MEMO

Kansas Water Office
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DATE: February 12, 2020
TO: Smoky Hill-Saline RAC and Agency Advisors
FROM: Diane Knowles, Kansas Water Office
RE: February 27, 2020 RAC Meeting

The Smoky Hill-Saline Regional Advisory Committee (RAC) is scheduled to meet at **1:00 PM Thursday February 27, 2020, at The Venue, 2704 Vine Street, Hays, Kansas.** The Venue is adjacent to Thirsty's Brew Pub and Grill.

The main items of discussion at the meeting will be Performance Based Budget and KWA Budget Process, and the update of the 50-year Vision for Water including updating of regional action plans and goals.

Enclosed please find:

- Agenda
- Meeting Notes-June 2020
- Performance Based Budget materials
- Regional Action Plans
- Press release

The Regional Open House for Public input on the Water Vision and Kansas Water Plan for local Goals and action plan needs, will be held in the same location after the RAC meeting, 4-6 PM. RAC members are encouraged to attend.

Also note the Kansas Water Authority 2019 Annual Report has been completed and is available on the website at www.kwo.ks.gov .

Please let me know if you cannot attend, or have any questions or concerns regarding the meeting please contact, me at diane.knowles@kwo.ks.gov; or toll-free at (888) KAN-WATE(R).

SMOKY HILL- SALINE
Regional Advisory Committee

DATE: February 27, 2020

TIME: 1:00 PM

LOCATION: The Venue, Hays, KS

AGENDA

1. **Welcome / Introductions - New members**
2. **RAC Business**
   a. Review of June 2019 meeting notes
3. **Kansas Water Authority**
   a. Activities and Legislative Update
   b. Budget
4. **Vision and Regional Issues and Activities**
   a. Update on Activities and Events
      i. Kansas River Reservoirs Flood and Sediment Study- Laura Totten (USACE)
      ii. Access District Update
      iii. Status of other activities
   b. Goals and Action Plans Discussion
5. **Other Business**
   a. Agency
   b. Public Comments*
   c. Upcoming meetings
      i. Public Meeting for Vision / Water Plan
      ii. Kansas Water Authority – April 14, 2020, Hutchinson
      iii. Next SHS RAC: Date:_____ , Salina

Adjourn

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

DRAFT

Smoky Hill-Saline Regional Advisory Committee Meeting
June 20, 2019, 10:00 AM
Salina Water Treatment Plant
Salina KS

Member Attendance:

Name	City	Category	Term	Present
Martha Tasker (Chair)	Salina, KS	Public Water Supply (cc)	2019	Yes
Tim Sanders	Chapman, KS	Agriculture 2	2021	Yes
VACANT		Industry/Commerce (cc)	2019	Na
Toby Dougherty	Hays, KS	Large Public Water Supply	2019	No
Daniel Baffa	Salina, KS	At Large Public 2	2021	Yes
Chris Meyer	Sylvan Grove, KS	Agriculture (cc)	2019	Yes
Baron Shively	McPherson, KS	Conservation/Environment 2	2019	Yes
Allen Roth	Hays, KS	Conservation/Environment (cc)	2021	No
Bevin Law	Longford, KS	At Large Public (cc)	2021	No
Timothy Scheck	Russell, KS	Industry/Commerce 2	2021	No
Alan Scheuerman	Ellis, KS	Small Public Water Supply	2019	No
Brad Shogren	Lindsborg, KS	Irrigation	2021	Yes

Others in attendance:

Name	Affiliation
John Quinday	City of Russell
Jeff Crispin	City of Hays
Holly Dickman	City of Hays
Karen Borcherding	Saline Co. Conservation District
John Leiker	City of Ellis
Dustin Durr	Saline Co. Conservation District
Kelly Stewart	KDA/DWC
Dave Jones	KDA/DOC
Matt Unruh	KWO
Diane Knowles	KWO

Welcome and Introductions: Chair Martha Tasker welcomed those in attendance to the meeting. Self introductions were made.

Regional Advisory Committee (RAC) Approval of Agenda: The meeting agenda was approved as presented. The motion was made by Tim Sanders, seconded by Baron Shively.

Meeting notes Regional Advisory Committee (RAC) Approval of past meeting notes: The March 2019 meeting notes were approved as presented. The motion made by Daniel Baffa, seconded by Tim Sanders. The motion carried.

Kansas Water Authority

April Meeting KWA: Diane Knowles highlighted the Kansas Water Authority (KWA) in April meeting in Abilene with some additions by Matt Unruh and Martha Tasker. She noted that the marketing rate was approved at 0.418 for CY2020 (the previously annual 3.2% increase for ten years); and permission was granted for the Director to enter into the USGS and U.S. Army Corp agreements for various activities.

In addition there were updates on marketing negotiations with the City of Lawrence; potential Access District Expansion modeling; Lower Republican Access District potential discussion; contracts with USGS, the central Kansas water bank evaluation, water technology farms, harmful algal blooms, and perfluorinated chemical (PFC).

KWA heard discussion on an upper Ark RAC letter concerning quality and quantity in Arkansas River and the potential need for water transfers and tools to allow them in the future.

KWA discussion of budget process and vision/water plan process also occurred including the role of the RACs in each.

RAC Membership: Diane Knowles noted that enough applications for the RAC vacancies and expiring terms have been received.

- KWA RAC Operations Committee will review applications in early July 2019
- Full KWA takes action on RAC Operations Committee membership recommendations at July 2019 meeting

Budget for FY2020 and FY2021 Budget Recommendations: Matt Unruh provided an overview of the budget process the KWA is following which included opportunity for RACs to provide input. Specifically helpful would be identification of programs that aid in regional goal implementation, appropriateness of funding levels and noting any items not being addressed.

Matt provided an overview of the SFY2020 appropriations, clarifying some programs. Discussion proceeded to the Preliminary SFY2021 budget tables organized in 4 categories related to the 50-Year Vision for Water. Much discussion centered on the programs under the water conservation section that provide for different conservation practices and various targets to address numerous issues. For example the reduction of sediment in 4 priority watersheds is the purpose of the Watershed Conservation Practice line. One of the targeted watersheds is in the Smoky Hill basin above Kanopolis in Ellsworth County. Dave jones noted that the Riparian and Wetland program will roll out in the Milford area, and the non-point source pollution line increase will focus on education and information related to soil health above reservoirs. Further discussion noted that this is only state water plan funding, not all funds going to these types of projects through other mechanisms as well as clarifying focus and priorities of some of the programs.

The Budget discussion proceeded into water management discussing technical assistance to public water suppliers, the harmful algal bloom evaluation aid to conservation districts including the need to see the entire funding picture to recognize local contributions and the leveraging of funds. The remaining sections on technology and crop varieties and additional sources of supply were presented. Discussion noted that unforeseen disasters (flooding, fire and others) are not addressed in any way. In general, program information provided with the budget to allow for development of good recommendations from the RAC

The approved motion below was made by Brad Shogren and seconded by Dan Baffa.

The Smoky Hill-Saline RAC concurs with the proposed state water plan budget and encourages KWA to seek full restoration of the State Water Plan Fund as well as develop resources to respond to unforeseen disasters.

Discussion moved to flood control, how streambank projects and other practices are holding up under recent flooding, the planning of an evaluation of this, and the improved U.S. Army Corp communication on releases from Kanopolis.

Vision and Regional Issues Updates

Update on Activities in Region

Water Conservation Plans: Diane reported the successful delivery of letters to the regions public water suppliers without water conservation plans or above the average GPCD of comparable systems. A third batch was sent out with some systems initiating plans and at least two recently having theirs approved.

Addressing sediment in streams and Kanopolis, the Kansas Reservoir Protection Initiative (KPRI) is funded for a second year, although at slightly less total funding. Dave Jones noted the target areas will remain the same with the first cutoff date of July 31, 2019. Applications will be ranked based on tier and proximity to stream, with step down payments year 2 and 3 of participation for cover crops. (Year 1-. $45 per acre, year 2- $30, Year 3-$15). Maximum for other practices based on $50/ton sediment

Brad Shogren added that the Lower Smoky Hill River WRAPs has been successful in developing funding to maintain assistance of a KSU Watershed Specialist for a tree year pilot program. This became necessary as they are part of the partnership group under the reorganized WRAPs program and are not eligible for a state funded specialist.

Diane reported that the R9 Ranch Water transfer request status is waiting for the judicial review petitioned for by Water PAC in regard to the water right change order. Materials are on the DWR website. The transfer process will include public hearings and involve three official, the Chief Engineer, Director of the Water Office and an official from KDHE.

Discussion of Vision including Goals and Action Plans

Diane handed out materials summarizing action plans and implementation status being developed by KWO for tracking purposes. For the Smoky Hill-Saline region there are four Goals and Action plans to review and consider if revisions are needed, if any are no longer relevant or if a new goal is needed. This is part of the review of the entire vision with a goal of incorporation into the State Water Plan eventually. The major work will begin at the next RAC meeting.

The RAC discussed the appropriateness of indicating progress in additional lines such as use of additional aquifer, and the interconnection of systems.

Other Business

Agency Reports not previously covered

Division of Water Resources-Kelly Stewart reported water use reports were due March 1. Penalties are accessed for late reports which increase after June 1. There are some who have not reported so will be ordered to not pump until they file and pay their fine. In the few case where a 2017 report has not been filed or fine paid the well will be sealed. Kelly also reported that due to precipitation last year there were very few over pumpers. Kelly also responded to a question to report that those against the GMD4 LEMA represents a small number of landowners.

Division of Conservation-Dave Jones reported that Cost-Share for Water Resources practices is available and sediment reduction in the Milford area is available to those under CRP contracts.

Public Comments – none

Messages to KWA (if any)-none

Meeting Adjourned- Motion by Tim Sanders, seconded by Brad Shogren. Motion Carried.

STATE WATER PLAN FUND

- Created in 1989 (K.S.A. 82a-951)
- Funds used for establishing and implementing water-related programs and projects identified in the State Water Plan.
- Annual funding includes revenues from fees and demand transfers

(1) Fees Total $12 – 13 million annually

- Fee structure has remained virtually unchanged since the fund was established; Sand Royalties added in 1996, Clean Drinking Water Fee 2008

		FY19 Est.	
Municipal Water Fees	3 cents/1,000 gallons	$3,200,000	25.6%
Clean Drinking Water Fees	3 cents/1,000 gallons	$2,800,000	22.4%
Industrial Water Fees	3 cents/1,000 gallons	$1,100,000	8.8%
Stockwater Use	3 cents/1,000 gallons	$450,000	3.6%
Pesticide Fees	$100/Registration	$1,300,000	10.4%
Fertilizer Fees	$1.40/ton	$3,500,000	28.0%
Pollution Fines/Penalties	Est. $150,000	$150,000	1.2%
Sand Royalties	$0.15/ton	$16,000	0.1%
	Total	$12,516,000	

Kansas Water Office

STATE WATER PLAN FUND

(2) Demand transfers from state funds

*Economic Development Initiatives Fund (EDIF) - $2 million (statutory)

*State General Fund (SGF) - $6,000,000 (statutory)

Last time full statutory transfers made FY2008

FY20 $500,000 EDIF
FY20 $4 million SGF

	SGF Transfer	EDIF Transfer	Transfers Not Made
FY1991	$ 5,895,000	$ 2,000,000	$ 105,000
FY1992	$ 5,940,000	$ 2,000,000	$ 60,000
FY1993	$ 5,820,000	$ 2,000,000	$ 180,000
FY1994	$ 5,760,000	$ 2,000,000	$ 240,000
FY1995	$ 5,932,800	$ 2,000,000	$ 67,200
FY1996	$ 6,000,000	$ 2,000,000	$ -
FY1997	$ 6,000,000	$ 2,000,000	$ -
FY1998	$ 6,000,000	$ 2,000,000	$ -
FY1999	$ 6,000,000	$ 2,000,000	$ -
FY2000	$ 6,000,000	$ 2,000,000	$ -
FY2001	$ 4,750,000	$ 2,000,000	$ 1,250,000
FY2002	$ 5,981,400	$ 2,000,000	$ 18,600
FY2003	$ 3,773,949	$ 1,900,000	$ 2,326,051
FY2004	$ 3,773,949	$ 1,900,000	$ 2,326,051
FY2005	$ 3,748,839	$ 2,000,000	$ 2,251,161
FY2006	$ 6,000,000	$ 2,000,000	$ -
FY2007	$ 6,000,000	$ 2,000,000	$ -
FY2008	$ 6,000,000	$ 2,000,000	$ -
FY2009	$ 2,000,000	$ 2,846,126	$ 3,153,874
FY2010	$ -	$ 1,948,884	$ 6,051,116
FY2011	$ 1,348,245	$ 2,000,000	$ 4,651,755
FY2012	$	$ 2,000,000	$ 6,000,000
FY2013	$ -	$ 2,000,000	$ 6,000,000
FY2014	$ -	$ -	$ 8,000,000
FY2015	$ -	$ 800,000	$ 7,200,000
FY2016	$ -	$ -	$ 8,000,000
FY2017	$ -	$ -	$ 8,000,000
FY2018	$ 1,400,000	$ -	$ 6,600,000
FY2019	$ 2,750,000	$ 500,000	$ 4,750,000
Total			$ 77,230,808

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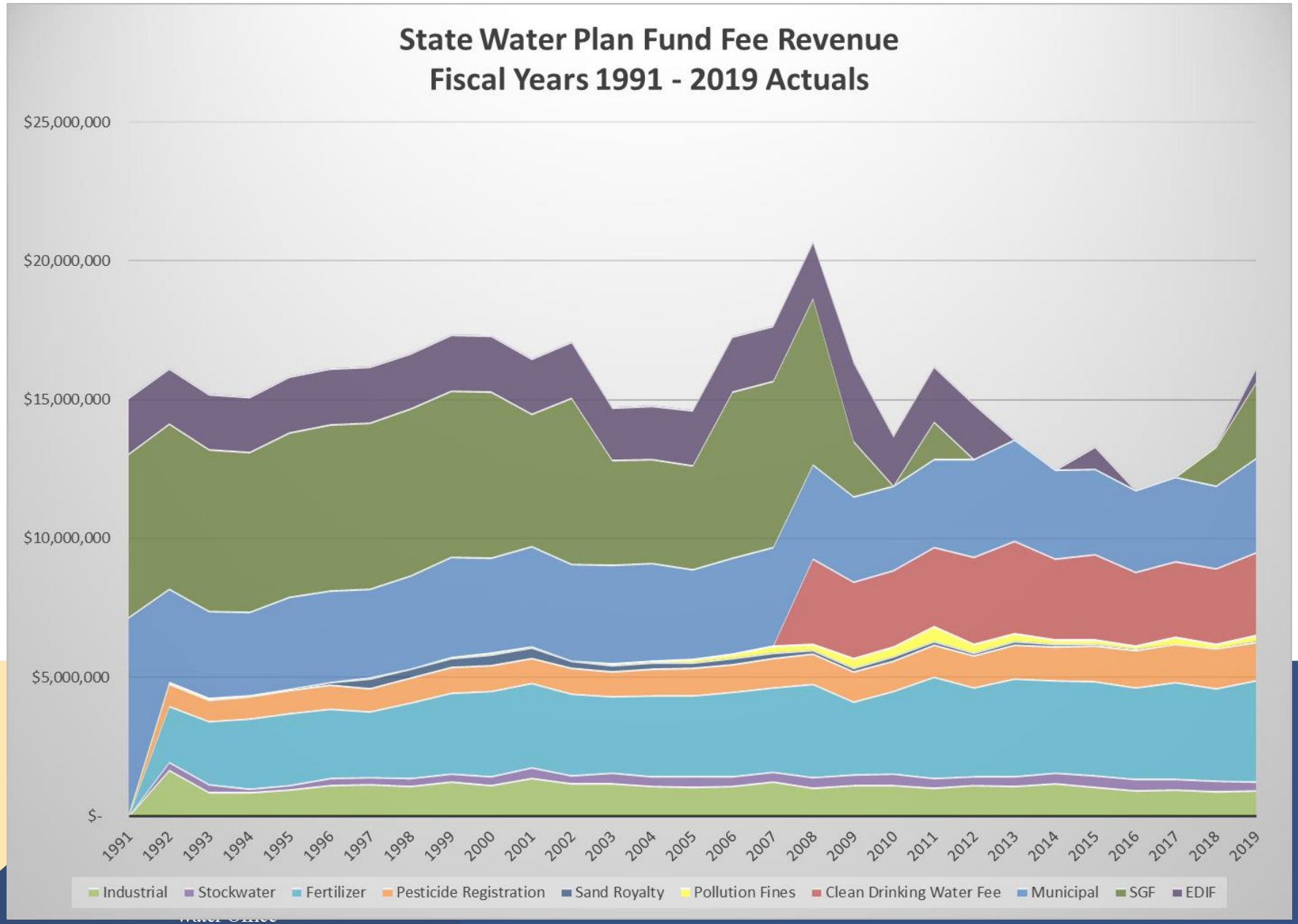
STATE WATER PLAN FUND HISTORY



'*VISION*' OF THE FUTURE OF WATER IN KANSAS

"Kansans act on a shared commitment to have the water resources necessary to support the state's social, economic and natural resource needs for current and future generations."

- 2013 - Governor call to action to develop 50-year Water Plan
- Public outreach, 14 RACs developed, statewide Vision completed

With no change in 50 years

- The Ogallala Aquifer would be 70 percent depleted
- Our reservoir storage would be 40 percent filled with sediment

Kansas Water Office

FUNDING THE '*VISION*'

Blue Ribbon Funding Task Force (BRFTF)

- Created through 'Vision' process
- Address funding needs for 'Vision' implementation
- Comprised of KWA members, Legislators, other stakeholders

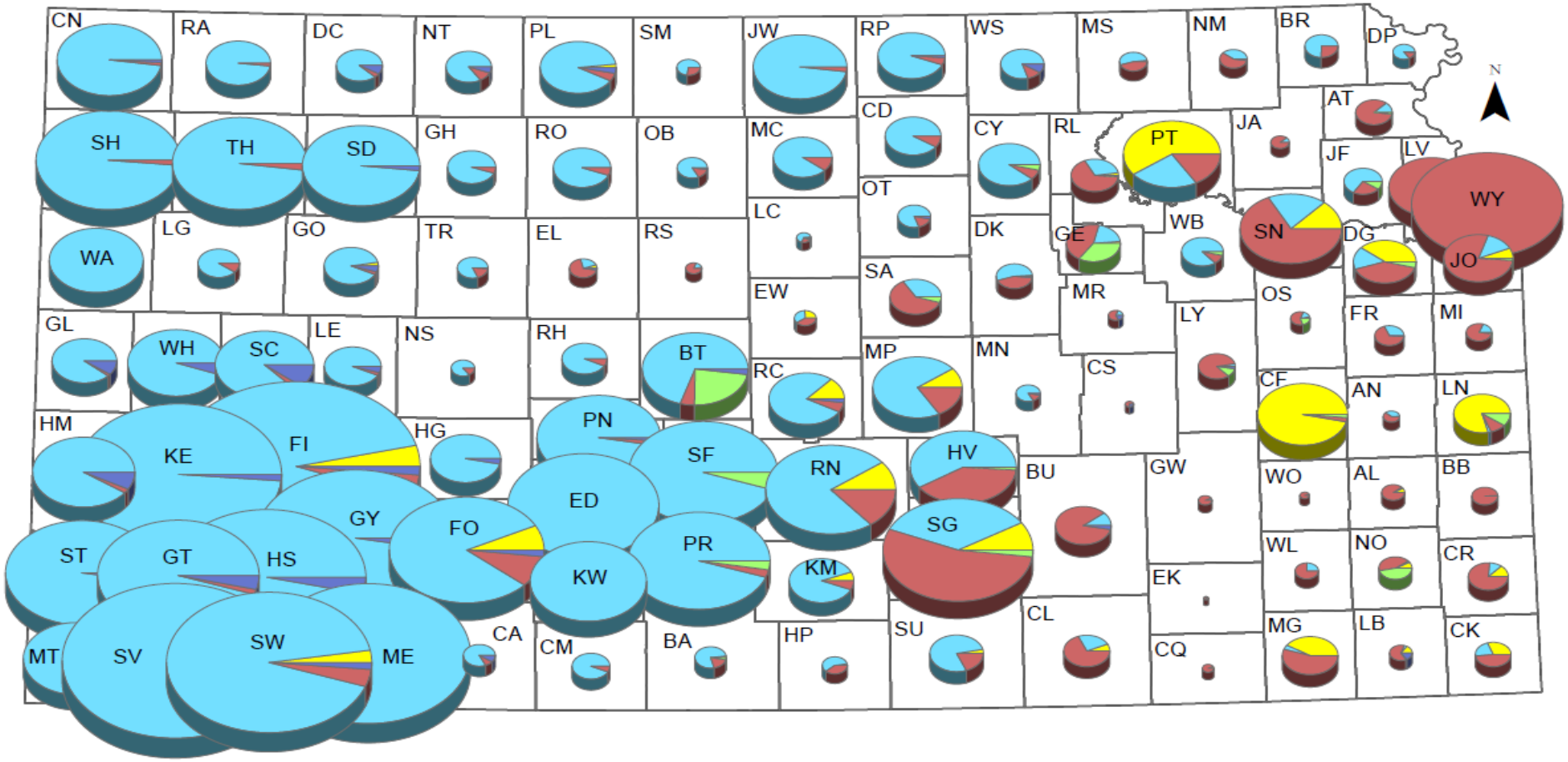
Funding Proposal

- $55 million in annual funding needs for full implementation
- Two revenue options proposed:
    a. Restoration of $8 million statutory demand transfers from SGF/EDIF
    b. 1/10 of 1% state sales tax dedicated to SWPF

Kansas Water Office

KANSAS WATER FUNDING CHALLENGES

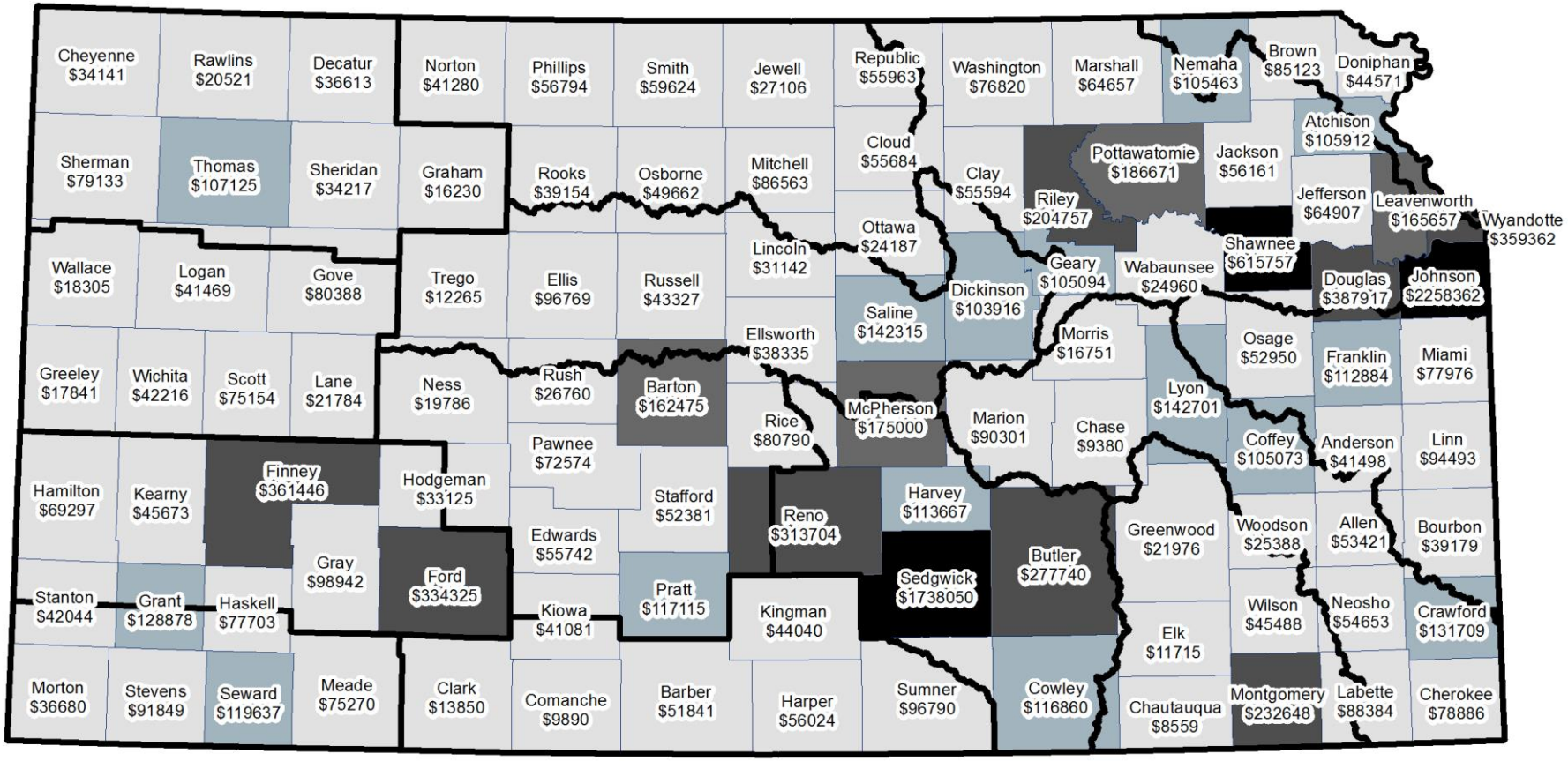
2018 Reported Water Use for Kansas Counties



PERFORMANCE BASED BUDGET GUIDELINES

- Statutory Obligations shall be met first.
- All budgeted funds should be tied to one of the projects and initiatives established by the 50-year Water Vision/State Water Plan
- Per K.S.A. 82a-951, State Water Plan funding "shall not be used for . . . replacing full-time equivalent positions of any state agency." Positions have been added for programs to implement the Kansas Water Plan. The Kansas Water Authority should encourage funding for staff positions supporting State Water Plan programs and projects to be from the State General Fund removing any confusion and allowing additional funds to be used for implementation activities.
- Funds raised through fees on specific users should be used to fund projects or initiatives that benefit the users paying those fees, or mitigate environmental impacts caused by said users
- Allocation of funds should be reasonably related to: source, geographical, hydrological, rural vs. urban.
- Priority must be given to long term contractual, or multi-year obligations: O&M,Bonds
- Consideration may be given to projects or initiatives that involve cost shares from other sources, such as Federal, state, local and private funding.
- Consideration can be given to expenditures that can be justified based upon <u>emerging threats to water resources</u>, including appropriate research initiatives.

Average State Water Plan Fund Revenue by County
CY 2014, 2016, 2017 (Not including Pesticide Fees)



Average Revenue Range

Kansas Water Office February 7, 2020

County SWPF Revenue Reciepts

Average Fertilizer Fees 12-14 and SGF Revenue Included*

- $8559 - $100,000
- $100,000 - $150,000
- $150,000 - $200,000
- $200,000 - $500,000
- $500,001 - $2,300,000

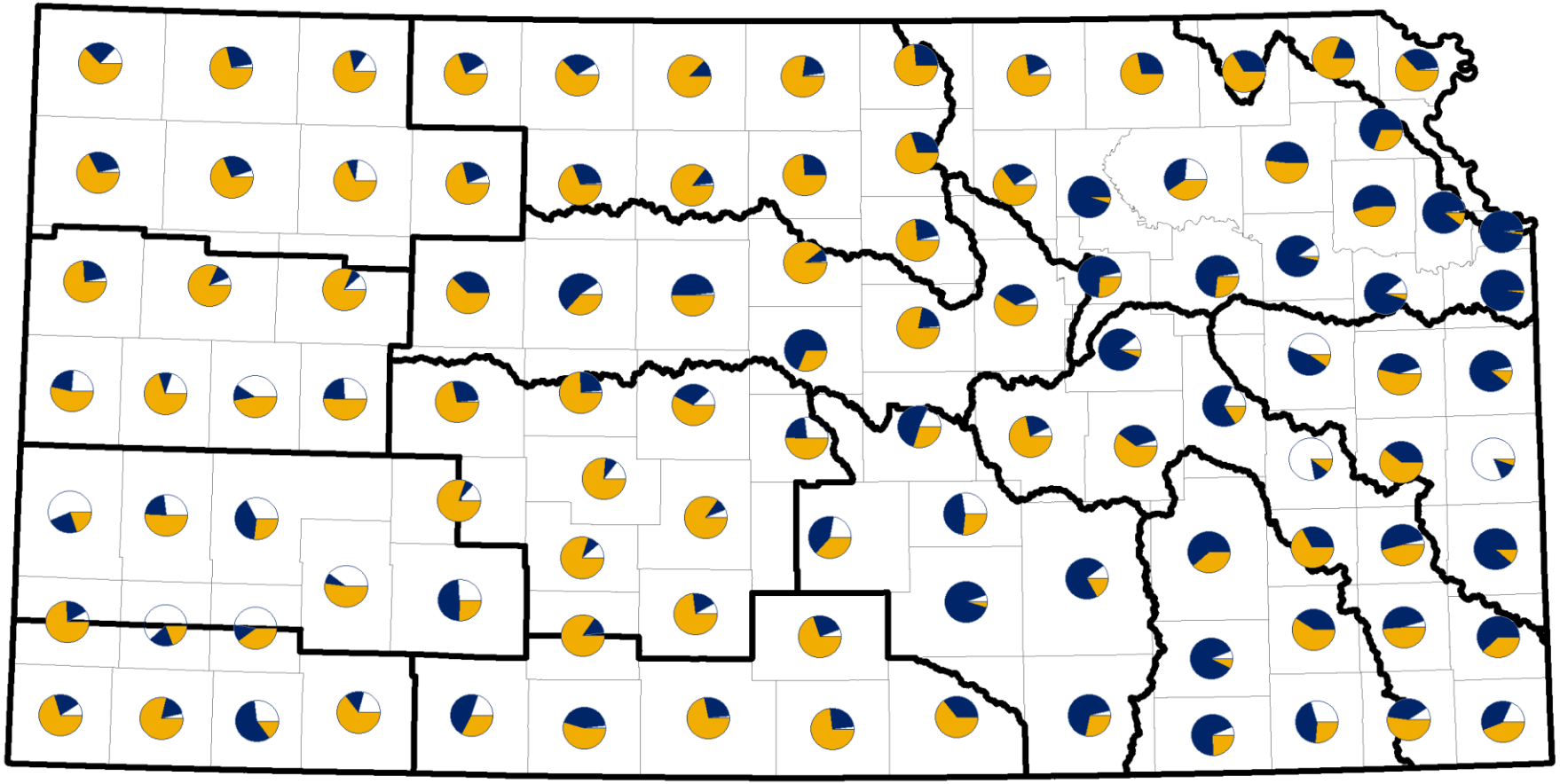
N
W E
S

50 Miles

Sources:
Division of Water Resources, Water Use Program
Kansas Dept. of Revenue

***SGF Revenue includes FY2019 Income & Sales tax totals which account for 88% of SGF revenues.**

Average State Water Plan Fund Revenue by County
CY 2014, 2016, 2017 (Not including Pesticide Fees)



Kansas Water Office January 2020

Average Revenue Range

No SGF Included

County SWPF Revenue Reciepts

Municipal/CDWF

Fertilizer (2012-2014 Average)

Industrial/Stockwatering

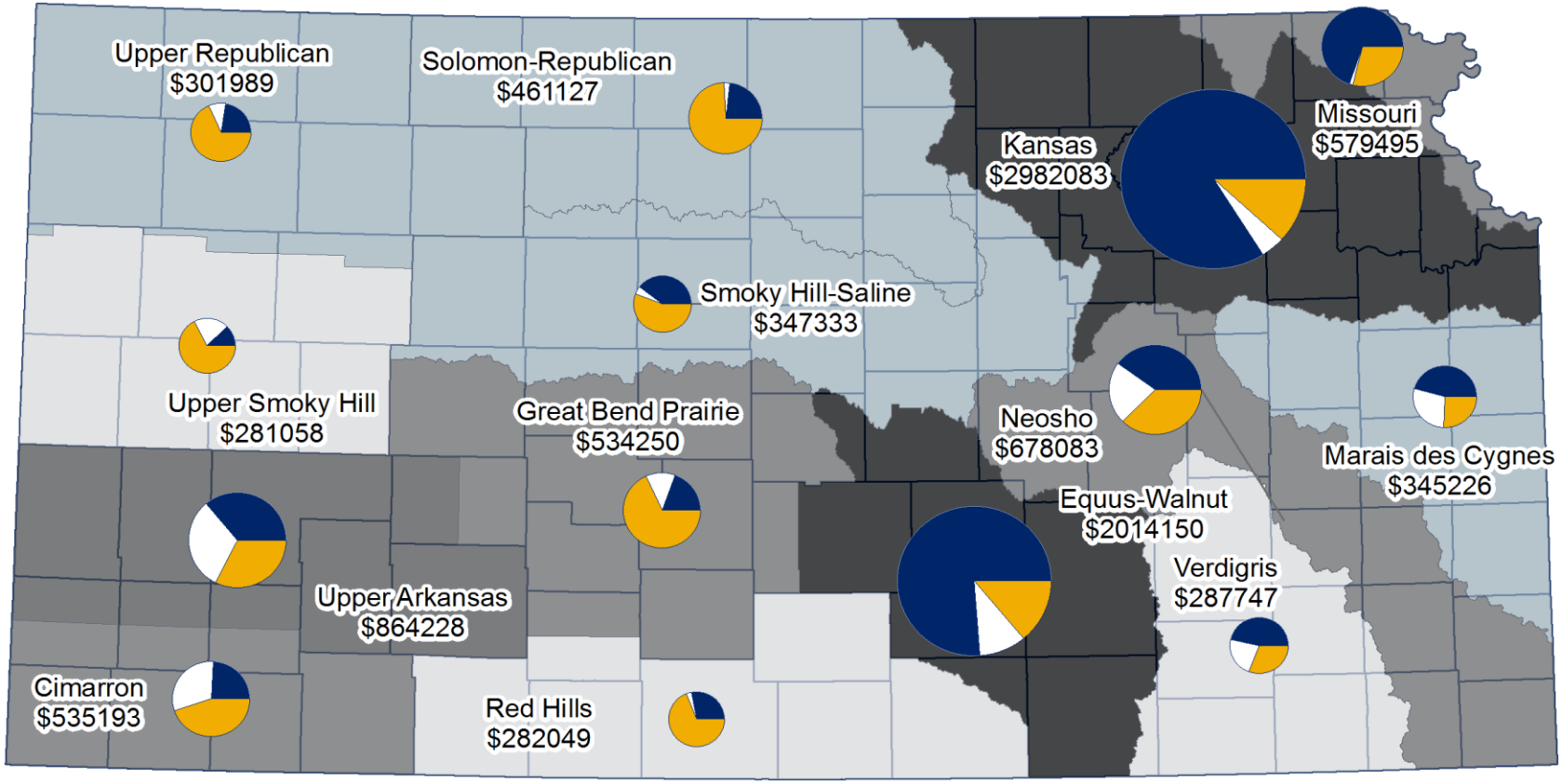
Sources:
Division of Water Resources, Water Use Program
Kansas Dept. of Revenue

50 Miles

N W E S

Average State Water Plan Fund Revenue by Regional Planning Area CY 2014, 2016, 2017 (Not including Pesticide Fees)

No SGF Included



Kansas Water Office January 2020

Regional Planning Area SWPF Revenue Categories

Sum of Fields

460,000

- Municipal/CDWF
- Industrial/Stock
- Fertilizer (2012-2014 Averages)
- $280,000 - $300,000
- $300,000 - $500,000
- $500,000 - $750,000
- $750,000 - $1,000,000
- $1,000,000 - $2,980,000

50 Miles

N W E S

Sources:
Division of Water Resources, Water Use Program
Kansas Dept. of Revenue

KANSAS WATER PLAN FUND BUDGET CATEGORY BREAKDOWN

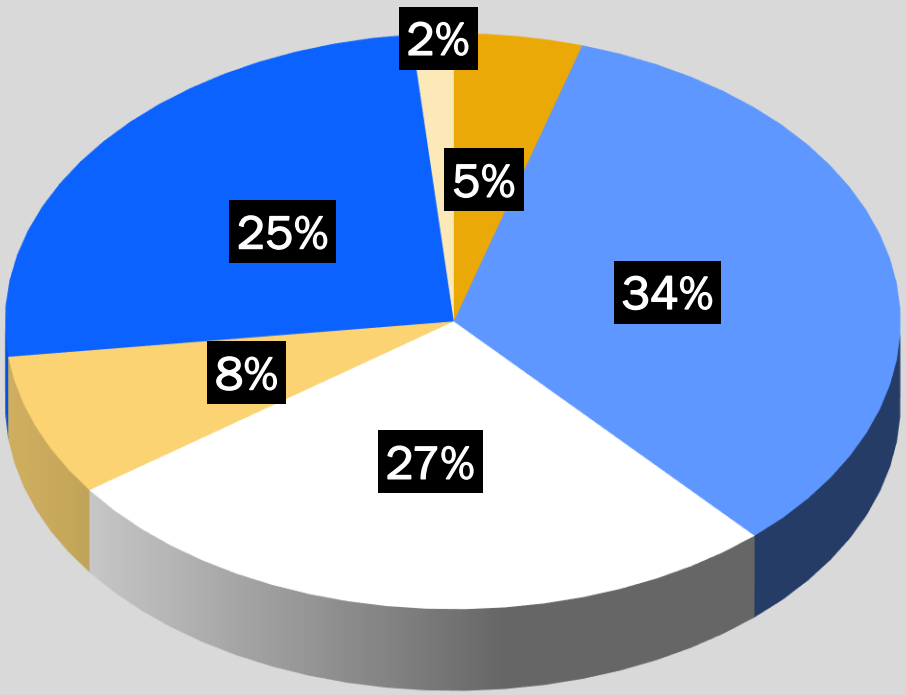
- Budget lines assigned to Primary State Water Plan and Vision Categories

- Main Categories:
  - Groundwater Initiatives
  - Reservoir Water Supply and Sedimentation
  - Water Quality
  - Education
- Blend of multiple categories:
  - Groundwater & Water Quality
  - Reservoir & Water Quality
  - Groundwater, Reservoir, & Water Quality

	Budget Category		
	Groundwater Initiatives	Reservoir Water Supply & Sedimentation	Water Quality
Department of Health and Environment			
Contamination Remediation			•
Nonpoint Source Program			•
TMDL Initiatives			•
Harmful Algae Bloom Pilot			•
Watershed Restoration/Protection (WRAPS)			•
Drinking Water Protection Program			•
Department of Agriculture			
Interstate Water Issues	•		•
Subbasin Water Resources Management	•		•
Water Use	•		•
Water Resources Cost Share		•	
Nonpoint Source Pollution Asst.			•
Aid to Conservation Districts		•	•
Watershed Dam Construction		•	
Water Quality Buffer Initiative		•	
Riparian and Wetland Program		•	•
Water Transition Assistance Program/CREP	•		
Irrigation Technology	•		
Crop and Livestock Research	•		
Streambank Stabilization		•	
Water Supply Restoration Program		•	
Kansas Water Office			
Assessment and Evaluation	•	•	•
MOU - Storage Operations & Maintenance		•	
Stream Gaging		•	•
Technical Assistance to Water Users		•	•
Vision Education Strategy	•	•	•
Reservoir and Water Quality Research		•	•
Water Tech Farms	•		
Watershed Conservation Practice Imp		•	
Equus Beds Chloride Plume Project			•
Milford Lake Watershed RCPP			•
University of Kansas--Geological Survey	•		

Kansas Water Office

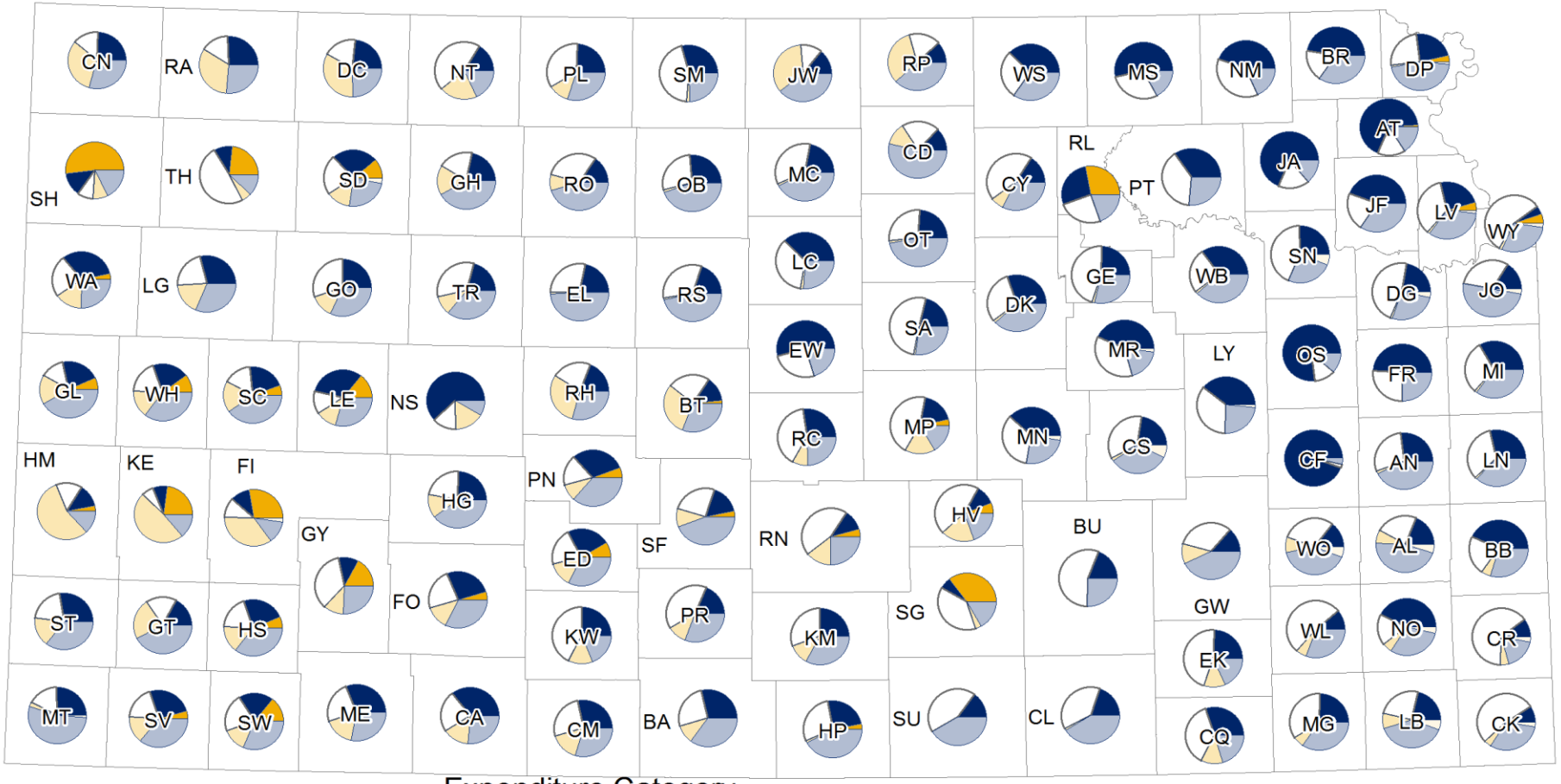
State Water Plan Expenditures Fy 2015-2019 - Budget Categories



- 1 Groundwater Initiatives (IrrTech, Wichita ASR, crop research, CREP, Index Wells, study)
- 2 Reservoir Water Supply & Sedimentation (Cost Share, O&M, SBS, dredging, study, watershed dam)
- 3 Water Quality (TMDL, NPS TechAssist/DOC, WRAPS, ConRem)
- 4 Groundwater Initiatives & Water Quality (Water use, KDA Basin)
- 5 Reservoir & Water Quality Totals (gaging, PWS TechAssist, LiDAR, aid to Cons Districts)
- 6 Groundwater, Reservoir, & Water Quality

Total State Water Plan Fund		Average FY15-19	Percent Total
1 Groundwater Initiatives (IrrTech, Wichita ASR, crop research, CREP, Index Wells, study)	$	576,748	4%
2 Reservoir Water Supply & Sedimentation (Cost Share, O&M, SBS, dredge, study, watershed dam)	$	4,734,357	35%
3 Water Quality (TMDL, NPS TechAssist/DOC, WRAPS, ConRem)	$	3,536,047	26%
4 Groundwater Initiatives & Water Quality (Water use, KDA Basin)	$	1,127,388	8%
5 Reservoir & Water Quality Totals (gaging, PWS TechAssist, LiDAR, aid to Cons Districts)	$	3,431,720	25%
6 Groundwater, Reservoir, & Water Quality	$	95,773	1%
Totals	$	13,502,032	

Average State Water Plan Fund Distribution by County
FY 2015 - 2019



Expenditure Category

Kansas Water Office January 2020

Average Yearly State Water Plan Fund Expenditure: $13,437,000

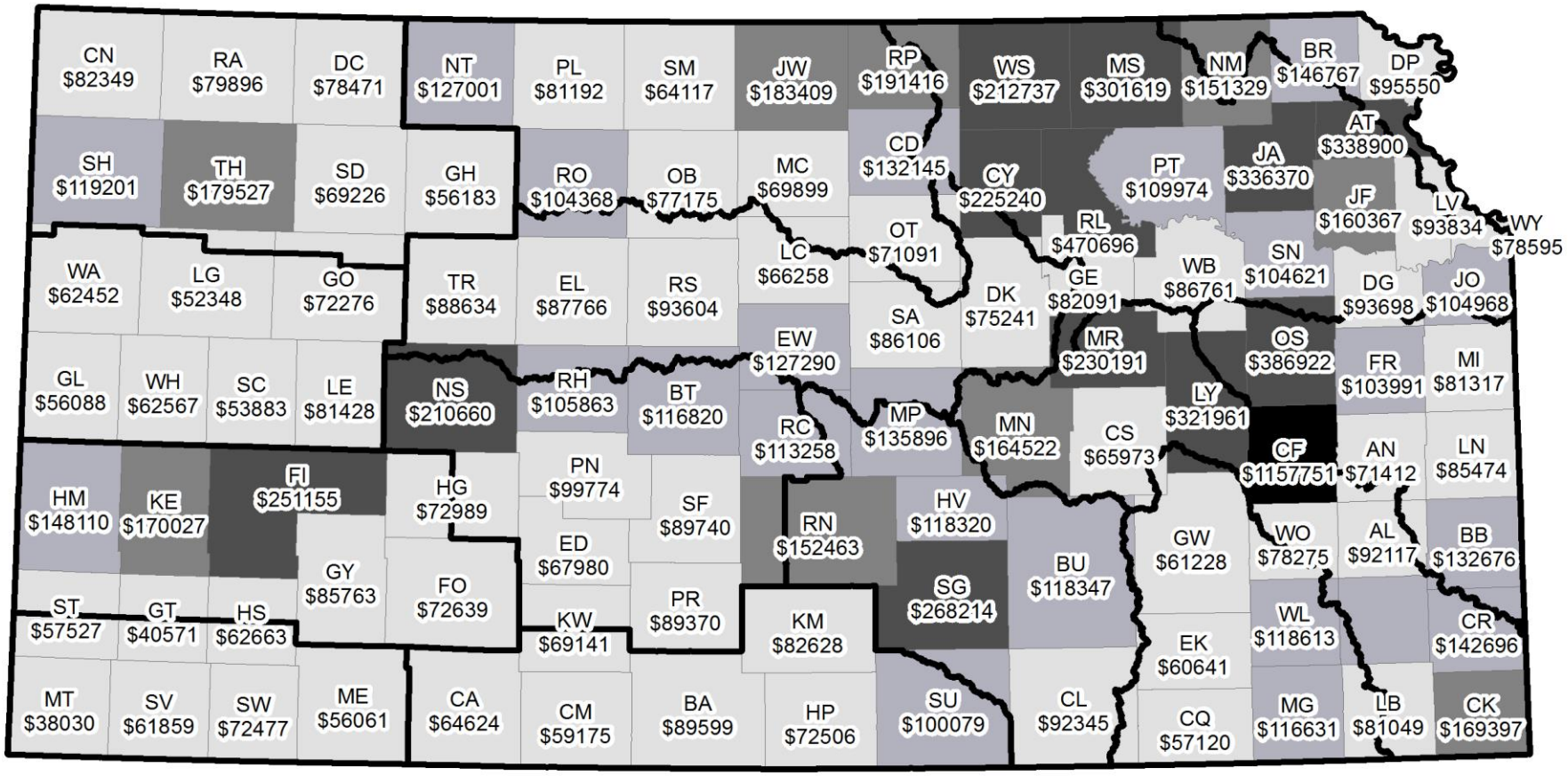
- Groundwater Initiatives
- Reservoir Water Supply & Sedimentation
- Water Quality
- Groundwater Initiatives & Water Quality
- Reservoir & Water Quality
- Groundwater, Reservoir, & Water Quality

Sources:
Division of Water Resources, Water Use Program
Kansas Water Office, Water Marketing Program
Kansas Dept. of Revenue
Kansas Dept. of Health and Environment

50 Miles

N W E S

Average State Water Plan Fund Distribution by County
FY 2015 - 2019



Kansas Water Office February 7, 2020

County SWPF Distribution

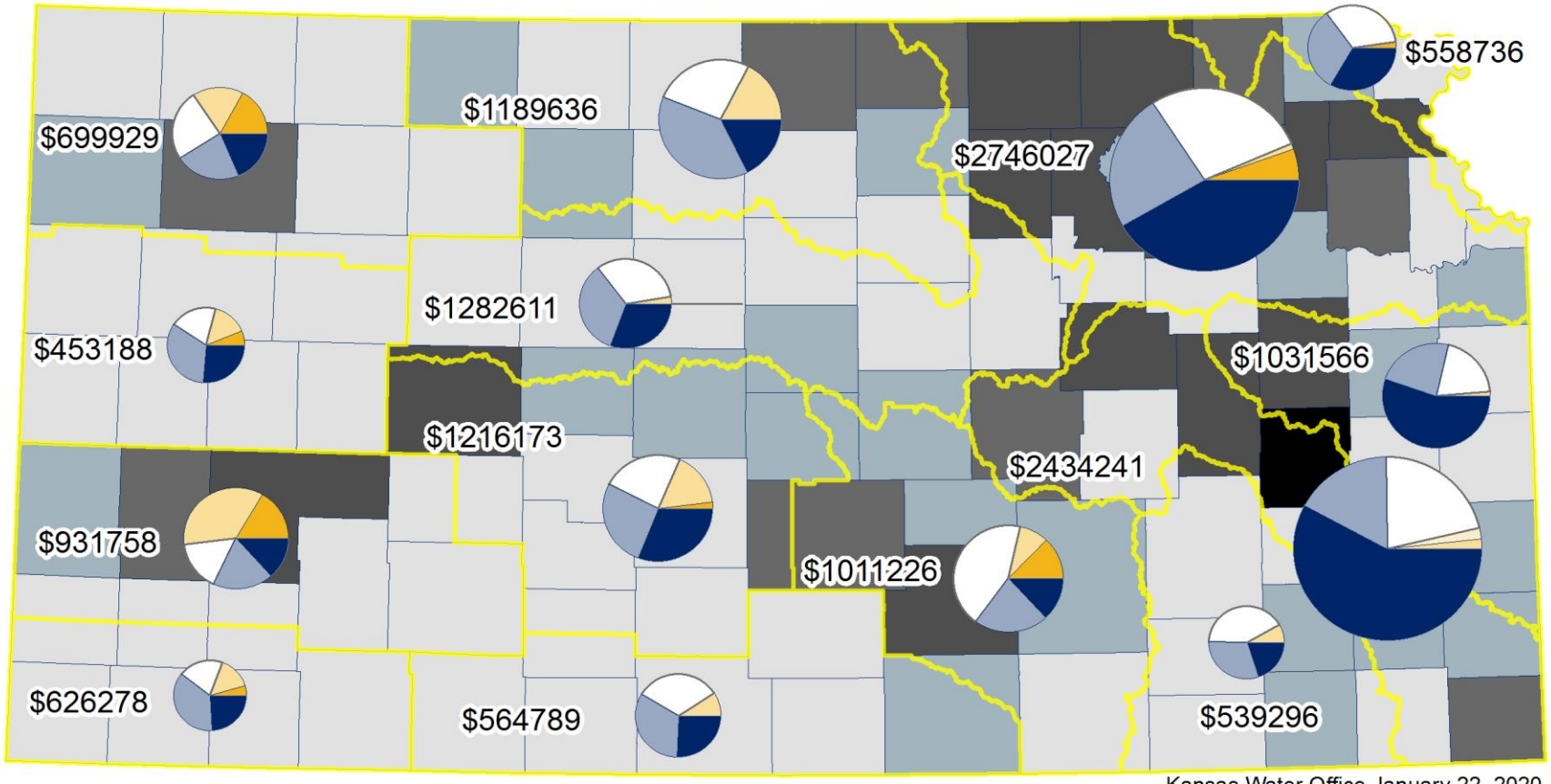
- $38,030 - $100,000
- $100,000 - $150,000
- $150,000 - $200,000
- $200,000 - $500,000
- $500,000 - $1,157,751

Sources:
Kansas Dept. of Agriculture
Kansas Dept. of Revenue
Kansas Dept. of Health and Environment
Kansas Water Office

50 Miles

N W E S

Average State Water Plan Fund Distribution by Budget Category FY2015 - 2019 Data



Kansas Water Office January 22, 2020

State Water Plan Fund Categories

370,000

Groundwater Initiatives

Groundwater & Water Quality

Groundwater, Reservoir, Water Quality

Water Quality

Reservoir & Water Quality

Reservoir Water Supply & Sedimentation

County SWPF Distribution

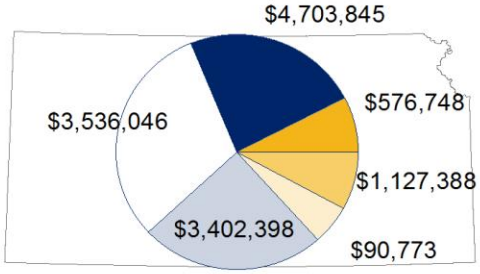
$38,030 - $100,000

$100,000 - $150,000

$150,000 - $200,000

$200,000 - $500,000

$500,000 - $1,158,000



Sources:
Kansas Dept. of Agriculture
Kansas Dept. of Health & Environment
Kansas Water Office
Kansas Dept. of Revenue

Smoky Hill-Saline Regional Advisory Committee
Priority Goal #1 Action Plan

Priority Goal #1: Increase available water supply, water supply storage, and interconnectivity among public water supplies within the Smoky Hill – Saline Planning Region. Methods of attaining goal can include: temporary or permanent conservation pool rise at Cedar Bluff Reservoir; utilize Wilson Reservoir as a water supply source for the region; permanent conservation pool rise at Kanopolis Reservoir; evaluate Kanopolis Reservoir to determine the feasibility of dredging and initiate project if deemed viable; construction of new water supply reservoirs within region; and phreatophyte control within riparian areas. Timeframe of implementation: Complete by 2060. Result of efforts: Ensure water supply available from reservoir storage exceeds demand by at least 10% through the year 2060.

Action Steps

- Evaluate recommendations included within the Smoky Hill-Saline section of the KWO Reservoir Roadmap when completed.
- Continue to pursue conservation pool rise efforts at Kanopolis Reservoir.
- Pursue alternative options to V-notch at Kanopolis Reservoir to allow for better control of operations and releases.
- Develop a lake level management plan at Cedar Bluff Reservoir to facilitate temporary pool rises on as needed basis when inflow conditions warrant.
- Evaluate the feasibility of and develop where determined to be most effective low-head dams along the Smoky Hill River above Kanopolis Reservoir to help increase recharge of alluvial aquifer.
- Evaluate the potential to dredge pools within river channel to create pools or basins which help promote recharge of alluvial aquifer.
- Evaluate the potential for utilization of the NRCS PL-566 watershed structure program for structure rehab for water supply purposes.
- Utilize watershed districts within the Smoky Hill-Saline Regional Planning Area and the Kansas Watershed District Act for new construction, operation and maintenance of watershed structures needed to improve for watershed management and water supply purposes.
- Determine the viability of treatment of produced and lower quality water for water supply purposes.
- Utilize additional aquifers (i.e. Dakota, Arbuckle, Cedar Hills) for water supply purposes
- Finish reallocation study of Wilson Reservoir before proceeding forward with any exploration of Wilson as a water supply reservoir.
- Conduct a needs assessment and/or feasibility study for water suppliers within the Smoky Hill-Saline Regional Planning Area to evaluate potential for interconnectivity among systems. This could include an evaluation of systems which have already conducted studies on their own evaluating their individual system's needs and potential for interconnectivity.
- Utilize the Kansas Electronic Watershed Library (KEWL) or a similar program as a data clearinghouse for water supply-related studies completed within the Smoky Hill-Saline Regional Planning Area. This data clearinghouse could be developed for statewide purposes as well.
- Identify GIS, remote sensing, and/or on the ground assessments areas of phreatophyte growth in riparian corridors. Once identified, develop strategy for removal of phreatophytes in riparian areas to help maintain or restore streamflow in targeted regions.

Responsible and Other Assisting Agencies/Organizations

- Kansas Water Office, Kansas Department of Agriculture – Division of Water Resources, Kansas Department of Health and Environment, U.S. Army Corps of Engineers, U.S. Bureau of Reclamation, NRCS, SAKW, local watershed districts, regional public water suppliers (including municipal and rural water districts), Kansas Forest Service, county noxious weed programs.

Resources Needed:

- Funding for needs assessments, feasibility studies, or other assessments associated with action steps noted above. Total funding needed TBD.

Timeframe of Completion:

- During 2017, the Smoky Hill-Saline RAC will evaluate the action steps and develop a prioritized timeline to meet the end goal of ensuring water supply available from reservoir storage exceeds demand by at least 10% through the year 2060.

Geographic Scope:

- The entire Smoky Hill-Saline Planning Region.

Regulation/Policy Changes:

- TBD

Smoky Hill-Saline Regional Advisory Committee
Priority Goal #2 Action Plan

Priority Goal #2: Develop a statewide conservation education program/model which is applicable to all public water supplies which quantifies water conservation efforts on customer usage. Develop a youth-based water conservation education program which is tied to school curriculum. Provide producers with tools and resources needed to make informed management decisions which improve water use efficiency. Educate all Planning Region stakeholders on the benefits of water conservation, thus working towards sustainable use of the region's water surface and groundwater resources.

Action Steps

- Work with the Statewide Vision Education and Public Outreach Working Group to ensure Smoky Hill-Saline Planning Region stakeholders are educated on the benefits of water conservation, thus working towards sustainable use of the region's water surface and groundwater resources.

Responsible and Other Assisting Agencies/Organizations:

- Statewide Vision Education and Public Outreach Working Group implementing agencies and organizations.

Resources Needed:

- Identified by the Education and Public Outreach Working Group to the Blue Ribbon Funding Task Force.

Timeframe of Completion:

- Throughout Vision implementation period.

Geographic Scope:

- Statewide with RAC efforts focused within the Smoky Hill-Saline Planning Region.

Regulation/Policy Changes:

- None.

Smoky Hill-Salilne Regional Advisory Committee
Priority Goal #3 Action Plan

Priority Goal #3: Reduce sediment and total suspended solids (TSS) concentrations within the lakes and streams within the Smoky Hill – Saline Planning Region. Method of attaining goal can include the continued support of best management practice (BMP) implementation for practices which reduce sediment runoff. Focus BMP implementation within priority areas identified in Big Creek Middle Smoky Hill River Watersheds 9 Element Watershed Protection Plan. Timeframe of implementation: Complete by 2040 - Final year of 9 Element Watershed Protection Plan is 2034. Result of efforts: 26% reduction of TSS concentrations on the Smoky Hill River at Ellsworth as noted within the 9 Element Watershed Protection Plan. Remove sediment-impaired waters from the KDHE TMDL list.

Action Steps

- Continued support of locally led and driven efforts, such as the WRAPS program and projects within the region, within watersheds and the BMPs noted for implementation within the 9 Element Watershed Plans.
- Continue to support NRCS programs/initiatives such as RCPP, EQIP, easement programs, WRP, CSTP, etc., which can be utilized to implement sediment-reducing BMPs as well as improve soil health. Identify sources of sediment contributing to TSS/sediment in water bodies (i.e. streambank assessments, etc.).
- Continue to support KDA-DOC programs/initiatives such as the nonpoint source program, watershed program, water resource conservation program and the funding provided to DOC through the State Water Plan fund.
- BMP implementation above water supply waters to help facilitate settling out of solids before entry into water supply water (i.e. forebays, settling basins).
    - BMP implementation should continue to reduce sedimentation rate of Kanopolis Reservoir as well as other water supply sources.
- Enhance and continue to support information/educational (I&E) efforts focused towards landowners to help reduce sediment runoff on their respective property.
- Include consideration of Wilson Reservoir and the upstream watershed of sediment sources which could impact capacity including bathymetric survey analysis to help quantify current capacity of lake.
- Evaluate sediment and nutrient loading originating from watershed above Herington Reservoir which could impact its viability as a public water supply source. Utilize the June 2008 bathymetric surveys on Herington Reservoir and Herington City Lake as baseline characterization of current capacity lost in lakes due to sedimentation.

Responsible Agencies/Organizations:

- Kansas Water Office, Kansas Department of Health and Environment (including WRAPS Program), Kansas Department of Agriculture – Division of Conservation, Kansas Department of Wildlife, Parks & Tourism, Kansas Corporation Commission, Kansas Biological Survey (KBS), Kansas State University.

Other Assisting Agencies/Organizations:

- Local conservation districts, county governments, municipalities, U.S. Army Corps of Engineers, K-State Research & Extension, Kansas Forest Service, Kansas Association for Conservation & Environmental Education (KACEE), Federal Emergency Management Agency (FEMA), Natural Resource Conservation Service (NRCS), Environmental Protection Agency (EPA), Kansas Rural Center (KRC), U.S. Fish & Wildlife Service (USFWS), U.S. Bureau of Reclamation, local industry/commerce, Kansas Rural Water Association (KRWA), local watershed districts, colleges/universities, Quail Forever, Pheasants Forever, Kansas Alliance for Wetlands & Streams (KAWS), other local groups.

Resources Needed:

- WRAPS program to provide coordination of efforts among other agency/organizations needed.
- Planners/designers and implementers for BMPs to be implemented for specific projects (i.e. streambank stabilization projects.).
- Cost estimates to fully implement WRAPS 9 Element watershed plans within Smoky Hill-Saline Planning Region is approximately **$1.56 million annually**.

- Additional costs outside of this annual cost would be expected as well.

Timeframe of Completion:

- Actions to be completed by 2040

Geographic Scope:

- WRAPS project areas within Smoky Hill-Saline Planning Region
- Saline drainage above Wilson Reservoir
  - More assessment information needed in this area to characterize BMP needs.

Regulation/Policy Changes:

- Continue to oppose current Waters of the United States (WOTUS) efforts.
- Streamline process and provide latitude to acquire necessary permits for streambank stabilization or other BMPs to reduce/remove additional requirements and costs.

Smoky Hill-Saline Regional Advisory Committee
Priority Goal #4 Action Plan

Priority Goal #4: Increase public water supply water use efficiency for suppliers within the region. Method of attaining goal can include the promotion of development of new or updated water conservation program plans for public water supplies within the Smoky Hill – Saline Planning Region. Implementation of conservation measures which lead to all public water supplies in the Smoky Hill – Saline Planning Region operating in the bottom 1/3rd of Gallons per Capita Per Day (GPCD) when compared to other public water supplies within respective Regions used for GPCD comparison. Timeframe of implementation: Complete by 2040. The results of the efforts will be obtaining the same or increased outputs within participating municipalities while utilizing the same or less amounts of water.

Action Steps

- All public water supplies follow the 2007 Kansas Municipal Water Guidelines and have a recently updated conservation plan.
- Public water supplies evaluate the feasibility of water conservation rates.
- Public water supplies develop and promote rebate programs geared towards water conservation efforts.
- Develop a "tool box" of educational information PWSs could utilize to pass information along to customers.
- Work through the framework of existing statewide education efforts to:
    - Develop region-wide outreach campaign promoting water conservation efforts.
- Report GPCD values on an annual basis at RAC meetings
- Develop an independent technical task force to help large water users within public water supply systems to improve water use efficiency.
- Hold annual public water supply "field days" to share current water conservation efforts.
    - Make sure media is involved with promotion of these events.

Responsible and Other Assisting Agencies/Organizations:

- Public water suppliers within Region, Kansas Water Office, Kansas Department of Agriculture – Division of Water Resources, Kansas Rural Water Association, Kansas Municipal Utilities

Resources Needed:

- Technical and financial resources for region-wide outreach campaign and independent technical task force.

Timeframe of Completion:

- Complete by 2040

Geographic Scope:

- Entire Smoky Hill-Saline Planning Region

Regulation/Policy Changes:

- None noted.