

Surplus Water Available in Water Marketing Program Lakes Calendar Year 2012



November 2011



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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 2012, 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 disposing of surplus waters for calendar year 2012. 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 2012

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 in service and is not committed to another user for that year. The Surplus Yield Available is equal to either the surplus yield or 10% of the water supply yield, whichever value is smaller.

Summary Table

Lake	Water Supply Yield		Surplus Yield Available in 2012	
	mgd	Af/yr	mgd	Af/yr
Big Hill (Pearson-Skubitz)	8.4	9,409	0.84	941
Clinton	18.6	20,835	0.00	0
Council Grove	8.6	9,633	0.86	963
Elk City	14.9	16,690	1.49	1,669
Hillsdale	15.9	17,810	0.00	0
John Redmond	28.0	31,364	2.80	3,136
Kanopolis	8.4	9,409	0.84	941
Marion	5.3	5,936	0.53	594
Melvern	7.6	8,513	0.76	851
Milford	113	126,576	0.00	0
Perry	71.4	79,978	0.00	0
Pomona	8.2	9,185	0.82	919
Tuttle Creek	184	206,106	18.4	20,611

EXPLANATION OF 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 1990s 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 2012. Statute allows for a contract holder to negotiate a contract for an amount of water which gradually increases over time. The difference between the 2012 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 2012. 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 five years for each lake.

Table 5 - Surplus Yield

This table lists the yield that is determined to be surplus in 2012. Storage owned by a water assurance district and water committed to a water marketing customer in 2012 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 2012 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 is limited to 10% of the Current Yield.

Calculation of Surplus Yield Available (*example*):

mgd	AF/yr	
10	11,201	Current Yield
-	2,240	Marketing Contracts
-	3,360	WAD Storage Yield
-	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 increase 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. The desired pool elevations at Elk City and John Redmond have been limited due to an excessive evacuation of storage to both the water quality and water supply pools.

Drought Conditions

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. This report is currently being updated weekly.

As of October 17th, a total of 86 counties are under state drought stages, with 30 counties in an emergency state, 29 in Warning and 27 in Watch.

The reservoirs in the Marais des Cygnes basin (Hillsdale, Melvern and Pomona) are all below conservation pool. Inflows are minimal and releases from conservation storage water quality pools are being made in excess of minimum releases to maintain flow to state line during the recreational pumping season. Releases from assurance district storage are not necessary at this time.

The Neosho basin (Marion, Council Grove and John Redmond reservoirs) has had no consistent natural flows in the upper Neosho. Marion has 77%, Council Grove 81% and John Redmond 54% of storage remaining in the conservation pool. Releases continue from all three reservoirs. The water supply release continues from Council

Grove Reservoir for Emporia. MDS orders remain in effect upstream of Parsons for the Neosho and Cottonwood rivers. Releases continue from John Redmond to meet the needs of the water assurance district members and Wolf Creek power plant.

The Smoky Hill basin is experiencing low flow conditions. Kanopolis Reservoir was above conservation pool prior to releases to draw levels down to allow for periodic inspection and is now 0.6 feet below normal pool with a steady decline in elevation. There is no flow from Cedar Bluff to Pfeiffer. The City of Russell has water supply in Cedar Bluff, which may be released when specific criteria and the need arises.

In the Verdigris basin Elk City, Toronto, and Fall River reservoirs continue releasing from storage to provide flows adequate to meet municipal and industrial demands. There is very little natural flow on the main stem and no inflow to any of the four reservoirs. The remaining conservation pool storage is as follows: Elk City 70%, Toronto 68%, Fall River 75%, and Big Hill 91%.

The impact of drought conditions on reservoir storage will be a consideration 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.

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

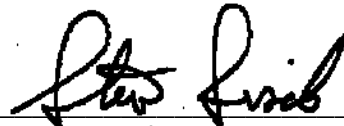
At the last Kansas Water Authority meeting of each calendar year, the Kansas Water Office will report to the Authority the following:

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.

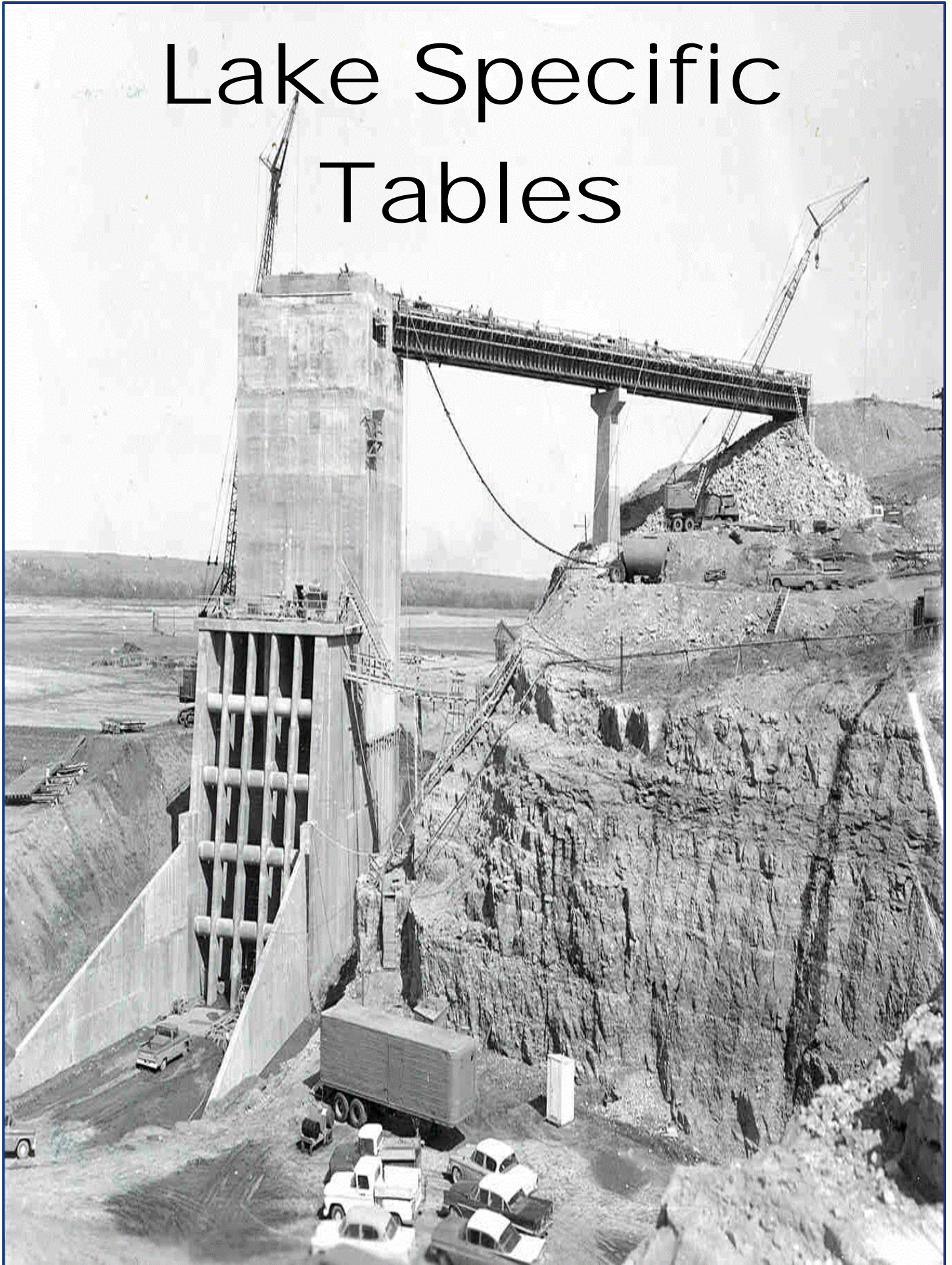
Because the yield capability of each reservoir's water conservation storage, referred to in K.S.A. 82a-1305(a), is projected into the future forty years per K.A.R. 98-5-8(a)(4) and the annual report of disposal of surplus water will utilize yield data associated with the following calendar year, the 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

Lake Specific Tables



Big Hill, Pearson-Skubitz 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
Other/Local	0.00%		0
Water Supply	100.00%	8.4	26,543
Future Use	64.20%	5.4	17,039
In Service	35.80%	3	9,504
Water Marketing	35.80%	3	9,504
Assurance District	0.00%	0	0
Reserve Capacity	0.00%	0	0

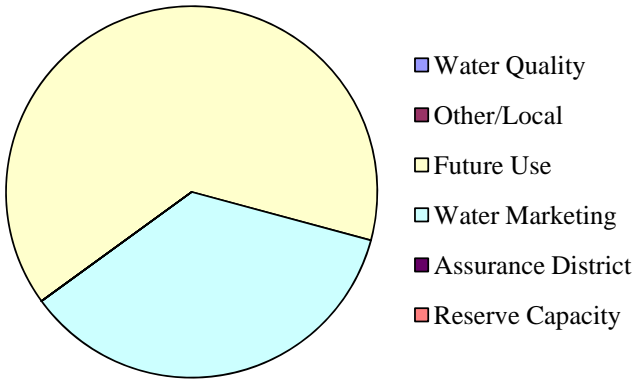


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
98-1	Public Wholesale Water Supply Dist. No. 4	4/17/2038	418,262,800	1,284	454,700,000	1,395
			418,262,800	1,284	454,700,000	1,395

Table 3 - Pending Applications – There are no pending applications on file.

Table 4 - Past Surplus Contracts – There are no surplus contracts on file.

Table 5 - Surplus Yield

mgd	AF/yr		
8.4	9,409	Current Yield	
-	1.1	1,284	Marketing Contracts
-	0	0	WAD Storage Yield
-	5.4	6,049	Future Use Yield
1.9	2,076	Surplus Yield	
0.84	941	Surplus Yield Available	

Lake Level Management Consideration

No Lake Level Management Plan was prepared or submitted for Big Hill Reservoir for Water Year 2012 (WY2012).

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%		22,682
Other/Local	0.00%		0
Water Supply	80.80%	18.6	95,453
Future Use	32.30%	7.4	38,158
In Service	48.50%	11.2	57,295
Water Marketing	48.50%	11.2	57,295
Assurance District	0.00%	0	0
Reserve Capacity	0.00%	0	0

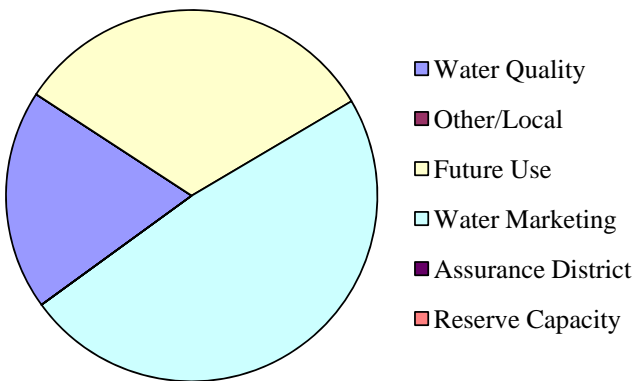


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
77-1	City of Lawrence	12/29/2019	3,468,957,286	10,646	3,468,957,286	10,646
77-2	Douglas County Rural Water District No. 5	12/29/2019	45,620,891	140	45,620,891	140
77-3	City of Baldwin City	12/29/2019	323,128,999	992	323,128,999	992
77-4	Douglas County Rural Water District No. 1	12/29/2019	47,516,490	146	47,516,490	146
77-5	Douglas County Rural Water District No. 4	12/29/2019	68,431,337	210	68,431,337	210
79-1	Douglas County Rural Water District No. 3	12/13/2021	684,273,174	2,100	684,273,174	2,100
79-2	Douglas County Rural Water District No. 6	12/13/2021	23,759,981	73	23,759,981	73
90-1	Douglas County Rural Water District No. 1	1/1/2031	14,258,172	44	14,258,172	44
90-2	Douglas County Rural Water District No. 6	1/1/2031	9,503,298	29	9,503,298	29
90-3	Douglas County Rural Water District No. 2	1/1/2031	80,782,250	248	80,782,250	248
90-5	City of Lawrence	1/1/2031	834,317,000	2,560	1,387,481,489	4,258
95-2	Douglas County Rural Water District No. 4	10/26/2035	87,000,000	267	105,488,095	324
95-3	Douglas County Rural Water District No. 5	10/26/2035	107,000,000	328	128,298,541	394
			5,794,548,878	17,783	6,387,500,003	19,604

Table 3 - Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
Douglas County Rural Water District No. 3	10/23/2014	200,000,000	614

Table 4 - Past Surplus Contracts – There are no surplus contracts on file.

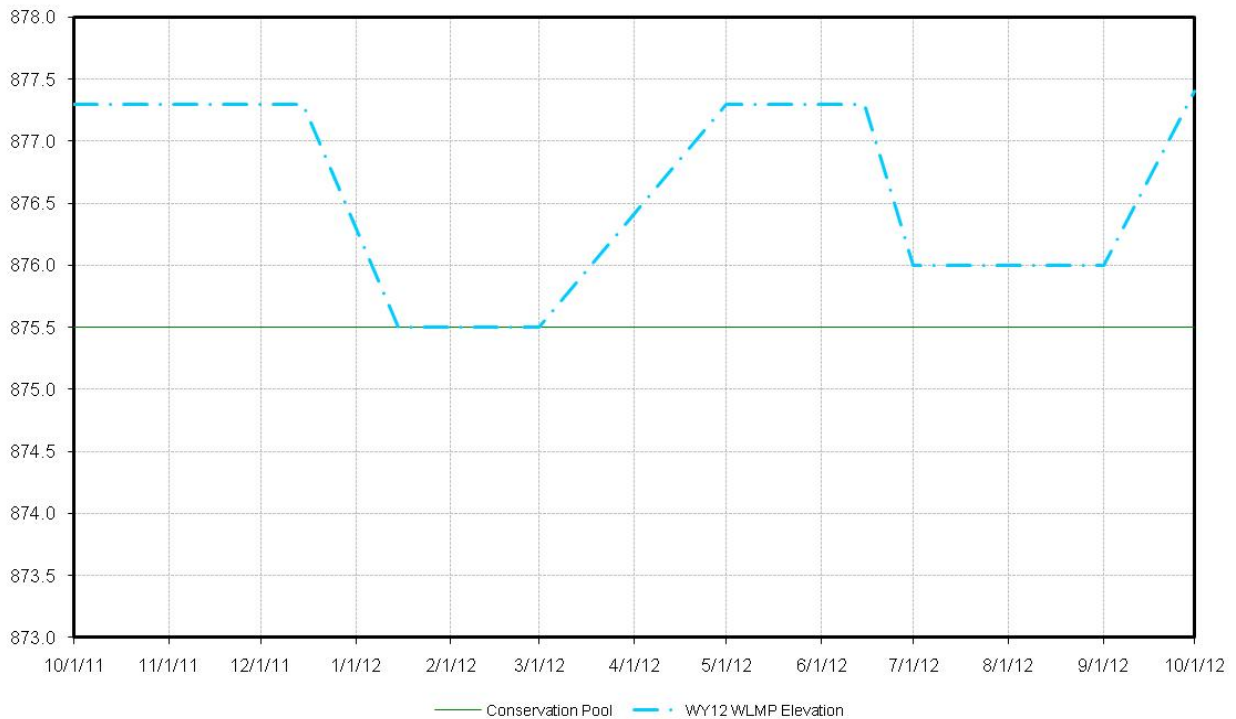
Table 5 - Surplus Yield

mgd	AF/yr	
18.6	20,835	Current Yield
- 15.9	17,783	Marketing Contracts
- 0	0	WAD Storage Yield
- 7.4	8,289	Future Use Yield
0	0	Surplus Yield
0	0	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Clinton Reservoir, none of the conservation storage will be evacuated during the 2012 Water Year.

Clinton Reservoir
 Conservation Pool = 875.5 Flood Pool = 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%		9,750
Other/Local	0.00%		0
Water Supply	77.33%	8.6	33,257
Future Use	0.00%	0	0
In Service	77.33%	8.6	33,257
Water Marketing	43.43%	4.8	18,678
Assurance District	14.80%	1.6	6,365
Reserve Capacity	19.10%	2.1	8,214

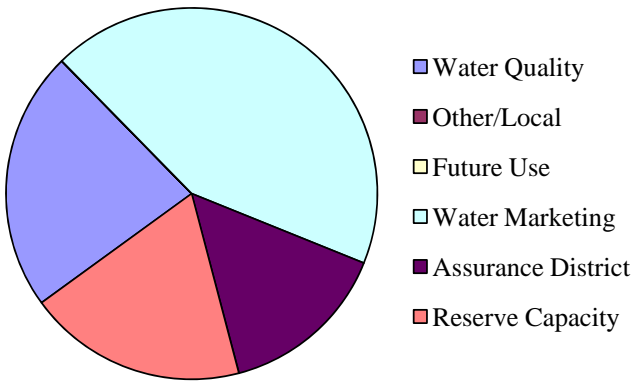


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 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	9,000,000	28	150,000,000	460
			1,104,000,000	3,388	1,245,000,000	3,820

Table 3 - Pending Applications – There are no pending applications on file.

Table 4 - Past Surplus Contracts – There are no surplus contracts on file.

Table 5 - Surplus Yield

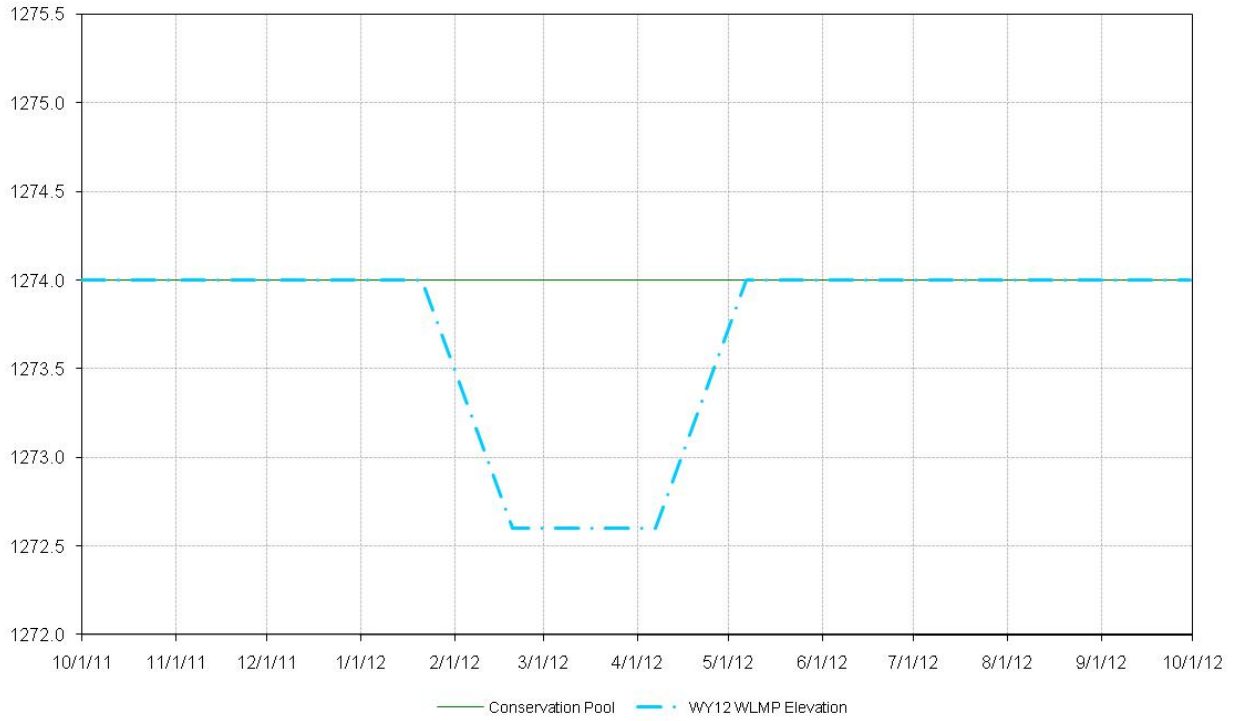
mgd	AF/yr	
8.6	9,633	Current Yield
-	3,388	Marketing Contracts
-	1,792	WAD Storage Yield
-	0	Future Use Yield
4	4,481	Surplus Yield
0.86	963	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Council Grove Reservoir, pool level will be lowered

in January. The quantity of water in the quality pool is sufficient for the evacuation of storage associated with the change in elevation. The minimum lake level in this plan does not require disposition of surplus water.

Council Grove Reservoir
Conservation Pool = 1274.0 Flood Pool = 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%		5,165
Other/Local	0.00%		0
Water Supply	85.92%	14.9	31,512
Future Use	0.00%	0	0
In Service	85.92%	14.9	31,512
Water Marketing	57.45%	10.0	21,070
Assurance District	0.00%	0	0
Reserve Capacity	28.47%	4.9	10,442

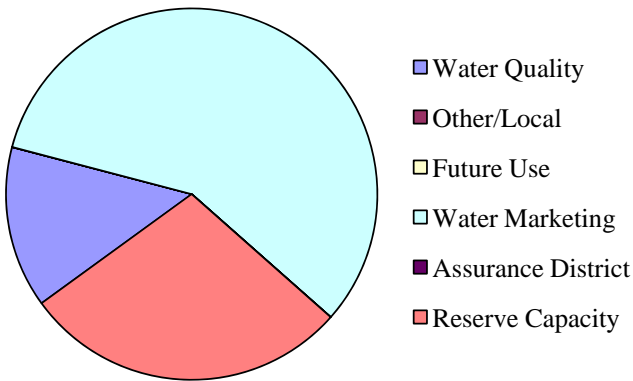


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 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 Nitrogen Fertilizer, LLC	12/3/2039	608,000,000	1,866	608,000,000	1,866
			908,000,000	2,787	908,000,000	2,787

Table 3 - Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
City of Independence	11/9/2016	300,000,000	921

Table 4 - Past Surplus Contracts

Contract Number	Customer Name	Contract Ending Date	Annual Contract Gallons	Annual Contract AF
11-4	Dale Springer	12/31/2011	26,000,000	80
11-5	Independence Country Club	12/31/2011	5,000,000	15

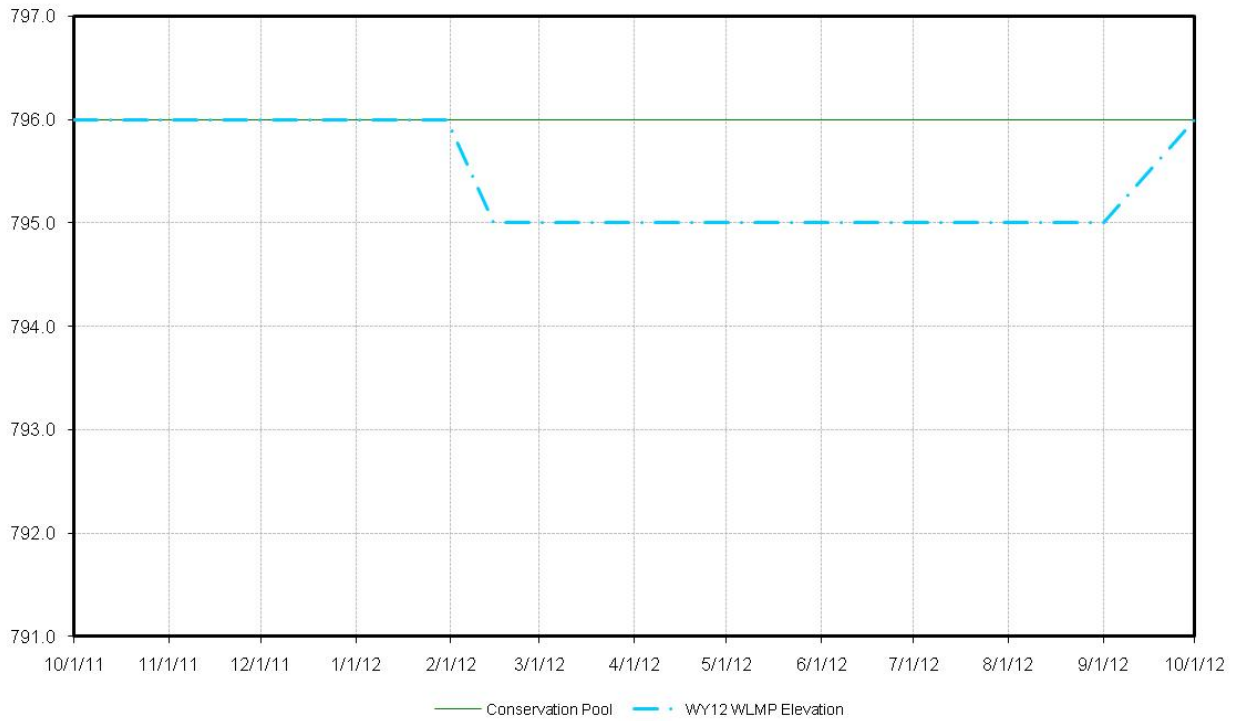
Table 5 - Surplus Yield

mgd	AF/yr	
14.9	16,690	Current Yield
- 2.5	2,787	Marketing Contracts
- 0	0	WAD Storage Yield
- 0	0	Future Use Yield
12.4	13,890	Surplus Yield
1.49	1,669	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Elk City Reservoir, pool level will be lowered in February. The quantity of water in the quality pool is sufficient for the evacuation of storage associated with the change in elevation. The minimum lake level in this plan does not require disposition of surplus water.

Elk City Reservoir
 Conservation Pool = 796.0 Flood Pool = 825.0 5% into FP = 798.5



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%		17,023
Other/Local	0.00%		0
Water Supply	77.94%	15.9	60,143
Future Use	58.46%	11.9	45,111
In Service	19.48%	4.0	15,032
Water Marketing	19.48%	4.0	15,032
Assurance District	0.00%	0	0
Reserve Capacity	0.00%	0	0

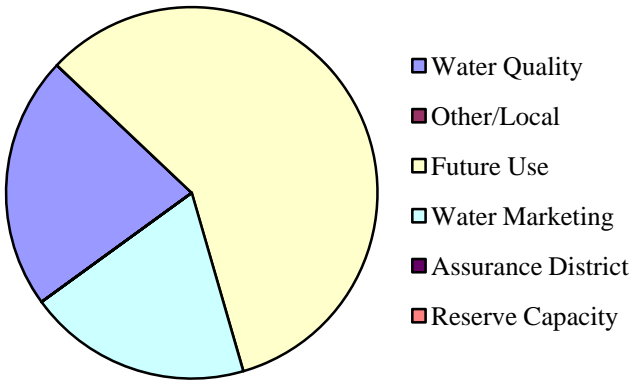


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 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
01-1	Franklin County Rural Water District No. 1	1/18/2031	33,000,000	101	33,000,000	101
96-1	Miami County Rural Water District No. 2	10/24/2036	357,920,000	1,098	470,560,000	1,444
96-2	City of Gardner	10/24/2036	1,028,000,000	3,155	1,155,000,000	3,545
98-4	Johnson County Rural Water District No. 7	1/1/2039	324,000,000	994	434,000,000	1,332
00-3	Miami County Rural Water District No. 1	7/13/2040	10,000,000	31	10,000,000	31
03-5	Miami County Rural Water District No. 3	10/9/2043	15,000,000	46	15,000,000	46
04-1	City of Spring Hill	1/22/2044	330,000,000	1,013	330,000,000	1,013
06-7	City of Edgerton	9/23/2048	50,000,000	153	200,000,000	614
			2,387,360,000	7,326	2,887,000,000	8,861

Table 3 - Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
City of Louisburg	7/26/2012	40,100,000	123
Miami County Rural Water District No. 1	8/25/2013	50,000,000	153
City of Gardner	11/14/2015	1,825,000,000	5,601
City of Wellsville	9/1/2016	100,000,000	307
Miami County Rural Water District No. 4	3/22/2017	50,000,000	153
Douglas County Rural Water District No. 4	7/21/2018	110,000,000	338
Franklin County Rural Water District No. 1	7/30/2018	60,000,000	184
Douglas County Rural Water District No. 4	9/8/2018	70,000,000	215
City of Edgerton	9/22/2018	200,000,000	614
Hillsdale Area Water Cooperative	4/25/2021	5,548,000,000	17,026

Table 4 - Past Surplus Contracts – There are no surplus contracts on file.

Table 5 - Surplus Yield

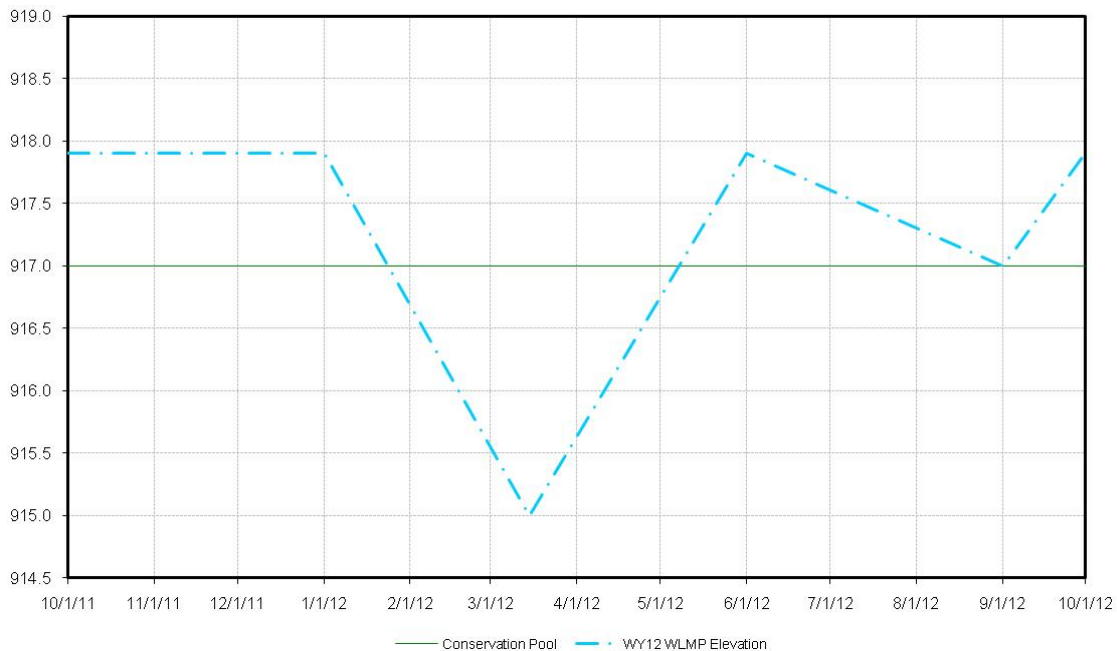
mgd	AF/yr	
15.9	17,810	Current Yield
- 6.5	7,326	Marketing Contracts
- 0	0	WAD Storage Yield
- 11.9	13,330	Future Use Yield
0	0	Surplus Yield
0	0	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Hillsdale Reservoir, pool level will be lowered in January. The quantity of water in the quality and future use pools are sufficient for the evacuation of storage associated with the change in elevation. The minimum lake level in this plan does not require disposition of surplus water.

Hillsdale Reservoir

Conservation Pool = 917.0 Flood Pool = 931.0 5% into FP = 917.9 10% into FP = 918.8



John Redmond Reservoir

Table 1 - Conservation Storage Break Out

Conservation Pool Elevation (ft msl) 1020 - 1039 Flood Pool Elevation (ft msl) 1039 - 1068

	Break Out of Conservation Storage	Current Yield (mgd)	Current Storage (acre feet)
Water Quality	23.82%		11,084
Other/Local	0.00%		0
Water Supply	76.18%	28.0	35,450
Future Use	0.00%	0	0
In Service	76.18%	28.0	35,450
Water Marketing	69.06%	25.4	32,136
Assurance District	7.12%	2.6	3,313
Reserve Capacity	0.00%	0	0

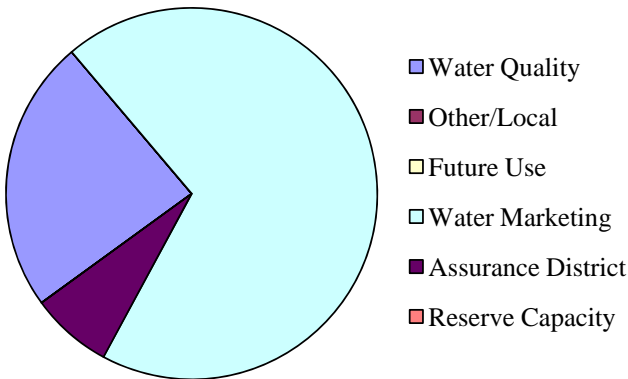


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
76-2	Westar Energy - Wolf Creek Generating Station	12/31/2017	8,249,000,000	25,315	8,249,000,000	25,315
			8,249,000,000	25,315	8,249,000,000	25,315

Table 3 - Pending Applications – There are no pending applications on file.

Table 4 - Past Surplus Contracts

Contract Number	Customer Name	Contract Ending Date	Annual Contract Gallons	Annual Contract AF
09-3	Crandall Ranch, LLC	8/30/2009	4,000,000	12
11-3	Crandall Ranch, LLC	12/31/2011	6,517,020	20
11-6	Corbett Farm Corporation	12/31/2011	17,596,000	54

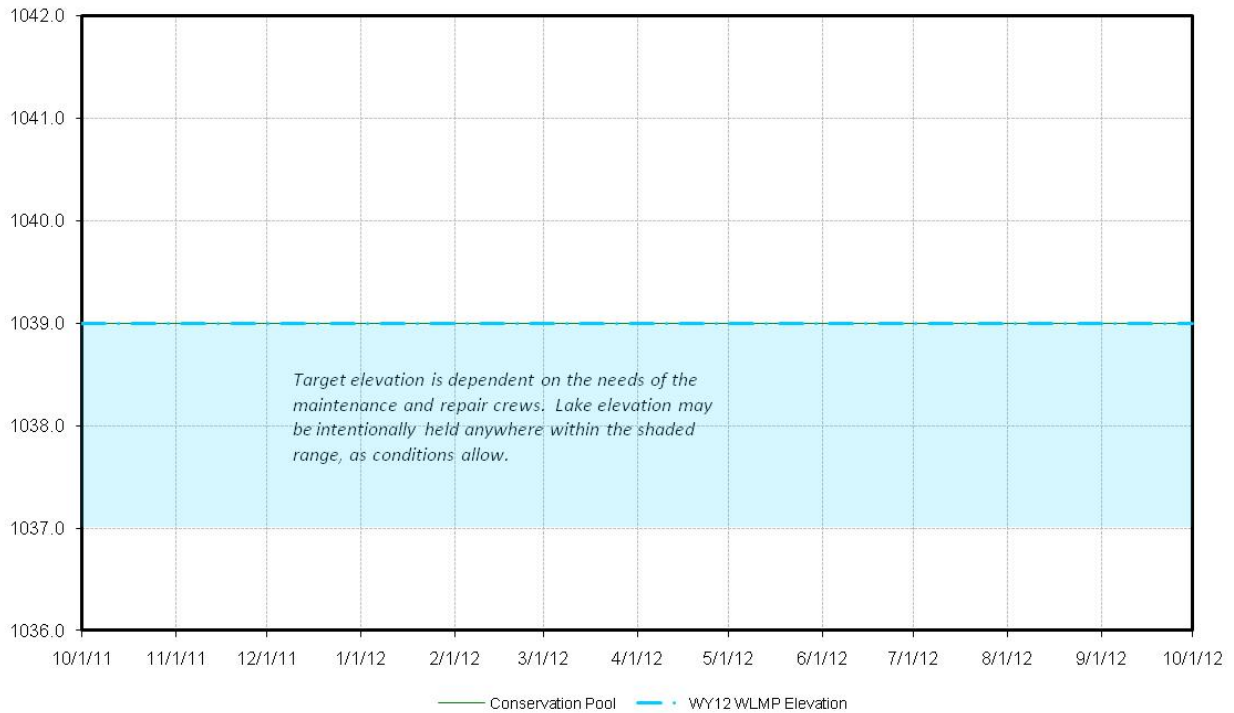
Table 5 - Surplus Yield

mgd	AF/yr	
28.0	31,364	Current Yield
- 22.6	25,315	Marketing Contracts
- 2.6	2,912	WAD Storage Yield
- 0	0	Future Use Yield
2.8	3,137	Surplus Yield
2.80	3,136	Surplus Yield Available

Lake Level Management Consideration

In order to facilitate maintenance and repair of the Tainter gates, pool elevation may be intentionally held as much as two (2) feet below normal conservation pool level. A target elevation of 1039 NGVD will be maintained if the maintenance work is suspended or does not require a lower level. Storage will not be evacuated from the Water Supply pool for lake level management but less total storage will be taken into consideration when evaluating surplus applications. *Note: Operation at an elevation below 1039 NGVD will be contingent on weather conditions. Drought conditions may necessitate a higher than optimal level for maintenance. Less than 200,000 acre feet, cumulative inflow, during the months of March, April, and May will be used as a severe drought indicator.*

John Redmond Reservoir
Conservation Pool = 1039.0 Flood Pool = 1068.0 5% into FP = 1041.0



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%		25,180
Other/Local	0.00%		0
Water Supply	46.60%	8.4	21,973
Future Use	0.00%	0	0
In Service	46.60%	8.4	21,973
Water Marketing	46.60%	8.4	21,973
Assurance District	0.00%	0	0
Reserve Capacity	0.00%	0	0

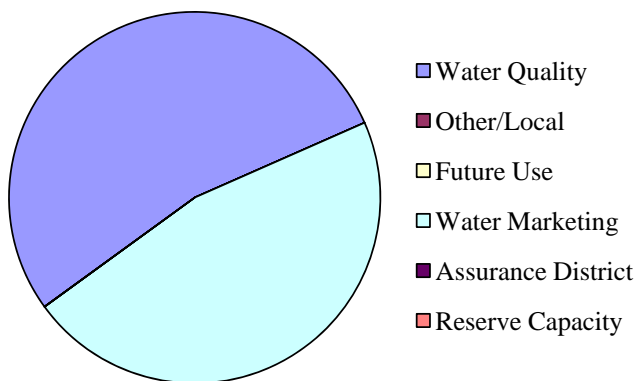


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
01-2	Post Rock Rural Water District	7/12/2041	370,000,000	1,135	400,000,000	1,228
			370,000,000	1,135	400,000,000	1,228

Table 3 - Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
Public Wholesale Water Supply District No. 15	6/17/2012	2,555,000,000	7,841
City of McPherson Board of Public Utilities	4/6/2016	3,650,000,000	11,201
Post Rock Rural Water District	6/22/2016	730,000,000	2,240
City of Russell	6/23/2016	465,000,000	1,427
White Energy Partners	7/14/2016	550,000,000	1,688

Table 4 - Past Surplus Contracts – There are no surplus contracts on file.

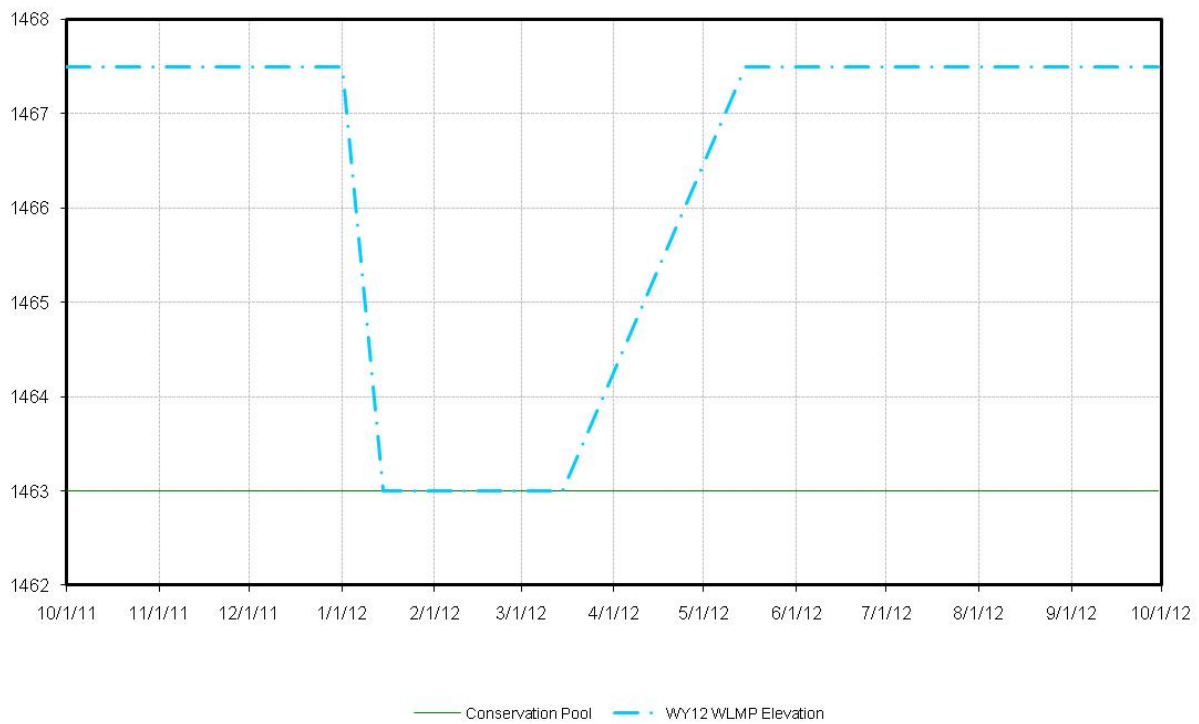
Table 5 - Surplus Yield

mgd	AF/yr	
8.4	9,409	Current Yield
- 1.0	1,135	Marketing Contracts
- 0	0	WAD Storage Yield
- 0	0	Future Use Yield
7.4	8,274	Surplus Yield
0.84	941	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Kanopolis Reservoir, none of the conservation storage will be evacuated during the 2012 Water Year.

Kanopolis Reservoir
 Conservation Pool = 1463.0 Flood Pool = 1508.0 5% into FP = 1467.7



Marion Lake

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%		28,899
Other/Local	0.00%		0
Water Supply	64.12%	5.3	51,644
Future Use	0.00%	0	0
In Service	64.12%	5.3	51,644
Water Marketing	45.77%	3.78	36,865
Assurance District	0.43%	0.04	346
Reserve Capacity	17.92%	1.48	14,433

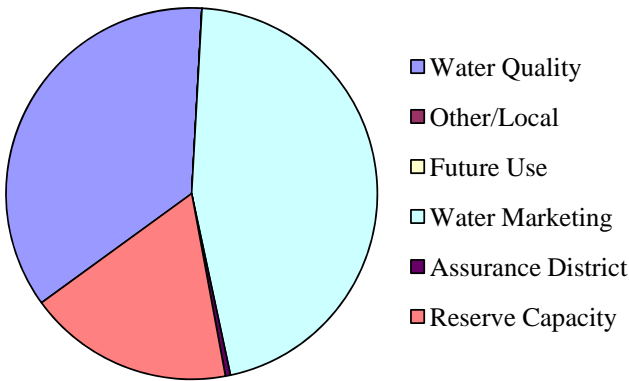


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 Maximum AF	Annual Contract Maximum Gallons	Annual Contract Maximum AF
80-1	City of Hillsboro	12/22/2021	300,000,000	921	300,000,000	921
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
			597,500,000	1,834	597,500,000	1,834

Table 3 - Pending Applications – There are no pending applications on file.

Table 4 – Past Surplus Contracts

Contract Number	Customer Name	Contract Ending Date	Annual Contract Gallons	Annual Contract AF
07-1	Jost Farms	9/30/2007	50,000,000	153
07-2	Jost Farms	9/30/2007	20,000,000	61
08-1	Jost Farms	9/30/2008	45,000,000	138
08-2	Jost Farms	9/30/2008	20,000,000	61
09-01	Jost Farms	11/1/2009	45,000,000	138
09-02	Jost Farms	11/1/2009	25,000,000	77
10-1	Jost Farms	2/9/2011	60,000,000	184
10-2	Jost Farms	2/9/2011	25,000,000	77
11-01	Jost Farms	11/1/2011	60,000,000	184
11-02	Jost Farms	11/1/2011	25,000,000	77

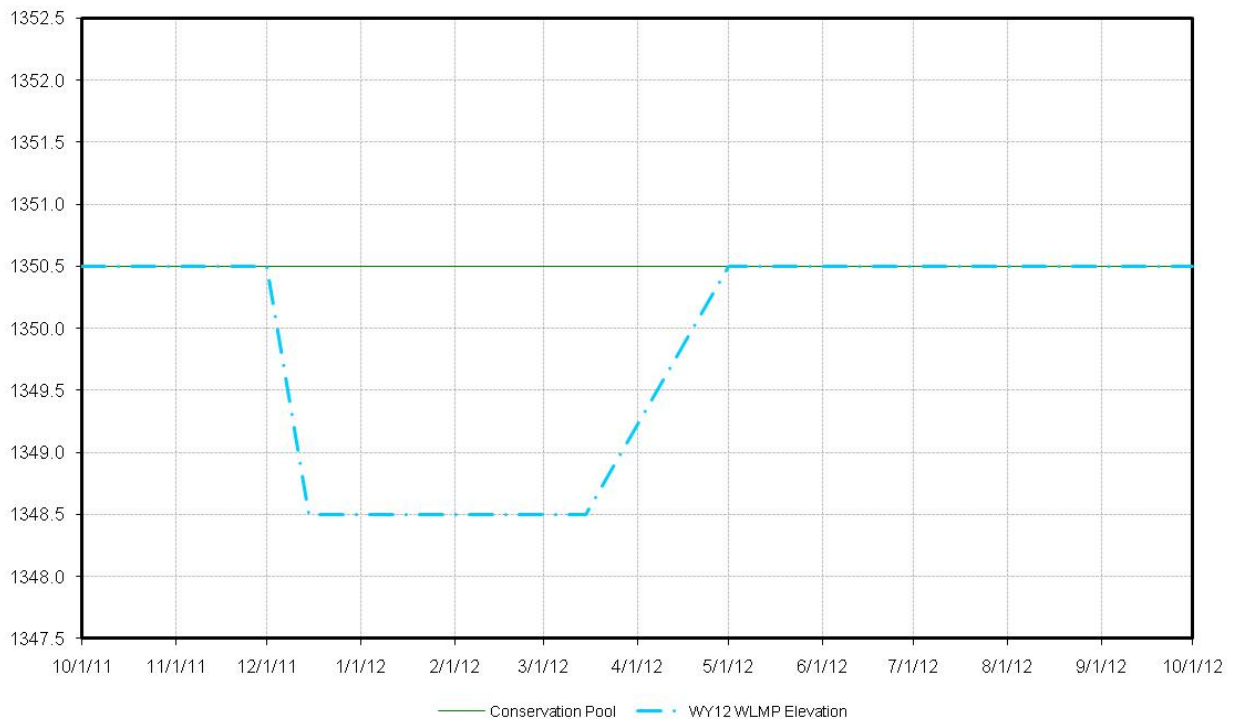
Table 5 - Surplus Yield

mgd	AF/yr	
5.3	5,936	Current Yield
- 1.64	1,834	Marketing Contracts
- 0.04	45	WAD Storage Yield
- 0	0	Future Use Yield
3.62	4,057	Surplus Yield
0.53	594	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Marion Reservoir, pool level will be lowered in December. The quantity of water in the quality pool is sufficient for the evacuation of storage associated with the change in elevation. The minimum lake level in this plan does not require disposition of surplus water.

Marion Reservoir
 Conservation Pool = 1350.5 Flood Pool = 1358.5 5% into FP = 1351



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%		41,661
Other/Local	37.93%		57,274
Water Supply	34.48%	7.6	52,065
Future Use	0.00%	0	0
In Service	34.48%	7.6	52,065
Water Marketing	9.90%	2.2	14,949
Assurance District	7.17%	1.6	10,827
Reserve Capacity	17.41%	3.8	26,289

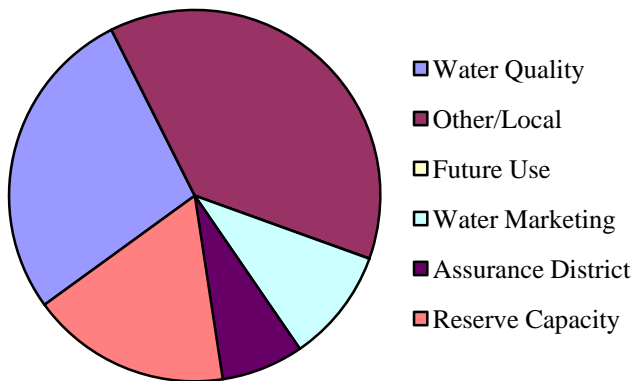


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 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	375,000,000	1,151	547,430,000	1,680
05-6	City of Harveyville	8/11/2045	25,000,000	77	25,000,000	77
			565,000,000	1,734	737,430,000	2,263

Table 3 - Pending Applications

Applicant Name	Application Expiration Date	Requested Quantity Gallons	Requested Quantity AF
Public Wholesale Water Supply District No. 12	3/23/2015	547,500,000	1,680

Table 4 - Past Surplus Contracts

Contract Number	Customer Name	Contract Ending Date	Annual Contract Gallons	Annual Contract AF
	Glen Tyson	12/31/2011	100,000	0.3
	Dennis Criqui	12/31/2011	100,000	0.3

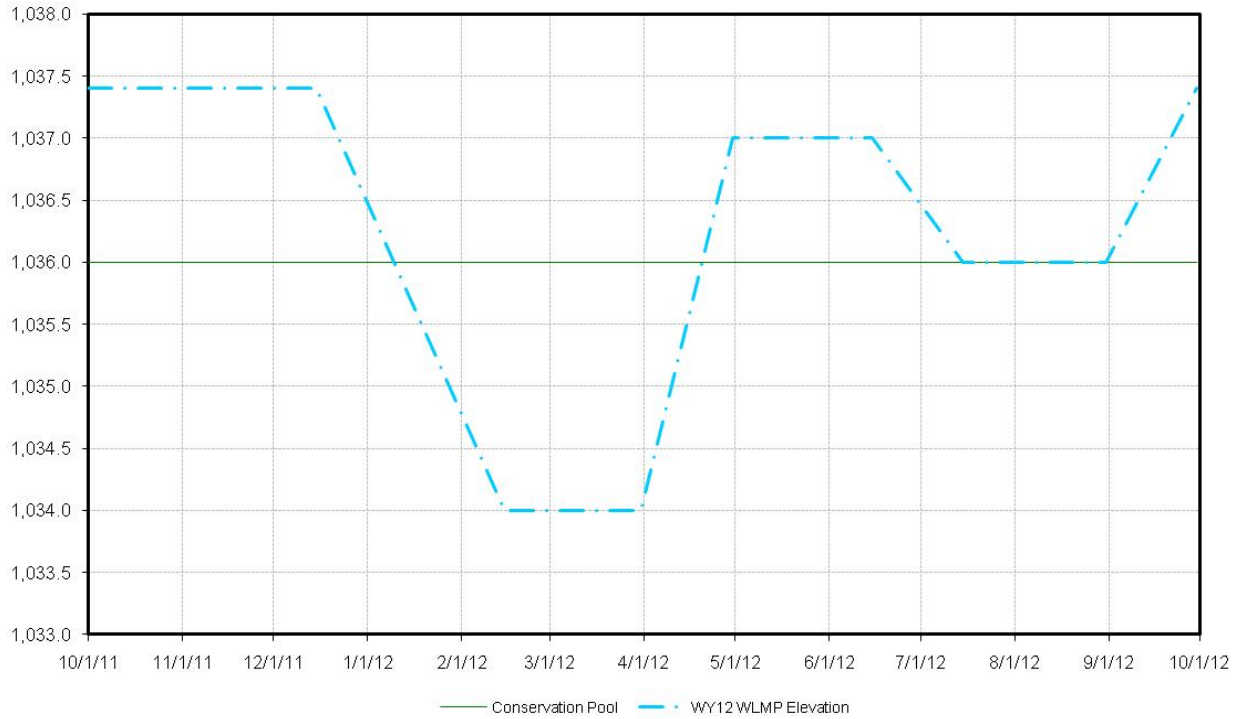
Table 5 - Surplus Yield

mgd	AF/yr	
7.6	8,513	Current Yield
- 1.5	1,734	Marketing Contracts
- 1.6	1,792	WAD Storage Yield
- 0	0	Future Use Yield
4.5	4,987	Surplus Yield
0.76	851	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Melvern Reservoir, pool level will be lowered in December. The quantity of water in the quality and other/local pools (other/local pool is controlled by the U.S. Army Corps of Engineers which is not contracted to any user) are sufficient for the evacuation of storage associated with the change in elevation. The minimum lake level in this plan does not require disposition of surplus water.

Melvorn Reservoir
Conservation Pool = 1036.0 Flood Pool = 1057.0 5% into FP = 1037.4



Milford Lake

Table 1 - Conservation Storage Break Out

Conservation Pool Elevation (ft msl) 1080 – 1144.4 Flood Pool Elevation (ft msl) 1144.4 – 1176.2

	Break Out of Conservation Storage	Current Yield (mgd)	Current Storage (acre feet)
Water Quality	0.00%		0
Other/Local	0.00%		0
Water Supply	100.00%	113	343,592
Future Use	66.12%	75	227,183
In Service	33.88%	38	116,409
Water Marketing	15.55%	17	53,429
Assurance District	18.33%	21	62,980
Reserve Capacity	0.00%	0	0

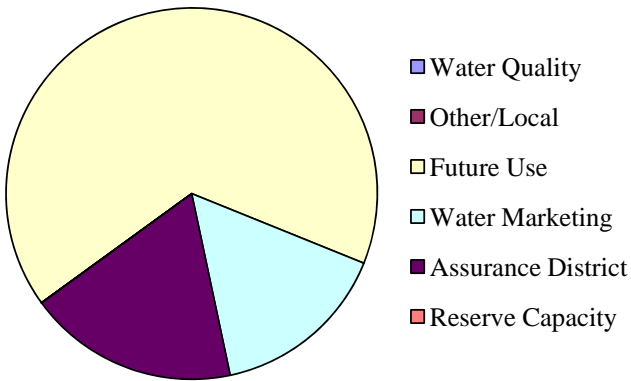


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 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 – There are no pending applications on file.

Table 4 - Past Surplus Contracts – There are no surplus contracts on file.

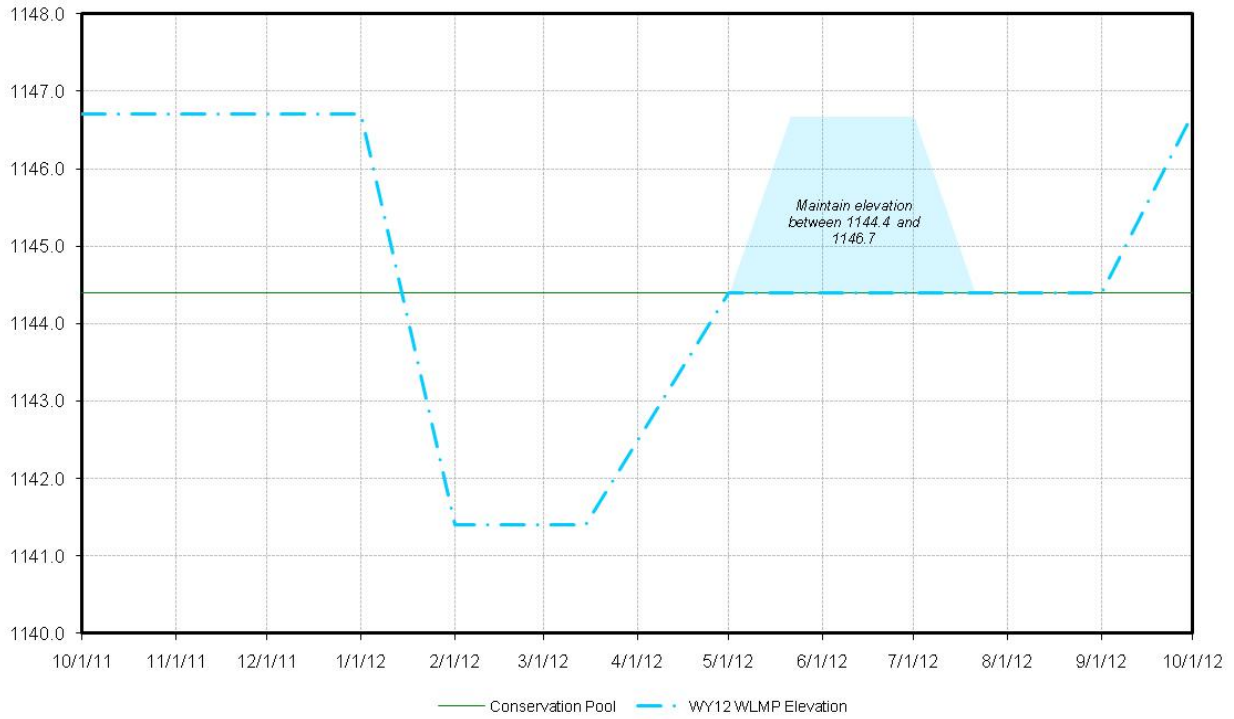
Table 5 - Surplus Yield

mgd	AF/yr	
113	126,576	Current Yield
- 20	22,403	Marketing Contracts
- 21	23,523	WAD Storage Yield
- 75	84,011	Future Use Yield
0	0	Surplus Yield
0	0	Surplus Yield Available

Lake Level Management Consideration

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

Milford Reservoir
Conservation Pool = 1144.4 Flood Pool = 1176.2 5% into FP = 1146.7



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
Other/Local	0.00%		0
Water Supply	100.00%	71.4	194,109
Future Use	83.33%	59.5	161,751
In Service	16.67%	11.9	32,358
Water Marketing	0.00%	0	0
Assurance District	16.67%	11.9	32,358
Reserve Capacity	0.00%	0	0

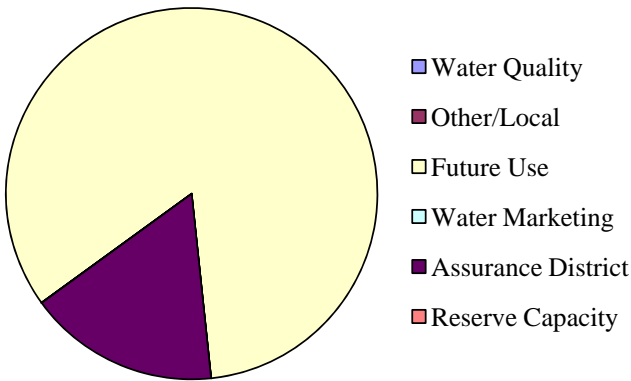


Table 2 - Contracted Quantities – There are no contracted quantities on file.

Table 3 - Pending Applications – There are no pending applications on file.

Table 4 - Past Surplus Contracts – There are no surplus contracts on file.

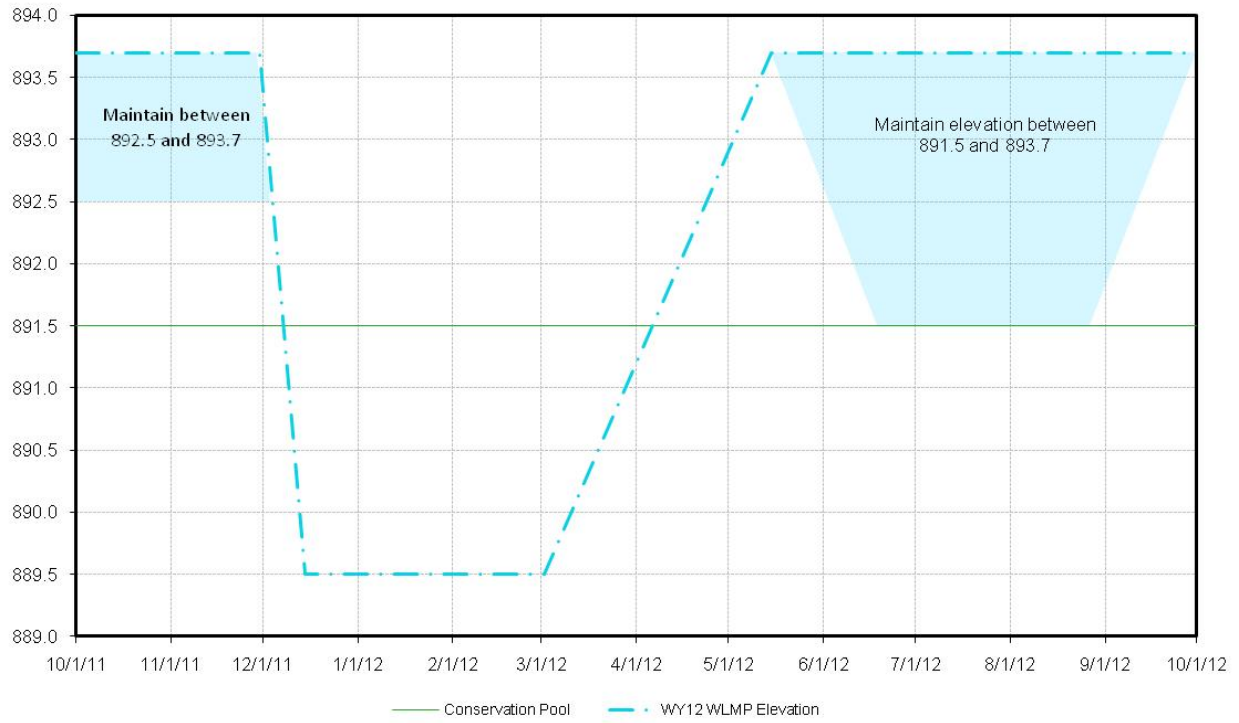
Table 5 - Surplus Yield

mgd	AF/yr	
71.4	79,978	Current Yield
-	0	Marketing Contracts
-	11.9	WAD Storage Yield
-	59.5	Future Use Yield
0	0	Surplus Yield
0	0	Surplus Yield Available

Lake Level Management Consideration

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

Perry Reservoir
 Conservation Pool = 891.5 Flood Pool = 920.6 5% into FP = 893.7



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	25.00%		13,670
Other/Local	1.14%		623
Water Supply	73.86%	8.2	40,387
Future Use	0.00%	0	0
In Service	73.86%	8.2	40,387
Water Marketing	1.52%	0.2	831
Assurance District	23.63%	2.6	12,921
Reserve Capacity	48.71%	5.4	26,635

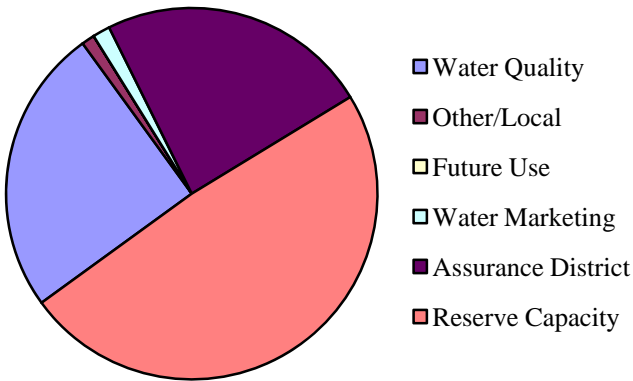


Table 2 - Contracted Quantities

Contract Number	Customer Name	Contract Ending Date	2012 Maximum Gallons	2012 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
Public Wholesale Water Supply District No. 25	9/17/2018	1,095,000,000	3,360

Table 4 - Past Surplus Contracts – There are no surplus contracts on file.

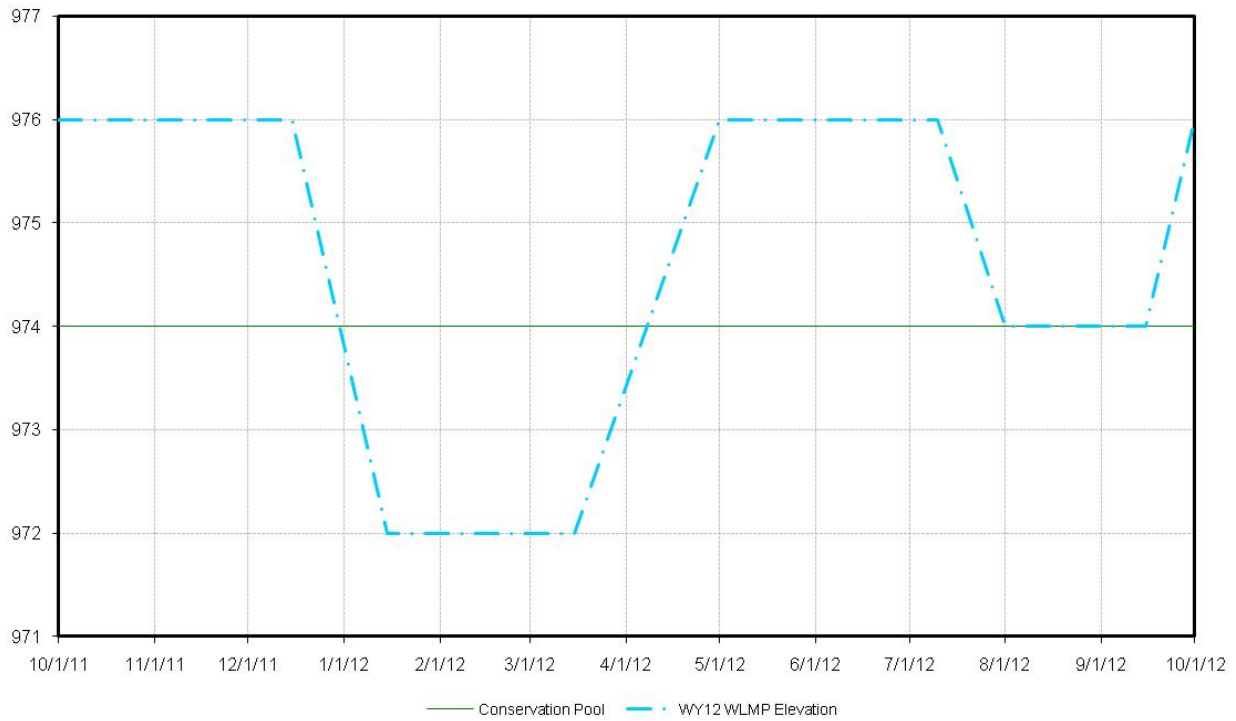
Table 5 - Surplus Yield

mgd	AF/yr	
8.2	9,185	Current Yield
- 0.2	171	Marketing Contracts
- 2.6	2,912	WAD Storage Yield
- 0	0	Future Use Yield
5.4	6,102	Surplus Yield
0.82	919	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Pomona Reservoir, pool level will be lowered in December. The quantity of water in the quality pool is sufficient for the evacuation of storage associated with the change in elevation. The minimum lake level in this plan does not require disposition of surplus water.

Pomona Reservoir
 Conservation Pool = 974.0 Flood Pool = 1003.0 5% into FP = 976.2



Tuttle Creek Lake

Table 1 - Conservation Storage Break Out

	Break Out of Conservation Storage	Current Yield (mgd)	Current Storage (acre feet)
Water Quality	59.02%		138,151
Other/Local	0.00%		0
Water Supply	40.98%	184	95,924
Future Use	0.00%	0	0
In Service	40.98%	184	95,924
Water Marketing	0.00%	0	0
Assurance District	33.89%	152	79,328
Reserve Capacity	7.09%	32	16,596

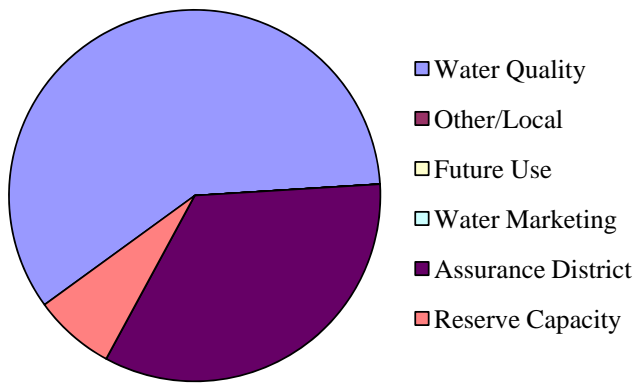


Table 2 - Contracted Quantities – There are no contracted quantities on file.

Table 3 - Pending Applications - There are no pending applications on file.

Table 4 - Past Surplus Contracts – There are no surplus contracts on file.

Table 5 - Surplus Yield

mgd	AF/yr	
184	206,106	Current Yield
-	0	Marketing Contracts
-	152	WAD Storage Yield
-	0	Future Use Yield
32	35,844	Surplus Yield
18.4	20,611	Surplus Yield Available

Lake Level Management Consideration

In accordance with the Lake Level Management Plan for Tuttle Creek Reservoir, pool level will be lowered in December. The quantity of water in the quality pool is sufficient for the evacuation of storage associated with the change in elevation. The minimum lake level in this plan does not require disposition of surplus water.

Tuttle Creek Reservoir
Conservation Pool = 1075.0 Flood Pool = 1136.0 5% into FP = 1080.9

