

# MEMO



DATE: August 3, 2016  
TO: Kansas Regional Advisory Committee Members  
FROM: Margaret Fast  
RE: August 8, 2016 Meeting

900 SW Jackson Street, Suite 404  
Topeka, KS 66612  
Phone: (785) 296-3185  
Fax: (785) 296-0878  
www.kwo.org

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The Kansas Regional Advisory Committee will meet on Monday, August 8th, 2016 at **1:00** in the Kansas Water Office Conference Room, 900 SW Jackson, Suite 404, Topeka. **Please note the time, as the RAC has generally met in the morning.** Free two-hour (and they are strict about the time), on-street parking is available on 9<sup>th</sup> and on Kansas Avenue. There is also a parking garage on the NW corner of 9<sup>th</sup> and Kansas with parking for \$1.00/hour.

The meeting will focus on review of the draft Action Plan on the reservoir storage goals, Goals 1 and 2, and crafting of a draft action plan on the Water Consumption goal, Goal 4.

As a reminder, in preparation for the discussion on reservoir storage, it has been suggested that the RAC members review the Reservoir Roadmap. The Kansas region is addressed in Volume III.

Pages 2 and 3 contain a summary of the chapter, along with recommendations.

Page 11 shows storage lost, not just in the federal reservoirs, but in all lakes with some public water supply storage.

Page 14 contains information pertinent to the conservation goal, Goal 4.

Page 16 starts the reservoir operation issue discussion.

Page 19 – 28 contains detailed information on sediment loading.

Page 29 links to the streambank reports.

Page 30 – 34 focuses on watershed structures (dams).

Page 35 – 37 summarizes what we know about reservoirs not built.

Here is the link.

[http://www.kwo.org/Reservoirs/ReservoirRoadmap/Rpt\\_Reservoir\\_Roadmap\\_Volume\\_III\\_KLR.pdf](http://www.kwo.org/Reservoirs/ReservoirRoadmap/Rpt_Reservoir_Roadmap_Volume_III_KLR.pdf)

Volume II of the Reservoir Roadmap is a little dated but summarizes some work on a review of potential needed statutory changes and costs related to reservoirs.

[http://www.kwo.org/Reservoirs/ReservoirRoadmap/Rpt\\_Reservoir\\_Roadmap\\_Volume\\_II.pdf](http://www.kwo.org/Reservoirs/ReservoirRoadmap/Rpt_Reservoir_Roadmap_Volume_II.pdf)

Also review the Draft Action Plan for the reservoir storage goals that are included with the meeting materials.

Enclosed please find the following meeting materials:

- Agenda
- Meeting notes from July 7
- Draft Action Plan on Storage: Goals 1 and 2
- Kansas Regional Goals

If you have any questions or need additional information prior to the meeting, feel free to contact me at [Margaret.fast@kwo.ks.gov](mailto:Margaret.fast@kwo.ks.gov) or give me a call at 785/296-0865. I look forward to meeting with you!

**Meeting Agenda**  
**Kansas Regional Advisory Committee**  
**August 8, 2016, 1:00 p.m.**  
**Kansas Water Office, 900 SW Jackson, Suite 404, Topeka**

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1. Welcome/Introductions
2. Review July 7 Meeting Notes
3. Update from July 13 Telemeeting - Report from KTC meeting - Katie Miller
4. Review, edit and approve the Action Plan for Goals 1 and 2 – Reservoir Storage
5. Focus on Goal 4 – Water Consumption
  - a. Follow-up on Webinar
    - i. Additional Information needs?
    - ii. Actions Needed
  - b. Craft Draft Action Plan
6. Public Comments \*
7. Agency Comments
8. Next Meeting:
  - a. KS RAC
    - i. September 8, 9:30 – KWO
    - ii. October 6, 9:30 – Westar Professional Development Center
  - b. KWA
    - i. August 30-September 1
    - ii. October - TBD

\*Public Comments are limited to 3-5 minutes and limited to issues related to regional goals, action plans, or other water resources issues and concerns.

Underlined Items require action.



# Kansas Regional Advisory Committee Meeting Notes

**July 7, 2016**  
**Kansas Water Office Conference Room**

**Members Attendance:**

<i>Name</i>	<i>City</i>	<i>Category</i>	<i>Term</i>	<i>Present</i>
Marlene Bosworth	Sabetha, KS	Conservation/Environment (cc)	2019	Yes
Brad (William) Bradley	Overland Park, KS	Fish and Wildlife	2017	No
Glenn Brunkow	Westmoreland, KS	Agriculture (cc)	2017	No
Dawn Buehler	Eudora, KS	Recreation	2019	Yes
Blake Follis	Topeka, KS	At Large Public (cc)	2019	Yes
Sarah Hill-Nelson, Chair	Lawrence, KS	Industry/Commerce	2019	Yes
Heath Horyna	Topeka, KS	Industry/Commerce (cc)	2017	Yes
Daniel Howell	Frankfort, KS	Agriculture	2017	Yes
Darci Meese	Lenexa, KS	Public Water Supply (cc)	2019	Yes
Katie Miller	Junction City, KS	Conservation/Environment	2019	Yes
William Ramsey	Leawood, KS	Planning, Restoration and Protection	2017	Yes
Sharon Schwartz	Washington, KS	WRAPs	2019	No
Greg Wilson	Olathe, KS	Water Assurance District	2017	Yes

**Others in attendance:**

<i>Name</i>	<i>Town</i>	<i>Representing</i>
Allyn Lockner	Topeka	Himself
Katie Tietsort	Topeka	Ks Dept. of Ag
Tom Stiles	Topeka	Ks Dept. of Health and Environment
Amanda Reed	Topeka	Ks Dept. of Health and Environment
Galen E Biery	Topeka	Ks River Water Assurance District #1
Rob Reschke	Manhattan	KS Dept. of Ag, Division of Conservation
Roberta Spencer	Holton	Jackson Co Conservation District
Nina Meyer	Washington	Washington Co Conservation District
Amy Bott	Washington	Washington Co Conservation District
Margaret Fast	Topeka	Kansas Water Office
Tracy Streeter	Topeka	Kansas Water Office
Ginger Harper	Topeka	Kansas Water Office
Kirk Tjelmeland	Topeka	Kansas Water Office
Brad Loveless	Topeka	Westar/Kansas Water Authority
Thomas Topi	Kansas City	US Army Corps of Engineers

**Welcome and Introductions:**

Self-introductions were made.

**June 17 Meeting Note Review:**

The meeting notes were accepted as written.

**Membership:** Sarah Hill-Nelson, Lawrence, KS; Marlene Bosworth, Sabetha, KS; Brad Bradley, Overland Park, KS; Glenn Brunkow; Dawn Buehler, Eudora, KS; Blake Follis, Topeka, KS; Heath Horyna, Topeka, KS; Daniel Howell, Frankfort, KS; Darci Meese, Lenexa, KS; Katie Miller, Wichita, KS; William Ramsey, Leawood, KS; Sharon Schwartz, Washington, KS; Greg Wilson, Olathe, KS  
**KWO Planner:** Margaret Fast, 785-296-3185; [margaret.fast@kwo.ks.gov](mailto:margaret.fast@kwo.ks.gov)



# Kansas Regional Advisory Committee Meeting Notes

## Report from Kansas Technical Committee meeting – Katie Miller

Katie attended the NRCS Kansas Technical Committee subcommittee on EQIP on behalf of the RAC as per the Kansas Basin Watershed Management System. The agencies that would constitute the Leadership committee were also in attendance. There was discussion about priorities within the Kansas Region and across the state. Katie agreed to continue to work with the agencies to develop a recommendation to the KTC, which meets July 20. Katie will distribute a proposal for review by the RAC; a conference call meeting to discuss was scheduled for July 13, 8:30 am.

## Focus on Goals 1 and 2 Action Plan Development

Earl Lewis had prepared a draft for discussion as follow-up from the webinar he presented on June 30 to begin the discussion of the reservoir storage goals. The draft as revised during discussion is attached to these notes.

The committee was encouraged to review the Reservoir Roadmap prior to the August 8 meeting, focusing on the Kansas Basin Section and Volume II. The links are:

[http://www.kwo.org/Reservoirs/ReservoirRoadmap/Rpt\\_Reservoir\\_Roadmap\\_Volume\\_II.pdf](http://www.kwo.org/Reservoirs/ReservoirRoadmap/Rpt_Reservoir_Roadmap_Volume_II.pdf)

[http://www.kwo.org/Reservoirs/ReservoirRoadmap/Rpt\\_Reservoir\\_Roadmap\\_Volume\\_III\\_KLR.pdf](http://www.kwo.org/Reservoirs/ReservoirRoadmap/Rpt_Reservoir_Roadmap_Volume_III_KLR.pdf)

The entire Reservoir Roadmap, as well as a variety of additional information about reservoirs can be found here:

<http://www.kwo.org/Reservoirs.html>

The August meeting will have a focus of review and possible approval of the draft action plan for Goals 1 and 2.

## Review of KDHE information on funding needs for nutrient and HAB control

Amanda Reed reviewed the Milford WRAPS plan to determine costs for implementation of nutrient reduction BMPS. The presentation she used is posted on this page: <http://www.kwo.org/Regional-Advisory-Committees.html>

As a result of the discussion, the HAB action plan for Goal 5 was revised to include funding needs. In addition, the sedimentation action plan for goal 3 was revised to assure consistency in language.

## Overview of Huntzinger Proposal: An example of an implementation project for Kansas Basin Watershed Management System

The strategy for managing Corps land to protect Clinton reservoir had been presented by Tom Huntzinger to the Blue Ribbon Funding Task force and was included in the mailing materials for the July 7 RAC meeting. This is the type of proposal that could be evaluated and prioritized within the Kansas Basin Watershed Management System. Since the proposal dealt with public lands, and that is an action item in both the sedimentation and HAB goal action plans, Tracy Streeter mentioned that he had initiated discussion with KDWP, the agency that manages the land. He suggested it may be useful for the RAC to invite the KDWP to provide information on how public lands are handled now. The committee agreed. KWO staff was asked to determine the best time for that presentation, in view of the other work the RAC is doing on goal action plan development.

## Public Comments:

Allyn Lockner made a comment that the funding needs suggested in the action plans should state that they be adjusted for inflation. The RAC discussed and determined that wasn't needed. He also commented that there should be a review of the needs to maintain reservoir level before or along with undertaking dredging. The RAC determined this was already covered in the draft action plan and would have further discussion at the next meeting.

## Next Meetings:

**Membership:** Sarah Hill-Nelson, Lawrence, KS; Marlene Bosworth, Sabetha, KS; Brad Bradley, Overland Park, KS; Glenn Brunkow; Dawn Buehler, Eudora, KS; Blake Follis, Topeka, KS; Heath Horyna, Topeka, KS; Daniel Howell, Frankfort, KS; Darci Meese, Lenexa, KS; Katie Miller, Wichita, KS; William Ramsey, Leawood, KS; Sharon Schwartz, Washington, KS; Greg Wilson, Olathe, KS  
**KWO Planner:** Margaret Fast, 785-296-3185; [margaret.fast@kwo.ks.gov](mailto:margaret.fast@kwo.ks.gov)



## Kansas Regional Advisory Committee Meeting Notes

July 13, 8:30 am – teleconference re: KTC input

August 3, 8:30 am - Webinar. Focus on Goal 4 – conservation.

August 8, 1:00 – RAC meeting, KWO conference Room. Finalize Action Plans for goals 1 and 2 (Reservoir Storage). Discuss crafting action plan for goal 4 (Conservation).

August 31-September 1 – KWA meeting, Emporia. Sarah Hill Nelson plans to attend

September 8, 9:30 am – RAC meeting, KWO conference room. Continued discussion and possible action on Goal 4.

October 6, 9:30 am – RAC meeting, Westar Professional Development Center. All Goal Action Plans finalized.

### **Committee To Do Items:**

1. Review Reservoir Road map (see links above)
2. Review draft action plan for goals 1 and 2 (action plan drafted by Earl Lewis and discussed July 7).

**Kansas Region  
Reservoir Storage Goal Action Plan  
Discussed by the Kansas Regional Advisory Committee  
July 7, 2016**

**Goal:**

**Increase water storage capacity and availability in federal reservoirs. By 2020, purchase all available storage in federal reservoirs to secure an adequate water supply for the region. By 2025, evaluate the ability to raise the conservation pool in each federal reservoir.**

- Complete study of economic impacts when Milford, Tuttle Creek and Perry reservoirs are drawn down due to Missouri River navigation support.
- Working with Kansas River Water Assurance District, KDHE, KDWPT and other stakeholders, determine the amount of storage necessary within Milford and Perry reservoirs to meet instream purposes.
- Complete necessary background work to support request to reallocate storage from water supply to water quality in Milford and Perry reservoirs.
- Determine amount of additional annual costs for calling into service the remaining water supply storage not needed to meet instream purposes and request funding.
- When funding is secured, call into service storage not to be included within reallocation request.
- Request reallocation of remaining storage from water supply to water quality.
- Using existing modeling, determine amount of additional yield that can be gained in each reservoir by permanently raising the conservation pool by 1, 2 and 3 feet.
- Working with Kansas River Water Assurance District, KDHE, KDWPT, KDA-DWR and other stakeholders, begin NEPA evaluation of impacts and benefits at the reservoirs with increased pool level
- Work with the U.S. Army Corps of Engineers (USACE) to determine rough updated costs of reallocation and purchase of storage.
- Start process to secure federal funding for reallocation study.
- Where feasible and appropriate based on cost and impact evaluation, request Corps of Engineers reallocate storage from flood control to water supply storage.
- The Kansas RAC encourages the Kansas Water Office to gather data to determine steps to maintain consistent storage levels at specific reservoirs. As a long term goal, KWO should incorporate existing studies and information to study the possibility of future dredging and other measures by the State of Kansas on a more consistent basis to maintain storage.
- The Kansas RAC commits to a future action plan to improve coordination with the USACE on reservoir releases, management plans, and future actions to address water quality and quantity issues.

**Goal:**

**By 2050, explore additional storage possibilities such as construction of multipurpose lakes so that new water sources can be brought online.**

- Use the existing Kansas Water Office “Reservoir Roadmap” as a guide for planning future storage in the Region.
- Create an inventory of existing reservoir sites not built along with pertinent data.
- Contract with a consulting firm to determine the feasibility of building larger reservoir sites based on the “New Site Selection Criteria” (See Table below).
- Working with KDA-DOC, NRCS and local watershed districts, identify existing watershed structures that are in need of restoration and have potential to be made larger and provide supplemental water supply.
- Working with KDA-DOC, NRCS and local watershed districts, identify watershed dam sites that were not constructed that could be made larger and provide supplemental water supply.
- Work with Kansas River Water Assurance District, local public water suppliers and KDA-DWR to determine how additional water supply storage in watershed reservoirs would be operated in conjunction with broader reservoir system.
- Seek partnership and funding opportunities to rehabilitate existing watershed reservoirs and/or construct new reservoirs.

<b>New Site Selection Criteria</b>	
Site storage volume	Railroads
Site surface area	Gas/oil fields/wells
Volume/surface area ratio	Geologic concerns
Shoreline length	Geology - Dam Site
Dam volume (using basic 3:1 slope)	Area demand
Towns	Distance from demand
Highways	Homesteads
Exceptional state waters	Land use inundated
Critical state habitats	Stream miles inundated
Major gas lines	Archeological interest
Major electrical transmission lines	Water quality considerations (SO <sub>4</sub> , Cl) and other nutrients (Potential for harmful algal blooms)
Inflow to site or main stem flow for offstream storage sites	Other criteria identified through public input
Potential Sedimentation Rate	

