

Kansas Water Authority

Meeting

October 19, 2022

Sedgwick County, KS



MEETING AGENDA

<i>Time</i>	<i>Agenda Item</i>	<i>Presenter</i>	<i>KWA Advice</i>	<i>KWA Decision</i>	<i>Page No.</i>
9:00 am	Call to Order/Roll Call	Dawn Buehler	--	--	--
9:05 am	Approval of Meeting Minutes				--
	August 10, 2022 Water Policy Discussion August 17, 2022 Meeting	Dawn Buehler		X	2
9:10 am	KWA Public Water Supply Committee Update	John Bailey			--
	Water Purchase Contract No. 17-2, Wolf Creek Request Letter to U.S. Army Corps of Engineers	Nathan Westrup		X	8
9:40 am	KWA RAC Operations Committee Update	Jeremiah Hobbs			
	RAC Membership <i>Additional information to be provided at meeting</i>			X	--
9:50 am	Kansans for Conservation	Jordan Martincich Rob Manes			--
10:20 am	BREAK				
10:35 am	KWA Kansas Water Plan/Water Policy Discussion	Dawn Buehler	X		--
11:05 am	Legislative Update	Matt Unruh			--
11:20 am	KWA Annual Report to Governor & Legislature Discussion	Matt Unruh	X		--
11:50 am	Federal Update				
	U.S. Corps of Engineers PAS Agreements	Josh Olson		X	11
12:00 pm	LUNCH				
1:00 pm	Federal Update (Continued)				
	Kansas River Reservoirs Flood and Sediment Study	Laura Totten			--
1:30 pm	Water Success Story – Sorghum in Kansas	Sarah Sexton-Bowser			--
2:00 pm	KWA Ex Officio Agency Updates	Dawn Buehler			--
2:30 pm	Future KWA Meeting Schedule	Dawn Buehler			--
2:40 pm	Director's Report	Connie Owen			--
2:50 pm	New Business	Dawn Buehler			--
3:00 pm	Adjourn	Dawn Buehler			--

Call to Order/Roll Call

Call to Order/Roll Call; *Dawn Buehler*

Minutes

Presented by: Dawn Buehler



Action Needed

Approval of minutes from:

August 10, 2022

August 17, 2022

KWA Public Water Supply Committee

Presented by: John Bailey & Nathan Westrup

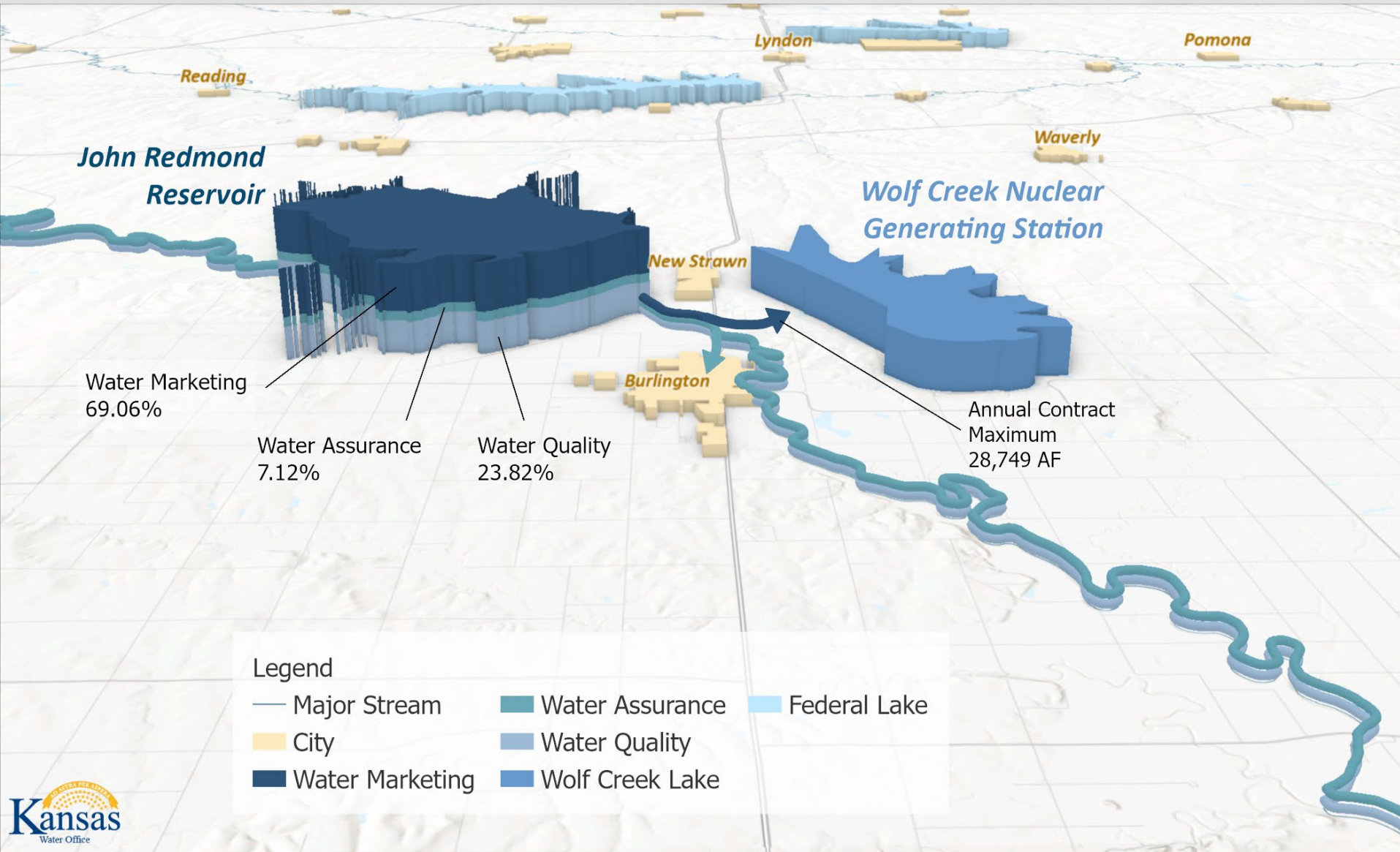
Actions Needed Following 10/11/2022 Meeting:

- Consider approval of negotiated amendment to Water Purchase Contract No. 17-2
- Consider recommendation of the committee to encourage the Director to send a letter to the U.S. Army Corps of Engineers asking for a Public Assistance to States (PAS) study targeting potential technical approaches to managing sediment and achieving sustainability of federal reservoirs in Kansas

Cottonwood/Neosho Water Supply



John Redmond / Wolf Creek

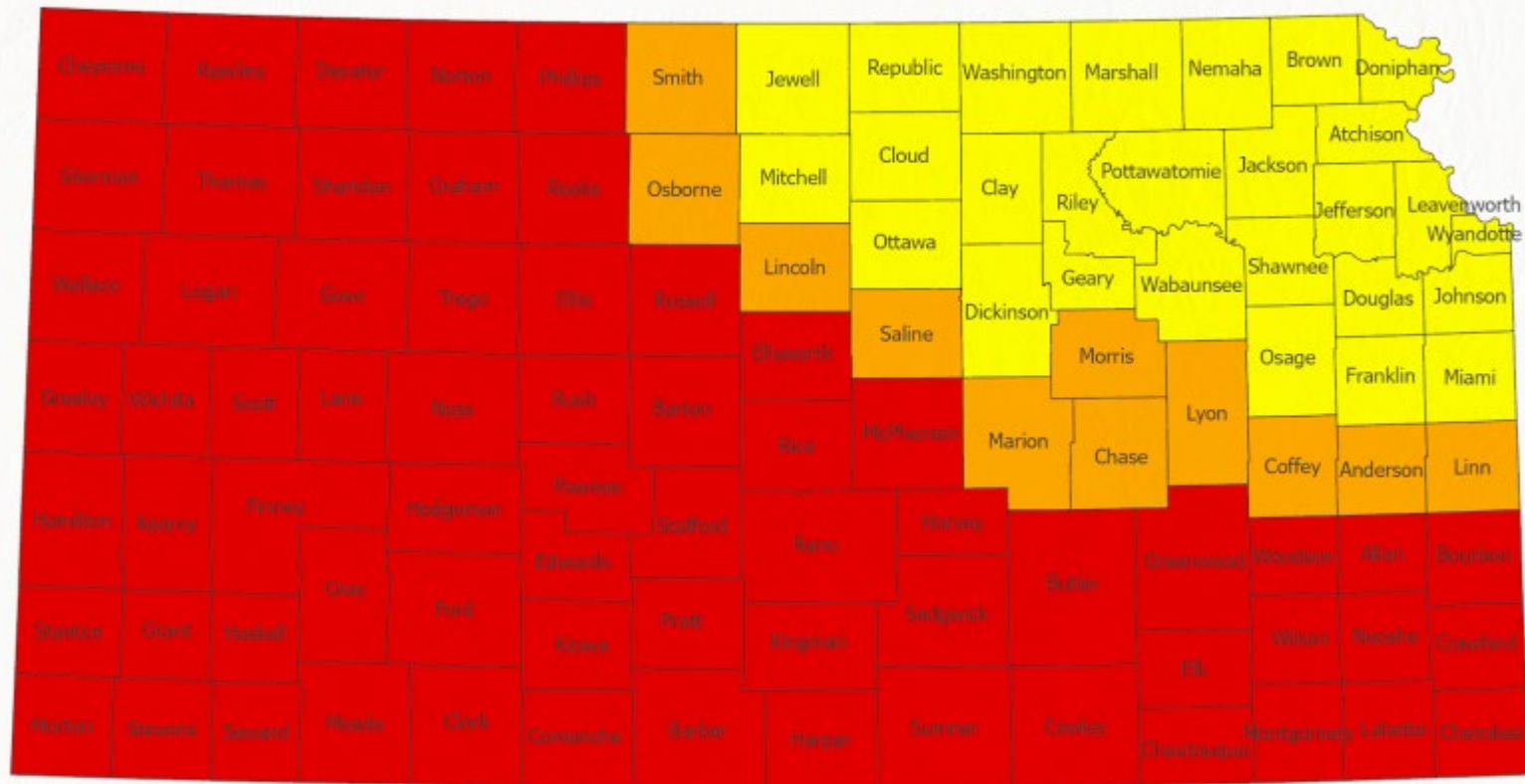


John Redmond / Wolf Creek

- Water Purchase Contract No. 17-2
 - Original Term of 5 years (maximum 40)
 - Expires 12/31/22
 - Quantity: 9,368 MGY
- Negotiated amendment
 - Article 2, extend contract term to 12/31/2027
 - Article 6(b), statute requires quantity review on sixth anniversary
- Committee recommends approval
- Kansas Water Authority (action)

Drought Operations

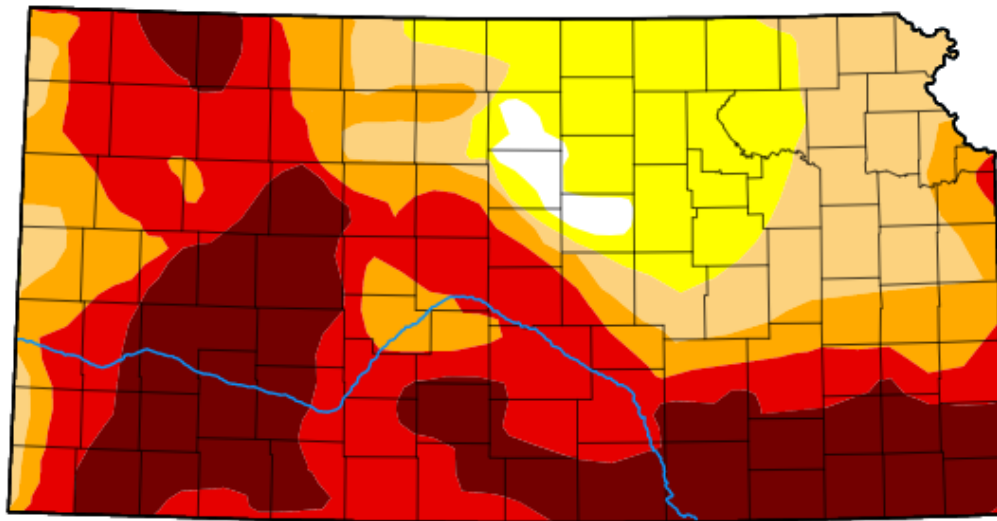
Governor Declares Drought Emergency, Warnings and Watches for Kansas Counties September 30, 2022



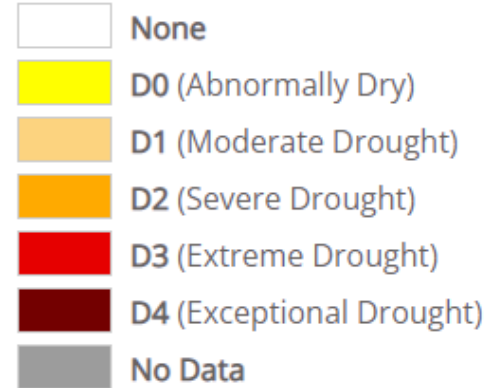
Emergency Warning Watch

Map released: Thurs. October 6, 2022

Data valid: October 4, 2022 at 8 a.m. EDT



Intensity



Authors

United States and Puerto Rico Author(s):

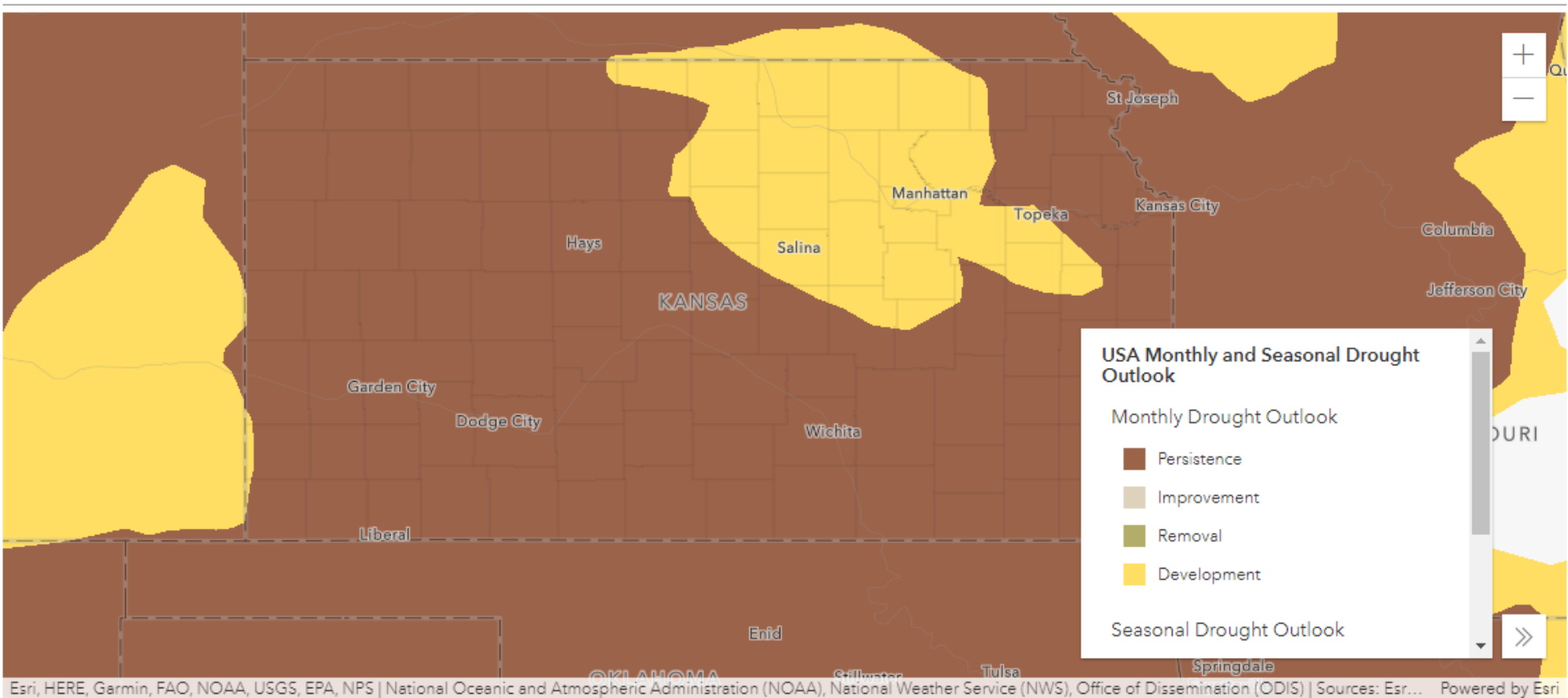
Brad Pugh, NOAA/CPC

Pacific Islands and Virgin Islands Author(s):

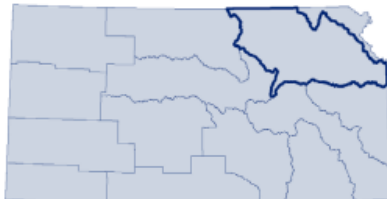
Richard Tinker, NOAA/NWS/NCEP/CPC

Persistence & Further Development

Drought Outlook - Monthly and Seasonal



Kansas River Water Supply Storage Customers



Allocations Above Delaware River Confluence			
Member	Max Authorized (AF/yr)	% of Total *	Max Use 1990 (AF/yr)
Junction City	4,695	1.02%	5,162
Manhattan	12,240	2.63%	7,928
Westar JEC	61,368	13.3%	32,957
Topeka	47,358	10.27%	33,186
Hills Foods	1,120	0.24%	988
Westar TEC	65,258	14.16%	3,432
Futamura	3,228	0.7%	2,897
Millford Marketing			
Westar Energy, JEC	22,403	4.86%	---
Total	217,670	47.18%	86,550

Allocations Below Delaware River Confluence			
Member	Max Authorized (AF/yr)	% of Total *	Max Use 1990 (AF/yr)
Westar LEC	33,888	7.35%	7,502
Lawrence	25,018	5.42%	8,231
Sunflower & JoCo	53,724	11.66%	0
DeSoto	3,804	0.83%	1,156
Bonner Springs	3,225	0.7%	1,265
Olathe	29,230	6.34%	15,746
WaterOne	74,280	16.1%	42,471
VVF Ltd	798	0.17%	---
Clinton Marketing			
Lawrence, Baldwin, Douglas Co. RWD's 1-6	19,603	4.25%	---
Total	243,570	52.82%	76,371

*Percent demand of total in basin

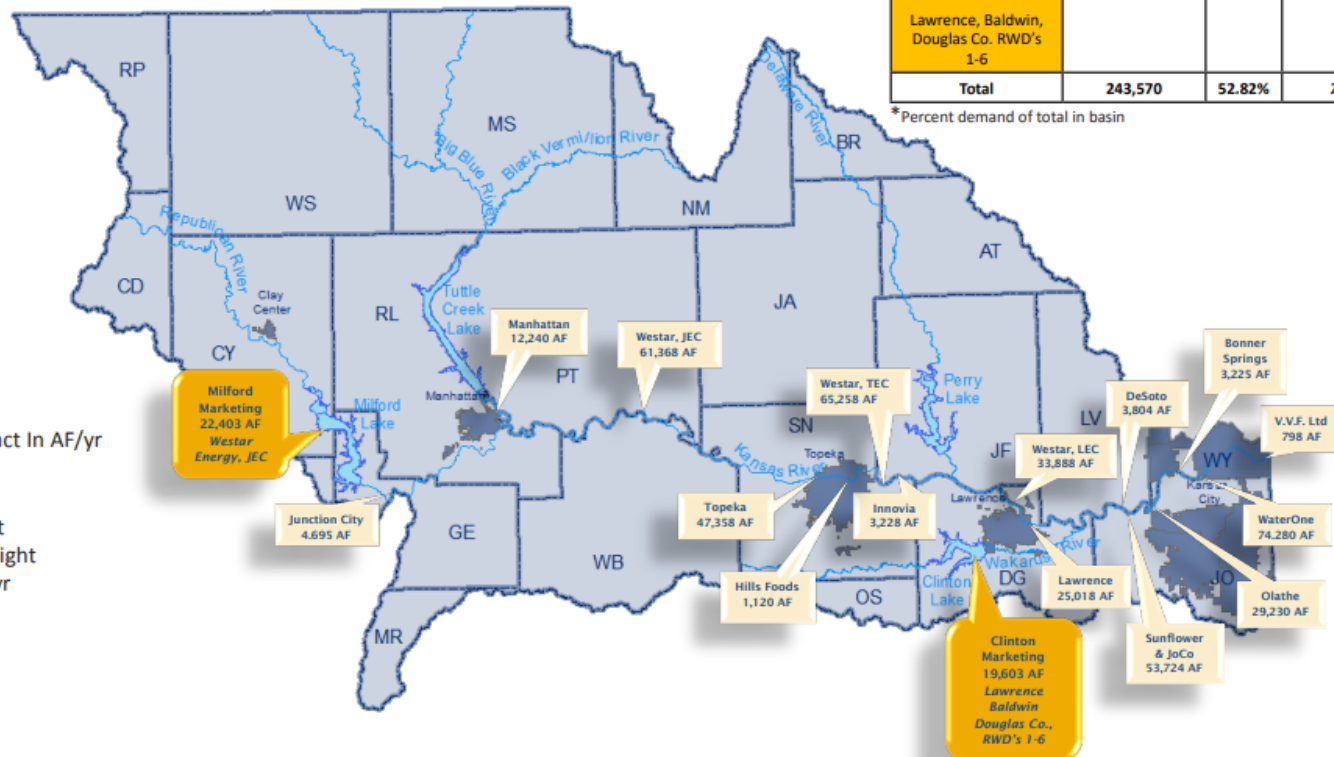
Map Legend



Marketing Contract In AF/yr



Assurance District
Member Water Right
Allocation In AF/yr



Marais des Cygnes River Water Supply Storage Customers

Member	Max Authorized (AF/yr)	% of Total	Max since 1990 (AF/yr)
City of Ottawa	2,753.4	4.34%	2,024.1
Franklin County RWD No. 6	414.3	0.66%	385.29
City of Osawatomie	2,034.2	3.21%	1,082.6
MdC Public Utility Authority	4,893.6	7.72%	1,338.8
City of LaCygne	801.0	1.26%	444.4
KCP&L	33,697.0	53.17%	14,323
City of Melvern	61.4	0.1%	61.4
Melvorn Marketing			
Osage City, Burlingame, PW- WSD No. 12, Harveyville	2,263	3.57%	---
Pomona Marketing	171	0.27%	---
Osage RWD No. 3			
Hillsdale Marketing HAWC	16,291	25.7%	---
Total (AF/yr)	63,379.9	100%	19,659.59



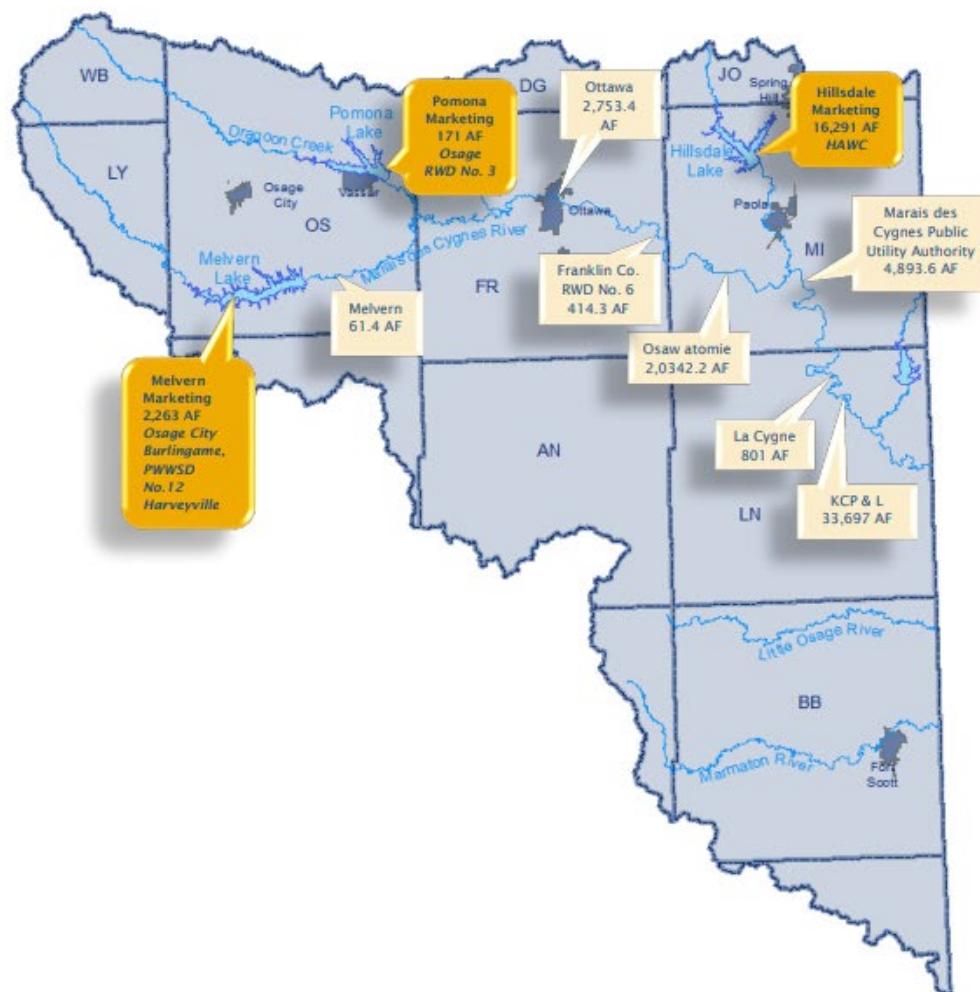
Map Legend



Marketing Contract In AF/yr

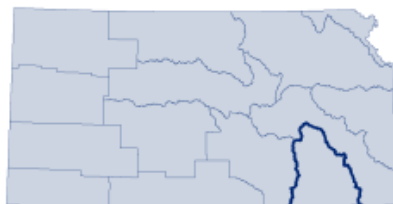


Assurance District
Member Water Right
Allocation In AF/yr



Verdigris River Water Supply Storage Customers

Member	Max Authorized (AF/yr)	% of Total	Max Since 1990 (AF/yr)
Altoona	138	0.51%	108
PWWSD #23	2,916	10.65%	1,071
City of Neodesha	3,593	13.12%	879
City of Independence	2,592	9.47%	1,688
Heartland Cement	283	1.03%	240
City of Coffeyville	4,603	16.81%	4,086
Coffeyville Resources	7,841	28.64%	6,738
Big Hill Marketing	1,395	5.1%	---
PWWSD No. 4			
Elk City Marketing	4,015	14.67%	---
Coffeyville, Coffeyville Resources			
Total	27,376	100%	14,810



Map Legend



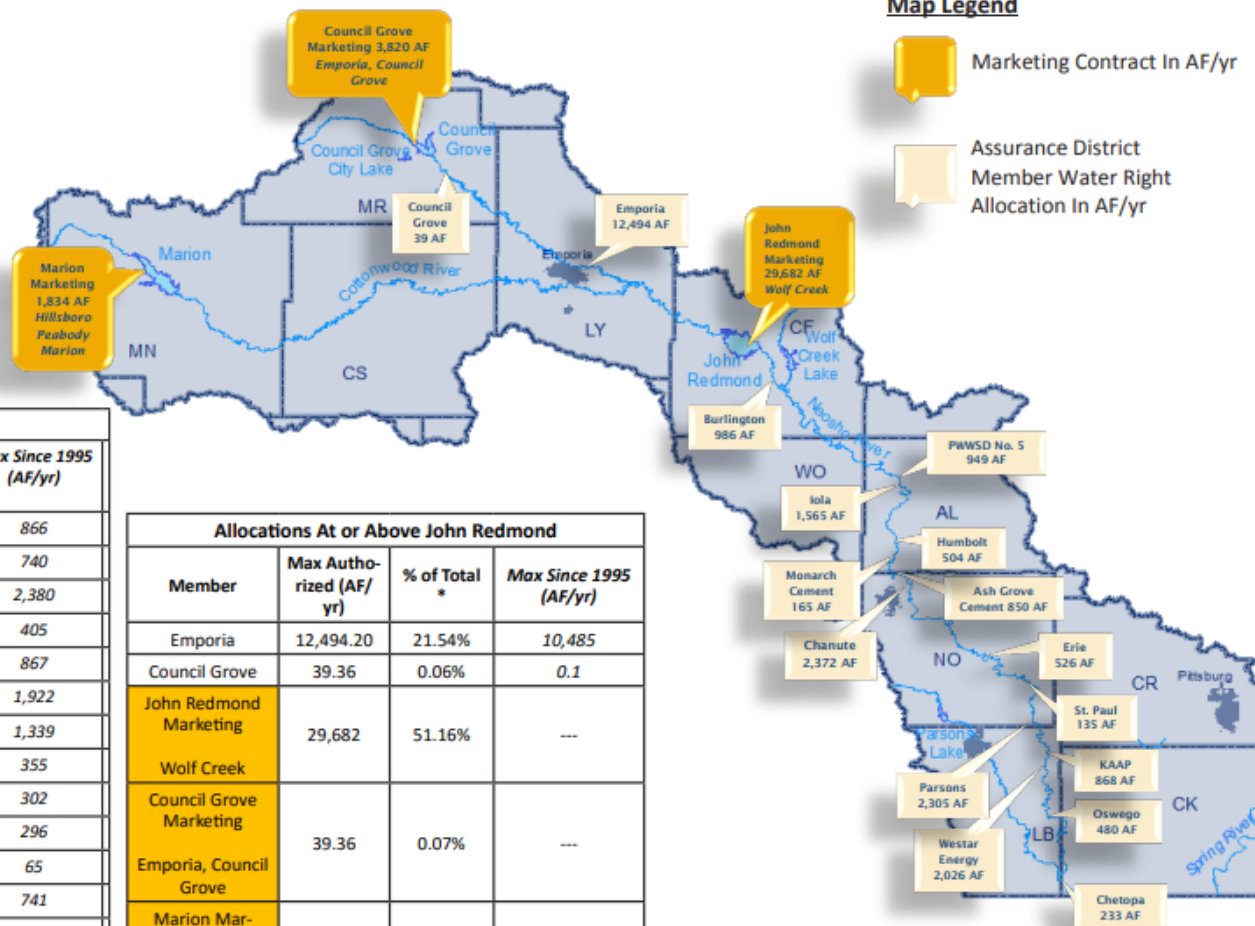
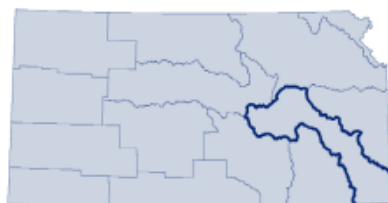
Marketing Contract In AF/yr



Verdigris Region MOA
Water Right Allocation In
AF/yr



Cottonwood & Neosho River Water Supply Storage Customers



Allocations Below John Redmond			
Member	Max Authorized (AF/yr)	% of Total *	Max Since 1995 (AF/yr)
PWWSD No. 5	948.95	1.64%	866
Burlington	986.39	1.7%	740
Parsons	2,304.73	3.97%	2,380
Erie	526.53	0.91%	405
Westar Energy	2,026.45	3.49%	867
Chanute	2,371.80	4.09%	1,922
Iola	1,565.09	2.7%	1,339
Humboldt	504.06	0.87%	355
Oswego	480.52	0.83%	302
KAA GPD/D&Z	868.19	1.4%	296
Monarch Cement	165	0.28%	65
Ash Grove Cement	849.91	1.46%	741
Chetopa	233.24	0.40%	210
St. Paul	135.06	0.23%	109
Total	13,966	24.07%	10,597

Allocations At or Above John Redmond			
Member	Max Authorized (AF/yr)	% of Total *	Max Since 1995 (AF/yr)
Emporia	12,494.20	21.54%	10,485
Council Grove	39.36	0.06%	0.1
John Redmond Marketing	29,682	51.16%	---
Wolf Creek			
Council Grove Marketing	39.36	0.07%	---
Emporia, Council Grove			
Marion Marketing	1,834	3.16%	---
Hillsboro, Peabody, Marion			

Capital Development Plan

- Statutory reference, 82a-1308a (a)(5)(B)
 - Water Marketing Revenue should be sufficient to meet the needs of the **water marketing program capital development and storage maintenance plan**, as approved by the Kansas water authority

Capital Development Plan

- The committee continued to discuss fiscal policy of the Water Marketing Program
 - Debt paydown
 - Operating reserves
 - Capital reserves
 - Rate stabilization
 - Debt service ratio
- The committee focused in on the need for KWO to further engage with the U.S. Army Corps of Engineers in cost share studies of technical approaches to managing sediment in order to determine long-term financial needs

Capital Development Plan

- Committee action:

- *The KWA Public Water Supply Committee recommends to the full Kansas Water Authority that the KWA encourage the Director of the Kansas Water Office to send a letter to the U.S. Army Corps of Engineers asking for a Public Assistance to States (PAS) study targeting potential technical approaches to managing sediment and achieving sustainability of federal reservoirs in Kansas.*

KWA RAC Operations Committee

Presented by: Jeremiah Hobbs & Angela Anderson



Actions Needed Following 10/17/2022 Meeting:

- RAC Membership

Kansans for Conservation

Presented by: Jordan Martincich and Rob Manes

BREAK

Meeting will resume soon

Kansas Water Authority

Kansas Water Plan/Water Policy Discussion

Presented by: Dawn Buehler

Legislative Update

Presented by: Matt Unruh

Special Committee on Water

August 29-30, 2022

Senate

Sen. Dan Kerschen, Chairperson

✦ Sen. Carolyn McGinn

Sen. Ron Ryckman

Sen. Alicia Straub

Sen. Mary Ware

House

Rep. Ron Highland, Vice-chairperson

Rep. Cyndi Howerton

Rep. Jim Minnix

Rep. Joe Newland

Rep. Lindsay Vaughn

Rep. Rui Xu

✦ *Sen. John Doll participated in Sen. McGinn's absence*

Special Committee on Water

August 29-30, 2022

Monday, August 29 All Day Session Room 112-N—Statehouse

Harmony: <http://sg001-harmony.sliq.net/00287/Harmony/en/PowerBrowser/PowerBrowserV2/20220823/-1/15260>
YouTube: <https://youtu.be/dalZfJFNIYY>

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|------------|--|
| 9:00 a.m. | Welcome and Introductions |
| 9:10 a.m. | Review of Topic and Resources <ul style="list-style-type: none">● Kansas Legislative Research Department (KLRD) Staff |
| 9:15 a.m. | Review of Water Programs Organization and Previous Water Meetings <ul style="list-style-type: none">● KLRD Staff |
| 9:30 a.m. | Division of Water Resources Agency Overview <ul style="list-style-type: none">● Earl Lewis, Chief Engineer, Division of Water Resources, Kansas Department of Agriculture |
| 10:15 a.m. | Kansas Water Office Agency Overview <ul style="list-style-type: none">● Connie Owen, Director, Kansas Water Office |
| 11:00 a.m. | Division of Conservation Agency Overview <ul style="list-style-type: none">● Andrew Lyon, Director of Conservation, Kansas Department of Agriculture |
| 11:45 a.m. | Lunch |
| 1:00 p.m. | Kansas Department of Health and Environment Agency Overview <ul style="list-style-type: none">● Leo Henning, Deputy Secretary of Environment, Kansas Department of Health and Environment |
| 1:45 p.m. | Presentation on Aquifer History, Rates of Decline, and Life Expectancy <ul style="list-style-type: none">● Jay Kalbas, Director, Kansas Geological Survey● Brownie Wilson, Manager of Geohydrology Support Services, Kansas Geological Survey |
| 2:30 p.m. | Presentation on Pumping Reductions <ul style="list-style-type: none">● Jim Butler, Senior Scientist, Hydrology, Kansas Geological Survey |
| 3:15 p.m. | Funding Overview <ul style="list-style-type: none">● Victoria Potts, Senior Fiscal Analyst, KLRD |
| 3:45 p.m. | Adjourn |

Tuesday, August 30 All Day Session Room 112-N—Statehouse

Harmony: <http://sg001-harmony.sliq.net/00287/Harmony/en/PowerBrowser/PowerBrowserV2/20220823/-1/15261>
YouTube: <https://youtu.be/RJWWI-vQxu8>

- | | |
|------------|--|
| 9:00 a.m. | Overview of Kansas Water Laws <ul style="list-style-type: none">● Professor Burke W. Griggs, Washburn University School of Law |
| 10:00 a.m. | Overview of Financial Plan <ul style="list-style-type: none">● Representative Joe Newland |
| 10:30 a.m. | Discussion, Questions, and Recommendations |
| 12:00 p.m. | Lunch |
| 1:00 p.m. | Continued Discussion, Questions, and Recommendations |
| 3:00 p.m. | Adjourn |

Special Committee on Water

August 29-30, 2022

Committee Discussion/Recommendations:

- Consideration of new funding sources:
 - bottled drinking water fee
 - gambling revenues
 - legalizing cannabis in the state.
- Increasing the current water fees.
- Additional funding used to implement more water conservation practices and retirement of water rights.
- Rep. Lindsay Vaughn: reorganization of the various water agencies.
- Sen. Dan Kerschen: GMDs to come to the legislature and offer their own conservation plans for their respective areas.
- Rep. Ron Highland encouraged large municipalities to be involved in discussions.
- Rep. Cyndi Howerton suggested conservation districts and advisory committees should be involved in finding solutions and offering water conservation plans.
- Sen. Mary Ware recommended moving the Chief Engineer outside of KDA
- Rep. Highland reminded the committee of his agency reorganization recommendations.

Legislative Budget Committee

September 20, 2022

Senate

Sen. Rick Billinger, Chairperson
Sen. J.R. Claeys
Sen. Tom Hawk

House

Rep. Troy Waymaster, Vice-chairperson
Rep. Kyle Hoffman
Rep. Will Carpenter
Rep. Kathy Wolfe Moore

KWO presentation before LBC on reservoir water supply storage debt

- \$80M appropriation for Big Hill, Clinton and Hillsdale
- Remaining obligations for Milford and Perry

KWA Annual Report to the Governor and Legislature Discussion

Presented by: Matt Unruh

01	Letter from the Chair
02	State Water Plan Fund Recommendations
04	Summary of Request for SGF/EDIF Transfer Restoration
04	Kansas Water Plan 5-Year Update
05	KWA Performance-Based Budgeting
	Ogallala Aquifer Initiatives
06	Water Conservation Areas/Local Enhanced Management Areas
07	KWO Water Technology Farms
07	KDA Irrigation Technology
08	KDA Water Transition Assistance Program/Conservation Reserve Enhancement Program
08	Index Well Network & Modeling
	Reservoir Water Supply & Sediment Management
09	KWO Bathymetric Survey Program
10	KWO Water Injection Dredging
10	KDA Streambank Stabilization
11	KWO Watershed Conservation Practice Implementation
11	KDA Watershed Dam Construction
12	KWO Unfunded Liability & Capital Development Plan Update
	Water Quality Initiatives
14	KWO Milford Lake Watershed Regional Conservation Partnership Program
14	KDHE Watershed Restoration and Protection Strategy (WRAPS)
15	KDHE Harmful Algal Bloom Pilot Project
15	KDA Soil Health
16	KDHE Drinking Water Protection Program
16	KDHE Contamination Remediation
16	KDA Water Resources Cost-Share
17	KWO Equus Beds Chloride Plume Project
17	KWO Produced Water Pilot Project
18	KDA Non-Point Source Pollution Assistance
18	KDA State Aid to Conservation Districts
19	KWO Arbuckle Study
19	Mineralization Studies
20	KDHE Total Maximum Daily Load Program
20	KDWP Aquatic Nuisance Species Program
	Statewide Water Issues
21	Quivira/Rattlesnake Creek
22	Hays/Russell – R9 Ranch Water Transfer
22	Wichita Aquifer Storage and Recovery (ASR)
23	Republican River Update
23	Kansas-Colorado Arkansas River Compact Update
24	Missouri River Coordination
24	Kansas River Reservoirs Flood and Sediment Study
25	Groundwater Recharge and Sustainability Project
25	General Mills/KDHE/Cheney Lake Watershed Initiative
26	Kansas Water Authority Membership Map

KWA Discussion/Input

- KWA Policy/Position Statements
 - Funding?
 - Ogallala-High Plains Aquifer?
 - Others?
- Statewide Water Issues
 - Still appropriate?
 - Others to consider?
- Other content/formatting considerations?

Federal Update – Reservoir Sustainability and Water Quality PAS Agreements (USACE)

Presented by: Josh Olson

- Kansas River Alluvial Aquifer Observation Well Network Maintenance and Modeling (\$240,000 in SFY23-25)
- Streambank Evaluation of the Cottonwood and Neosho Rivers above John Redmond Reservoir (\$50,000 in payments remaining in 2022; \$100,000 in SFY23-24)
- Sediment Coring for HAB Trends at Tuttle and Waconda Reservoirs (\$34,000 in payments remaining in 2022)

- Evaluating Long-Term HAB Trends at Wilson and Kirwin Reservoirs (\$100,000 in SFY23/24)
- Kansas Real-Time Flood Inundation Mapping Tool Development (\$50,500 in payments remaining in 2022; \$60,000 in SFY23/24)
- KWO Bathymetry (?)
- Total = up to \$600,000 - \$800,000 (State contributions)

Proposed Action Today:

- *The Kansas Water Office recommends the KWA give approval to the Director to enter into PAS agreement(s) with the U.S. Army Corps of Engineers for Reservoir Sustainability and Water Quality.*

THANK YOU TO TODAY'S
LUNCH SPONSOR



AMERICAN COUNCIL OF ENGINEERING COMPANIES
of Kansas

Federal Update – Kansas River Reservoirs Flood and Sediment Study

Presented by: Laura Totten
U.S. Army Corps of Engineers

Kansas Water Success Stories

Sorghum in Kansas

Presented by: Sarah Sexton-Bowser
Center for Sorghum Improvement

Kansas Water Authority Ex Officio Agency Updates

Presented by: Dawn Buehler

Kansas Water Authority Future Meeting Schedule

Presented by: Dawn Buehler

Upcoming Meetings:

- November 16-17, 2022 - Governor's Conference on the Future of Water in Kansas, Manhattan
- December 14, 2022 - Kansas Water Authority, Colby
- *January 24-25, 2023 – Kansas Water Authority, Topeka*
- *April 19, 2023 – Kansas Water Authority, TBD*
- *June 7, 2023 – Kansas Water Authority, Southwest Kansas (KGS Field Conference)*
- *August 23, 2023 – Kansas Water Authority, TBD*
- *October 18, 2023 – Kansas Water Authority, TBD*
- *December 13, 2023 – Kansas Water Authority, TBD*

Director's Report

Presented by: Connie Owen

New Business

Adjourn

Upcoming Meetings:

- November 16-17 - Governor's Conference on the Future of Water in Kansas, Manhattan
- December 14 - Kansas Water Authority, Colby