensed instruments. Many of the USDA-ARS Experimental Watersheds have now joined the Long-Term Agro-ecosystem Research Network (LTAR). This presentation will review major activities and advances derived from the network in addition to discussing some lessons learned in the long-term operation of a national scale network through its evolution from analog to digital instrumentation and internet accessibility.