

# Kansas Water Authority

## In-Person & Virtual Meeting January 27, 2022

### *Options For Audio:*

- **Use Computer Audio via Zoom**  
**or**
- **Use your phone:**

Dial: (346) 248-7799

Meeting ID: 834 4316 5209

Passcode: 855851



# MEETING AGENDA

<i>Time</i>	<i>Agenda Item</i>	<i>Presenter</i>	<i>KWA Advice</i>	<i>KWA Decision</i>	<i>Page No.</i>
8:30 am	<b>Call to Order/Roll Call</b>	Dawn Buehler	--	--	--
8:35 am	<b>Approval of Meeting Minutes</b>				
	December 1, 2021 Meeting (Zoom)	Dawn Buehler		X	2
8:40 am	<b>KWA Public Water Supply Committee</b>	John Bailey			
	2022 Surplus Water Report	Nathan Westrup		X	4
9:10 am	<b>Kansas Water Plan Update</b>	Connie Owen	X		--
9:15 am	<b>Legislative Update</b>				
	Governor's FY 2023 Budget Recommendations	Matt Unruh	X		--
	House Water Committee	Connie Owen	X		--
10:00 am	<b>Governor Laura Kelly Comments</b>				
10:15 am	<b>BREAK</b>				
10:30 am	<b>State Water Plan Fund Data Dashboard</b>	Richard Rockel Katie Goff	X		--
11:00 am	<b>Kansas Drought Preparedness</b>	Dawn Buehler	X		--
11:10 am	<b>Kansas Water Success Stories</b>	Dawn Buehler	X		--
11:15 am	<b>KWA Ex Officio Agency Updates</b>				
11:35 am	<b>Director's Report</b>	Connie Owen	X		--
11:40 am	<b>New Business</b>				
11:45 pm	<b>Adjourn</b>				

# Call to Order/Roll Call

Call to Order/Roll Call; *Dawn Buehler*

# Minutes

Presented by: Dawn Buehler



Action Needed

Approval of minutes from:  
December 1, 2021

# KWA Public Water Supply Committee

Presented by: John Bailey & Richard Rockel

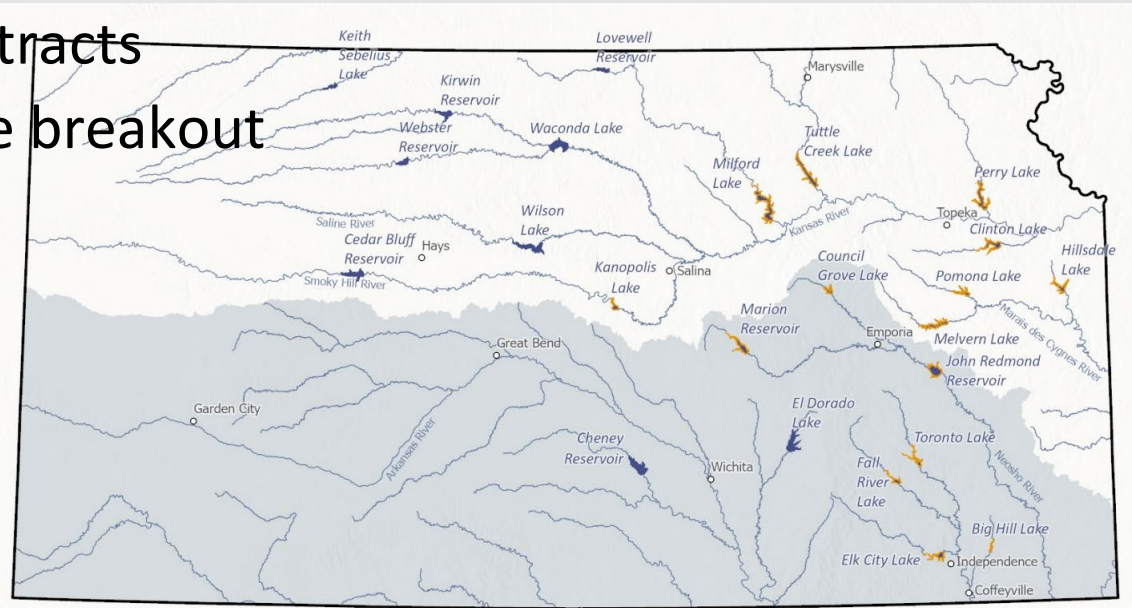


## Action Needed

- 2022 Surplus Water Report

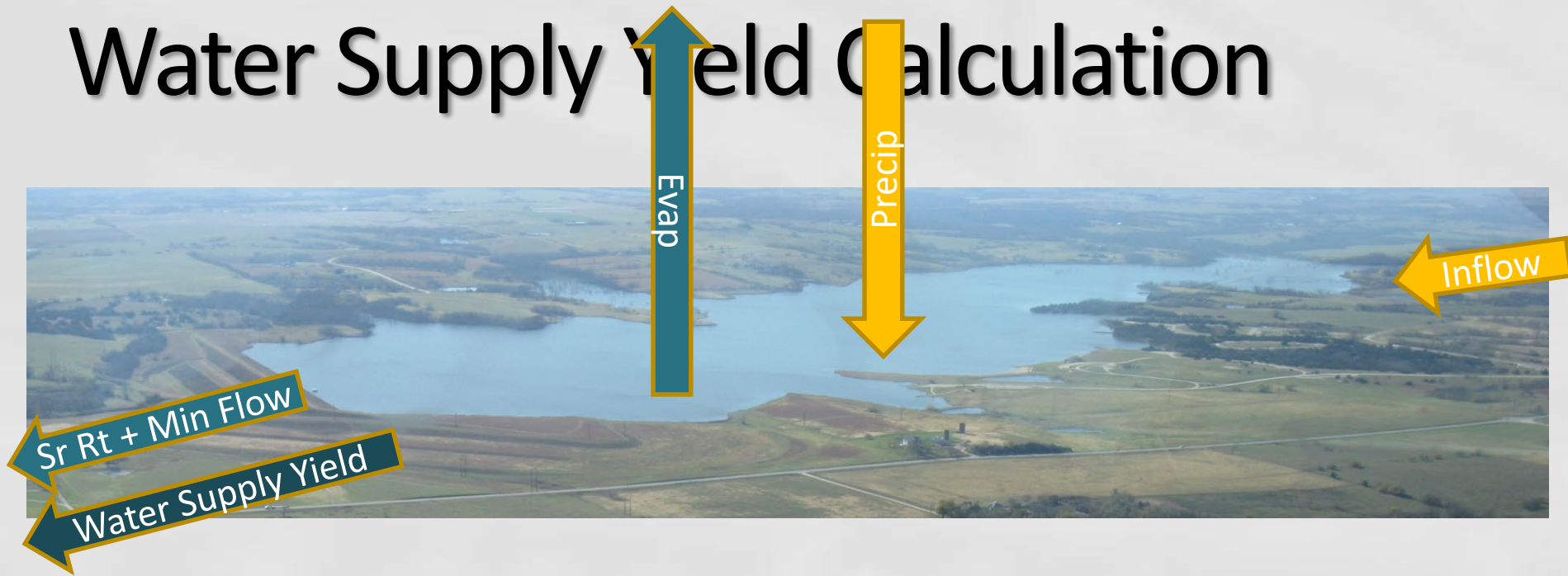
# Annual Surplus Report

- Provides the Director with authorization to enter into short term contracts, within calendar year, and in a timely manner
- Data updated annually
  - Calculated yield (w/ additional year of sediment)
  - Water Purchase Contracts
  - Conservation storage breakout
  - Current LLMP



Public Water Supply Reservoirs (Managed by the Kansas Water Office) Federal Reservoirs USACE - Tulsa District

# Water Supply Yield Calculation



- Optimization problem: maximize water supply arrow while making sure the reservoir doesn't completely dry up.
- Spreadsheet (accounting) model
- Today or 40 years from now



# Yield Available

## Surplus Water Available in 2022

Statute limits the amount of water that can be provided as surplus water in any one calendar year to 10% of the water supply yield capability, unless the Governor has declared an emergency which affects the public, health, safety or welfare. Surplus Yield is the yield associated with water supply storage that is not committed to another user for that year. The Surplus Yield Available for Contract is the amount of Surplus Yield associated with in-service storage, limited to 10% of the Water Supply Yield. Additional limitations may be applied if the system model results indicate less yield than the individual reservoir models.

**Summary Table**

Lake	Water Supply Yield		Surplus Yield in 2022		Surplus Yield Available for Contract	
	mgd	Af/yr	mgd	Af/yr	mgd	Af/yr
Big Hill (Pearson-Skubitz)	7.9	8,910	6.7	7,515	0.8	891
Clinton	17.9	20,071	2.0	2,273	0.0	0
Council Grove	8.3	9,289	3.5	3,967	0.8	929
Elk City	13.5	15,182	10.0	11,167	1.4	1,518
Hillsdale	15.5	17,328	1.5	1,673	0.0	0
John Redmond	30.0	33,588	1.5	1,699	0.0	0
Kanopolis	8.3	9,292	2.9	3,233	0.8	929
Marion	4.9	5,532	3.3	3,661	0.5	553
Melvern	8.6	9,625	5.0	5,659	0.9	962
Milford	107.7	120,737	68.0	76,203	0.0	0
Perry	75.0	84,044	62.5	70,034	0.0	0
Pomona	7.7	8,682	5.1	5,734	0.8	868
Toronto	4.6	5,138	4.6	5,138	0.1	121
Tuttle Creek	162.0	181,573	28.0	31,414	16.2	18,157



# Comparison to CY 2021

## Explanation of Yield Changes from CY 2022 Surplus Report

The primary difference between the water supply yields of this report and the previous year's report is due to the application of an additional year of sediment accumulation in each reservoir. The annual sedimentation rate at each reservoir is published online by the Kansas Water Office and establishes the annual volumetric reduction to the reservoirs listed in this surplus report. New bathymetric surveys may reveal changes to the historic sedimentation rates. In addition to the impact of annual sediment accumulation on yield, operational changes can impact yield. Additionally, KWO strives to use the best available information in the yield models and model revisions are necessary from time to time. The changes from 2021 to 2022 are summarized in the table below.

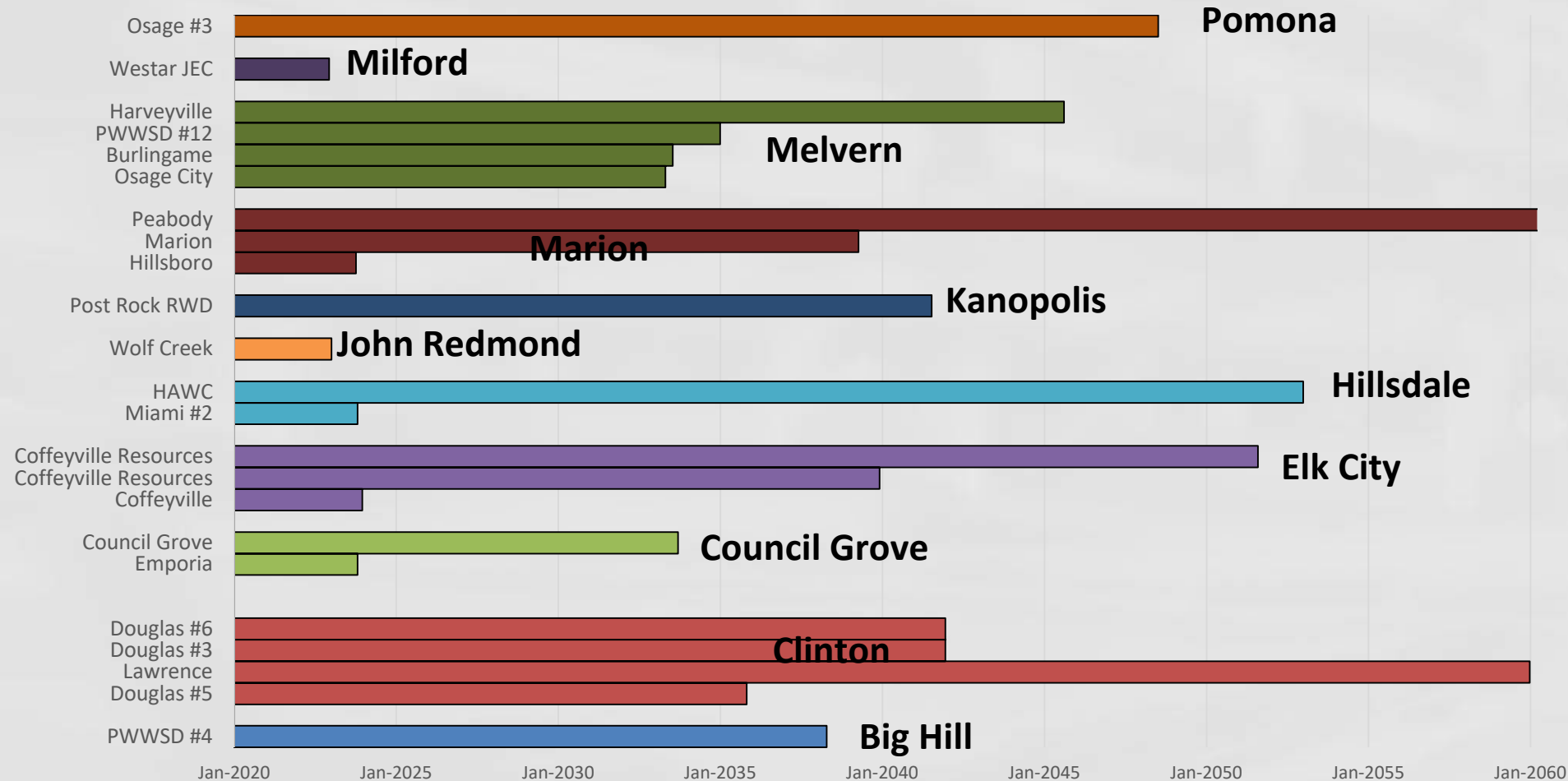
**Yield Changes From 2021 Surplus Report**

Lake	2021 Yield (MGD)	2022 Yield (MGD)	% Change from 2021	Comment
Big Hill (Pearson-Skubitz)	8.0	7.9	-0.6%	
Clinton	18.0	17.9	-0.5%	
Council Grove	8.3	8.3	-0.2%	
Elk City	13.7	13.5	-1.1%	
Hillsdale	15.5	15.5	-0.3%	
John Redmond	30.2	30.0	-0.8%	
Kanopolis	8.4	8.3	-1.3%	
Marion	5.0	4.9	-1.3%	
Melvern	8.6	8.6	-0.2%	
Milford	107.8	107.7	-0.1%	
Perry	75.4	75.0	-0.6%	
Pomona	7.8	7.7	-0.7%	
Toronto	4.6	4.6	-0.4%	
Tuttle Creek	163.5	162.0	-0.9%	

Yields units are million gallons/day (MGD)

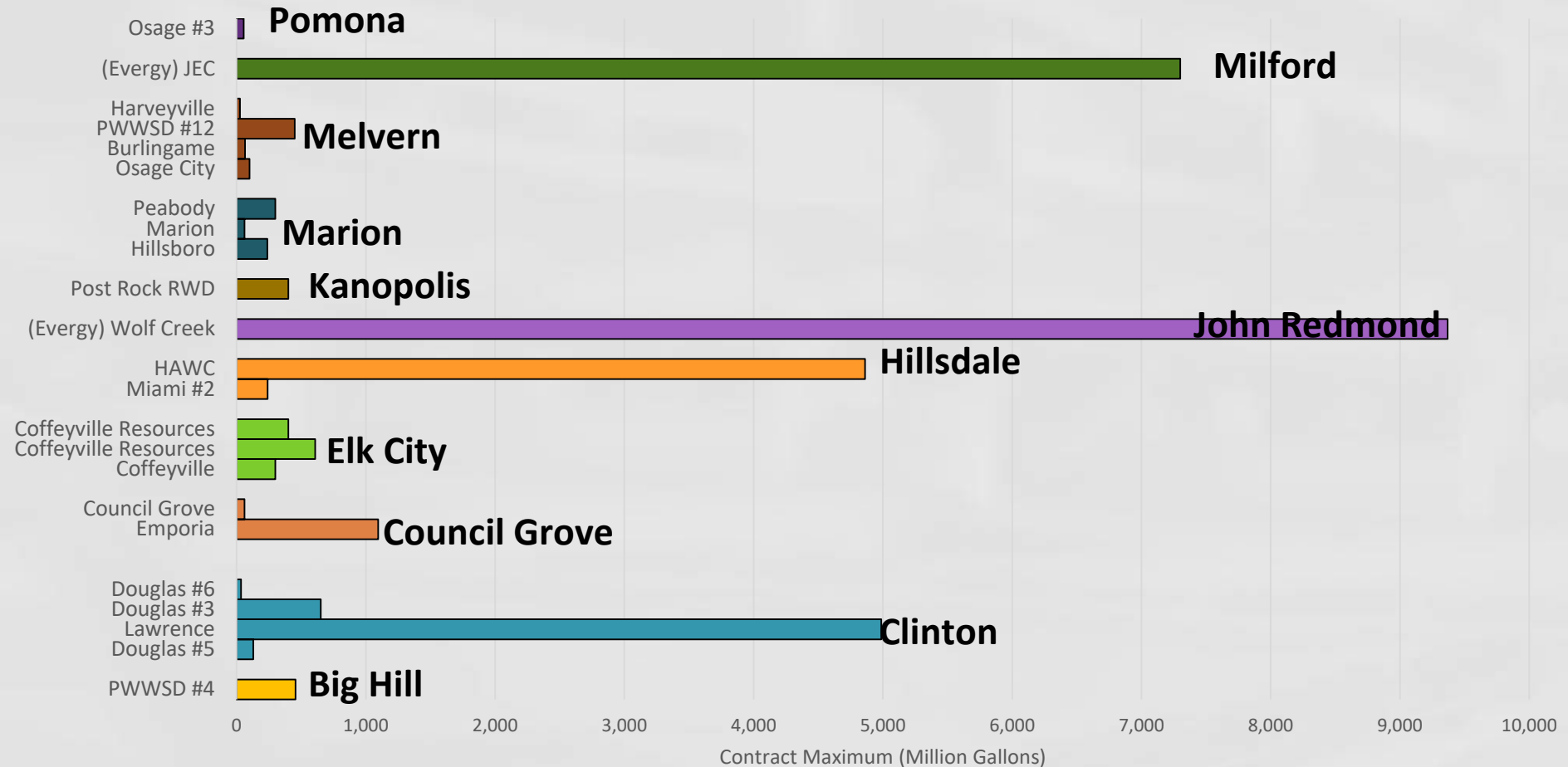
# Water Purchase Contract Update

## Remaining Duration of State Contracts



# Water Purchase Contract Update

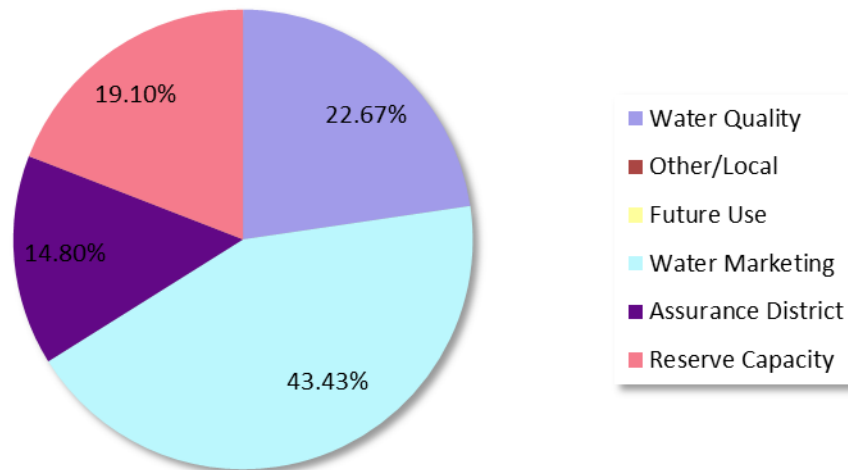
## Water Purchase Contracts - CY2022 Max Quantity



# Conservation Storage Breakout

Table 1: Conservation Storage Break Out

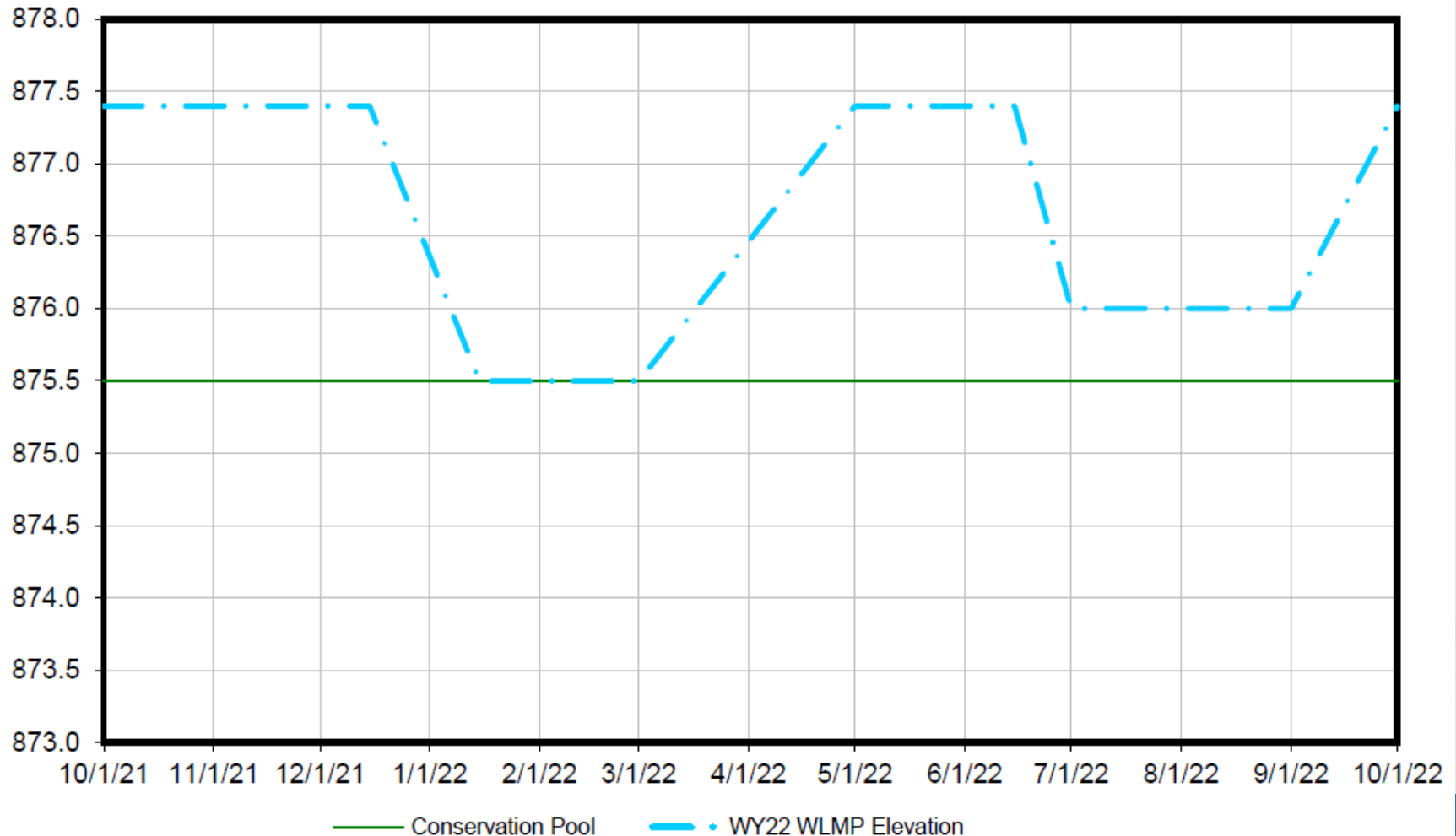
Conservation Pool Elevation (ft msl)		1240 - 1274	Flood Pool Elevation (ft msl)		1274 - 1289
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	22.67%		0		9,268
Other/Local	0.00%		0		0
Water Supply	77.33%		8.3		31,613
Future Use	0.00%		0.0		0
In Service	77.33%		8.3		31,613
Water Marketing		43.43%	4.7		17,754
Assurance District		14.80%	1.6		6,050
Reserve Capacity		19.10%	2.0		7,808



# Lake Level Management Plans

## Clinton Lake

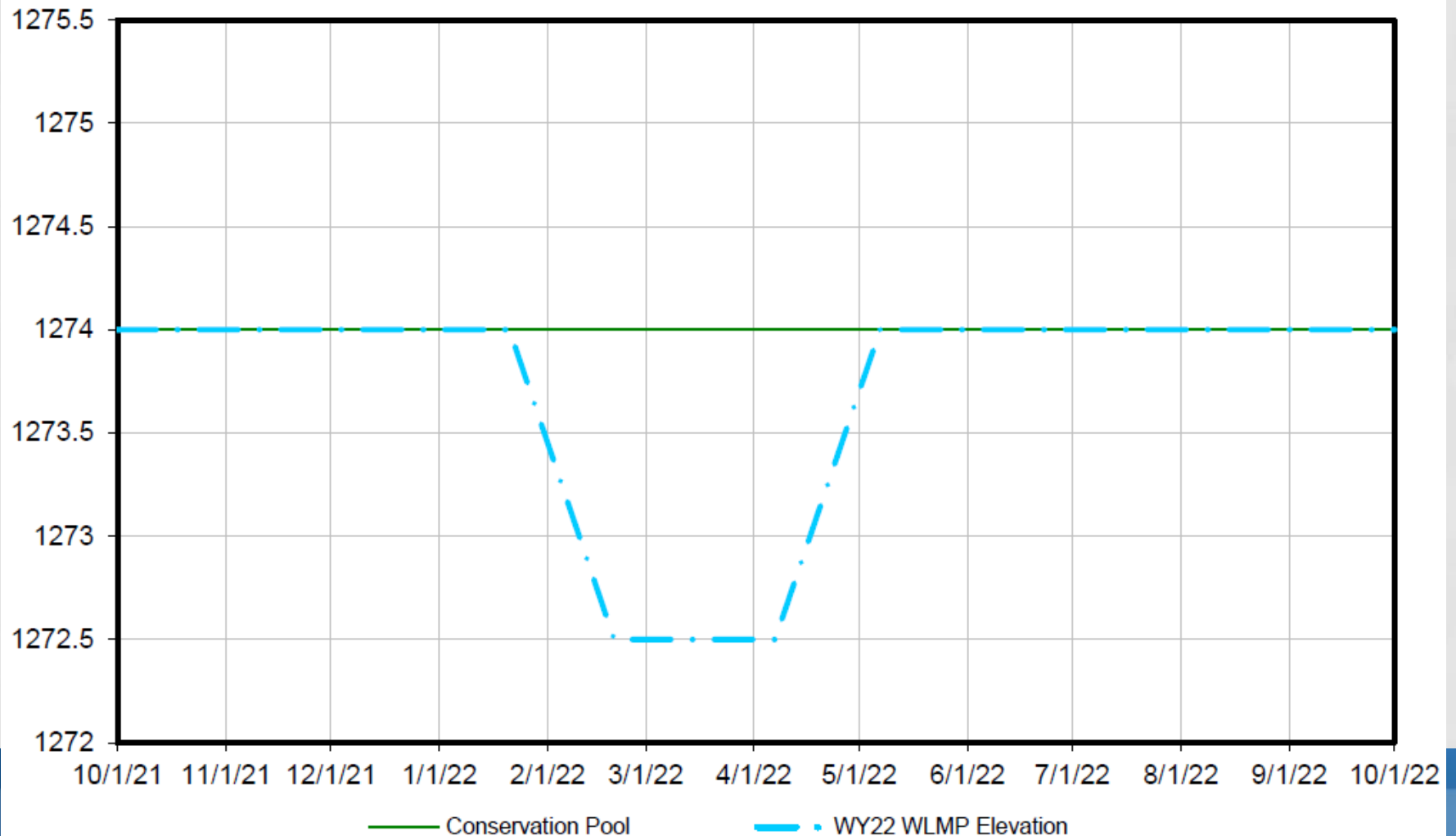
Conservation Pool = 875.5 Flood Pool (FP) = 903.4 5% into FP = 877.4



# Lake Level Management Plans

## Council Grove Lake

Conservation Pool = 1274.0 Flood Pool (FP) = 1289.0 5% into FP = 1275.0



# 2022 Surplus Water Report

## ● Next Steps

- KWA approval of the Surplus Water Available in Water Marketing Program Lakes, Calendar Year 2022 Report
- Report finalized and posted to KWO's website
- Director is authorized to approve surplus applications within calendar year 2022

### Recommendation

*The Public Water Supply Committee recommends that the Kansas Water Authority approve the Surplus Water Available in Water Marketing Program Lakes, Calendar Year 2022 report.*



# Water Marketing Program Debt

- Program debt refinance/restructure
  - Effort has experienced some delays due to uncertain plans of the program's largest customer (see memo) but will continue
  - Advice from PWS Committee
    - Identify components and scenarios to be included in the development of a financial Pro Forma
    - Update the Capital Development & Maintenance Plan
  - Financial consultant – Raftelis

# Kansas Water Plan Update

Presented by: Connie Owen

# Legislative Update

Presented by: Connie Owen & Matt Unruh

- Governor's FY 2023 Budget Recommendations
- House Water Committee Update

# Governor's Budget Recommendations

## Early Debt Retirement

**Retire \$586.1mil in debt, saving \$252.4mil of SGF over next 16 years**

*~Releases \$71mil of SGF in FY23 that would have otherwise gone to debt service~*

- KPERS Layering Payments (FY17/19 Skipped Payments)
  - Current payoff is \$253.8mil; with final payment scheduled for FY39
  - Pays off existing state debt, carried at interest rate of 7.75%
  - Eliminates \$25.8mil in SGF payments for next 14 years
  - Will save \$172.0mil of SGF vs. original payment schedule
- NBAF Bond
  - Current payoff is \$171.8mil, with maturity date of 2035
  - Eliminates \$17.4mil of SGF debt service in each of next 13 years
  - Will save \$54.6mil of SGF vs. original payment schedule
- Additional Bond (John Redmond Reservoir, KU Med Health Ed Building, etc.)
  - Current payoff is \$160.5mil, with maturity date of 2035
  - Eliminates \$27.8mil of debt service scheduled for FY23
  - Will save \$25.9mil of SGF vs. original payment schedule

Debt	Original Debt Service	FY22 Payoff	Savings
KPERS	425.8	253.8	(172.0)
2015G	226.4	171.8	(54.6)
2015A	186.4	160.5	(25.9)
Total	838.5	586.1	(252.4)

# Governor's Budget Recommendations

## Protecting State's Water Supply

### Governor proposing full statutory transfers to State Water Plan Fund

- Will be first full statutory transfer to State Water Plan Fund since FY08
  - Requires \$6mil from SGF and \$2mil from EDIF
  - Represents 39.7% increase vs. FY22 transfers
- Investing in water is critical for the state's future and our agriculture economy

Transfers to the State Water Plan Fund			
Fiscal Year	SGF	EDIF	Total
FY 2006	6,000,000	2,000,000	8,000,000
FY 2007	6,000,000	2,000,000	8,000,000
FY 2008	6,000,000	2,000,000	8,000,000
FY 2009	2,000,000	2,846,126	4,846,126
FY 2010	--	2,000,000	2,000,000
FY 2011	1,348,245	1,802,141	3,150,386
FY 2012	--	2,000,000	2,000,000
FY 2013	--	2,000,000	2,000,000
FY 2014	--	--	--
FY 2015	--	750,000	750,000
FY 2016	--	--	--
FY 2017	--	--	--
FY 2018	1,400,000	--	1,400,000
FY 2019	2,750,000	500,000	3,250,000
FY 2020	4,005,632	500,000	4,505,632
FY 2021	4,005,626	500,000	4,505,626
FY 2022	4,005,632	1,719,264	5,724,896
FY 2023 Gov Rec	6,000,000	2,000,000	8,000,000

*\*Division of the Budget annual Comparison Report*

# State Water Plan Fund

## Kansas Water Authority FY2023 Budget Recommendations

EXPENDITURES	FY 2023 KWA Recs Full Restoration SGF/EDIF	FY2023 GOV Recs
<b>Department of Health and Environment</b>		
Contamination Remediation	\$ 1,088,301	\$ 1,088,301
Nonpoint Source Program	\$ 403,208	\$ 403,208
TMDL Initiatives	\$ 380,738	\$ 380,738
Harmful Algae Bloom Pilot	\$ 150,000	\$ 150,000
Watershed Restoration/Protection (WRAPS)	\$ 1,000,000	\$ 1,000,000
Drinking Water Protection Program	\$ 800,000	\$ 800,000
<b>SUBTOTAL--KDHE</b>	<b>\$ 3,822,247</b>	<b>\$ 3,822,247</b>
<b>Department of Agriculture</b>		
Interstate Water Issues	\$ 499,281	473,184
Subbasin Water Resources Management	\$ 621,651	584,023
Water Use	\$ 100,000	72,600
Water Resources Cost Share	\$ 2,698,289	2,698,289
Nonpoint Source Pollution Asst.	\$ 1,860,104	1,853,185
Aid to Conservation Districts	\$ 2,473,373	2,473,373
Watershed Dam Construction	\$ 550,000	550,000
Water Quality Buffer Initiative	\$ 200,000	200,000
Riparian and Wetland Program	\$ 154,024	54,024
Water Transition Assistance Program/CREP	\$ 546,593	496,593
Irrigation Technology	\$ 350,000	300,000
Crop and Livestock Research	\$ 250,000	250,000
Soil Health - NEW	\$ 100,000	103,780
Streambank Stabilization	\$ 750,000	1,044,264
<b>SUBTOTAL--KDA</b>	<b>\$ 11,153,315</b>	<b>11,153,315</b>
<b>Kansas Water Office</b>		
Assessment and Evaluation	\$ 850,000	834,078
MOU - Storage Operations & Maintenance	\$ 514,542	530,464
Stream Gaging	\$ 413,580	413,580
Technical Assistance to Water Users	\$ 325,000	325,000
Vision Education Strategy	\$ 250,000	250,000
Reservoir and Water Quality Research	\$ 350,000	350,000
Water Technology Farms	\$ 200,000	200,000
Watershed Conservation Practice Imp (KRPI)	\$ 1,000,000	1,000,000
Equus Beds Chloride Plume Project	\$ 50,000	50,000
Milford Lake Watershed RCPP	\$ 50,000	50,000
Water Injection Dredging (WID)	\$ 875,000	875,000
Arbuckle Study	\$ 150,000	150,000
Flood Response Study	\$ 200,000	200,000
<b>SUBTOTAL--KWO</b>	<b>\$ 5,228,122</b>	<b>5,228,122</b>
<b>Department of Wildlife &amp; Parks</b>		
Aquatic Nuisance Species (ANS) Program	\$ 224,457	224,457
<b>University of Kansas--Geological Survey</b>	<b>\$ 26,841</b>	<b>26,841</b>
<b>Total State Water Plan Expenditures</b>	<b>\$ 20,454,982</b>	<b>\$ 20,454,982</b>

# The Kansas Water Authority

## Welcomes Governor Laura Kelly





# State Water Plan Fund Data Dashboard

Presented by: Richard Rockel & Katie Goff

# Kansas Drought Preparedness

Presented by: Dawn Buehler

# Kansas Water Success Stories

Presented by: Dawn Buehler

# Director's Report

Presented by: Connie Owen

# New Business

# Adjourn

Upcoming KWA Meetings:

March 22, 2022

and/or

April 20, 2022