

Surplus Water Available in Water Marketing Program Lakes Calendar Year 2024

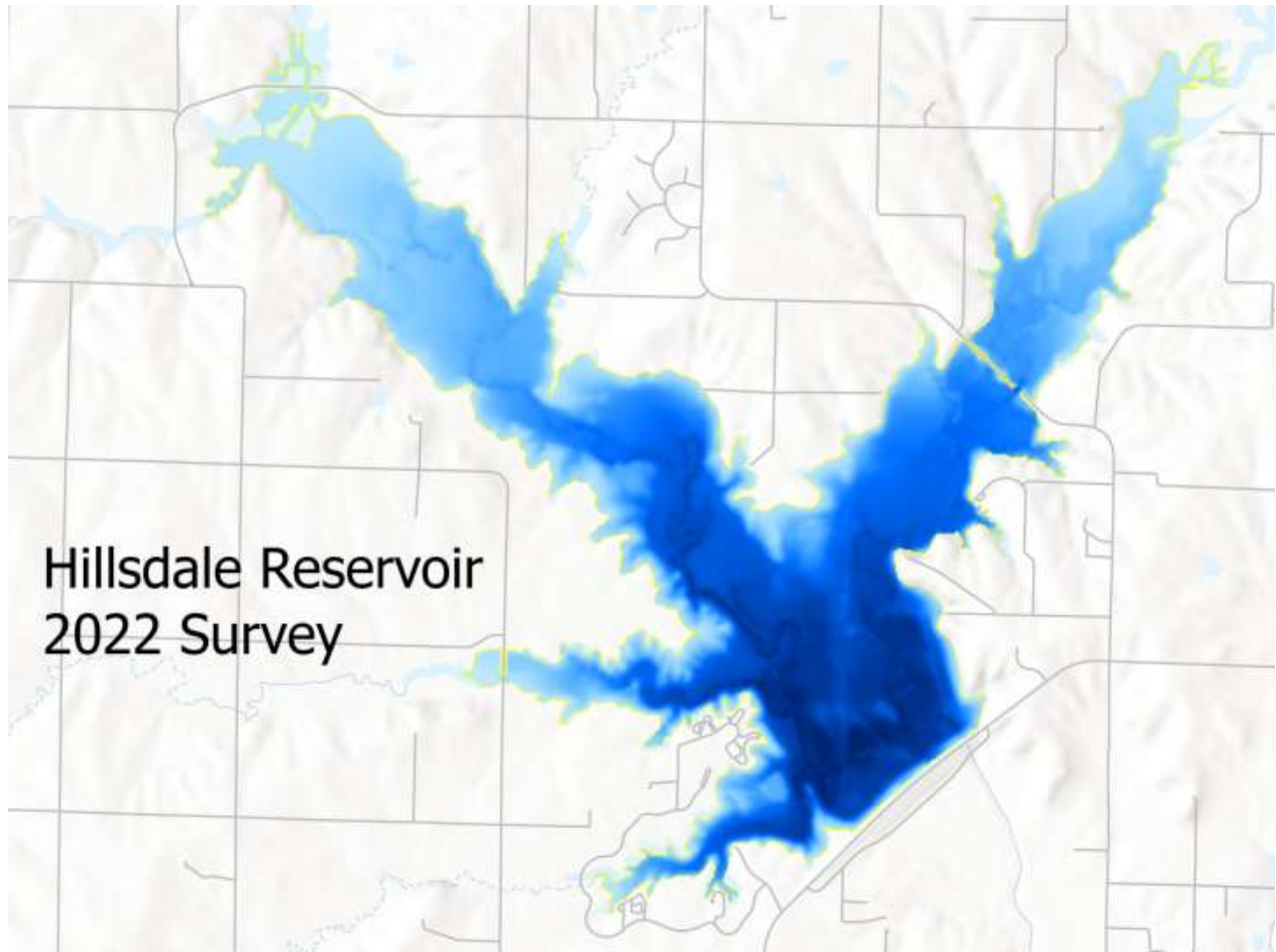


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Introduction

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 2024, 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 2024. 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 2024

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 2024		Surplus Yield Available for Contract	
	mgd	Af/yr	mgd	Af/yr	mgd	Af/yr
Big Hill (Pearson-Skubitz)	7.9	8,874	6.7	7,478	0.8	887
Clinton	17.3	19,393	1.4	1,595	0.0	0
Council Grove	8.2	9,183	0.2	241	0.2	241
Elk City	13.3	14,887	8.4	9,461	1.3	1,489
Hillsdale	15.3	17,205	1.2	1,370	0.0	0
John Redmond	30.5	34,144	2.0	2,203	0.0	0
Kanopolis	8.3	9,248	2.9	3,212	0.8	925
Marion	5.0	5,566	3.3	3,695	0.5	557
Melvern	8.6	9,616	5.0	5,652	0.9	962
Milford	106.9	119,878	87.3	97,904	10.7	11,988
Perry	77.0	86,277	64.1	71,894	0.0	0
Pomona	7.6	8,574	5.0	5,660	0.8	857
Toronto	4.5	5,027	4.5	5,027	0.1	117
Tuttle Creek	163.4	183,198	28.3	31,695	16.3	18,320

Explanation of Yield Changes from CY 2023 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 2023 to 2024 are summarized in the table below.

Yield Changes From 2023 Surplus Report

Lake	2023 Yield (MGD)	2024 Yield (MGD)	% Change from 2023	Comment
Big Hill (Pearson-Skubitz)	7.9	7.9	-0.2%	
Clinton	17.9	17.3	-3.1%	Updated survey
Council Grove	8.2	8.2	-0.7%	
Elk City	13.4	13.3	-1.0%	
Hillsdale	15.4	15.3	-0.6%	New survey
John Redmond	29.7	30.5	2.5%	New survey
Kanopolis	8.3	8.3	-0.2%	
Marion	5.1	5.0	-1.8%	
Melvern	8.6	8.6	0.0%	
Milford	107.6	106.9	-0.6%	Updated survey
Perry	74.6	77.0	3.2%	Updated survey
Pomona	7.7	7.6	-0.6%	
Toronto	4.5	4.5	-1.1%	
Tuttle Creek	160.5	163.4	1.8%	Updated survey

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 2024. Statute allows for a contract holder to negotiate a contract for an amount of water which gradually increases over time. The difference between the 2024 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 2024. 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 2024. Storage owned by a water assurance district and water committed to a water marketing customer in 2024 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 2024 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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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

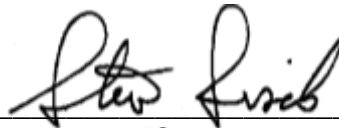
At the last Kansas Water Authority meeting of each calendar year, the Kansas Water Office will report to the Authority the following:

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

A handwritten signature in black ink, appearing to read "Steve Irsik", written over a horizontal line.

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	21,490	
Future Use	64.20%		5.1	13,796	
In Service	35.81%		2.8	7,694	
Water Marketing	35.80%		2.9	7,694	
Assurance District	0.00%		0	0	
Reserve Capacity	0.00%		0	0	

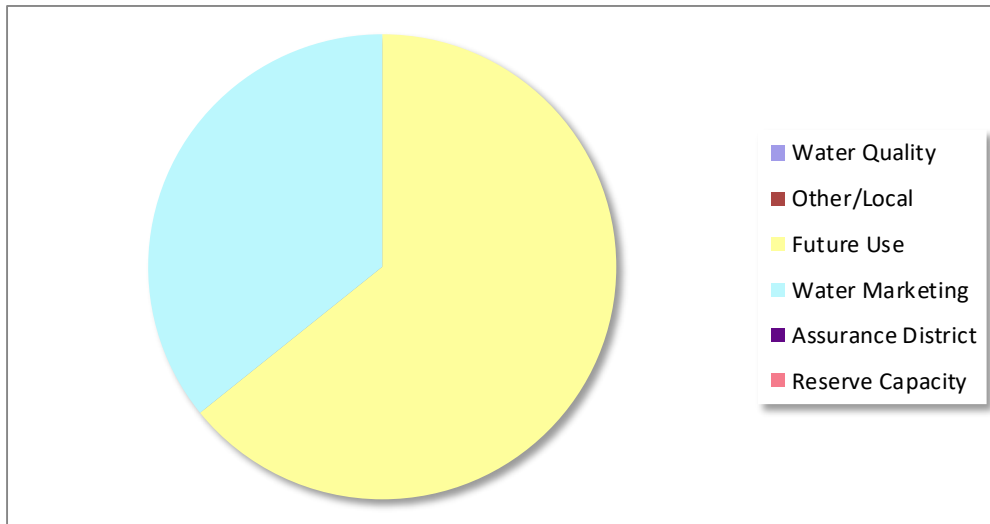


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 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	8,874	Current Yield
1.2	1,395	Marketing Contracts
0	0	WAD Storage Yield
5.1	5,696	Future Use Yield
1.6	1,782	Surplus Yield
0.79	887	Surplus Yield Available

Lake Level Management Consideration

No Lake Level Management Plan was prepared for Big Hill for Water Year 2024.

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	21,526		
Other/Local	0.00%	0	0		
Water Supply	80.80%	17.3	90,589		
Future Use	32.30%	6.9	36,213		
In Service	48.50%	10.4	54,376		
Water Marketing	48.50%	10.4	54,376		
Assurance District	0.00%	0	0		
Reserve Capacity	0.00%	0	0		

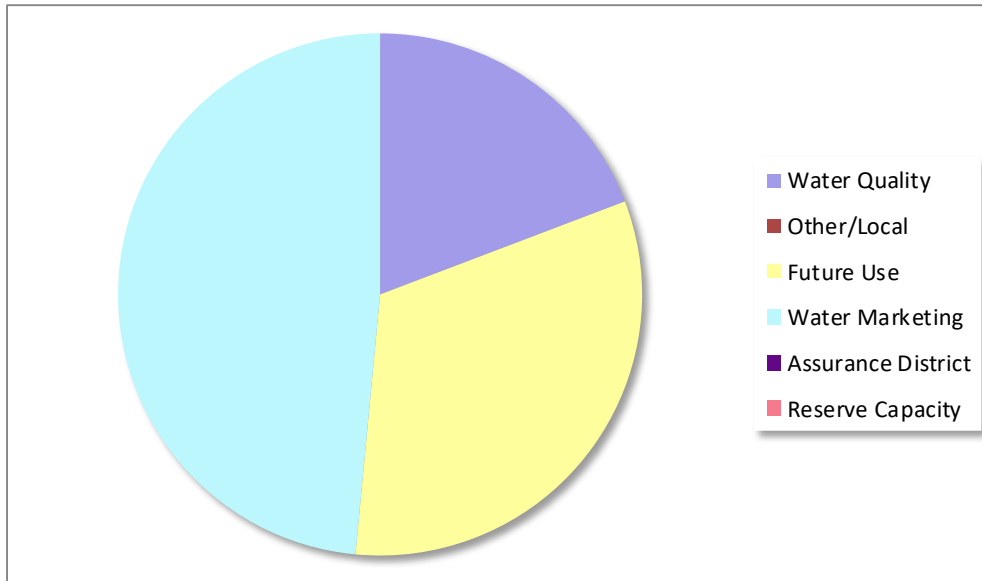


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 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

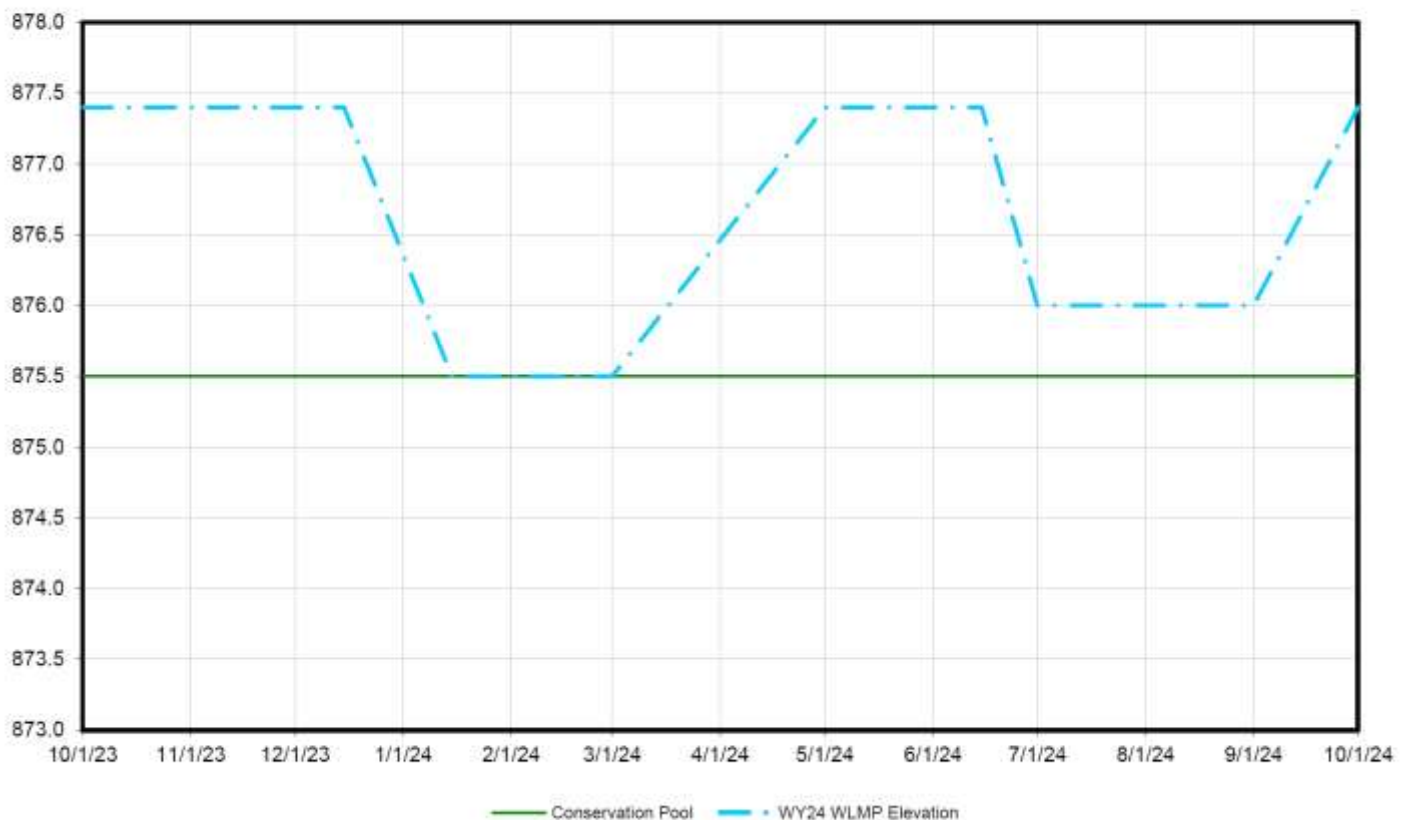
mgd	AF/yr	
17.3	19,393	Current Yield
15.9	17,798	Marketing Contracts
0	0	WAD Storage Yield
6.9	7,752	Future Use Yield
0.0	0	Surplus Yield
0.0	0	Surplus Yield Available

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		9,202
Other/Local	0.00%		0		0
Water Supply	77.33%		8.2		31,390
Future Use	0.00%		0.0		0
In Service	77.33%		8.2		31,390
Water Marketing	62.53%		6.6		25,383
Assurance District	14.80%		1.6		6,008
Reserve Capacity	0.00%		0.0		0

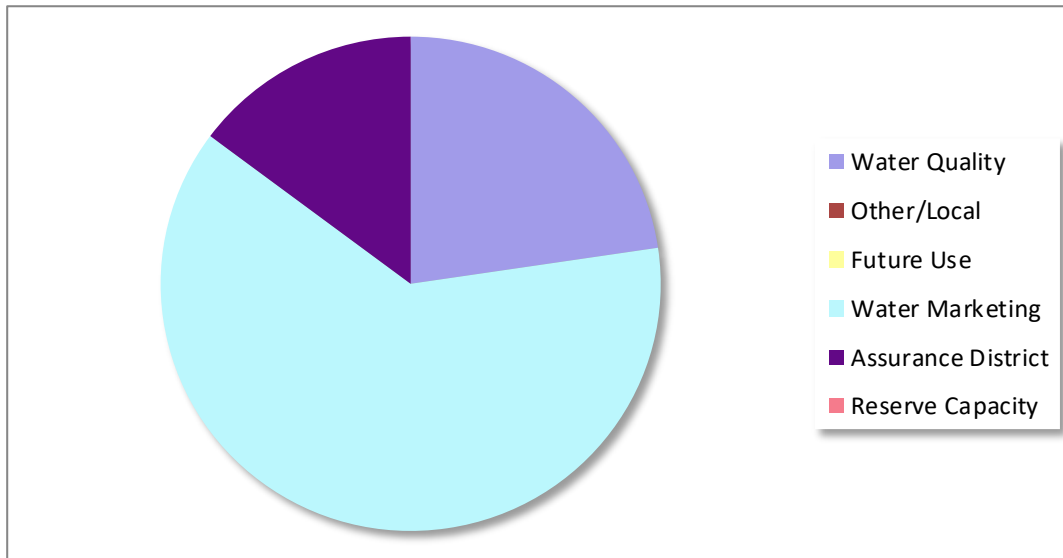


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
23-5	City of Emporia	12/31/2045	2,280,958,000	7,000	2,280,958,000	7,000
93-4	City of Council Grove	9/13/2033	60,000,000	184	150,000,000	460
			2,340,958,000	7,184	2,430,958,000	7,460

Table 3: Pending Applications

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

Table 4: Past Surplus Contracts

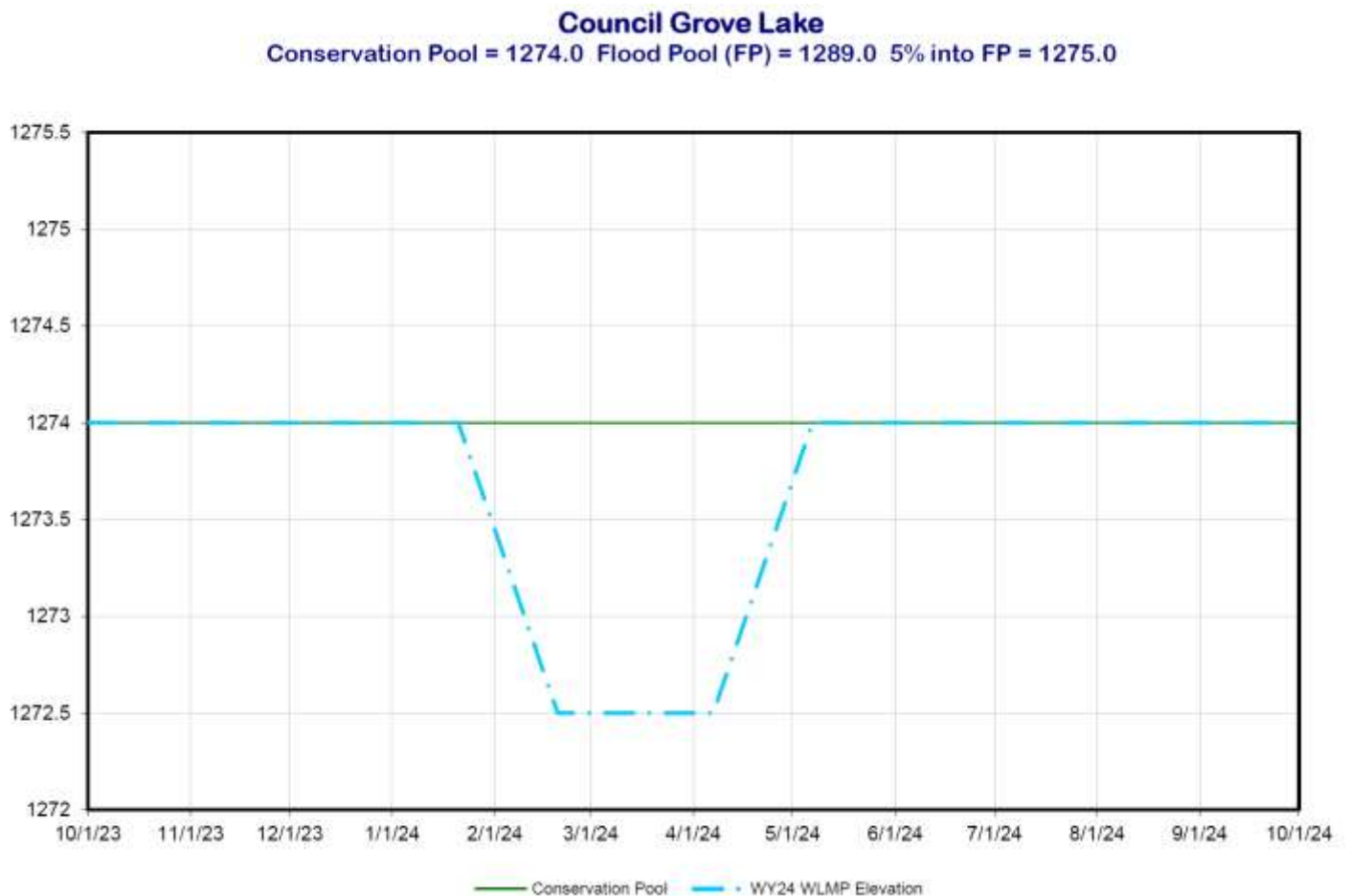
Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
23-03	Tom Moxley	12/31/2023	8,000,000	25

Table 5: Surplus Yield

mgd	AF/yr	
8.2	9,183	Current Yield
6.4	7,184	Marketing Contracts
1.6	1,758	WAD Storage Yield
0.0	0	Future Use Yield
0.2	241	Surplus Yield
0.22	241	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.



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	4,599
Other/Local	0.00%	0	0
Water Supply	85.92%	13.3	28,062
Future Use	0.00%	0.0	0
In Service	85.92%	13.3	28,062
Water Marketing	57.45%	8.9	18,764
Assurance District	0.00%	0.0	0
Reserve Capacity	28.47%	4.4	9,299

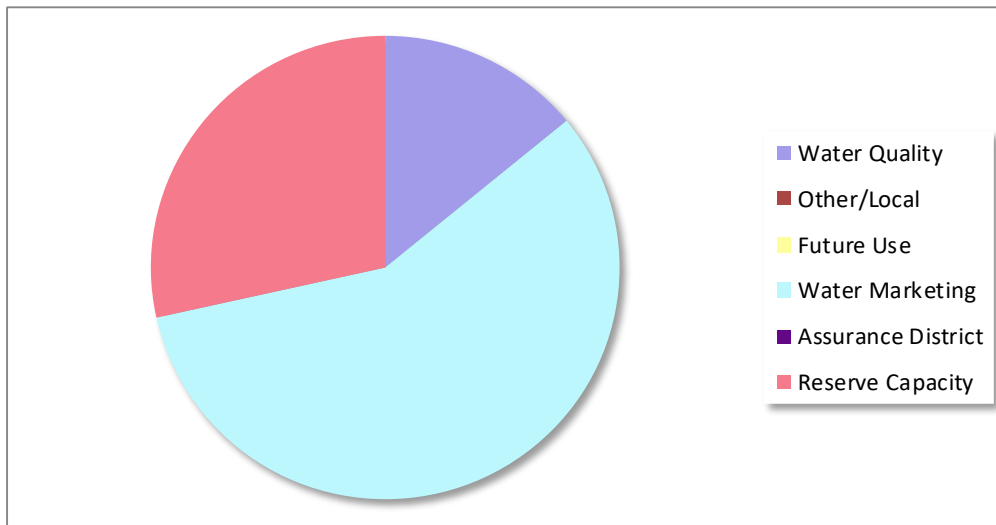


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
23-06	City of Coffeyville	12/17/2033	500,000,000	1,534	500,000,000	1,534
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
22-01	City of Independence	8/17/2062	60,000,000	184	60,000,000	184
23-08	City of Independence	10/18/2028	200,000,000	614		614
			1,568,000,000	5,426	1,568,000,000	5,426

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
23-04	City of Independence	12/31/2023	60,000,000	184
23-07	Dale Springer	12/31/2023	6,517,020	20
22-03	Independence Country Club	12/31/2022	2,000,000	6
22-04	Dale Springer	12/31/2022	6,517,020	20

Table 5: Surplus Yield

mgd	AF/yr	
13.3	14,887	Current Yield
4.8	5,426	Marketing Contracts
0.0	0	WAD Storage Yield
0.0	0	Future Use Yield
8.4	9,461	Surplus Yield
1.33	1,489	Surplus Yield Available

Lake Level Management Consideration

No Lake Level Management Plan was prepared for Elk City for Water Year 2024.

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	16,649
Other/Local		0.00%		0	0
Water Supply		77.94%		15.3	58,823
Future Use		53.26%		10.5	40,195
In Service		24.68%		4.9	18,629
Water Marketing		24.68%		4.9	18,629
Assurance District		0.00%		0.0	0
Reserve Capacity		0.00%		0.0	0

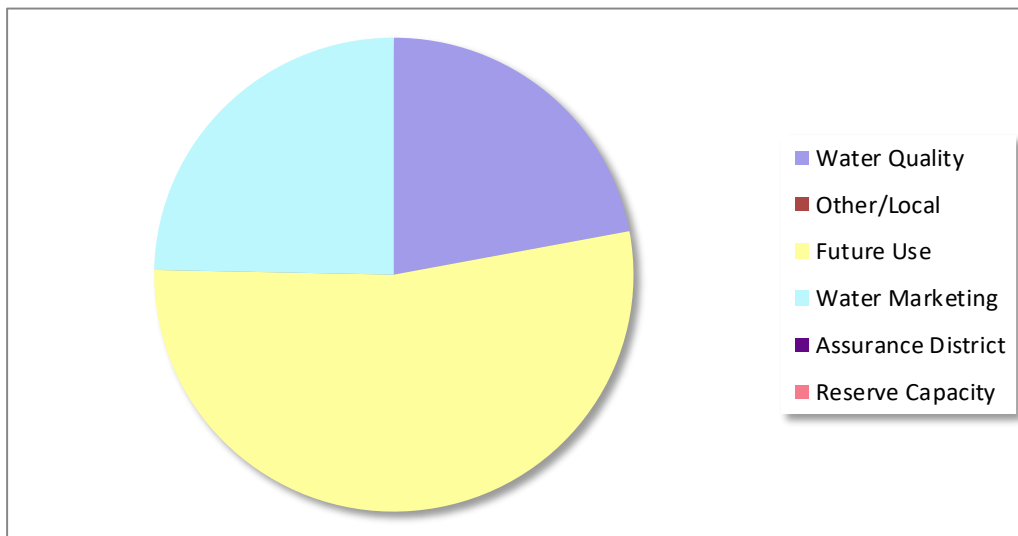


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
13-1	Hillsdale Area Water Cooperative	12/31/2052	5,159,713,000	15,835	5,308,560,000	16,291
			5,159,713,000	15,835	5,308,560,000	16,291

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

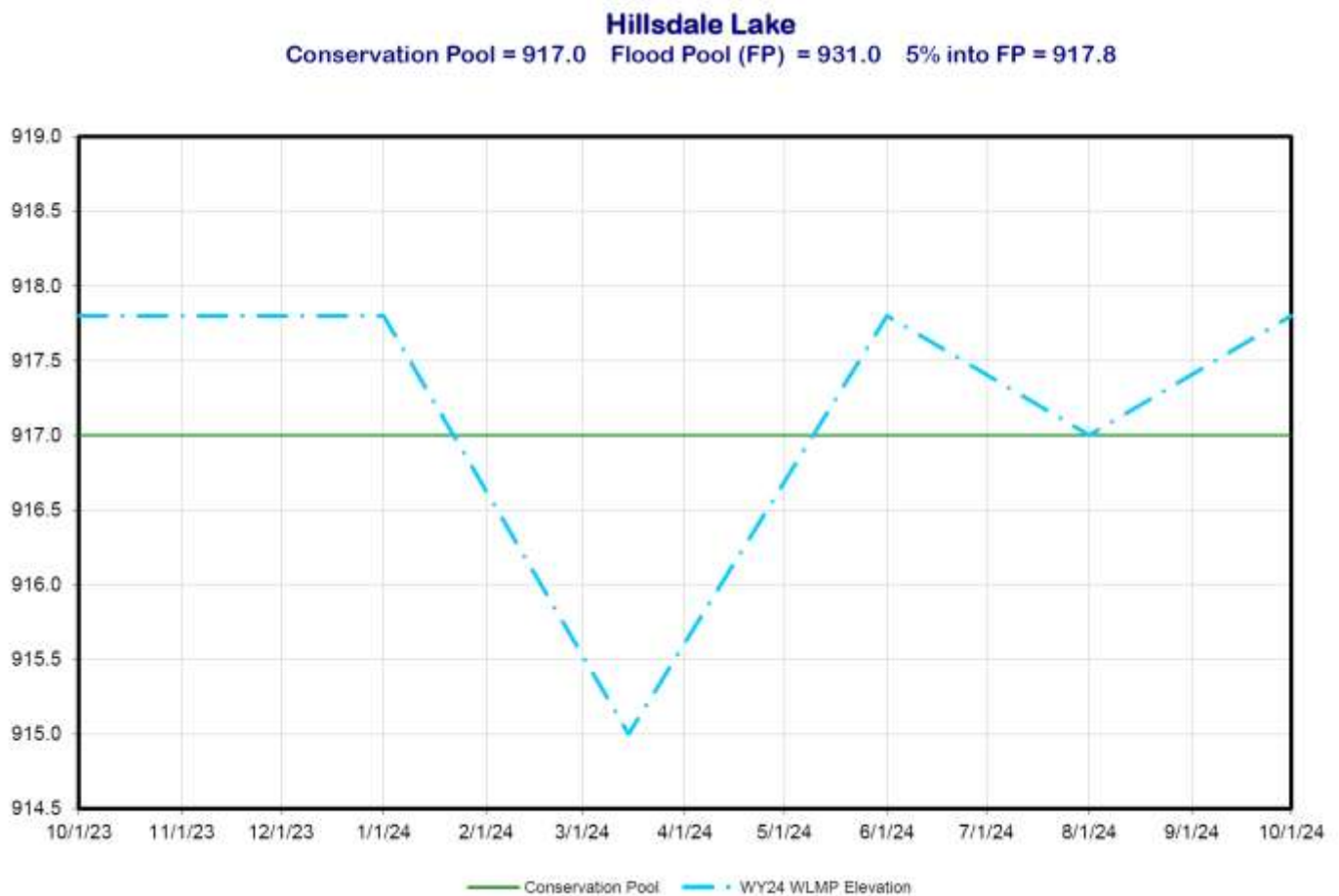
Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
15.3	17,205	Current Yield
14.1	15,835	Marketing Contracts
0.0	0	WAD Storage Yield
10.5	11,756	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.



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	13,800
Other/Local	0.00%	0	0
Water Supply	76.18%	30.5	44,135
Future Use	0.00%	0.0	0
In Service	76.18%	30.5	44,135
Water Marketing	69.06%	27.6	40,010
Assurance District	7.12%	2.8	4,125
Reserve Capacity	0.00%	0.0	0

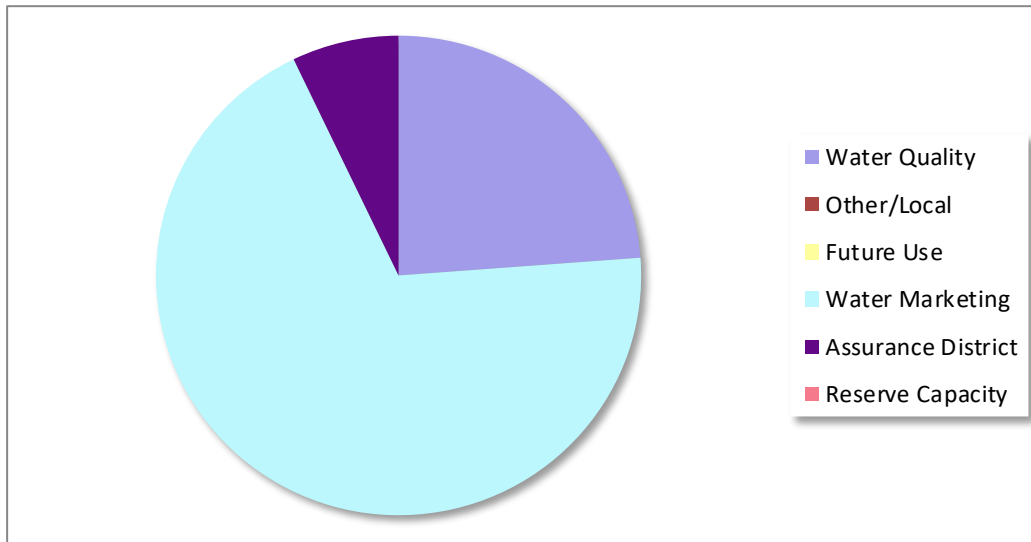


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
17-2	Wolf Creek Nuclear Generating Station (KG&E, KCP&L, KEPC)	12/31/2027	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	
30.5	34,144	Current Yield
25.6	28,749	Marketing Contracts
2.8	3,191	WAD Storage Yield
0.0	0	Future Use Yield
2.0	2,203	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 2024.

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	23,360	
Other/Local		0.00%	0	0	
Water Supply		46.60%	8.3	20,385	
Future Use		0.00%	0.0	0	
In Service		46.60%	8.3	20,385	
Water Marketing		22.37%	4.0	9,786	
Access District		24.23%	4.3	10,599	
Reserve Capacity		0.00%	0.0	0	

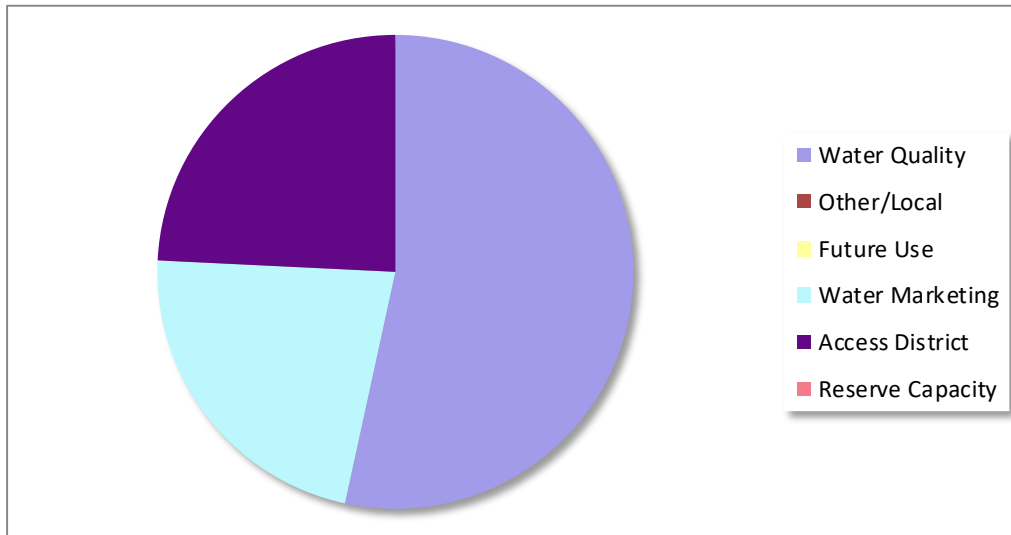


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 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

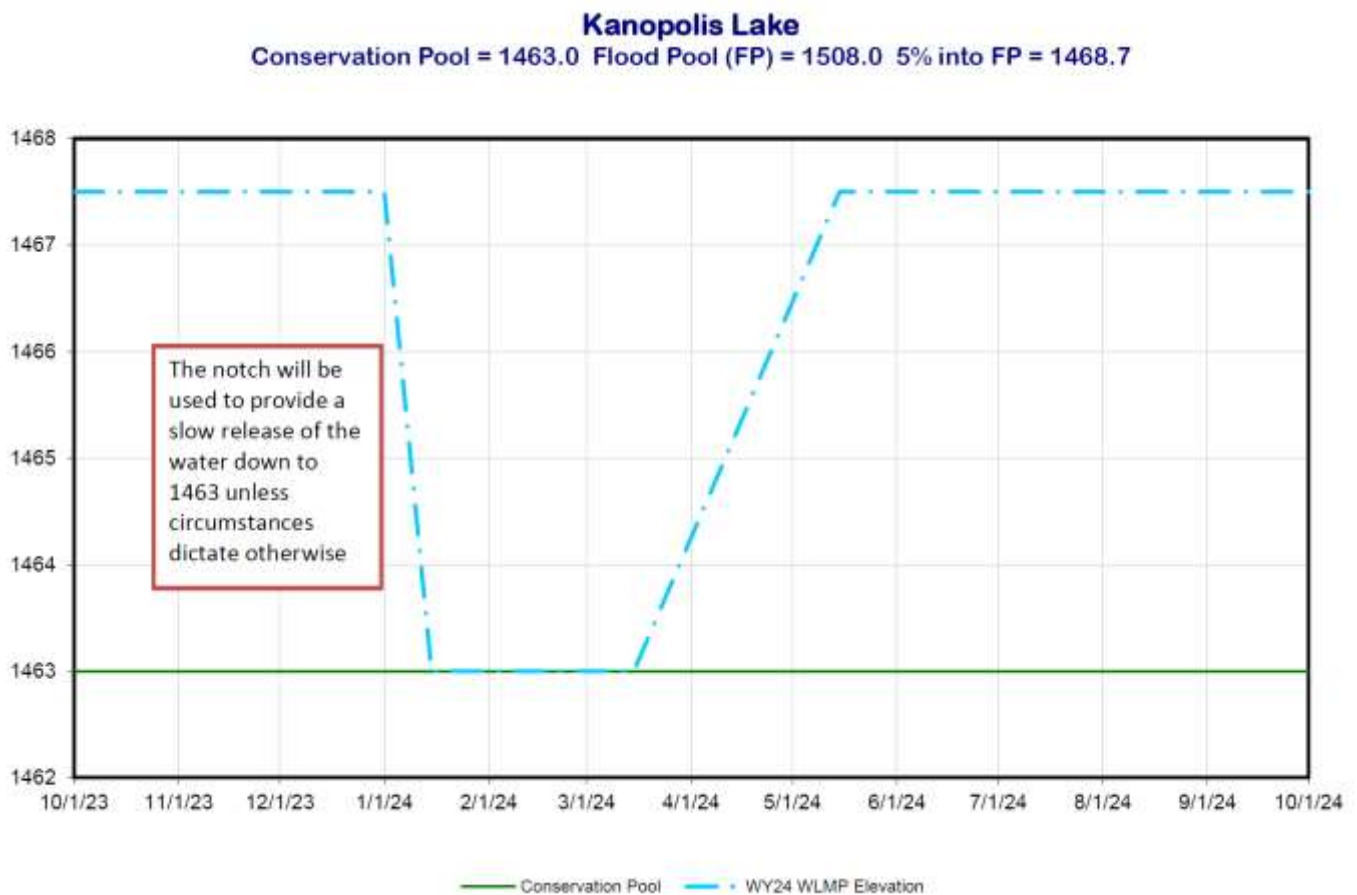
Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
8.3	9,248	Current Yield
1.1	1,228	Marketing Contracts
4.3	4,808	AD Storage Yield
0.0	0	Future Use Yield
2.9	3,212	Surplus Yield
0.83	925	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 2024 Water Year.



Marion Reservoir

Table 1: Conservation Storage Break Out

Conservation Pool Elevation (ft msl)		1320 - 1350.5	Flood Pool Elevation (ft msl)		1350.5 - 1358.5
	Break Out of Conservation Storage		Current Yield (mgd)		Current Storage (acre feet)
Water Quality	35.88%		0		27,628
Other/Local	0.00%		0		0
Water Supply	64.12%		5.0		49,374
Future Use	0.00%		0.0		0
In Service	64.12%		5.0		49,374
Water Marketing	45.77%		3.54		35,244
Assurance District	0.43%		0.03		331
Reserve Capacity	17.92%		1.39		13,799

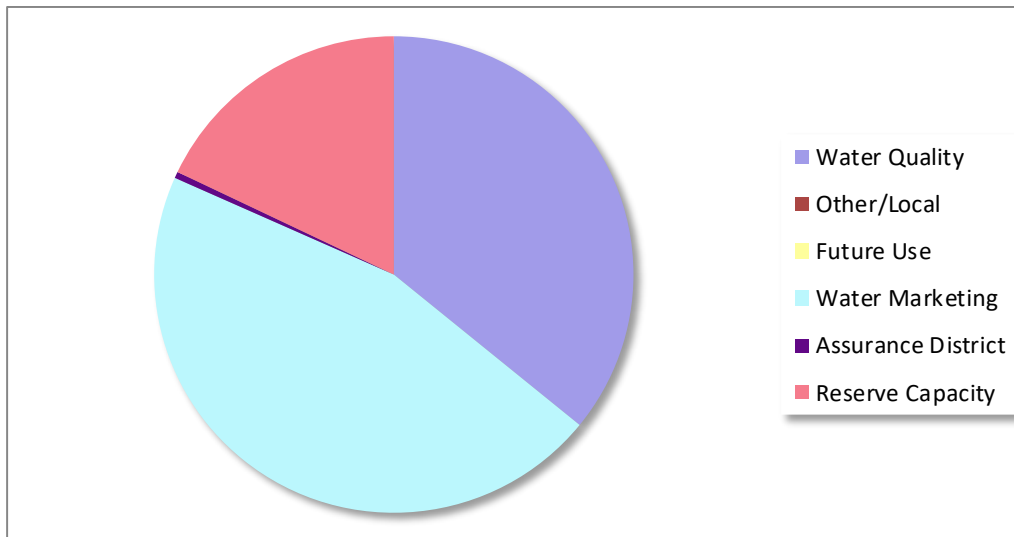


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
23-1	City of Marion	10/3/2063	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
22-02	Keith Jost	12/31/2022	30,000,000	92
23-02	Keith Jost	12/31/2023	6,000,000	18

Table 5: Surplus Yield

mgd	AF/yr	
5.0	5,566	Current Yield
1.64	1,834	Marketing Contracts
0.03	37	WAD Storage Yield
0.0	0	Future Use Yield
3.30	3,695	Surplus Yield
0.50	557	Surplus Yield Available

Lake Level Management Consideration

No Lake Level Management Plan was prepared for Marion Water Year 2024.

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	40,532
Other/Local	37.93%	0	55,722
Water Supply	34.48%	8.6	50,654
Future Use	0.00%	0.0	0
In Service	34.48%	8.6	50,654
Water Marketing	9.90%	2.5	14,544
Assurance District	7.17%	1.8	10,533
Reserve Capacity	17.41%	4.3	25,577

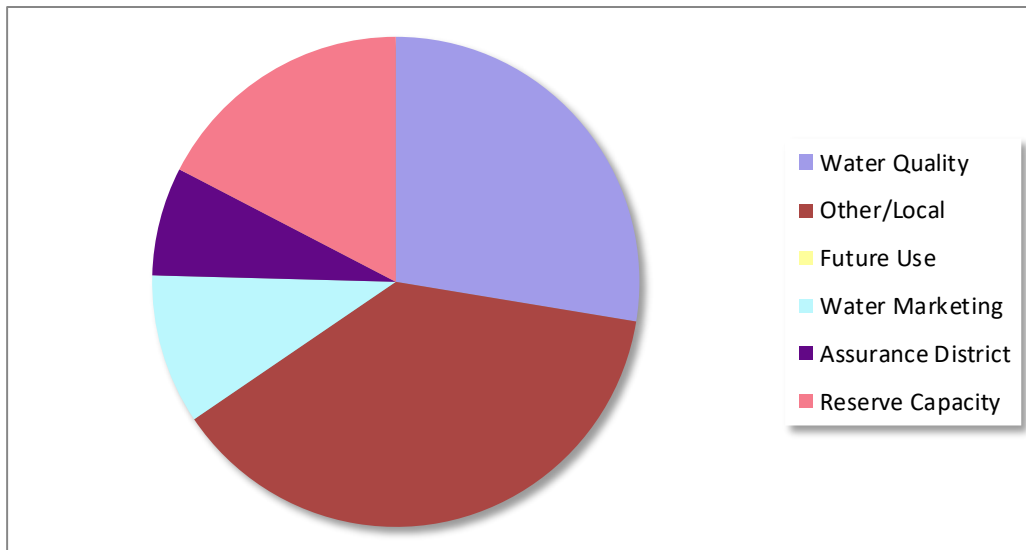


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 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

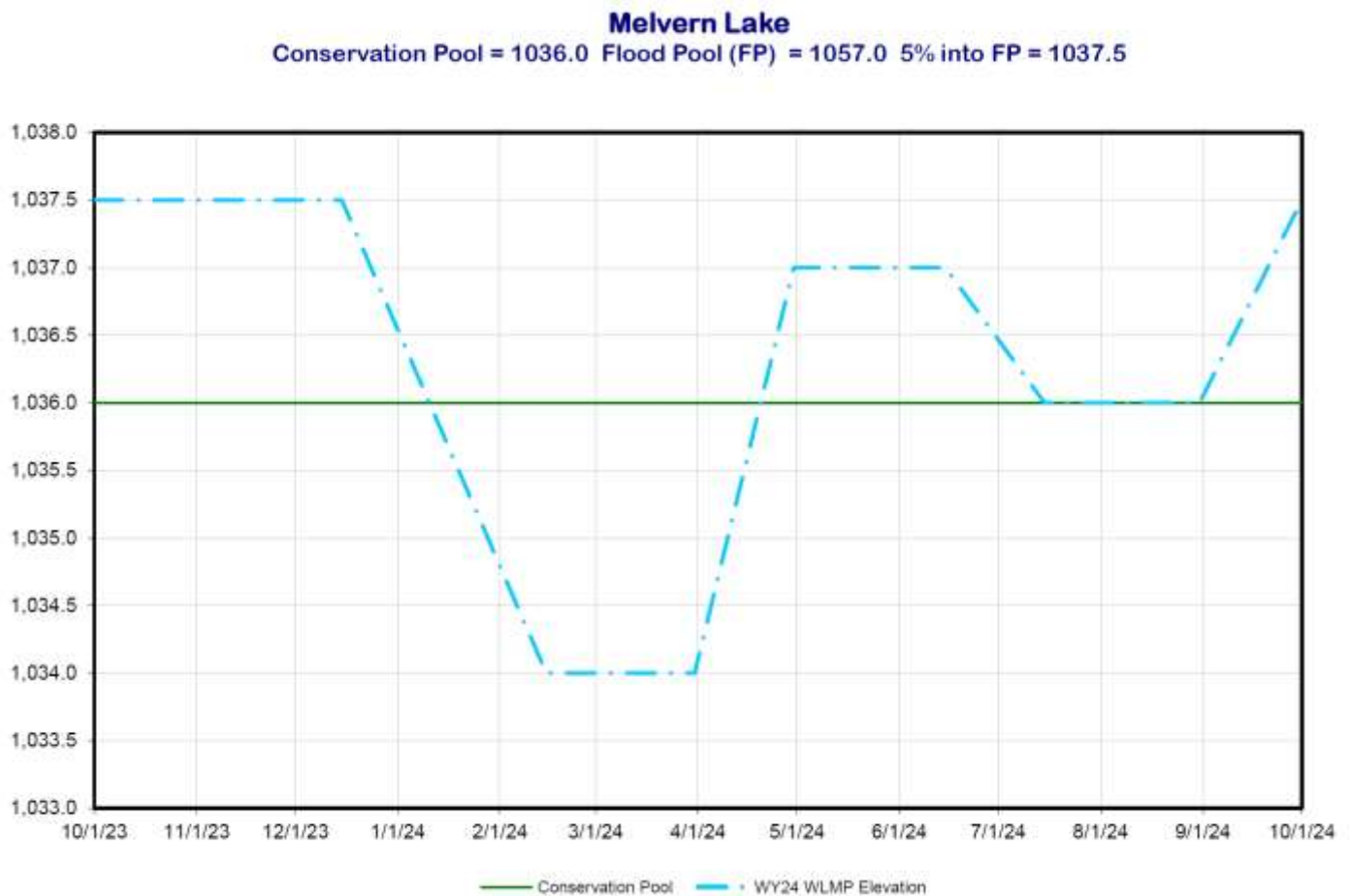
Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
8.6	9,616	Current Yield
1.8	1,964	Marketing Contracts
1.8	2,000	WAD Storage Yield
0.0	0	Future Use Yield
5.0	5,652	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.



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%	107	362,897
Future Use	66.12%	71	239,948
In Service	33.88%	36	122,950
Water Marketing	0.00%	0	0
Assurance District	18.33%	20	66,519
Reserve Capacity	15.55%	17	56,431

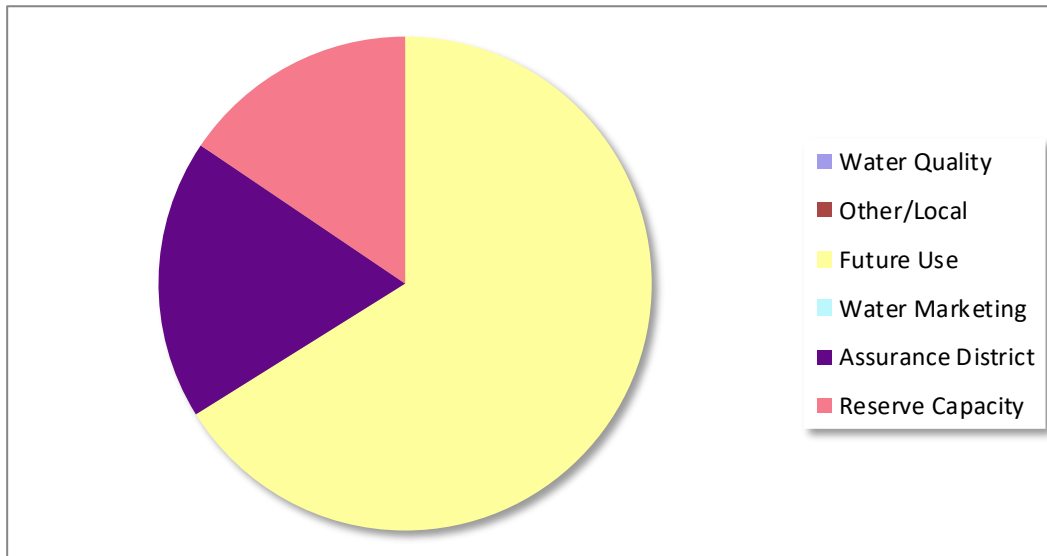


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 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

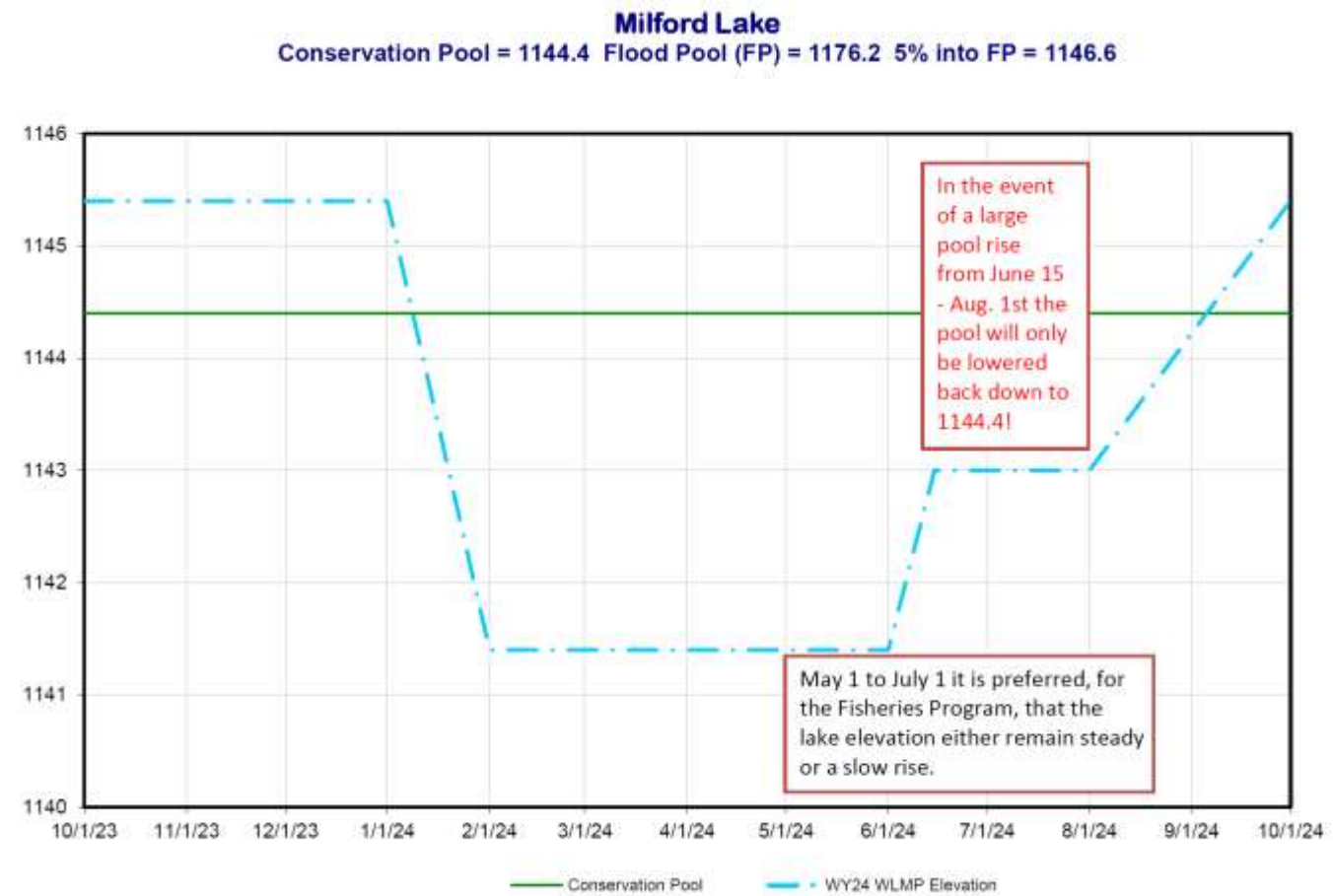
Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
107	119,878	Current Yield
0	0	Marketing Contracts
20	21,974	WAD Storage Yield
71	79,263	Future Use Yield
16.6	18,641	Surplus Yield
10.69	11,988	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%		77.0	189,387	
Future Use	83.33%		64.1	157,816	
In Service	16.67%		12.8	31,571	
Water Marketing	0.00%		0.0	0	
Assurance District	16.67%		12.8	31,571	
Reserve Capacity	0.00%		0.0	0	

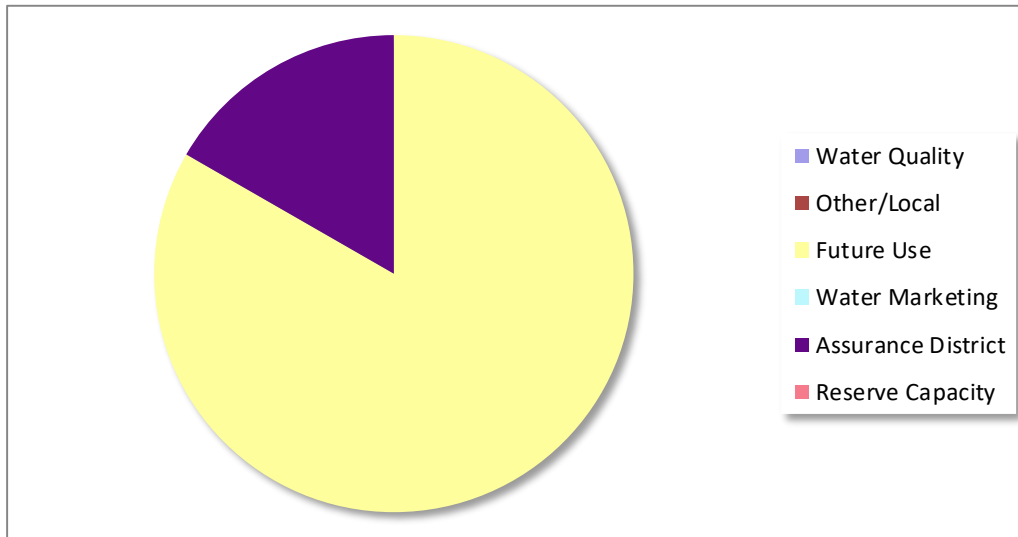


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 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

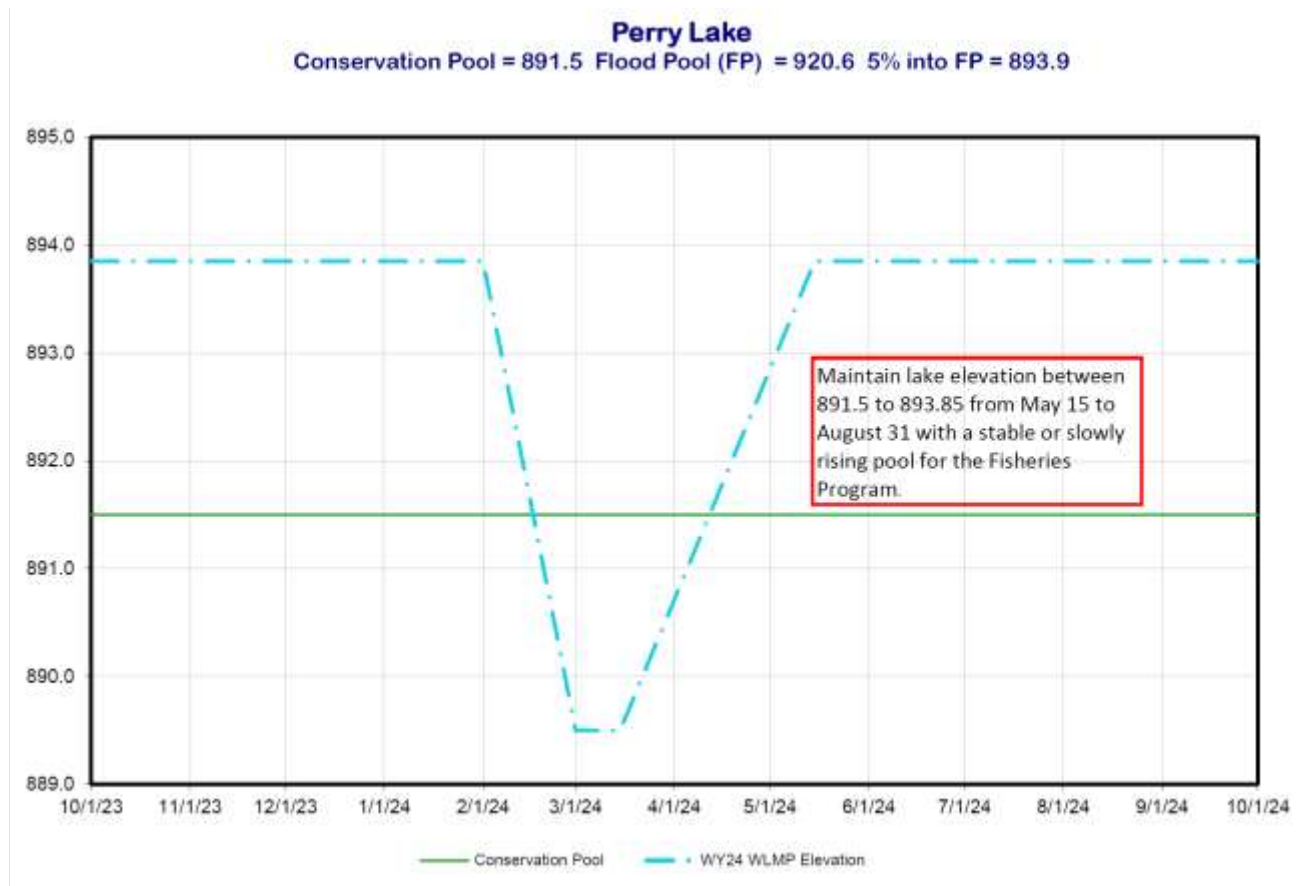
Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
77.0	86,277	Current Yield
0.0	0	Marketing Contracts
12.8	14,382	WAD Storage Yield
64.1	71,894	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.



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	12,726
Other/Local	0.89%	0	450
Water Supply	73.86%	7.6	37,234
Future Use	0.00%	0.0	0
In Service	73.86%	7.6	37,234
Water Marketing	1.52%	0.2	766
Assurance District	23.63%	2.4	11,912
Reserve Capacity	48.71%	5.0	24,556

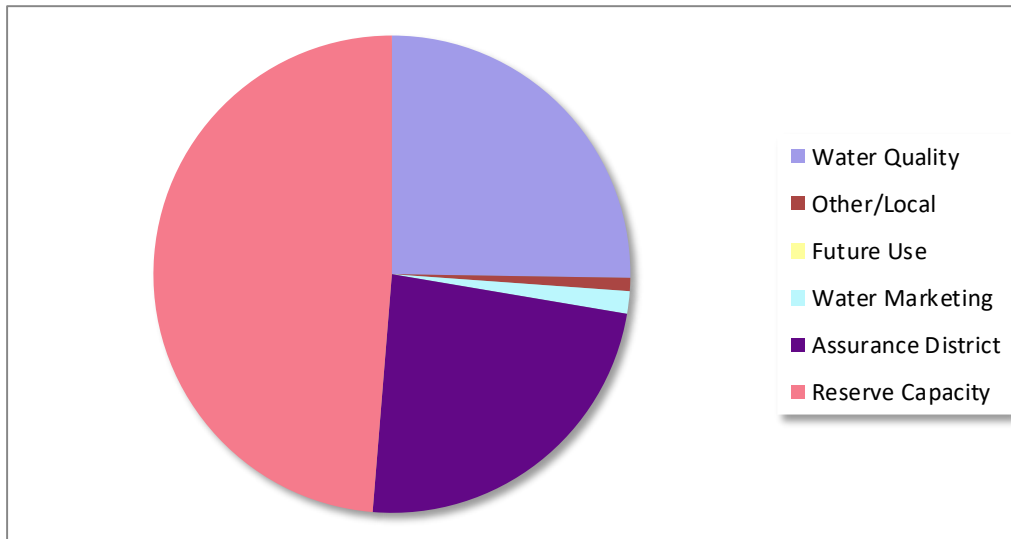


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 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

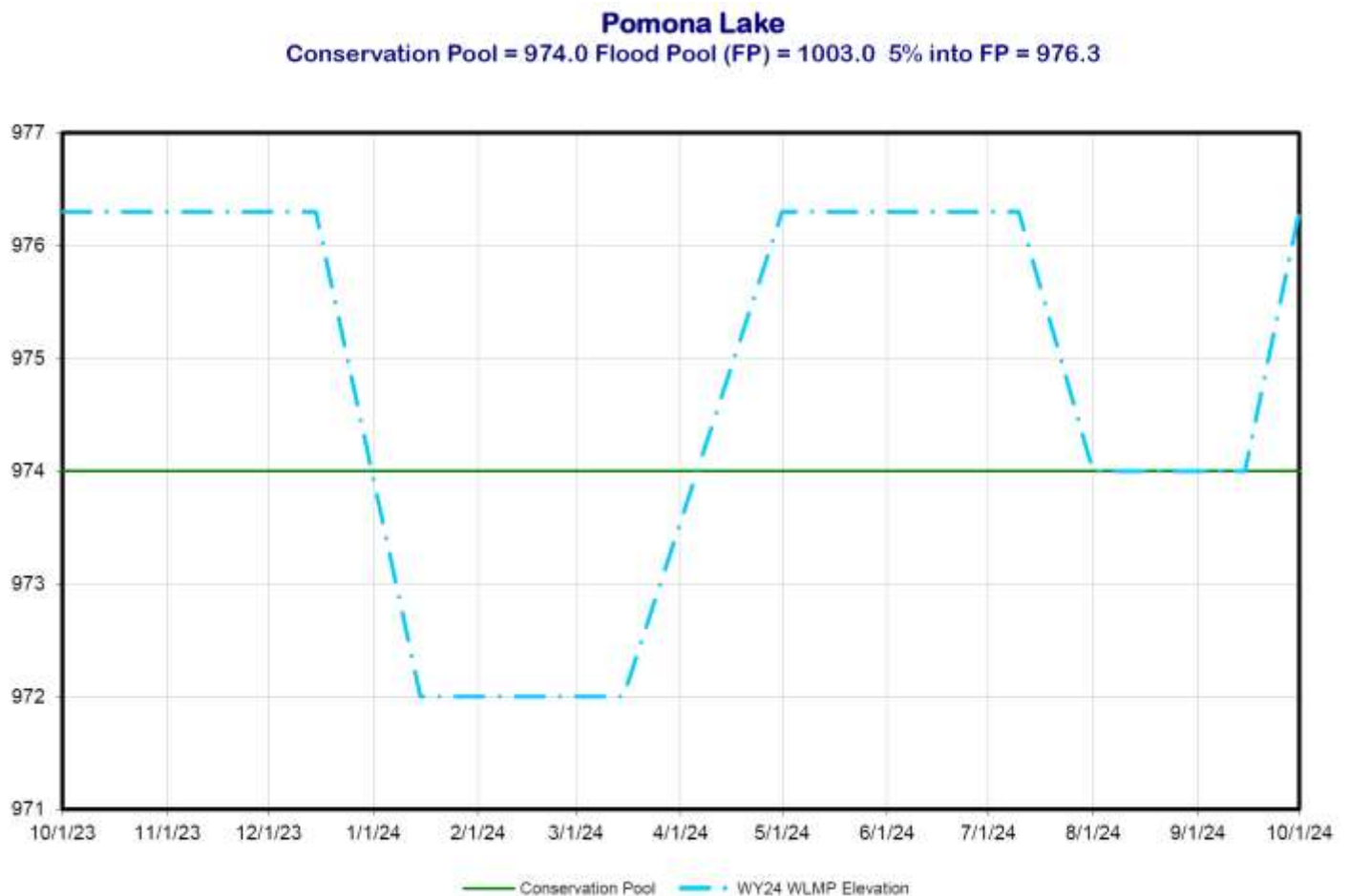
Contract Number	Customer Name	Contract End Date	Annual Contract Maximum Gallons	Annual Contract Maximum AF
There were no surplus contracts in the past two years				

Table 5: Surplus Yield

mgd	AF/yr	
7.6	8,574	Current Yield
0.2	171	Marketing Contracts
2.4	2,743	WAD Storage Yield
0.0	0	Future Use Yield
5.0	5,660	Surplus Yield
0.76	857	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.



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	60.04%	2.7	8,181
Inactive (Below 896.0)	37.63%	1.7	5,127
Water Supply	2.33%	0.1	318
Future Use	0.00%	0.0	0
In Service	2.33%	0.1	318
Water Marketing	0.00%	0.0	0
Assurance District	0.00%	0.0	0
Reserve Capacity	2.33%	0.1	318

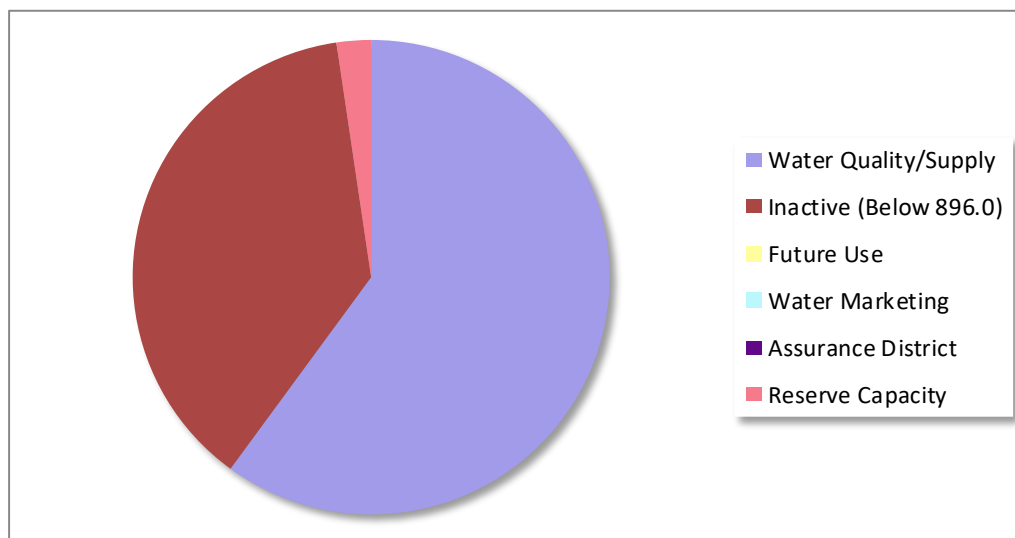


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 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	
4.5	5,027	Current Yield
0.0	0	Marketing Contracts
0.0	0	WAD Storage Yield
0.0	0	Future Use Yield
0.1	117	Surplus Yield
0.10	117	Surplus Yield Available

Lake Level Management Consideration

No Lake Level Management Plan was prepared for Toronto for Water Year 2024.

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	130,607	
Other/Local		0.00%	0	0	
Water Supply		40.98%	163.4	90,686	
Future Use		0.00%	0.0	0	
In Service		40.98%	163.4	90,686	
Water Marketing		0.00%	0.0	0	
Assurance District		33.89%	135.2	74,996	
Reserve Capacity		7.09%	28.3	15,690	

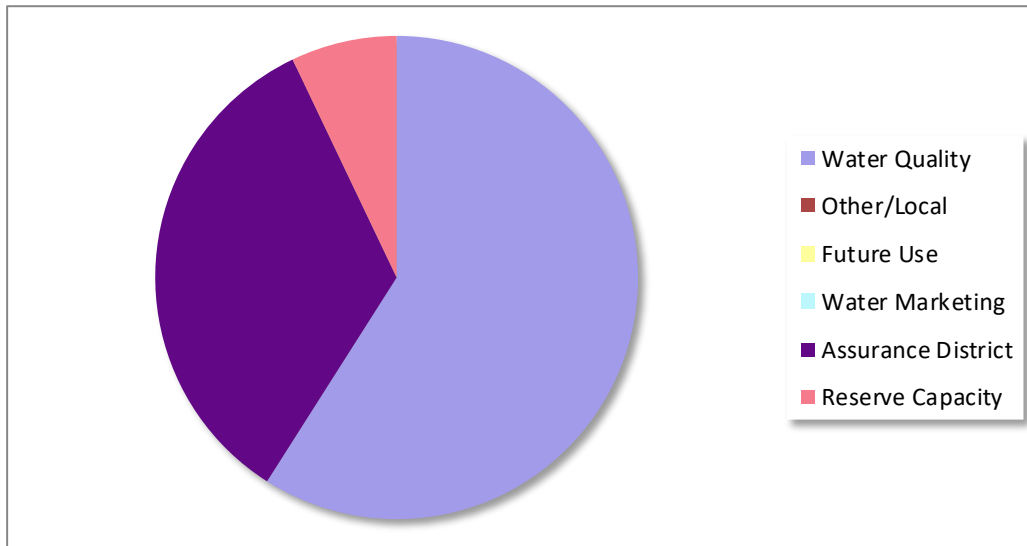


Table 2: Contracted Quantities

Contract Number	Customer Name	Contract End Date	2024 Maximum Gallons	2024 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	
163	183,198	Current Yield
0	0	Marketing Contracts
135	151,503	WAD Storage Yield
0	0	Future Use Yield
28	31,695	Surplus Yield
16.3	18,320	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.

