Kansas Water Authority

Conference Call/GoToMeeting
June 17, 2020

Options For Audio:

1) **Use Computer Audio via GoToMeeting**

or

1) **Use your phone:**

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CONFERENCE CALL/MEETING AGENDA

Time	*Agenda Item*	*Presenter*	*KWA Advice*	*KWA Decision*	*Page No.*
2:00 pm	**Call to Order/Roll Call**	Connie Owen	--	--	--
2:05 pm	**Approval of Meeting Minutes**	Connie Owen			
	May 20, 2020 Meeting (Conference Call/GoToMeeting)			X	2
2:10 pm	**KWA PWS Committee**	John Bailey			4
	CY 2021 Water Marketing Rate	John Bailey		X	
2:20 pm	**KWA RAC Operations Committee**	Jeremiah Hobbs			5
	RAC Membership	Jeremiah Hobbs		X	
2:30 pm	**Vision/Kansas Water Plan Update**	Bobbi Luttjohann	X		
	Schedule for KWP Update & Outline of Sections	Bobbi Luttjohann	X		6
	Neosho Regional KWP Template *DRAFT*	Bobbi Luttjohann	X		
	Aquatic Nuisance Species (ANS) Section *DRAFT*	Kirk Tjelmeland	X		
	MDC RAC Goals/Action Plan revisions *DRAFT*	Keri Harris Angela Anderson	X		8
	Missouri RAC Goals/Action Plan revisions *DRAFT*	Chris Griffin Kirk Tjelmeland	X		9
	Upper Republican RAC Goals/Action Plan revisions *DRAFT*	Mike Schultz Keadron Pearson	X		12
3:20 pm	**KWA Budget Committee**	Mike Armstrong	X		13
	SWPF Budget Discussion/Update	Cara Hendricks	X		
3:35 pm	**Federal Updates**				14
	Missouri River 2019 Survey Results	Matt Unruh	X		
	WRDA Update	Matt Unruh	X		
3:45 pm	**Federal Cooperative Agreements (USGS)**	Josh Olson		X	15
	Streamgaging Network	Josh Olson		X	
	Kansas River Water Quality Monitoring	Josh Olson		X	
	Neosho River Sediment Monitoring	Josh Olson		X	
	WQ Monitoring on Big Blue River below Tuttle Creek Lake	Josh Olson		X	
	WQ Monitoring on Republican River at Clay Center	Josh Olson		X	
3:55 pm	**Director's Report**	Earl Lewis	X		
4:05 pm	**New Business**				
4:10 pm	**Adjourn**				

Call to Order/Roll Call

Call to Order/Roll Call; *Connie Owen*

Minutes

Presented by: Connie Owen

Action Needed

Approval of minutes from May 20, 2020*

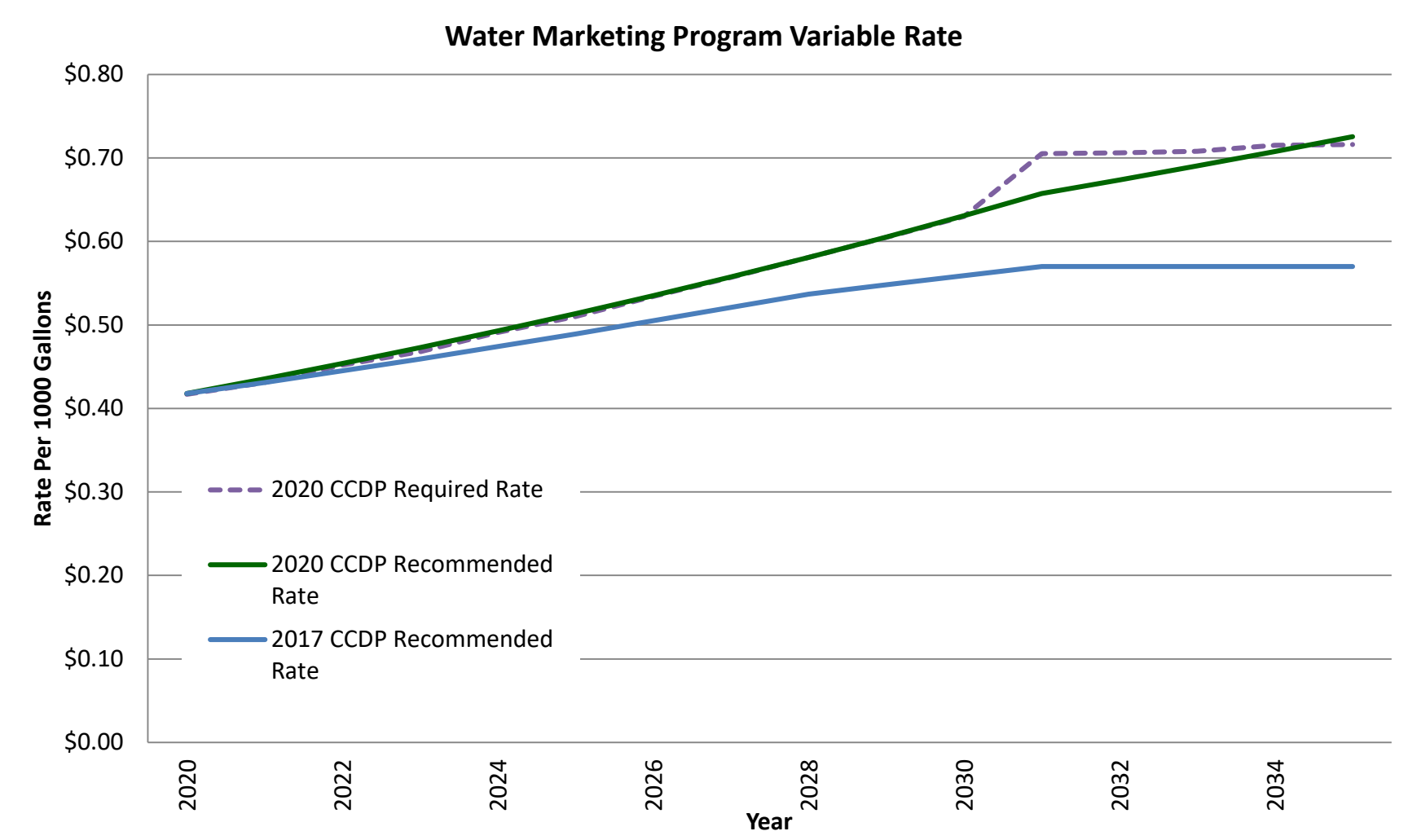
*GoToMeeting/Conference Call

KWA Public Water Supply Committee

Presented by: John Bailey

- Action Needed

CY 2021 Water Marketing Rate



Calendar Year	2020	2021	2022	2023	2024	2025
Variable Rate (2017 CCDP)	$0.418	$0.431	$0.445	$0.459	$0.474	$0.489
Variable Rate (Recommended)	n/a	**$0.436**	$0.454	$0.473	$0.493	$0.513
Annual % Increase	n/a	4.2%	4.2%	4.2%	4.2%	4.2%
Increase from 2020 rate		$0.018	$0.018	$0.019	$0.020	$0.021
Change from 2017 plan		$0.005	$0.009	$0.014	$0.019	$0.024

KWA RAC Operations Committee

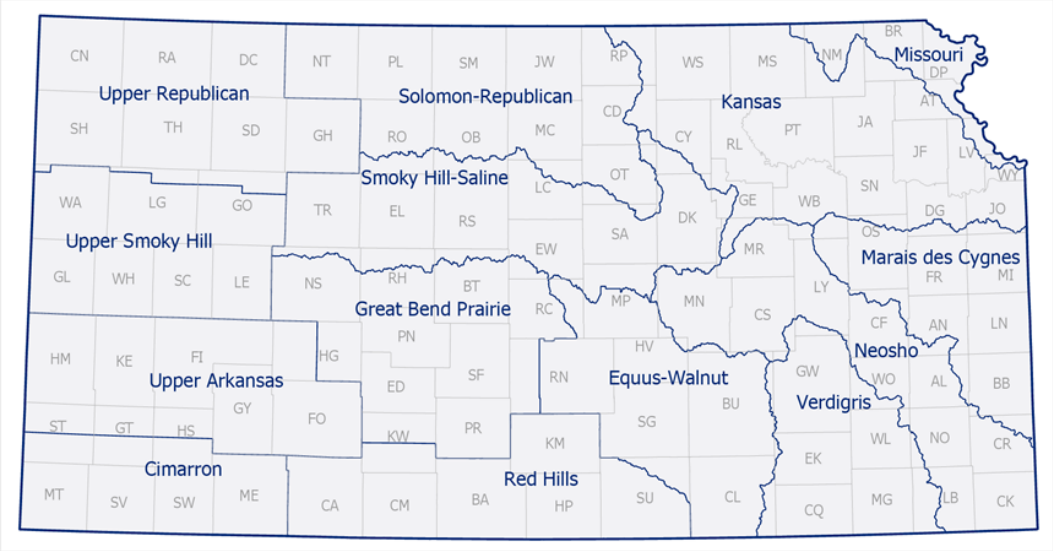
Presented by: Jeremiah Hobbs

Action Needed

RAC Member Application Approval

KWA RAC Operations Committee

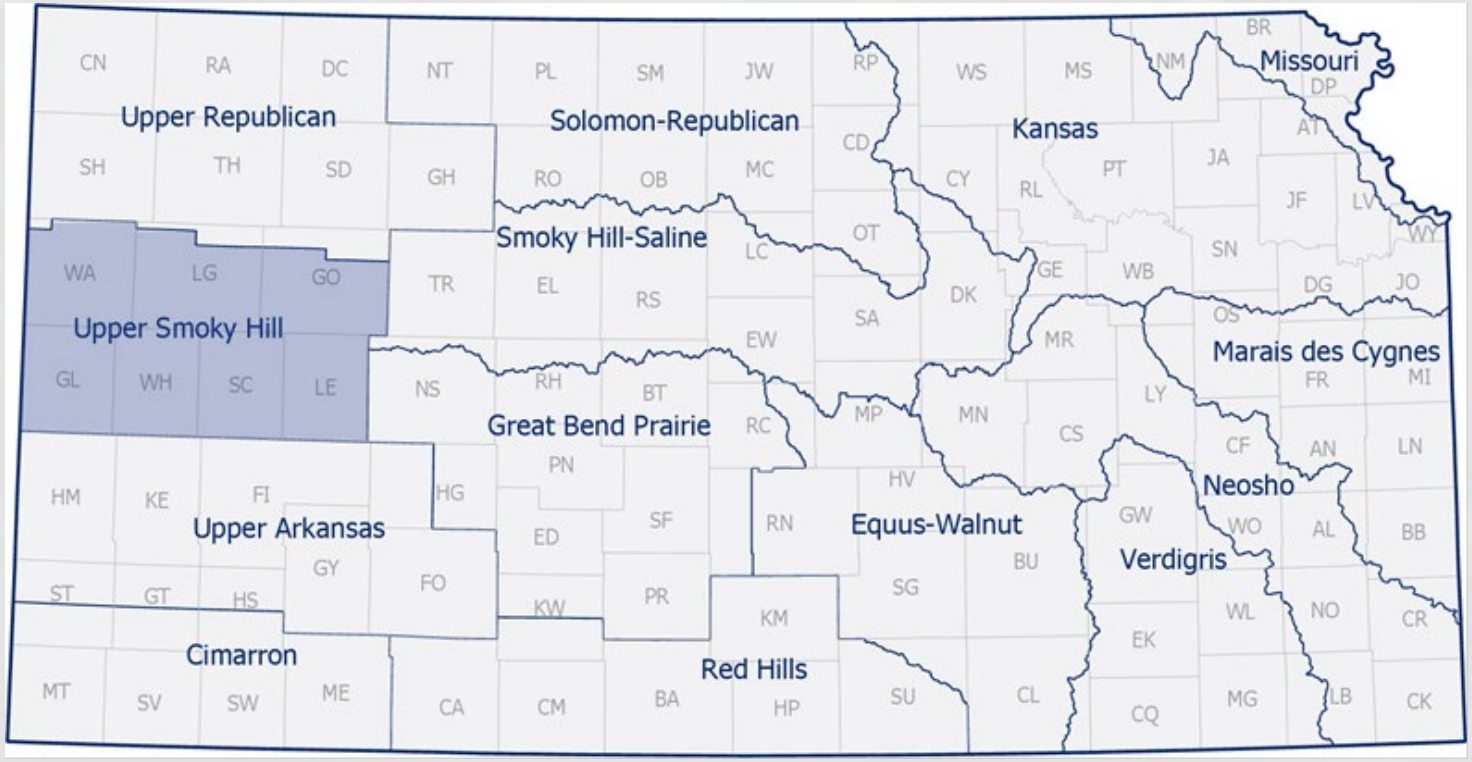
- Chair: Jeremiah Hobbs
- KWA Members:
  - David Stroberg
  - Allen Roth



- RAC Members:
  - Fred Jones (Upper Arkansas RAC)
  - Lori Kuykendall (Marais des Cygnes RAC)

KWA RAC Operations Committee

- Membership
  - Application approval – Upper Smoky Hill RAC



Upper Smoky Hill RAC

Membership			
Name	**City**	**Category**	**Term**
Frank Mercurio (Chair)	Scott City, KS	Conservation/Environment (cc)	2023
Farrin Watt (Vice-Chair)	Leoti, KS	Agriculture (cc)	2021
Alicia Allen	Tribune, KS	Irrigation	2023
Kyle Spencer	Scott City, KS	Groundwater Management	2021
Perry Nowak	Scott City, KS	Industry/Commerce (cc)	2023
VACANT	VACANT	Financial	2021
VACANT	VACANT	At Large Public (cc)	2021
VACANT	VACANT	Public Water Supply (cc)	2023
VACANT	VACANT	Agriculture Industry	2023

Louis “Bo” Parkinson

- Current:
  - Applied for PWS (cc) category
  - Is on Scott City’s City Water Commission

- Recommendations:
  - Approve application for membership to fill PWS (cc) category (expiration date 2023)

Upper Smoky Hill RAC

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VACANT	VACANT	At Large Public (cc)	2021

Kansas Water Plan Update

Presented by: Bobbi Luttjohann

Updating the KWP

- At the 5 year mark:
  - Now is the time to evaluate progress made on implementation
  - Identify new water resource issues
    - Including ANS & HAB
    - Regional Sections (Neosho)
  - Update & develop new Regional Goals & Actions Plans
  - Incorporate these items into the KWP

2020 KWP Outline

- **Introduction & Background** - presents an introduction to water planning and management in the state to address current water resources issues and to plan for future needs.
- **Statewide and Regional Water Assessment**-is an assessment of the current state of water resources in Kansas including demand, supply, water quality, and infrastructure.
- **Guiding Principles, Goals, and Priorities -** provides overarching principles, goals and priorities that guide how the KWP will address the State's future water needs.
- **Regional Planning Areas & Action Plans -** provides regional descriptions, and the goals and action plans developed by each RAC**.**
- **Kansas Water Plan Atlas**

2020 KWP Sections

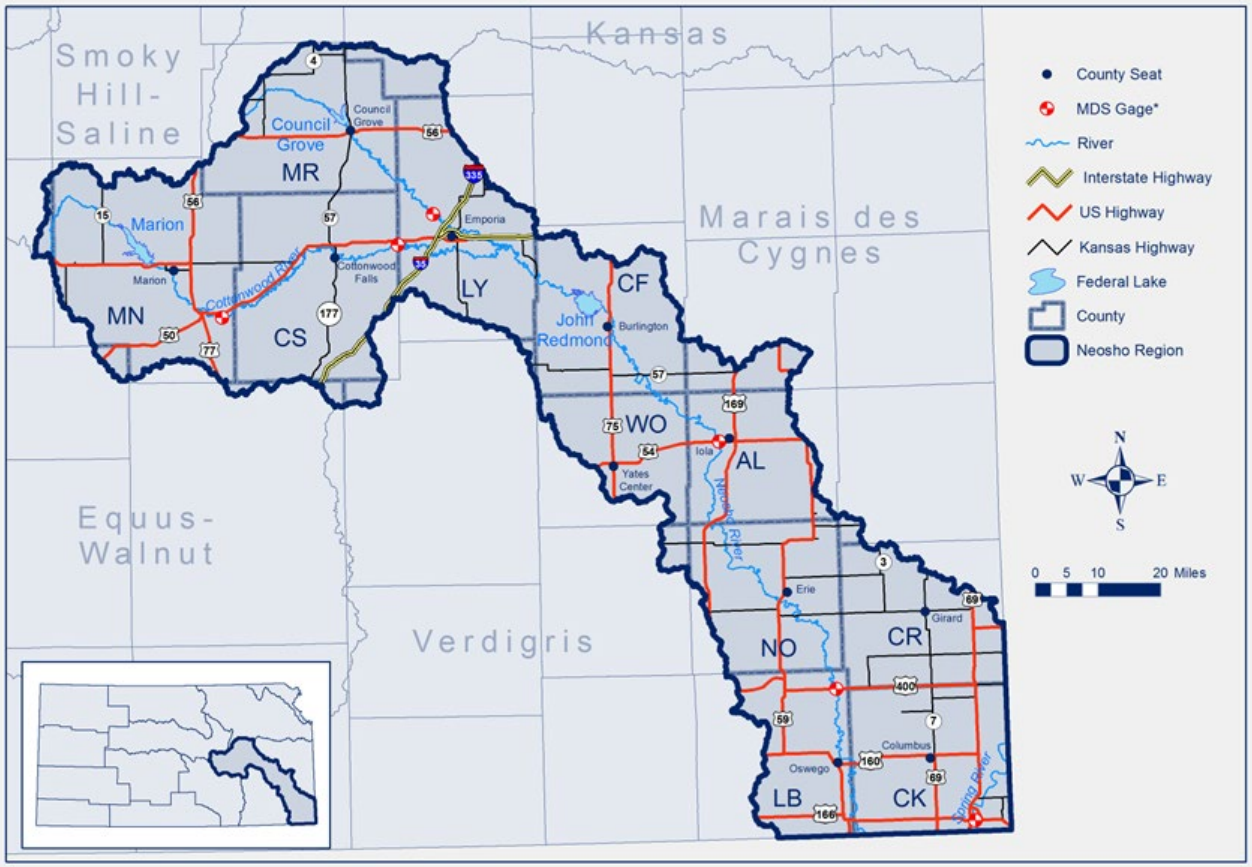
- Link to KWP Outline on KWO website

2020 State Water Plan Update Format by Region

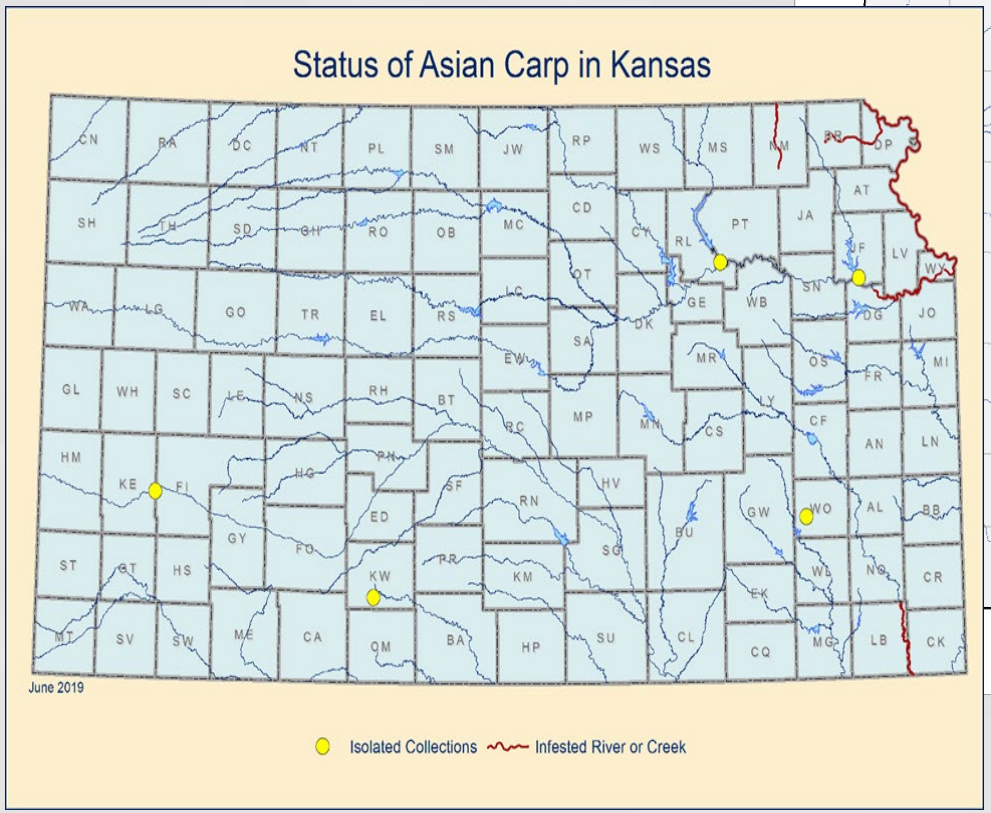
REGION

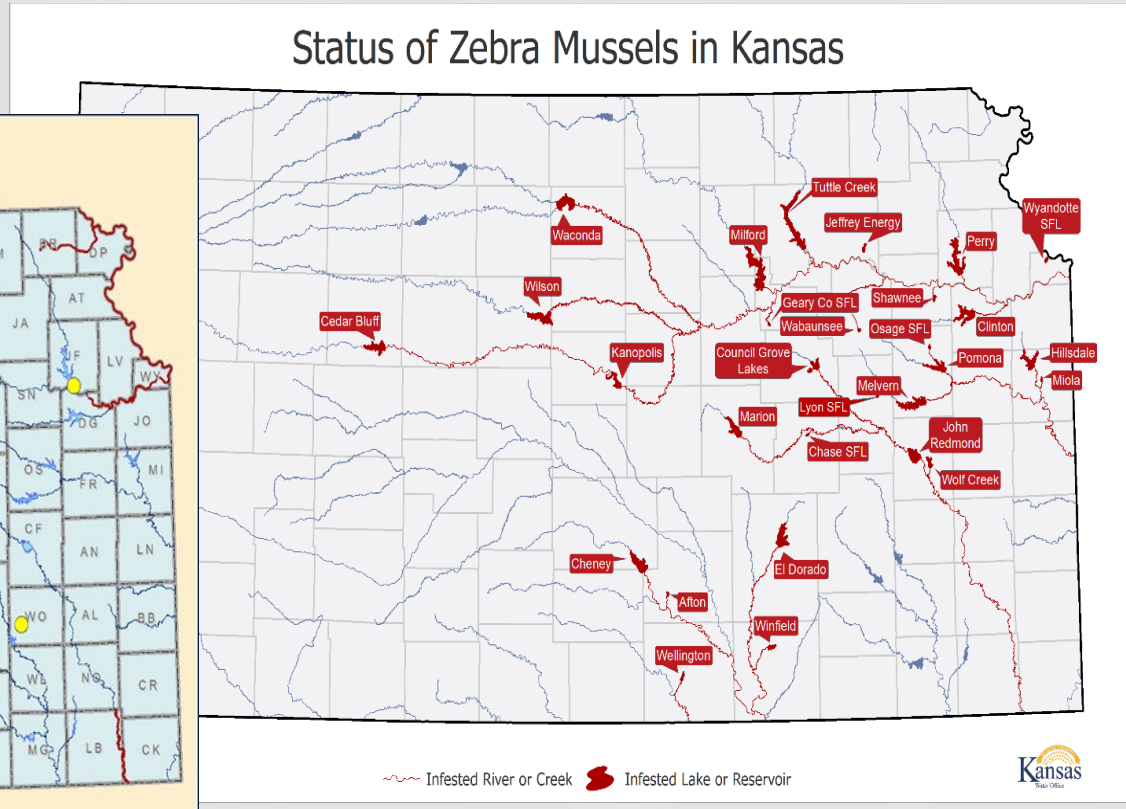
5-YEAR UPDATE	BACKGROUND INFORMATION	Main Document
	GOALS & ACTION PLANS Includes Total Need & Metrics	
ANNUAL UPDATE	PROGRESS & BUDGET Tied to Regional Needs/Metrics	Appendix
	STATE OF THE RESOURCE	Standalone Publication *KWO Website
	INFO-GRAPHICS *Udpated as needed	

Neosho Regional Section



Aquatic Nuisance Species





Timeline

June - August

- RACs working on their goal and action plan revisions
- KWO staff revising and updating KWP sections
- Meet with agencies to discuss KWP & collect feedback
- Update the KWA with pieces of the KWP at each meeting
- Revised RAC goals & action plans due in August
- Drafting revised KWP with input from:
  - KWA
  - RACs
  - Agencies
  - Public

Timeline

September - November

- Present a draft to the KWA in October (feedback/revisions)
- Present general information about update at the November Governor's Conference in Wichita

Timeline

December:

- Final Draft KWP presented to the KWA (possible approval)
- Revise KWP based on recommendations (if not approved)
- Hold Public Hearing (if approved)

Timeline

January 2021:

- Presentation of revised and final KWP to the KWA for approval
- Hold Public Hearing
- Post on the KWO webpage

Regional Goals and Action Plans

- Marais des Cygnes RAC
- Missouri RAC
- Upper Republican RAC

Marais des Cygnes RAC

Keri Harris – Chair

Priority Goal #1: Reduce cumulative sediment loads entering Melvern Lake, Pomona Lake, and Hillsdale Lake by 10 percent every 10 years to extend the life of existing infrastructure.

Action Steps:

- A collaboration between the Regional Advisory Committee (RAC), local producers, local WRAPS groups, local conservation districts, regional public Water Suppliers (PWS), the Kansas Water Office (KWO), the Kansas Department of Health and Environment (KDH&E), and the Kansas Department of Agriculture-Division of Conservation (KDA-DOC) will secure funding and work to treat priority cropland, with no-till practices, cover crops, and other sedimentation and nutrient reduction farming practices by 2030 in the Marais des Cygnes Region above Melvern Lake, Pomona Lake, and Hillsdale Lake.

MdC RAC Priority Goal #1 con't

- This collaboration will provide education and share information concerning water and soil conservation and nutrient and sedimentation reduction, and demonstration farms will be established in the region above these three reservoirs.
- Encourage state and federal entities to participate in best management practices above federal reservoirs on state and federal lands and create a demonstration farm.
- The KWO will create a baseline sedimentation rate and review the sedimentation rate changes of these three reservoirs by conducting bathymetric surveys every 5 years to monitor the sedimentation rate and the progress and benefit of sedimentation reduction practices. The KWO will work to secure funding for this program.
- The KWO will evaluate possible technologies that may be feasible to remove sediment from the reservoirs.

MdC RAC Priority Goal #2

Priority Goal #2: Ensure water supply storage in the Marais des Cygnes Region is able to supply for 110% of the projected demands through the year 2050.

Action Steps:

- The KWO will refine population and demand growth projections to ensure accurate projections are being utilized.
- The KWO will evaluate the need and feasibility of creating an interconnection with municipalities within an adjacent region to be a backup water supply source.
- The RAC and the KWO will work with the Kansas Rural Water Association (KRWA) through their technical assistance contract to identify PWS that may not be sufficient to meet projected demands.
- The collaboration referenced in the Action Steps for Goal 1 will provide education and share information concerning water and soil conservation and water consumption reduction for the Marais des Cygnes Region.
- The KWO will evaluate possible technologies that may be feasible to remove sediment from the reservoirs if there becomes a need to in order to maintain and protect water supply.

MdC RAC Priority Goal #3

Priority Goal #3: Continually work to prevent the spread of Aquatic Nuisance Species (ANS), including Zebra and Quagga mussels, into Kansas Lakes that are not currently infested, by working with the agencies focused on ANS.

Action Steps:

- The KWO and the RAC will work to prevent the spread of ANS into Kansas Lakes that are not currently infested, by working with the Kansas Department of Wildlife, Parks, and Tourism (KDWP&T) and the US Army Corps of Engineers (USACE) to install three Watercraft Inspection and Decontamination stations near the federal reservoirs within the Marais des Cygnes Region.
- The RAC will work with the KDWP&T and USACE on an ongoing basis to provide education for lake users concerning the spread of ANS and how to prevent it.
- The RAC will encourage funding for the ANS Program through the State Water Plan Fund (SWPF).

Missouri RAC

Chris Griffin – Chair

Priority Goal #1: Since groundwater quality is not well known, compile existing and collect additional data over the next 5 years to establish a baseline. Within 3 years after the baseline is established, a plan to implement best management practices will be developed to maintain and improve existing conditions. Monitoring and reevaluation of groundwater quality conditions and should continue at 5 year intervals.

Priority Goal #3: Collect additional information to improve safe yield estimate of groundwater and tributary streams within 3 years. Safe yield should be continuously monitored.

Missouri RAC Action Plans

Evaluate what is known about groundwater quantity and quality in glacial, alluvial and bedrock aquifers in the Missouri Region.

- Any and all available information about groundwater quality and quality will be collected and compiled.
- Digital database from the collected historical and online existing data would be constructed.
- Digital maps of updated bedrock surface topography, saturated aquifer thickness, pre-glacial drainage ways, water use, and groundwater quality from digital databases would be prepared
- An assessment report would be prepared that includes:
  - A determination of groundwater in storage and groundwater quality conditions in the glacial, alluvial and bedrock aquifers in the area.
  - A determination of the greatest needs for collection of additional data.
  - Recommendations on the need for, and number and location of wells to allow for well level and quality monitoring on a continuing basis.
- This phase would be conducted by the KGS for at a cost of $50,000. The work would take 12 months, beginning August 2016.

Missouri RAC Action Steps Con't

- Collection of additional data and re-evaluation of groundwater information
  - Based on needs as determined in the evaluation phase, obtain a scope of work on collection of additional data that would improve the characterization of the glacial, alluvial and bedrock aquifers. Main expected field activities would include: drilling, hydraulic testing, and groundwater sampling and analysis.
  - Enter new data into databases developed in the evaluation phase.
  - Re-evaluate groundwater recharge estimates at a more detailed scale than the currently available potential annual recharge estimates based on soils.
  - Combine existing and new data to establish safe groundwater yields and a groundwater quality baseline.
  - On the basis of future climate and water usage conditions, establish a plan to periodically update safe yield estimates of groundwater resources.
  - This phase would be a minimum of 18 months, as determined in the evaluation phase. Cost would be determined in Phase 1.

Missouri RAC Action Steps Con't

- Maintain and Improve groundwater quality conditions
  - Evaluate groundwater quality protection practices based on needs as determined in the assessment.
  - Within 3 years after the baseline is established, a plan to implement best management practices will be developed to maintain and improve existing conditions.

- Ongoing monitoring and evaluation
  - Expand groundwater level monitoring wells as determined during Assessment phase.
  - Monitoring and reevaluation of groundwater quality conditions should continue at 5 year intervals.

Upper Republican RAC

Mike Schultz – Chair

Priority Goal #1: In collaboration with other water agencies, the RAC will assist in developing and recommending a water conservation management plan that provides maximum flexibility while reducing overall actual use throughout the Upper Republican Basin to extend the aquifer life and economic wellbeing. To adopt conservation measures to lessen economic impacts and allow user transition, the Conservation Plan shall address all types of use while considering flexibility tools and overall actual reduction.

Action Steps:

- Support GMD 4 LEMA plan.
- Look outside the box for other possible funding sources necessary to improve water efficiency.
- Find samples of water conservations plans for the Upper Republican RAC to consider.

Upper Republican RAC Goals con't

Priority Goal #2: In collaboration with other water agencies, the RAC will assist in enhancing current efforts on education of all water users for all age groups on sources of supply, water quality, quantity of supply, best management practices, etc. to help stakeholders understand, conserve and extend the life of the aquifer.

Action Steps:

- Continue to support KWO, KDA, GMD 4, and other entities in increased education of water technology farms.
- Support KDA in education of WCAs.
- Work with NRCS to evaluate effectiveness of RCPP program and find efficiencies.
- Participating in events for education of water conservation, that involve water agencies and schools.
- Support GMD 4 on the development of an irrigator/education program.

Upper Republican RAC Goals con't

Priority Goal #3: In collaboration with other water agencies, the RAC will encourage the Republican River Compact administration to maintain compliance in the Republican River Basin.

Action Steps:

- Ensure KDA continually updates the RAC on the Republican River Compact, especially if any changes occur within the area.

Priority Goal #4: In collaboration with other water agencies, the RAC will actively encourage all water users to increase utilization and adoption of water conservation technologies and practices.

Action Steps:

- Support and promote conservation programs that offer incentives such as water savings technology cost-share programs, water technology farms, LEMA's, and increased data collections and disseminations.
- Actively assist in seeking annual funding to ensure successful achievement of goal.

Upper Republican RAC Goals con't

Priority Goal #5: In collaboration with other water agencies, the RAC will work to increase awareness about source water protection to improve the long-term water quality in the region.

Action Steps:

- Support KDHE to help establish a baseline potable of water quality within the region.

KWA Budget Committee Update

Presented by: Mike Armstrong

- June Committee Meetings
- Next Steps

KWA Budget Committee Update

June Committee Meetings: 6/12 & 6/16

<u>Agenda/Discussion Items</u>

- Brief overview of State Water Plan Fund (Cara Hendricks, KWO)
- Review of State Water Plan Fund (SWPF) Budget Process/Timeline (Cara Hendricks, KWO)
- Kansas Water Plan Budget Guidelines (Mike Armstrong, Chair)
- Overview of SWPF Programs/Projects by Category (Agency representatives; KWO, KDHE, KDA)
  - Groundwater Initiatives
  - Water Quality
  - Reservoir Water Supply & Sedimentation

KWA Budget Committee Update

Next Steps

- KWO staff will coordinate with each agency to provide consistent information across programs including:
  - How does the agency measure success?
  - How would the agency prioritize its programs?

Early July

- Committee meets to review information from agencies

Late July

- Committee will review feedback from the RACs based on:
  - What is currently funded for each of the programs
  - How much is spent in each region by program
- Consider FY 2022 funding scenarios based on agency recommendations and RAC input
- Provide FY 2022 SWPF budget recommendations to KWA at August meeting

Federal Updates

Presented by: Matt Unruh

- Missouri River 2019 Survey Results
- WRDA Update

Federal Cooperative Agreements (USGS)

Presented by: Josh Olson

- Action Needed

Streamgaging Network

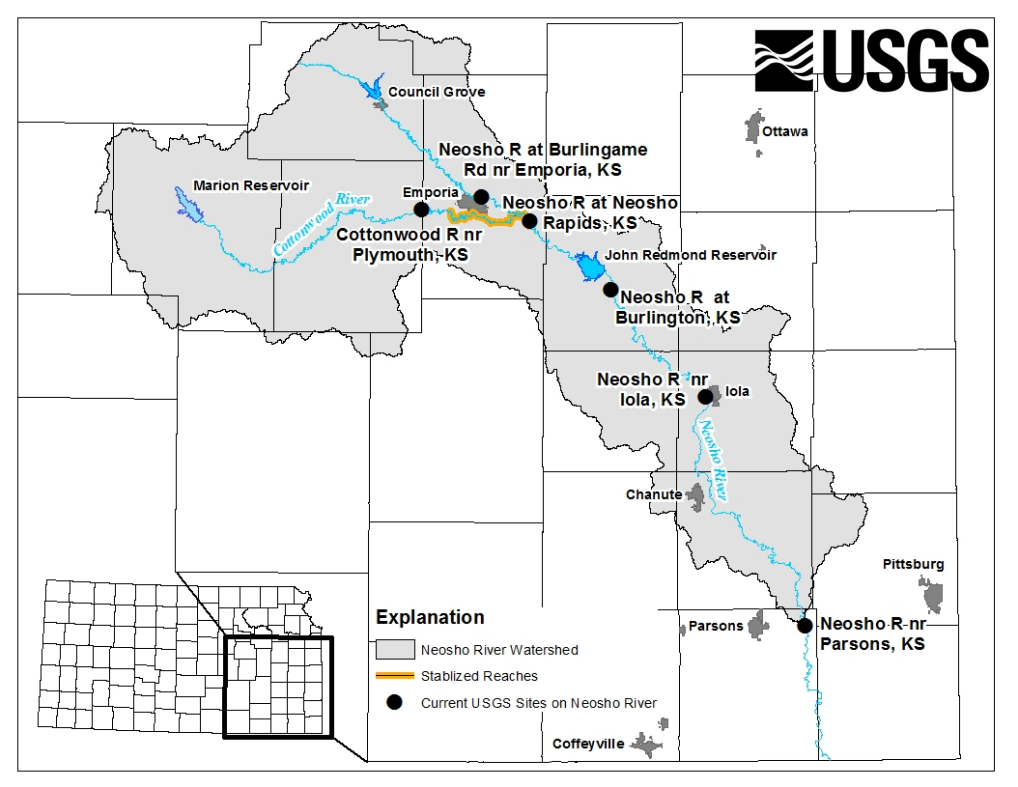
- Near real-time, continuous monitoring of stream and river conditions throughout the state
- Flow monitoring at 59 surface water and 3 ground water stations
- Data posted and updated online through the USGS National Water Information System
- Expected KWO FY21 contribution - $413,580

Kansas River Water Quality Monitoring

- Real-time monitoring and notification of changing water-quality conditions
  - Nutrients, sediment, bacteria, cyanobacteria
  - Time of travel study
- Continuous water quality monitoring and discrete sample collection on the Kansas River at Wamego, Topeka, and De Soto
- Current and past partners have included KDHE, The Nature Conservancy, WaterOne, Topeka, Olathe, Manhattan, Lawrence, De Soto, USACE
- Expected KWO FY21 contribution - $10,000

Neosho River Sediment Monitoring

- Funding 2 monitoring stations
  - Cottonwood R nr Plymouth, KS
  - Neosho R at Neosho Rapids, KS
- Water quality monitoring and suspended-sediment sampling
- Informs evaluation of streambank stabilization effectiveness and sediment load to John Redmond Reservoir
- Expected KWO FY21 contribution - $71,630

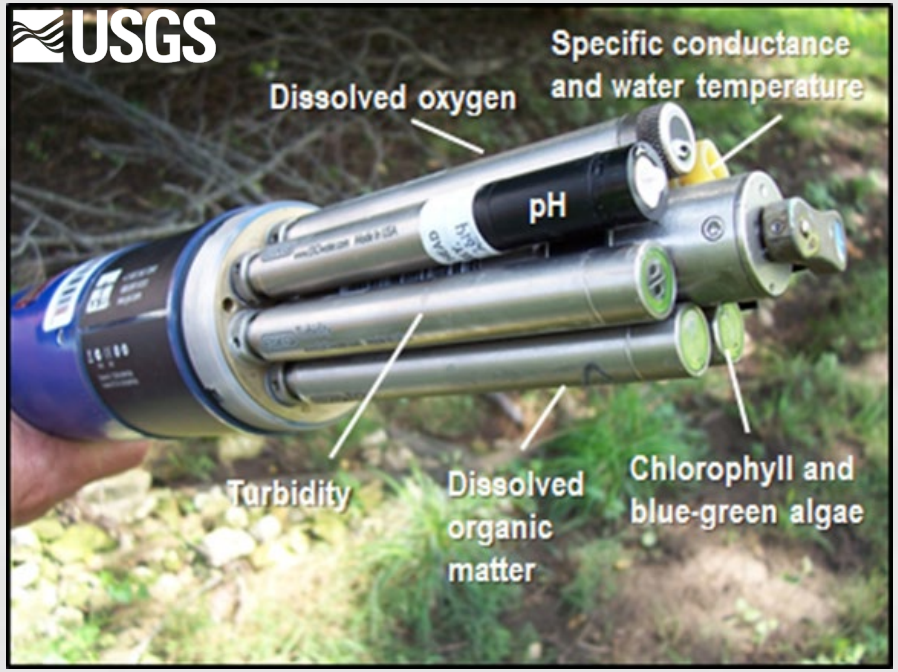


Monitoring Below Tuttle Creek Lake

- Collect baseline turbidity and water quality data downstream of Tuttle Creek Lake and evaluate changes caused by Water Injection Dredging (WID) activities
- Continuous water quality monitoring and discrete suspended-sediment, nutrients, and organic carbon sampling at Big Blue River near Manhattan, KS (06887000)
- Expected KWO FY21 contribution - $66,560

Republican River at Clay Center Monitoring

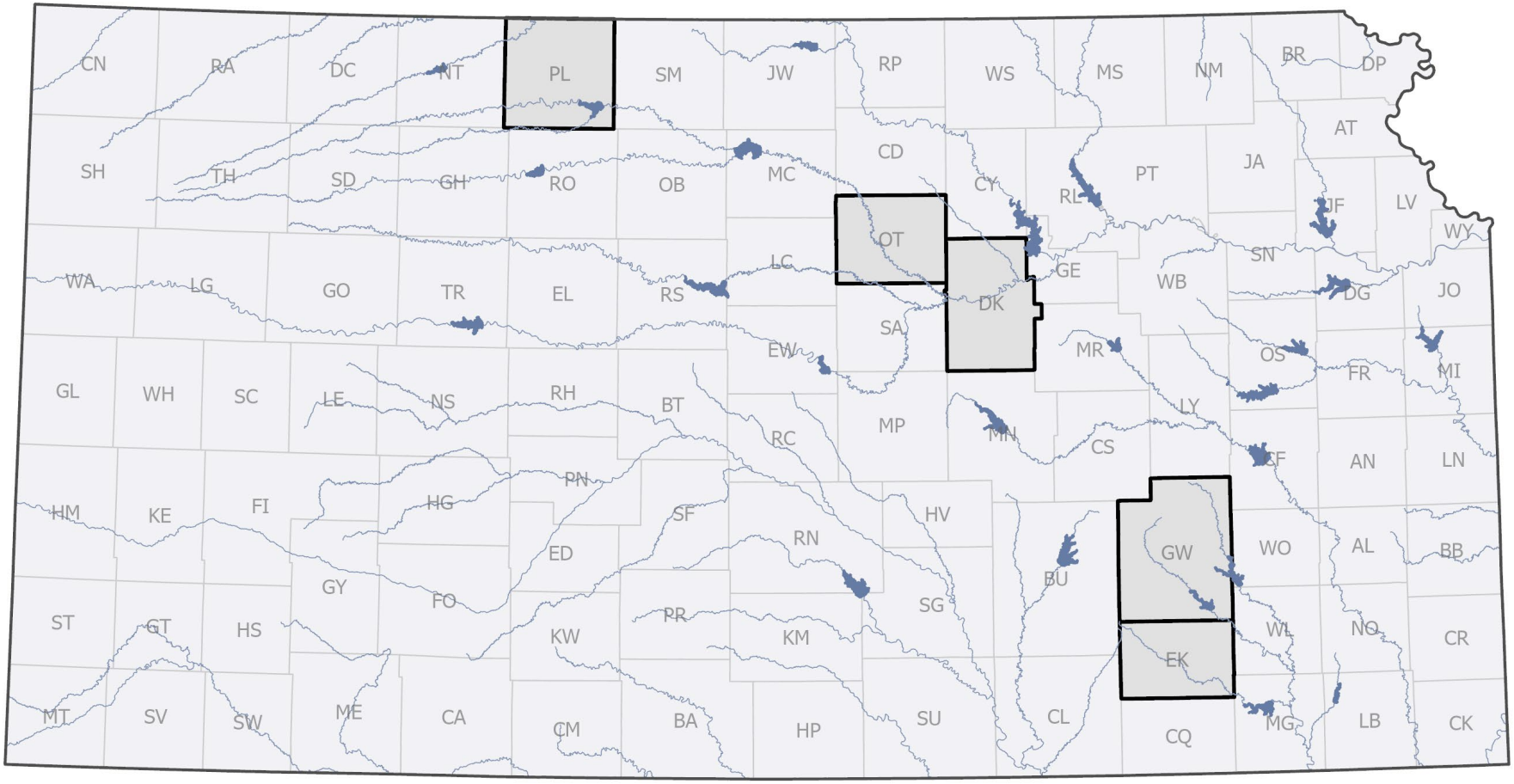
- Characterize sediment, nutrients, and water quality conditions entering Milford Lake
- Continuous water quality monitoring and discrete sediment and nutrient sampling at Republican River at Clay Center, KS (06856600)
- Supports monitoring associated with Milford RCPP project
- Expected KWO FY21 Contribution - $97,240



Director's Report

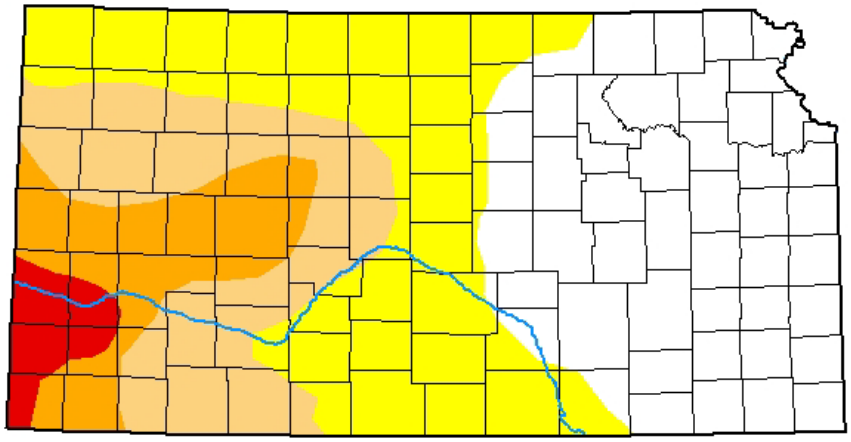
Presented by: Earl Lewis

Counties with Flood Disaster Declarations beginning May 15, 2020



Kansas Drought Update

U.S. Drought Monitor
Kansas



June 9, 2020

(Released Thursday, Jun. 11, 2020)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	37.74	62.26	31.92	13.68	3.18	0.00
Last Week *06-02-2020*	49.84	50.16	27.46	11.63	2.60	0.00
3 Months Ago *03-10-2020*	85.54	14.46	6.03	2.02	0.00	0.00
Start of Calendar Year *12-31-2019*	67.13	32.87	9.89	4.22	0.00	0.00
Start of Water Year *10-01-2019*	81.26	18.74	4.91	0.00	0.00	0.00
One Year Ago *06-11-2019*	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Brad Pugh
CPC/NOAA

droughtmonitor.unl.edu

New Business

Adjourn

Upcoming KWA Meeting:

July 2020