

**Kansas Water Authority Meeting
In-Person/Zoom
Topeka, KS
8:30 a.m. – January 27, 2022
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	Call to Order/Roll Call	Dawn Buehler	--	--	--
8:35 am	Approval of Meeting Minutes				
	December 1, 2021 Meeting (Zoom)	Dawn Buehler		X	2
8:40 am	KWA Public Water Supply Committee	John Bailey			
	2022 Surplus Water Report	Nathan Westrup		X	4
9:10 am	Kansas Water Plan Update	Connie Owen	X		--
9:15 am	Legislative Update				
	Governor's FY 2023 Budget Recommendations	Matt Unruh	X		--
	House Water Committee	Connie Owen	X		--
10:00 am	Governor Laura Kelly Comments				
10:15 am	BREAK				
10:30 am	State Water Plan Fund Data Dashboard	Richard Rockel Katie Goff	X		--
11:00 am	Kansas Drought Preparedness	Dawn Buehler	X		--
11:10 am	Kansas Water Success Stories	Dawn Buehler	X		--
11:15 am	KWA Ex Officio Agency Updates				
11:35 am	Director's Report	Connie Owen	X		--
11:40 am	New Business				
11:45 pm	Adjourn				

Upcoming Kansas Water Authority Meetings

- March 23, 2022 – Potential Date Hold
- April 20, 2022 – TBD
- June 22, 2022 – TBD
- August 17, 2022 – TBD
- October 19, 2022 – TBD
- November 2022 – Governor's Conference on the Future of Water in Kansas
- December 14, 2022 TBD

Zoom Participation Information (1/27/2022 Meeting):

Join Zoom Meeting

<https://us06web.zoom.us/j/83443165209?pwd=WlIvZUVOZnl4K3lac3NZlEhNYUxRQT09>

Meeting ID: 834 4316 5209

Passcode: 855851

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Minutes

KANSAS WATER AUTHORITY

December 1, 2021

Zoom Meeting

Virtual

- CALL TO ORDER:** Chair Dawn Buehler called the **December 1, 2021**, Kansas Water Authority (KWA) meeting held via Zoom webinar/call to order at **9:00 a.m.**
- MEMBERS PRESENT:** Dawn Buehler, Michael Armstrong, John Bailey, Randy Hayzlett, Jeremiah Hobbs, Alan King, Carolyn McGinn, Allen Roth, Jean Steiner, Allan Soetaert, David Stroberg
- MEMBERS ABSENT:** Lynn Goossen, Chris Ladwig
- EX-OFFICIO MEMBERS PRESENT:** Susan Duffy, Earl Lewis, Lane Letourneau, Susan Metzger, Brad Loveless, Sara Baer, Leo Henning, Andrew Lyon, Connie Owen, Rolfe Mandel
- EX-OFFICIO MEMBERS ABSENT:** Ernie Minton, Mike Beam, David Toland, Kayla Savage
- APPROVAL OF MINUTES:**
- Motion No. 12-01-01** It was moved by Allan Soetaert and seconded by Jeremiah Hobbs to approve the October 6, 2021, Minutes for the Regular Meeting of the Kansas Water Authority as amended. **Motion carried with no dissenting votes.** Information found in meeting materials.
- KWA PWS COMMITTEE:**
- John Bailey & Nathan Westrup gave a presentation for the Public Water Supply (PWS) Committee and update on Water Marketing Contracts 21-2, 21-4, & 21-3.
- Water Marketing Contracts*
- Motion No. 12-01-02** It was moved by Allan Soetaert and seconded by Allen Roth for the Kansas Water Authority to approve Water Marketing Contract 21-2 with Douglas County Rural Water District (RWD) No. 3. **Motion carried with no dissenting vote.** Information found in meeting materials.
- Motion No. 12-01-03** It was moved by Allan Soetaert and seconded by Jeremiah Hobbs for the Kansas Water Authority to approve Water Marketing Contract 21-4 with Douglas County RWD No. 6. **Motion carried with no dissenting vote.** Information found in meeting materials.
- Nathan Westrup gave an update on water supply storage within Marion Reservoir.
- Motion No. 12-01-04** It was moved by Allen Roth and seconded by Allan Soetaert for the Kansas Water Authority to approve Water Marketing Contract 21-3 with the City of Hillsboro. **Motion carried with no dissenting vote.** Information found in meeting materials.

KWA RAC OPERATIONS COMMITTEE:

Jeremiah Hobbs gave an update on the Regional Advisory Committee (RAC) Operations Committee and the applicants from the Cimarron, Marais des Cygnes, Missouri, and Kansas RACs.

RAC Membership

Motion No. 12-01-05

It was moved by **Jean Steiner** and seconded by **Michael Armstrong** for the Kansas Water Authority to approve the applications for the Cimarron, Marais des Cygnes, Missouri, and Kansas RACs. **Motion carried with no dissenting vote.** Information found in meeting materials.

KANSAS WATER PLAN UPDATE:

Matt Unruh and **Connie Owen** gave an update on the ongoing Kansas Water Plan update.

KWA ANNUAL REPORT TO THE GOVERNOR AND LEGISLATURE:

Matt Unruh presented on the draft 2022 Kansas Water Authority Annual Report to the Governor and Legislature.

Motion 12-01-06

It was moved by **Michael Armstrong** and seconded by **Jeremiah Hobbs** for the Kansas Water Authority to approve the 2022 Kansas Water Authority Annual Report to the Governor and Legislature, with Kansas Water Office final editorial discretion based on feedback provided during the December 1, 2021, meeting. **Motion carried with no dissenting vote.** Information found in meeting materials.

BLACK VERMILLION WATER QUALITY SUCCESS STORY:

Travis Sieve from the Kansas Department of Health and Environment presented on the Black Vermillion Water Quality Success Story.

DIRECTOR'S REPORT: **Connie Owen** gave the Director's Report from the Kansas Water Office.

NEW BUSINESS: **Dawn Buehler** went over upcoming Kansas Water Authority Meetings.

Susan Duffy gave an update from the Kansas Corporation Commission.

ADJOURNMENT: **Dawn Buehler** adjourned the meeting at **11:22 a.m.**

Dawn Buehler, Chair

Connie Owen, Secretary

MEMO



DATE: January 10, 2022
TO: Kansas Water Authority
FROM: John Bailey, Chair, Public Water Supply Committee
Nathan Westrup
RE: Public Water Supply Committee Update

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Topeka, KS 66612
Phone: (785) 296-3185
Fax: (785) 296-0878
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Item Proposed for Action:

- Consider approval of the 2022 Surplus Water Report

Surplus Water Available in Water Marketing Program Lakes, Calendar Year 2022 (Surplus Water Report)

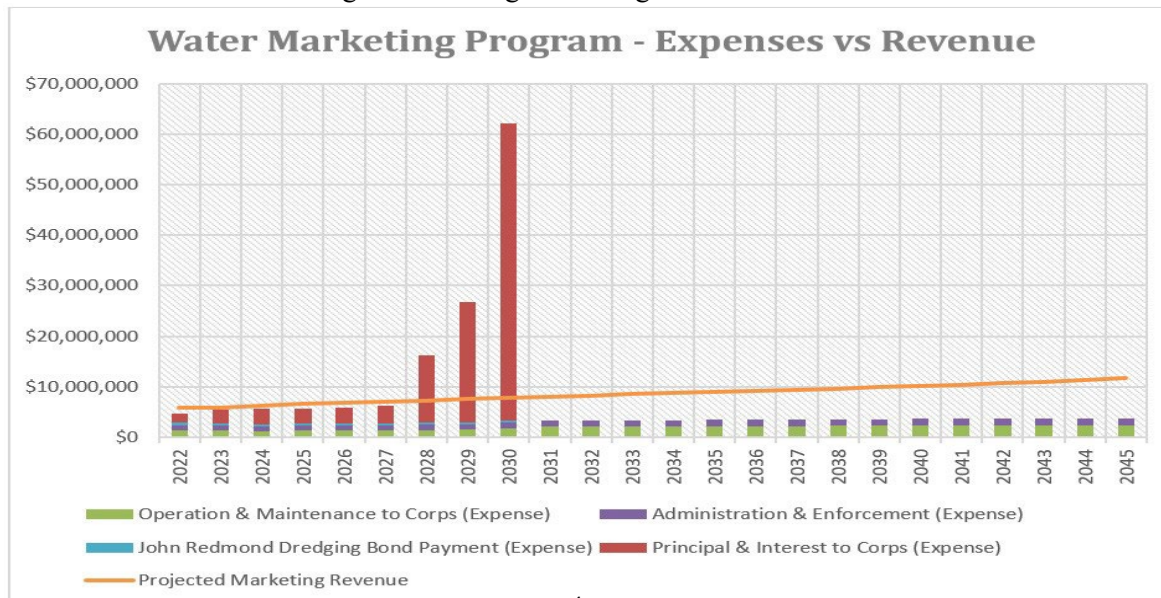
Approval of this report by the KWA gives the Director the permission to enter into contracts for water considered to be surplus during the calendar year. The Calendar Year (CY) 2022 Surplus Report includes the changes made annually to the report. Kansas Water Office staff provided the draft 2022 Surplus Water Report to the Committee at the January 10th meeting for review. The draft report is included in the mailing materials.

The Public Water Supply Committee recommends the Kansas Water Authority approve the Surplus Water Available in Water Marketing Program Lakes, Calendar Year 2022 report and authorize the Director to enter into surplus water supply contracts for water defined to be surplus by the report.

Water Marketing Program debt refinancing update

Background summary:

The Water Marketing Program is a wholesale raw water utility. Revenue is generated from the sale of water to municipal and industrial customers, typically through 40-year water purchase contracts. The water is sold at a cost per 1,000 gallons and the rate is set annually by the Kansas Water Authority. Program expenses are paid entirely by rate paying customers. The chart below is intended to illustrate the need to restructure the debt service to the USACE associated with the program. Annual program revenue varies and is currently \$5 to \$6 million. With compounding interest, P&I due to the USACE in the next 9 years is greater than \$110 million, primarily due in balloon payments in 2028, 2029, and 2030. Current capital cost debt (P&I) balance is approximately \$85.4 million and is in dire need of restructuring with bonding or funding assistance.

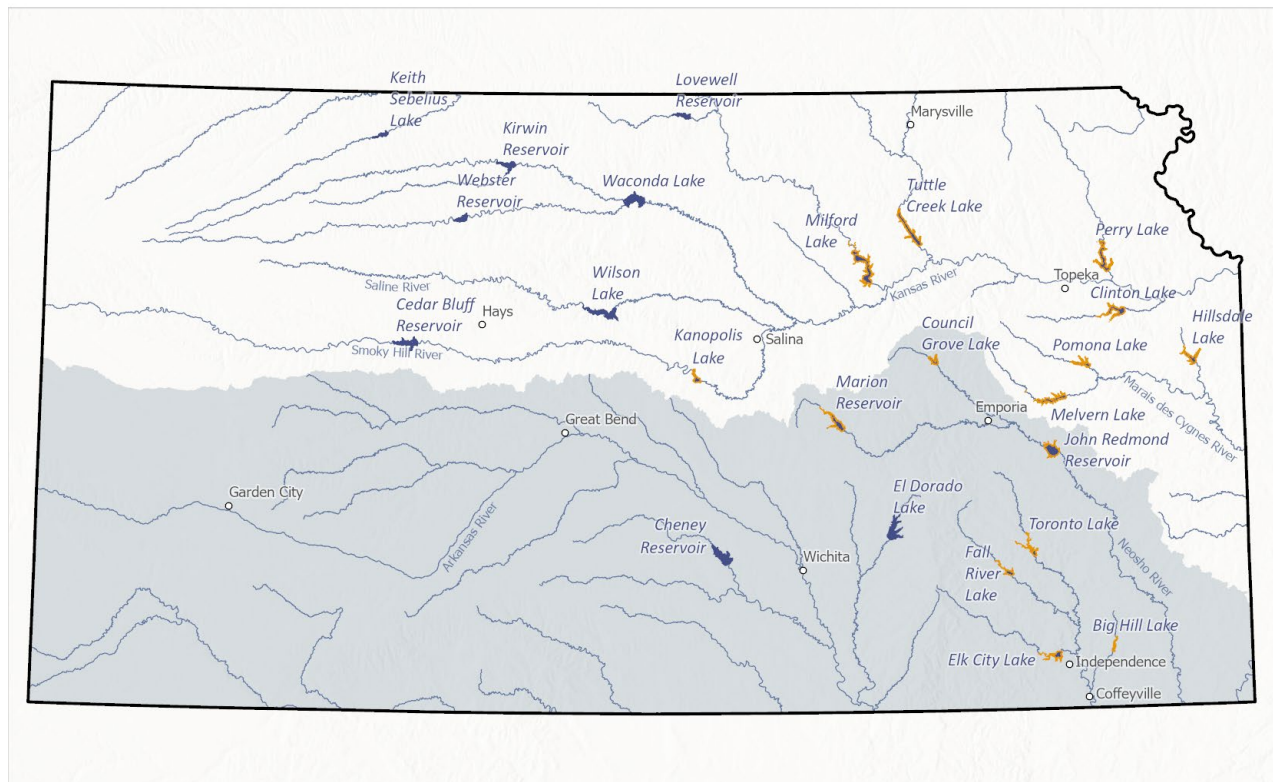


The Committee was updated on the status of the Water Marketing Program debt restructuring effort. Last year, with the help of the Kansas Development Finance Authority (KDFA), KWO aggressively pursued SGF backed bonding to refinance the debt and take advantage of favorable bond rates. However, due to uncertainties with the Water Marketing Program's largest customer (Evergy – Wolf Creek), the request to be included in the 2021 state bonding package was withdrawn. Water Marketing Revenue would not be sufficient to cover the bond payments without drastically increasing the rate, if Wolf Creek was no longer a customer. In addition to KDFA, KWO contracted with a financial consultant (Raftelis) to provide additional financial guidance. Restructuring the debt needs to occur by 2028 but the KWO will continue to evaluate measures, scenarios, and options to address this need. It is KWO's inclination, to defer further engagement with Raftelis and additional expenses until a resolution is reached with Wolf Creek's water supply plan.

Status update, for awareness and advice.

Surplus Water Available in Water Marketing Program Lakes Calendar Year 2022

Public Water Supply Reservoirs



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

August 2021
Kansas Water Office



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Introduction

Surplus water is defined as waters within the conservation water supply capacity committed to the State, but not required to meet contractual requirements. Water in this storage may be sold under short term contracts if it is found to be surplus, is determined to be in the public interest, and if the contract will advance the purposes of the State Water Resource Planning Act.

This report for Calendar Year 2022, as approved by the Kansas Water Authority, constitutes the finding that the waters so indicated in the report are surplus (IPM-12).

The report will be used as guidance to the Director of the Kansas Water Office in contracting for surplus waters for calendar year 2022. The surplus yield identified in this report is a starting point in determining whether the Office should enter into a surplus water marketing contract. At the time an application for a surplus contract is submitted, the Director will also consider:

- Pending applications that are actively being pursued by an applicant which may result in water being committed to a user in the near future
- The impact of the adopted lake level management plan
- The existence of drought conditions and the effect of the drought on water in storage
- Any other information that could be used in the determination of the public interest.

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

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)

Drought Condition Contingency

The Kansas Water Office has the statutory responsibility to advise the Governor on drought conditions and coordinates the Governor's drought response team. The Drought Monitoring Program collects climate data from a variety of sources, monitors drought activities and publishes a drought report during periods of drought. **The impact of drought conditions on reservoir storage will be evaluated at the time a surplus contract is being considered. Prior to entering into a surplus contract, the Kansas Water Office will review current drought conditions, declarations and forecasts. Conditions that may warrant declining a new surplus contract include: extended below normal precipitation; below normal streamflow in the river basin; concern about percent of storage remaining in the conservation pool and low probability of refill based on historic record.**

Explanation of Reservoir Tables

Table 1 - Conservation Storage Break Out

Table 1 for each reservoir separates the conservation storage into various components. The conservation storage is used for multiple purposes, which are identified in Table 1 and the pie charts as Water Quality, Other/Local and Water Supply.

The Water Quality pool is utilized to make established minimum releases which are intended to maintain flow in the stream below the lake. The Corps retains ownership of this storage.

The Other/Local pool includes storage that has been contracted by the Corps of Engineers to a local water supplier and storage that has been retained by the Corps of Engineers.

The Water Supply pool includes the amount of storage the State has under contract to serve the needs of municipal or industrial users’ long-term needs. The Water Supply pool is further divided into an In-Service portion and a Future Use portion. Some of the water supply contracts between the Corps of Engineers and the Kansas Water Office allow the State to defer payment on storage until the storage is needed. When the storage is being paid for it is considered In Service. The Corps of Engineers retains ownership of the Future Use storage until the State calls that storage into service.

The In-Service water supply is then further divided by how that storage has been and is being paid for. Water Marketing is the amount of committed storage to serve the customers of that program. Water Assurance is the amount of storage owned by the municipal and industrial users below lakes that have formed an assurance district. The Reserve Capacity is storage the State purchased in the mid 1990’s under the 1985 Memorandum of Understanding (MOU) between Kansas and the U.S. Army Corps of Engineers. This portion of storage has not yet been needed for either the Water Marketing or Water Assurance programs. Annual operation and maintenance costs of the Reserve Capacity are paid by the State Water Plan Fund.

Table 1 provides the break out of the conservation storage in percentage of the current total conservation pool and in current estimated acre-feet, which is based on a projection using the most recent sediment survey adopted by the Corps of Engineers. The amount of water the water supply storage can yield during a 2% drought is also provided. The drought from 1952 through 1957 is defined in regulations as a 2% drought.

Table 2 - Contracted Quantities

Table 2 lists data associated with existing water marketing contracts for each lake. Table 2 provides the annual maximum quantity of water for each contract as well as the amount of water committed to each customer in 2022. Statute allows for a contract holder to negotiate a contract for an amount of water which gradually increases over time. The difference between the 2022 maximum quantity and the annual maximum quantity is a portion of the water available for surplus.

Table 3 - Pending Applications

Table 3 lists pending applications for water marketing contracts for each lake. The Water Marketing Program allows applications to remain on file for up to 13 years without beginning negotiations for a contract. Thus, some applications will not result in long term contracts in 2022. This information will be reviewed by the Director at the time a surplus application is submitted.

Table 4 - Past Surplus Contracts

Table 4 lists the surplus water marketing contracts for the past two years for each lake.

Table 5 - Surplus Yield

This table lists the yield that is determined to be surplus in 2022. Storage owned by a water assurance district and water committed to a water marketing customer in 2022 is not available for surplus contracts. Thus, the yield committed through marketing contracts and the yield associated with the portion of the Water Supply pool owned by a water assurance district is subtracted from the estimated 2022 yield. Additionally, the portion of the Water Supply pool considered Future Use Storage is controlled by the Corps of Engineers and is not available for a surplus water marketing contract. When there is Surplus Yield, the amount of Surplus Yield Available for use during the calendar year is limited to 10% of the Current Yield or the calculated Surplus Yield, whichever is less.

Calculation of Surplus Yield Available (*example*):

mgd	AF/yr	
10	11,201	Current Yield
- 2	2,240	Marketing Contracts
- 3	3,360	WAD Storage Yield
- 3	3,360	Future Use Yield
2	2,240	Surplus Yield
1	1,120	Surplus Yield Available

Lake Level Management Considerations

The Kansas Water Office is charged by the State Water Planning Act with negotiating and entering into agreements with the Corps of Engineers and the Bureau of Reclamation regarding operation or releases of water from federal projects. Seasonal lake levels are developed annually and are known as Lake Level Management Plans. Development of these plans includes public and stakeholder input. They are intended to increase the benefits to recreational users and improve wildlife and aquatic habitat while protecting the flood control, water supply and water quality purposes of the lake. It is important to note that the plans are developed for average climate conditions.

Most plans include additional flood storage for high springtime flows but flood operation procedures are followed as specified in the regulation manual. Drought conditions may also warrant deviation from the plan. Large volumes of water are stored or evacuated as the seasonal pool elevation changes. Protection of water supply storage is essential and statutory limitations are in place for this purpose. Water from the water quality and water supply pools may be evacuated during a lake level operation; however, the amount of water evacuated from the water supply pool under a lake level management operation is limited to the surplus yield available.

Internal Policy Memorandum #12

KANSAS WATER AUTHORITY

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Steve Irsik, Chairman

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IPM-12
Adopted April 7, 2006

MEMORANDUM OF INTERNAL POLICY

Disposal of Surplus Water in the State's Conservation Water Supply Capacity

Background

The Kansas Water Authority shall authorize the director of the Kansas Water Office to dispose of water when the Authority finds

1. the water is determined to be surplus,
2. it is in the public interest to dispose of the water, and
3. such disposal will advance the purposes of the State water resource planning act.

Surplus water is defined as waters within the conservation water supply capacity committed to the State, but not required to meet contractual requirements. K.S.A. 82a-1305(b) addresses disposal of surplus water.

82a-1305. (b) Whenever the authority finds that it is in the public's interest and will advance the purposes set forth in this act and in article 9 of chapter 82a of Kansas Statutes Annotated, and amendments thereto, the authority shall authorize the director to dispose of waters found by the authority to be surplus waters. Any arrangement for the disposition of any such surplus waters shall not be subject to the provisions of K.S.A. 82a-1306, 82a-1307 and 82a-1308a, and amendments thereto, relating to long-term contracts. No such arrangement shall be made for a period of time in excess of one year nor shall any such arrangement dispose of water from the conservation water supply capacity in excess of 10% of the yield capability as computed pursuant to subsection (a) unless the governor has declared that an emergency exists which affects the public health, safety or welfare. No charges shall be levied on the disposition of surplus waters when the purpose for such disposition is streamflow maintenance or reservoir pool management. A charge at a rate not to exceed the rate established pursuant to K.S.A. 82a-1306, and amendments thereto, shall be levied on the disposition of surplus waters when the purpose of such disposition is the maintenance of public health. A charge at a rate that may exceed the rate established pursuant to K.S.A. 82a-1306, and amendments thereto, shall be levied on the disposition of surplus waters when the purpose for such disposition is other than streamflow maintenance, reservoir pool management or maintenance of public health. History: L. 1974, ch. 452, § 5; L. 1976, ch. 441, § 2; L. 1977, ch. 358, § 1; L. 1983, ch. 343, § 4; L. 1984, ch. 382, § 2; L. 1986, ch. 396, § 4; July 1.

Process and Criteria

At the last Kansas Water Authority meeting of each calendar year, the Kansas Water Office will report to the Authority the following:

1. available surplus water within the State's water conservation storage capacity by reservoir for the following calendar year,
2. pending applications and on-going negotiations of water marketing contracts,
3. anticipated uses of the surplus water, including anticipated water marketing surplus contracts, streamflow maintenance needs and lake level management plans, and
4. assessment of any drought that may be occurring in the State and potential impacts of the drought on storage.

Approval of the report by the Authority will constitute a finding that the waters so indicated in the report are surplus, that it is in the public interest to dispose of the surplus waters, and disposal will advance the purposes of the State water resource planning act. The report will guide the director of the Kansas Water Office in disposing of surplus waters for the following calendar year, including entering into surplus water marketing contracts.

Because the yield capability of each reservoir's water conservation storage, referred to in K.S.A. 82a-1305(a), is projected into the future forty years per K.A.R. 98-5-8(a)(4) and the annual report of disposal of surplus water will utilize yield data associated with the following calendar year, the disposal of surplus water will be limited to the amount of storage that allows 90% of the "yield capability as computed pursuant to subsection (a)" to remain in storage for the following calendar year.

Date: June 2, 2006



Steve Irsik, Chairman
Kansas Water Authority

Reservoir Specific Tables



Big Hill Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		814 - 858	Flood Pool Elevation (ft msl)		858 - 867.5
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	0.00%		0		0
Other/Local	0.00%		0		0
Water Supply	100.00%		7.9		21,699
Future Use	64.20%		5.1		13,930
In Service	35.81%		2.8		7,769
Water Marketing	35.80%		2.9		7,769
Assurance District	0.00%		0		0
Reserve Capacity	0.00%		0		0

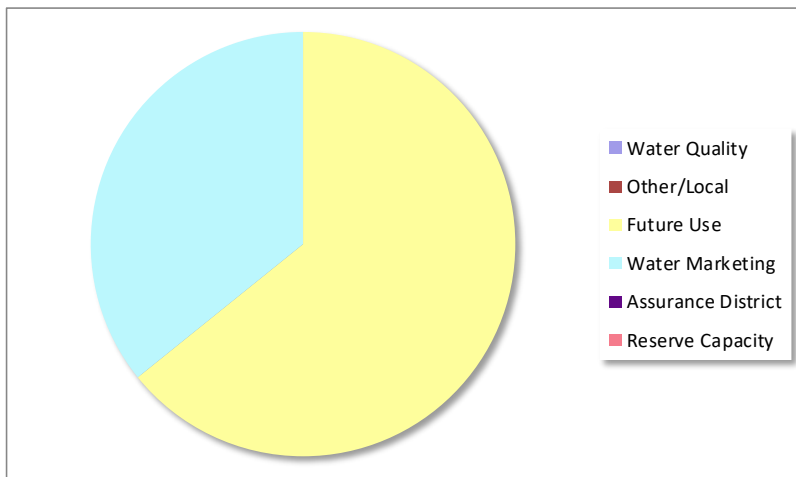


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
98-1	Public Wholesale Water Supply Dist. No. 4	4/17/2038	454,700,000	1,395	454,700,000	1,395
			454,700,000	1,395	454,700,000	1,395

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
7.9	8,910	Current Yield
1.2	1,395	Marketing Contracts
0	0	WAD Storage Yield
5.1	5,720	Future Use Yield
1.6	1,795	Surplus Yield
0.79	891	Surplus Yield Available

Lake Level Management Consideration

No Lake Level Management Plan was prepared for Big Hill for Water Year 2022.

Clinton Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		840 - 875.5	Flood Pool Elevation (ft msl)		875.5 - 903.4
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	19.20%		0		21,260
Other/Local	0.00%		0		0
Water Supply	80.80%		17.9		89,470
Future Use	32.30%		7.2		35,766
In Service	48.50%		10.7		53,704
Water Marketing	48.50%		10.7		53,704
Assurance District	0.00%		0		0
Reserve Capacity	0.00%		0		0

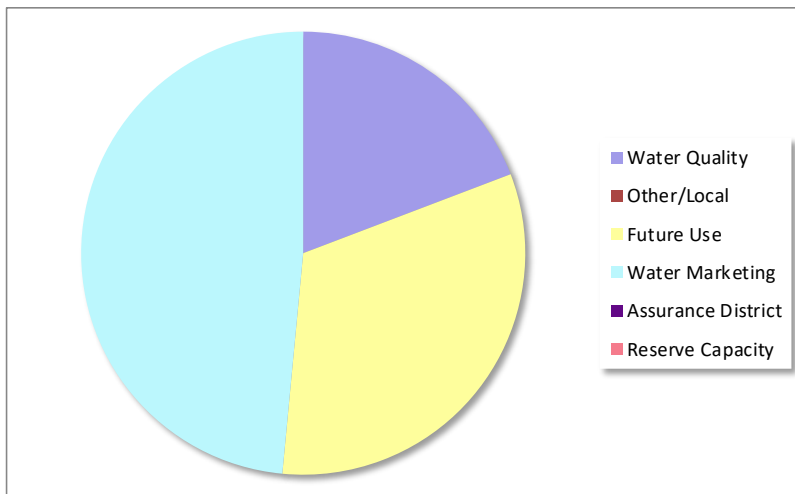


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
95-3	Douglas County Rural Water District No. 5	10/26/2035	128,298,541	394	128,298,541	394
19-1	City of Lawrence	12/29/2059	4,988,000,000	15,308	4,988,000,000	15,308
21-2	Douglas County Rural Water District No. 3	12/13/2041	650,000,000	1,995	650,000,000	1,995
21-4	Douglas County Rural Water District No. 6	12/13/2041	33,200,000	102	33,200,000	102
			5,799,498,541	17,798	5,799,498,541	17,798

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

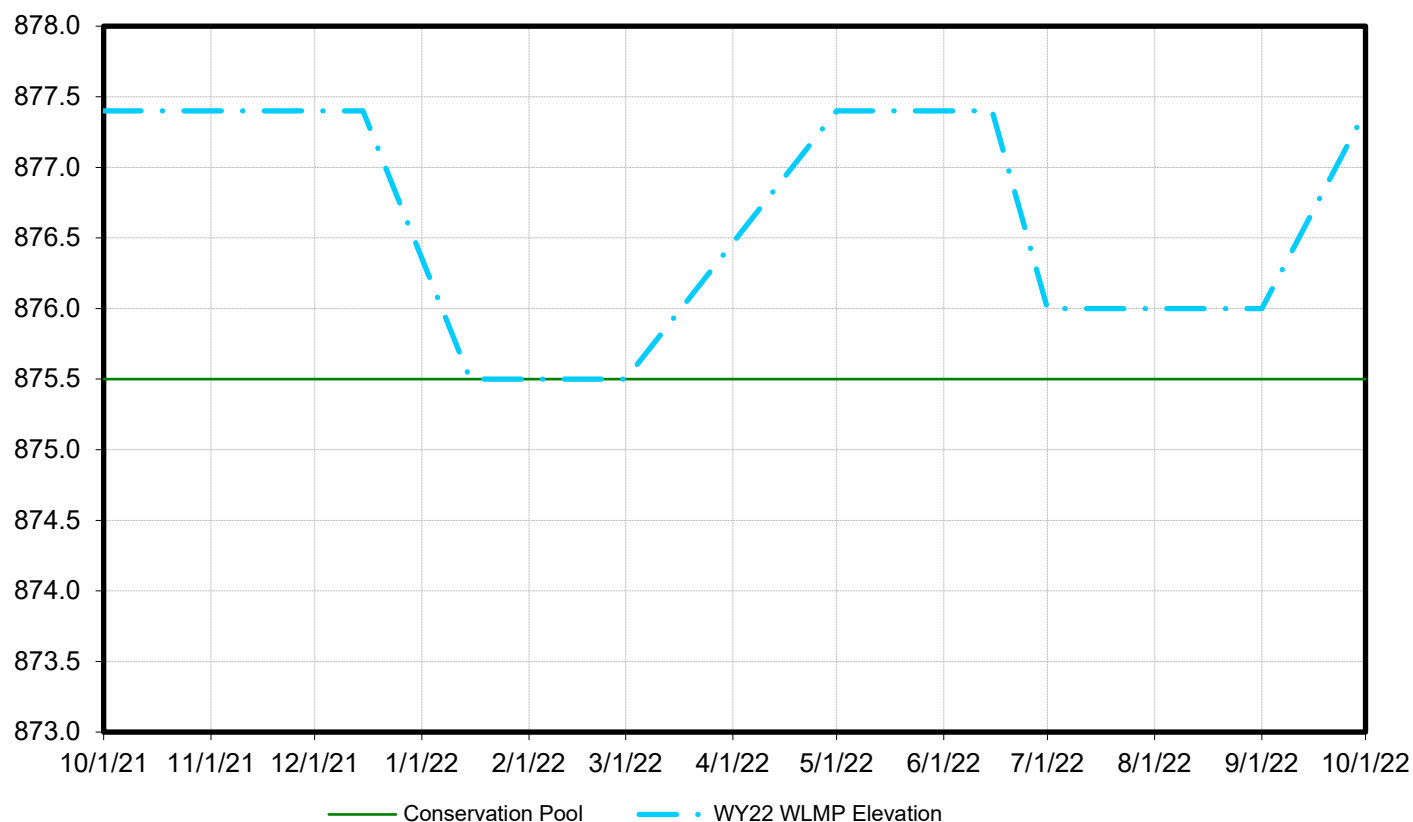
mgd	AF/yr	
17.9	20,071	Current Yield
15.9	17,798	Marketing Contracts
0	0	WAD Storage Yield
7.2	8,023	Future Use Yield
0.0	0	Surplus Yield
0.0	0	Surplus Yield Available

Lake Level Management Consideration

According to the Lake Level Management Plan, pool level may be lowered by January (or prior to freezing). The minimum lake level in this plan does not require disposition of surplus water.

Clinton Lake

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



Council Grove Lake

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

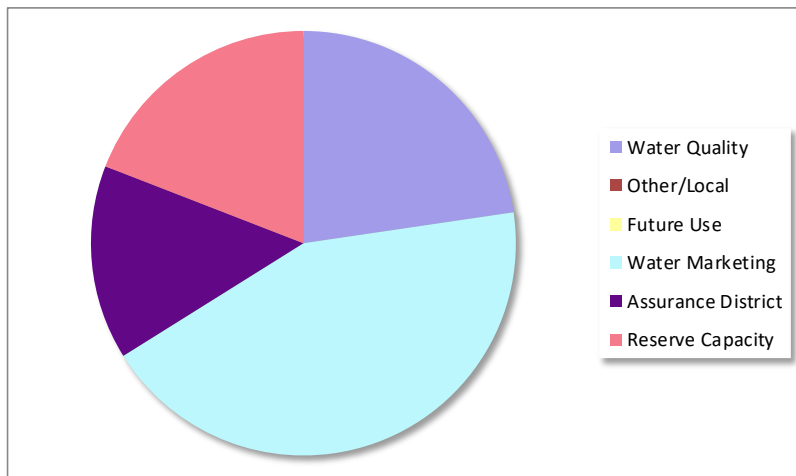


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
81-2	City of Emporia	10/21/2023	1,095,000,000	3,360	1,095,000,000	3,360
93-4	City of Council Grove	9/13/2033	60,000,000	184	150,000,000	460
			1,155,000,000	3,544	1,245,000,000	3,820

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
No pending applicatins			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

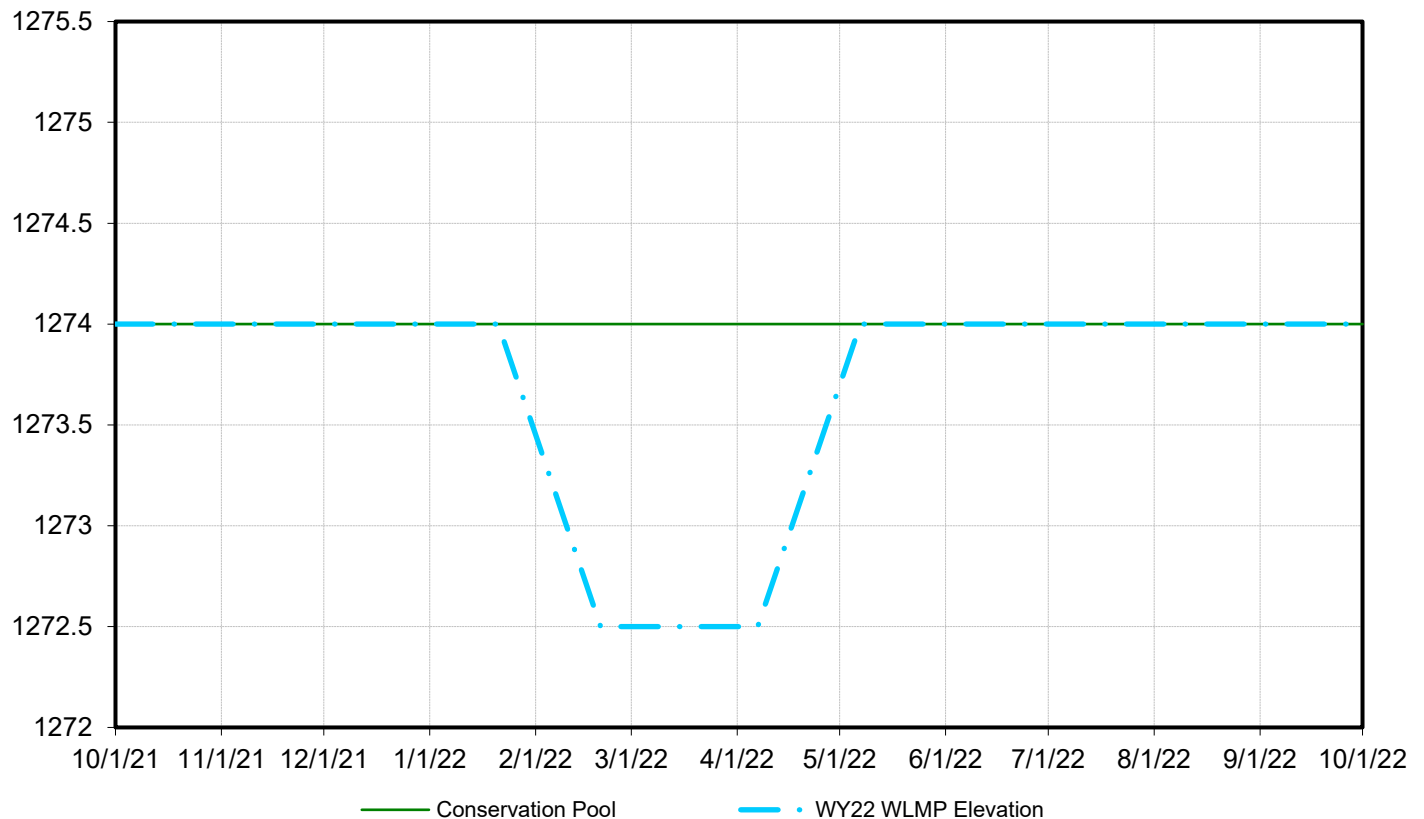
mgd	AF/yr	
8.3	9,289	Current Yield
3.2	3,544	Marketing Contracts
1.6	1,778	WAD Storage Yield
0.0	0	Future Use Yield
3.5	3,967	Surplus Yield
0.83	929	Surplus Yield Available

Lake Level Management Consideration

According to the Lake Level Management Plan, pool level may be lowered in January (or prior to freezing). The minimum lake level in this plan does not require disposition of surplus water.

Council Grove Lake

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



Elk City Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		764 - 796	Flood Pool Elevation (ft msl)		796 - 825
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	14.08%		0		4,733
Other/Local	0.00%		0		0
Water Supply	85.92%		13.5		28,879
Future Use	0.00%		0.0		0
In Service	85.92%		13.5		28,879
Water Marketing		57.45%	9.1		19,310
Assurance District		0.00%	0.0		0
Reserve Capacity		28.47%	4.5		9,569

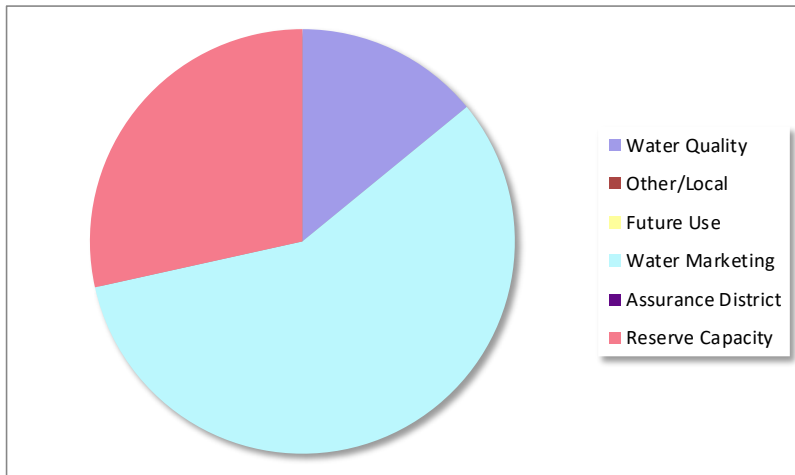


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
81-5	City of Coffeyville	12/16/2023	300,000,000	921	300,000,000	921
99-5	Coffeyville Resources	12/3/2039	608,000,000	1,866	608,000,000	1,866
12-7	Coffeyville Resources	8/9/2051	400,000,000	1,228	400,000,000	1,228
			1,308,000,000	4,015	1,308,000,000	4,015

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
13.5	15,182	Current Yield
3.6	4,015	Marketing Contracts
0.0	0	WAD Storage Yield
0.0	0	Future Use Yield
10.0	11,167	Surplus Yield
1.35	1,518	Surplus Yield Available

Lake Level Management Consideration

No Lake Level Management Plan was prepared for Elk City for Water Year 2022.

Hillsdale Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		850 - 917	Flood Pool Elevation (ft msl)		917 - 931
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	22.06%		0		16,604
Other/Local	0.00%		0		0
Water Supply	77.94%		15.5		58,663
Future Use	53.26%		10.6		40,085
In Service	24.68%		4.9		18,578
Water Marketing	24.68%		4.9		18,578
Assurance District	0.00%		0.0		0
Reserve Capacity	0.00%		0.0		0

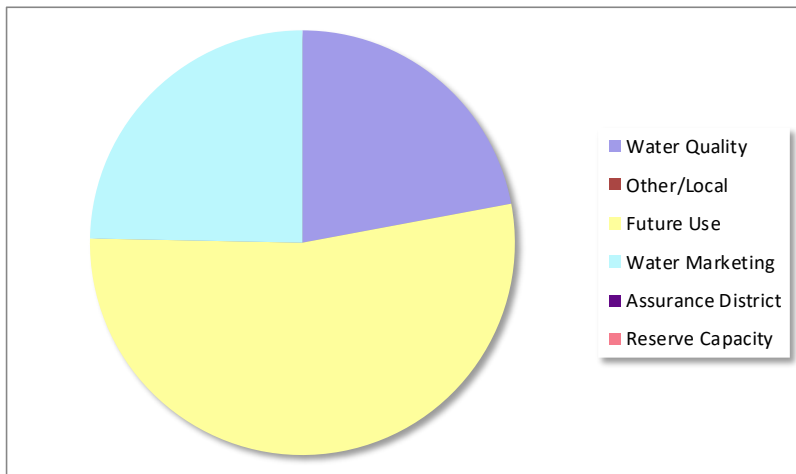


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
81-1	Miami County Rural Water District No. 2	10/21/2023	239,440,000	735	239,440,000	735
13-1	Hillsdale Area Water Cooperative	12/31/2052	4,862,018,000	14,921	5,308,560,000	16,291
			5,101,458,000	15,656	5,548,000,000	17,026

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

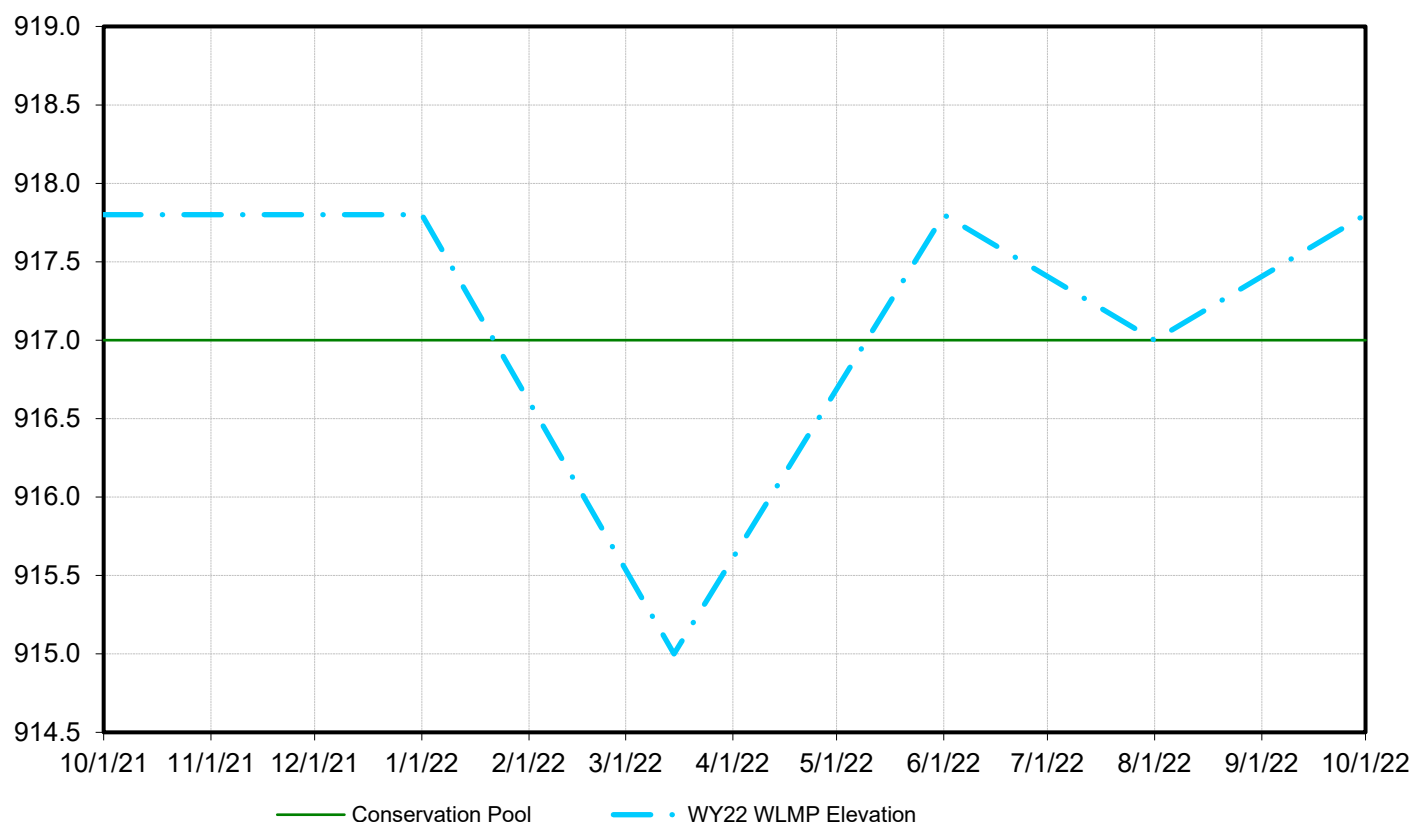
mgd	AF/yr	
15.5	17,328	Current Yield
14.0	15,656	Marketing Contracts
0.0	0	WAD Storage Yield
10.6	11,841	Future Use Yield
0.0	0	Surplus Yield
0.00	0	Surplus Yield Available

Lake Level Management Consideration

According to the Lake Level Management Plan, pool level may be lowered in January (or prior to freezing). The minimum lake level in this plan does not require disposition of surplus water.

Hillsdale Lake

Conservation Pool = 917.0 Flood Pool (FP) = 931.0 5% into FP = 917.8



John Redmond Reservoir

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		1020 - 1041	Flood Pool Elevation (ft msl)		1041 - 1068
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	23.82%		0		13,830
Other/Local	0.00%		0		0
Water Supply	76.18%		30.0		44,230
Future Use	0.00%		0.0		0
In Service	76.18%		30.0		44,230
Water Marketing		69.06%	27.2		40,096
Assurance District		7.12%	2.8		4,134
Reserve Capacity		0.00%	0.0		0

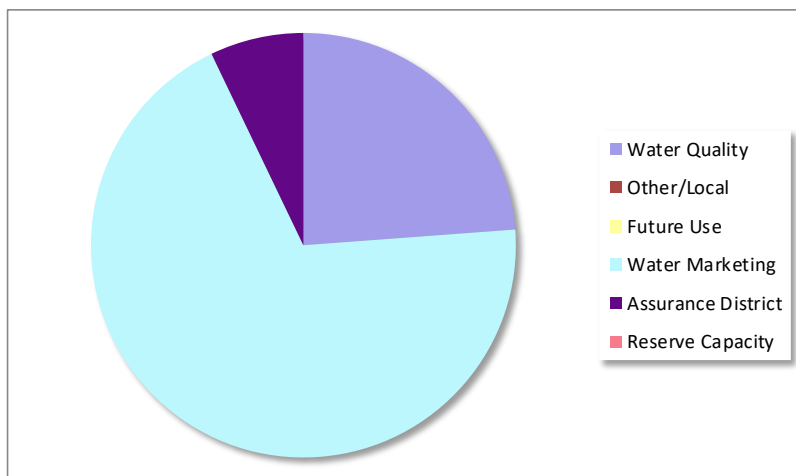


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
17-2	Wolf Creek Nuclear Generating Station (KG&E, KCP&L, KEPC)	12/31/2022	9,368,000,000	28,749	9,368,000,000	28,749
			9,368,000,000	28,749	9,368,000,000	28,749

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
30.0	33,588	Current Yield
25.6	28,749	Marketing Contracts
2.8	3,139	WAD Storage Yield
0.0	0	Future Use Yield
1.5	1,699	Surplus Yield
0.00	0	*Surplus Yield Available

**The simple yield calculations of the spreadsheet model do result in a small amount of surplus, however, the OASIS system model, incorporating a more dynamic operation and demand pattern, indicates that additional contract obligations should not be made available.*

Lake Level Management Consideration

No Lake Level Management Plan was prepared for John Redmond for Water Year 2022.

Kanopolis Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		1431 - 1463	Flood Pool Elevation (ft msl)		1463 - 1508
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	53.40%		0		23,645
Other/Local	0.00%		0		0
Water Supply	46.60%		8.3		20,634
Future Use	0.00%		0.0		0
In Service	46.60%		8.3		20,634
Water Marketing		22.37%	4.0		9,905
Access District		24.23%	4.3		10,729
Reserve Capacity		0.00%	0.0		0

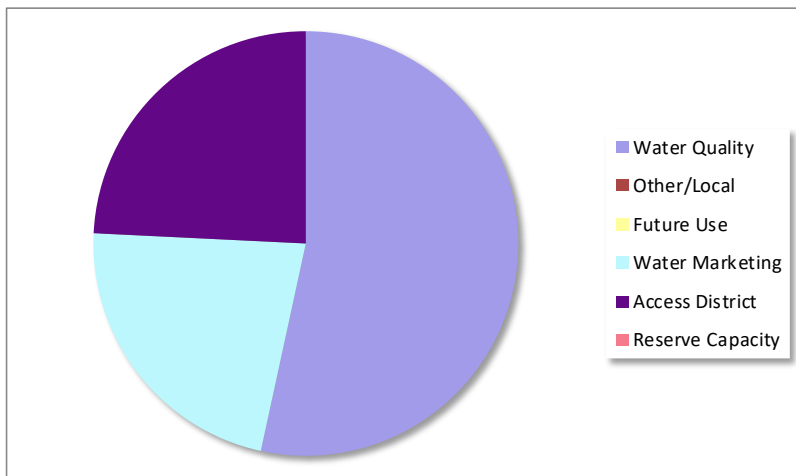


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
01-2	Post Rock Rural Water District	7/12/2041	400,000,000	1,228	400,000,000	1,228
			400,000,000	1,228	400,000,000	1,228

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

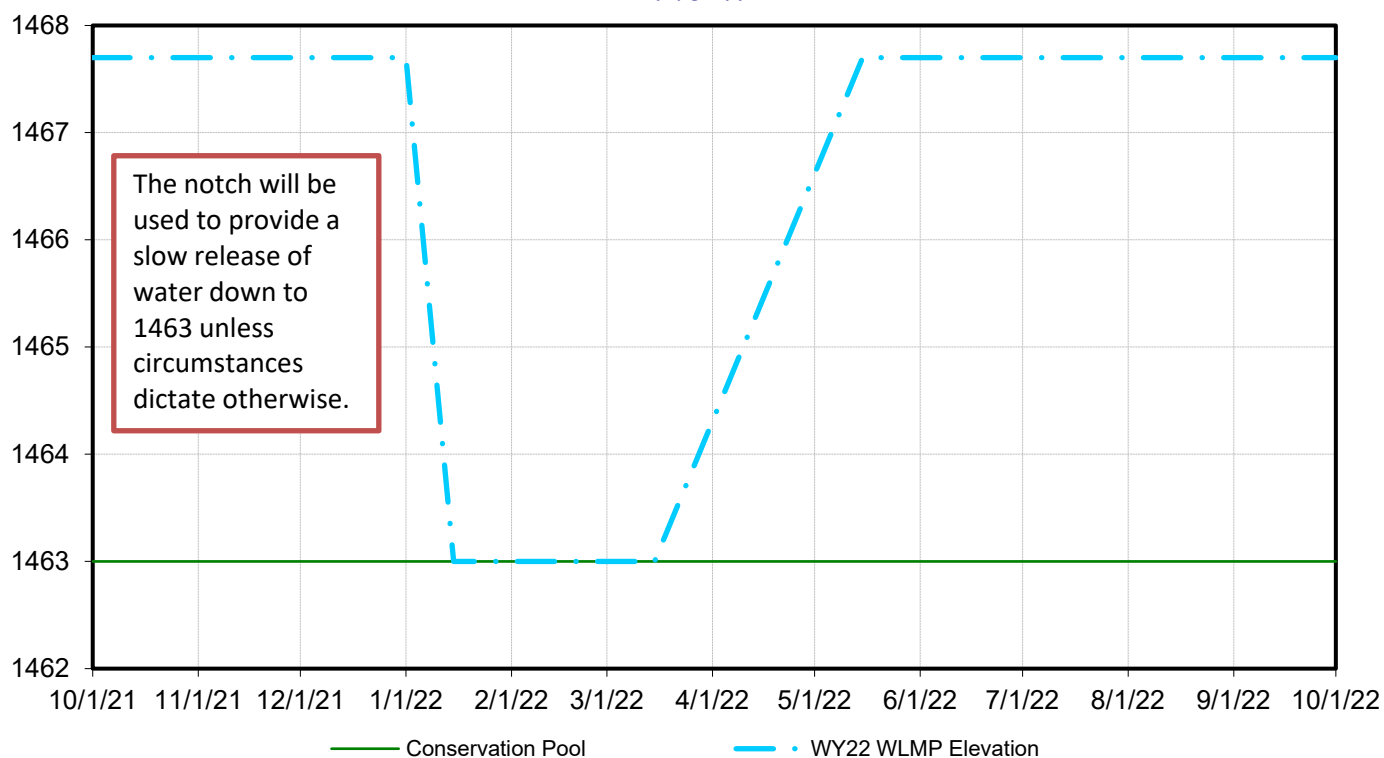
mgd	AF/yr	
8.3	9,292	Current Yield
1.1	1,228	Marketing Contracts
4.3	4,832	AD Storage Yield
0.0	0	Future Use Yield
2.9	3,233	Surplus Yield
0.83	929	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Kanopolis, no conservation storage will be evacuated during the 2022 Water Year.

Kanopolis Lake

Conservation Pool = 1463.0 Flood Pool (FP) = 1508.0 5% into FP = 1468.7



Marion Reservoir

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		Flood Pool Elevation (ft msl)	
1320 - 1350.5		1350.5 - 1358.5	
Break Out			
	of Conservation Storage	Current Yield (mgd)	Current Storage (acre feet)
Water Quality	35.88%	0	27,721
Other/Local	0.00%	0	0
Water Supply	64.12%	4.9	49,539
Future Use	0.00%	0.0	0
In Service	64.12%	4.9	49,539
Water Marketing	45.77%	3.52	35,362
Assurance District	0.43%	0.03	332
Reserve Capacity	17.92%	1.38	13,845

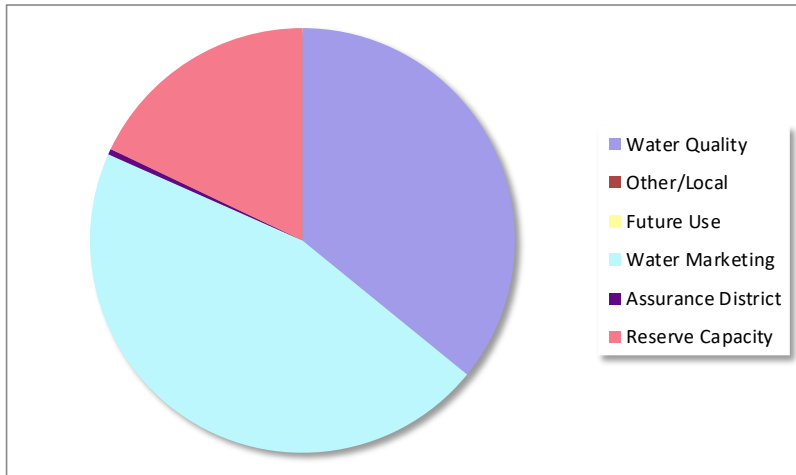


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
81-4	City of Marion	10/3/2023	237,500,000	729	237,500,000	729
99-1	City of Peabody	4/9/2039	60,000,000	184	60,000,000	184
21-3	City of Hillsboro	12/22/2061	300,000,000	921	300,000,000	921
			597,500,000	1,834	597,500,000	1,834

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
21-1	Jost Farms	12/31/2021	15,000,000	46

Table 5: Surplus Yield

mgd	AF/yr	
4.9	5,532	Current Yield
1.64	1,834	Marketing Contracts
0.03	37	WAD Storage Yield
0.0	0	Future Use Yield
3.27	3,661	Surplus Yield
0.49	553	Surplus Yield Available

Lake Level Management Consideration

No Lake Level Management Plan was prepared for Marion Water Year 2022.

Melvern Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		975 - 1036	Flood Pool Elevation (ft msl)		1036 - 1057
Break Out					
	of Conservation Storage	Current Yield (mgd)		Current Storage (acre feet)	
Water Quality	27.59%	0		40,685	
Other/Local	37.93%	0		55,933	
Water Supply	34.48%	8.6		50,845	
Future Use	0.00%	0.0		0	
In Service	34.48%	8.6		50,845	
Water Marketing	9.90%	2.5		14,599	
Assurance District	7.17%	1.8		10,573	
Reserve Capacity	17.41%	4.3		25,673	

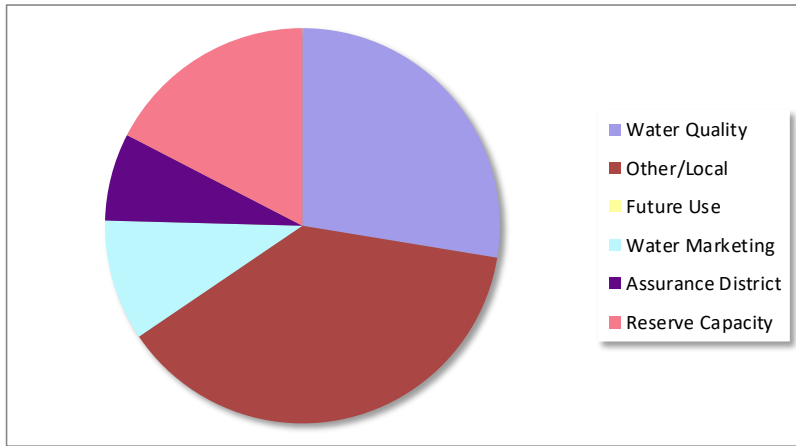


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
93-3	City of Osage City	4/22/2033	100,000,000	307	100,000,000	307
93-2	City of Burlingame	7/15/2033	65,000,000	199	65,000,000	199
93-1	Public Wholesale Water Supply District No. 12	1/1/2035	450,000,000	1,381	547,430,000	1,680
05-6	City of Harveyville	8/11/2045	25,000,000	77	25,000,000	77
			640,000,000	1,964	737,430,000	2,263

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

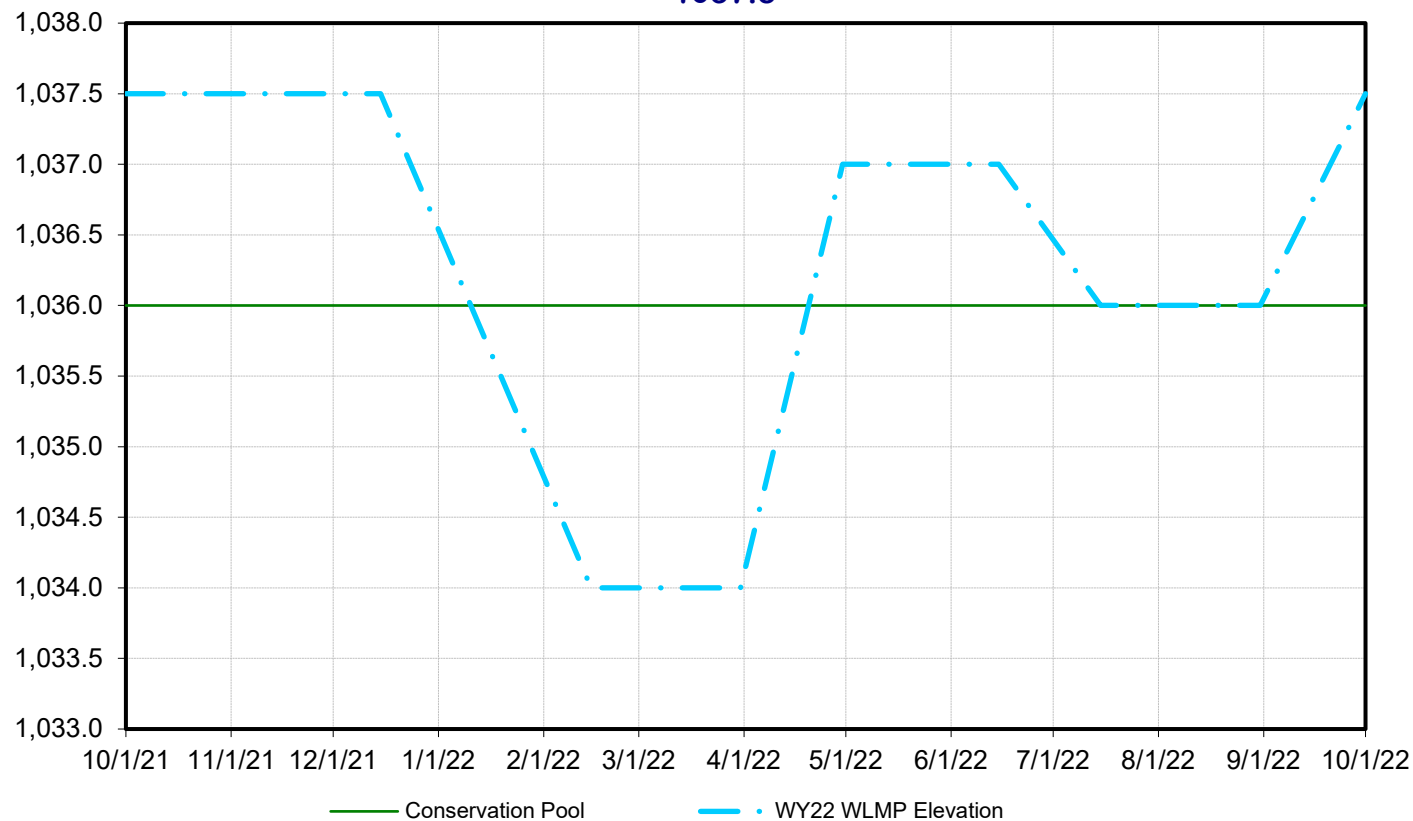
mgd	AF/yr	
8.6	9,625	Current Yield
1.8	1,964	Marketing Contracts
1.8	2,001	WAD Storage Yield
0.0	0	Future Use Yield
5.0	5,659	Surplus Yield
0.86	962	Surplus Yield Available

Lake Level Management Consideration

According to the Lake Level Management Plan, pool level may be lowered in December (or prior to freezing). The minimum lake level in this plan does not require disposition of surplus water.

Melvorn Lake

Conservation Pool = 1036.0 Flood Pool (FP) = 1057.0 5% into FP = 1037.5



Milford Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		Flood Pool Elevation (ft msl)	
1080 - 1144.4		1144.4 - 1176.2	
Break Out			
	of Conservation Storage	Current Yield (mgd)	Current Storage (acre feet)
Water Quality	0.00%	0	0
Other/Local	0.00%	0	0
Water Supply	100.00%	108	353,874
Future Use	66.12%	71	233,981
In Service	33.88%	36	119,892
Water Marketing	15.55%	17	55,027
Assurance District	18.33%	20	64,865
Reserve Capacity	0.00%	0	0

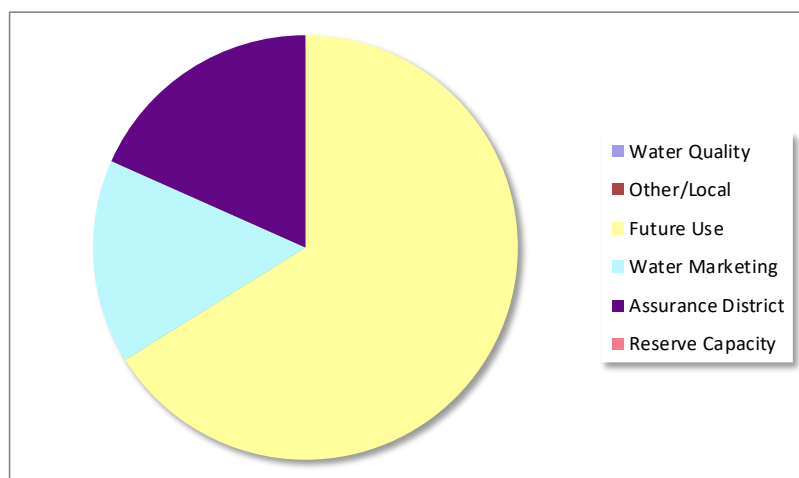


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
80-2	Westar Energy - Jeffrey Energy Center	12/5/2022	7,300,000,000	22,403	7,300,000,000	22,403
			7,300,000,000	22,403	7,300,000,000	22,403

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

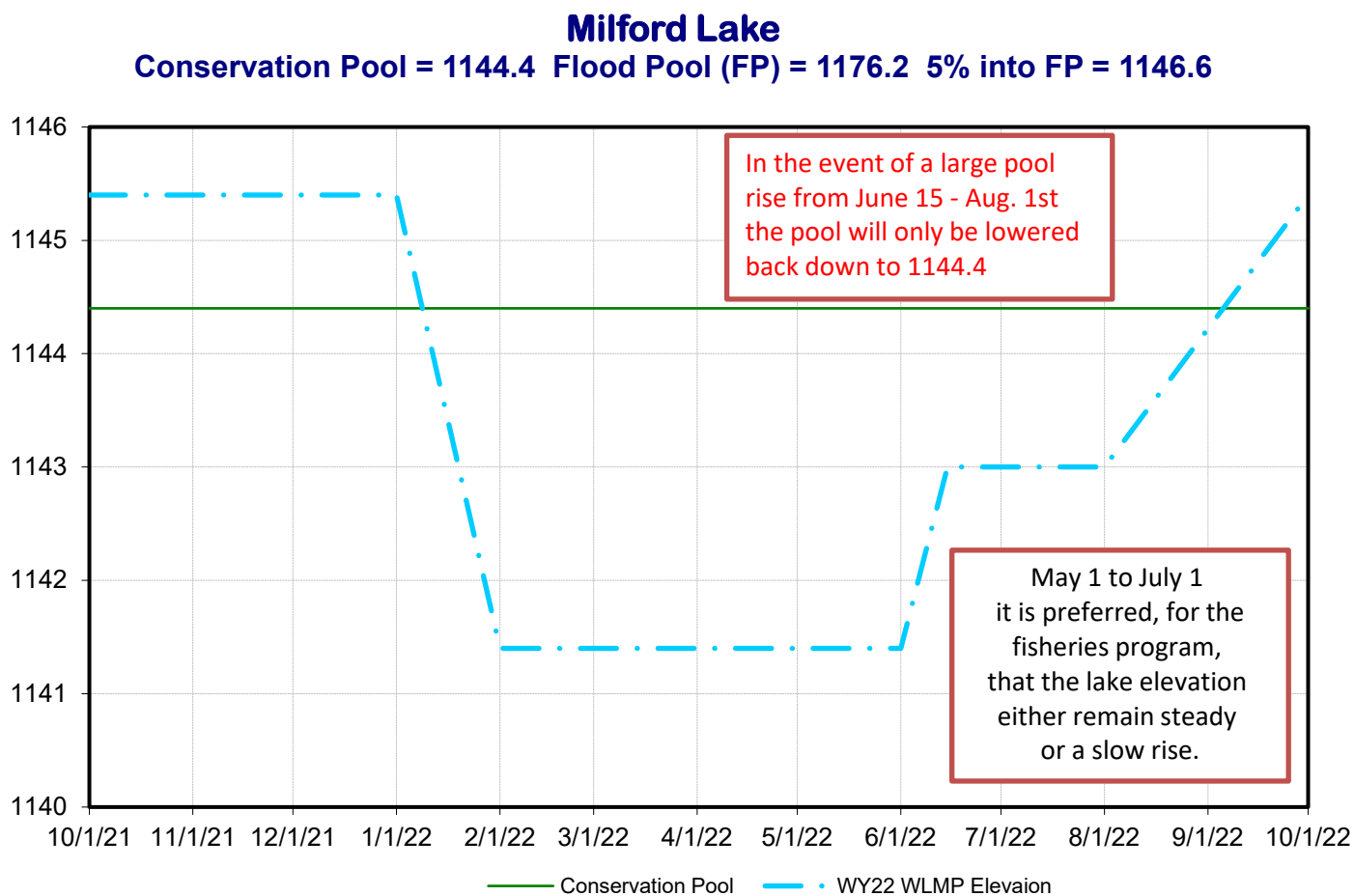
Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
108	120,737	Current Yield
20	22,403	Marketing Contracts
20	22,131	WAD Storage Yield
71	79,832	Future Use Yield
0.0	0	Surplus Yield
0.00	0	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Milford, pool level will be lowered in January. The drawdown will be made in an attempt to mitigate the impact of the harmful algal blooms in the lake. The quantity of water in the future use pool is sufficient for the evacuation of storage associated with the change in elevation.



Perry Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		850 - 891.5	Flood Pool Elevation (ft msl)		891.5 - 920.6
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	0.00%		0		0
Other/Local	0.00%		0		0
Water Supply	100.00%		75.0		186,426
Future Use	83.33%		62.5		155,349
In Service	16.67%		12.5		31,077
Water Marketing	0.00%		0.0		0
Assurance District	16.67%		12.5		31,077
Reserve Capacity	0.00%		0.0		0

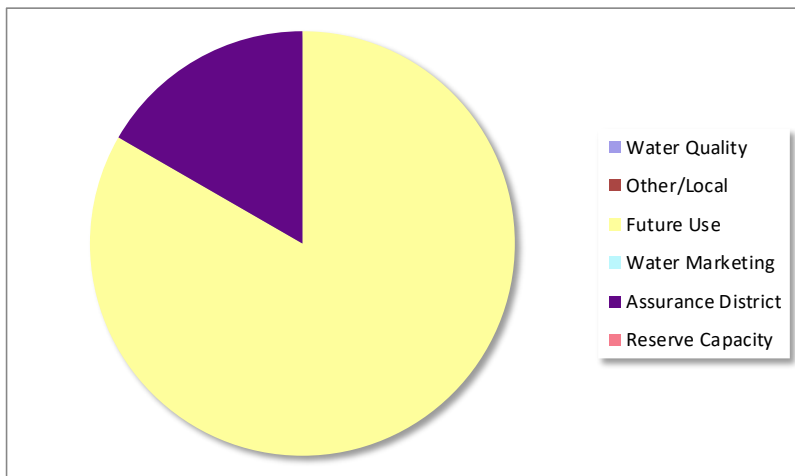


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There are no contracted quantities						

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

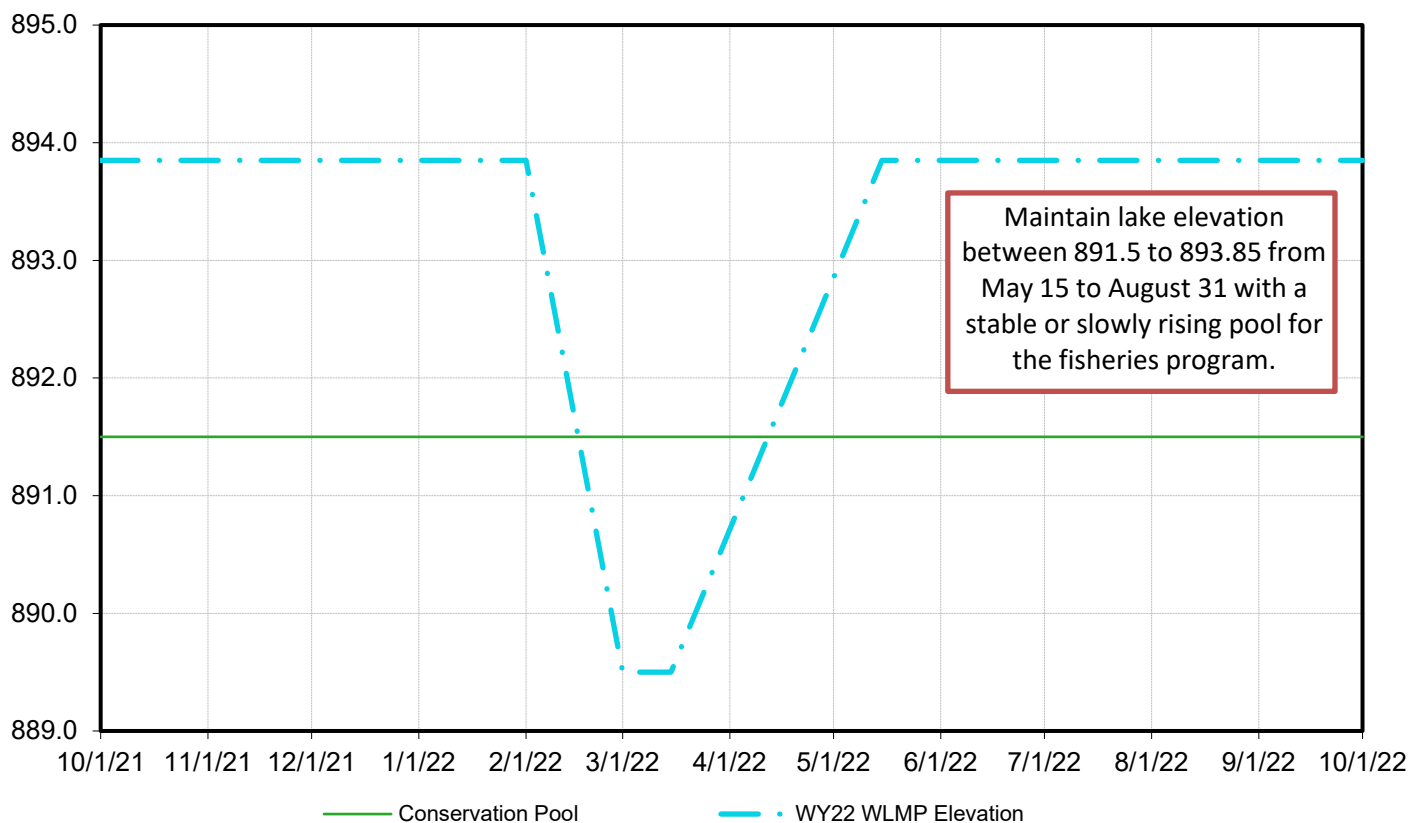
mgd	AF/yr	
75.0	84,044	Current Yield
0.0	0	Marketing Contracts
12.5	14,010	WAD Storage Yield
62.5	70,034	Future Use Yield
0.0	0	Surplus Yield
0.00	0	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Perry, pool level will be lowered in February. The quantity of water in the future use pool is sufficient for the evacuation of storage associated with the change in elevation.

Perry Lake

Conservation Pool = 891.5 Flood Pool (FP) = 920.6 5% into FP = 893.9



Pomona Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		945 - 974	Flood Pool Elevation (ft msl)		974 - 1003
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	25.24%		0		12,970
Other/Local	0.89%		0		459
Water Supply	73.86%		7.7		37,948
Future Use	0.00%		0.0		0
In Service	73.86%		7.7		37,948
Water Marketing		1.52%	0.2		781
Assurance District		23.63%	2.5		12,141
Reserve Capacity		48.71%	5.1		25,027

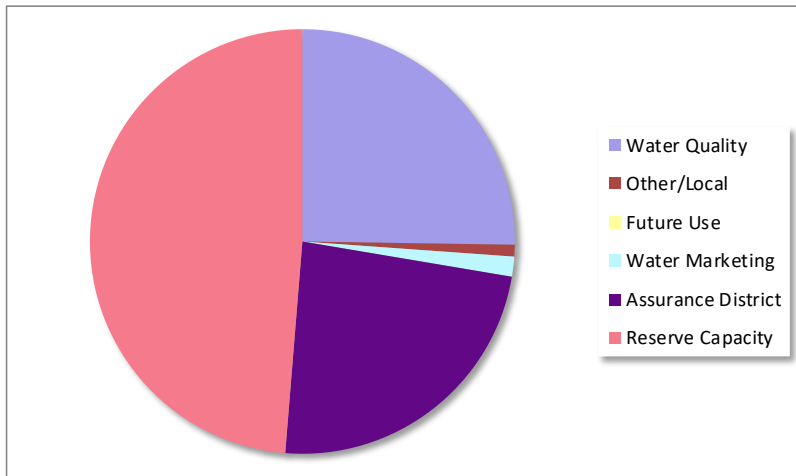


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
05-5	Osage County Rural Water District No. 3	7/10/2048	55,600,000	171	55,600,000	171
			55,600,000	171	55,600,000	171

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

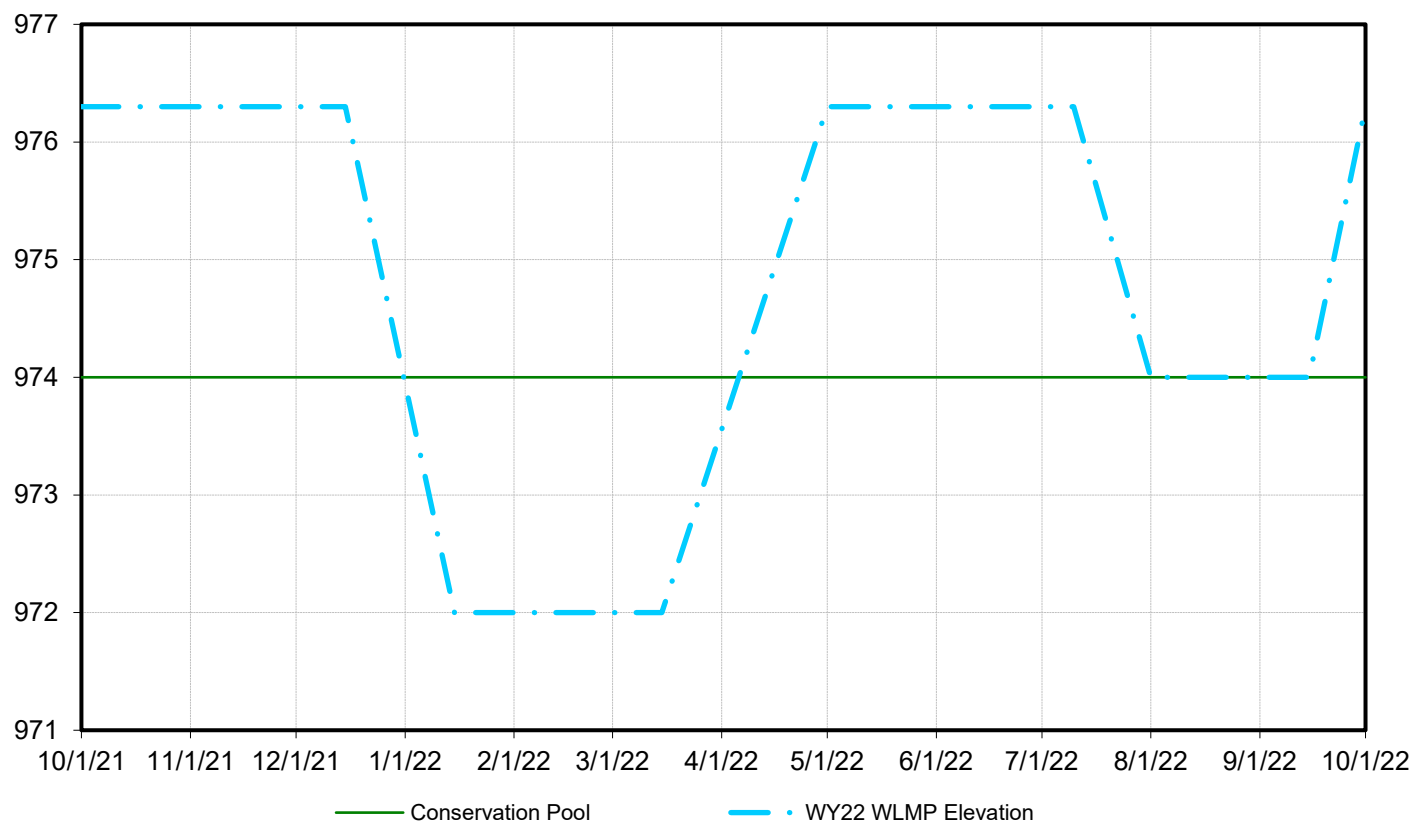
mgd	AF/yr	
7.7	8,682	Current Yield
0.2	171	Marketing Contracts
2.5	2,778	WAD Storage Yield
0.0	0	Future Use Yield
5.1	5,734	Surplus Yield
0.77	868	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Pomona, pool level will be lowered in December. The minimum lake level in this plan does not require disposition of surplus water.

Pomona Lake

Conservation Pool = 974.0 Flood Pool (FP) = 1003.0 5% into FP = 976.3



Toronto Lake

Table 1: Conservation Storage Break Out

Conservation/Inactive Pool Elev. (ft msl)	856 - 901.5	Flood Pool Elevation (ft msl)	901.5 - 931
Break Out			
	of Conservation Storage	Current Yield (mgd)	Current Storage (acre feet)
Water Quality/Supply	60.87%	2.8	8,490
Inactive (Below 896.0)	36.76%	1.7	5,127
Water Supply	2.36%	0.1	330
Future Use	0.00%	0.0	0
In Service	2.36%	0.1	330
Water Marketing	0.00%	0.0	0
Assurance District	0.00%	0.0	0
Reserve Capacity	2.36%	0.1	330

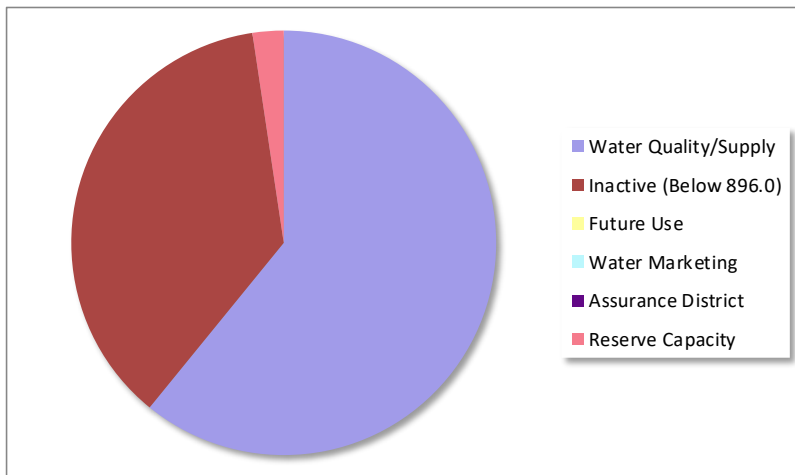


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There are no contracted quantities						

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
4.6	5,138	Current Yield
0.0	0	Marketing Contracts
0.0	0	WAD Storage Yield
0.0	0	Future Use Yield
0.1	121	Surplus Yield
0.11	121	Surplus Yield Available

Lake Level Management Consideration

No Lake Level Management Plan was prepared for Toronto for Water Year 2022.

Tuttle Creek Lake

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		1020 - 1075	Flood Pool Elevation (ft msl)		1075 - 1136
Break Out					
	of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	59.02%		0		130,514
Other/Local	0.00%		0		0
Water Supply	40.98%		162.0		90,621
Future Use	0.00%		0.0		0
In Service	40.98%		162.0		90,621
Water Marketing	0.00%		0.0		0
Assurance District	33.89%		134.0		74,943
Reserve Capacity	7.09%		28.0		15,678

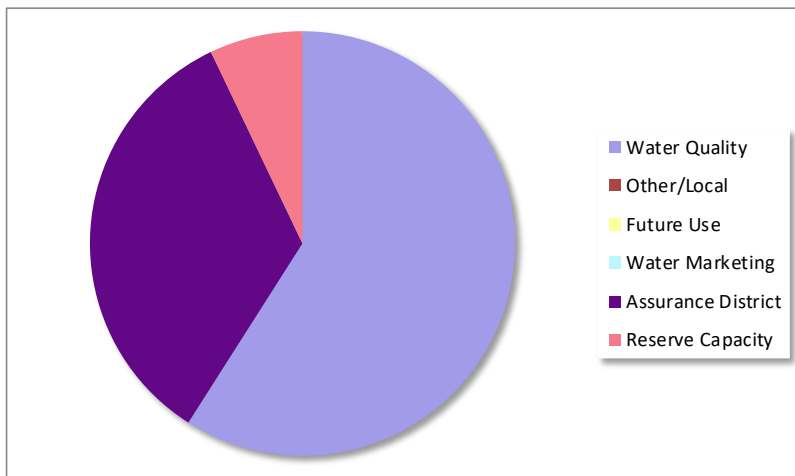


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2022 Maximum Gallons	2022 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There are no contracted quantities						

Table 3: Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
There are no pending applications on file			

Table 4: Past Surplus Contracts

Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
162	181,573	Current Yield
0	0	Marketing Contracts
134	150,159	WAD Storage Yield
0	0	Future Use Yield
28	31,414	Surplus Yield
16.2	18,157	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Tuttle Creek, pool level will be lowered in December. The minimum lake level in this plan does not require disposition of surplus water.

Tuttle Creek Lake

Conservation Pool = 1075.0 Flood Pool (FP) = 1136.0 5% into FP = 1082.2

