



# Institute for Water Resources

June 2011

## 2010 M&I Water Supply Database

2011-R-06



US Army Corps  
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# Institute for Water Resources

This report provides data on projects operated and maintained by the U. S. Army Corps of Engineers which contain storage space for municipal and industrial (M&I) water supply. Data are limited to those projects where storage has been authorized and/or is under a repayment through either a storage or surplus water agreement. The data are current as of 31 December 2010 and updates the 2009 data contained in IWR Report 10-R-2 dated January 2010.

These reports are produced by the U.S. Army Engineer Institute for Water Resources, Fort Belvoir, VA.

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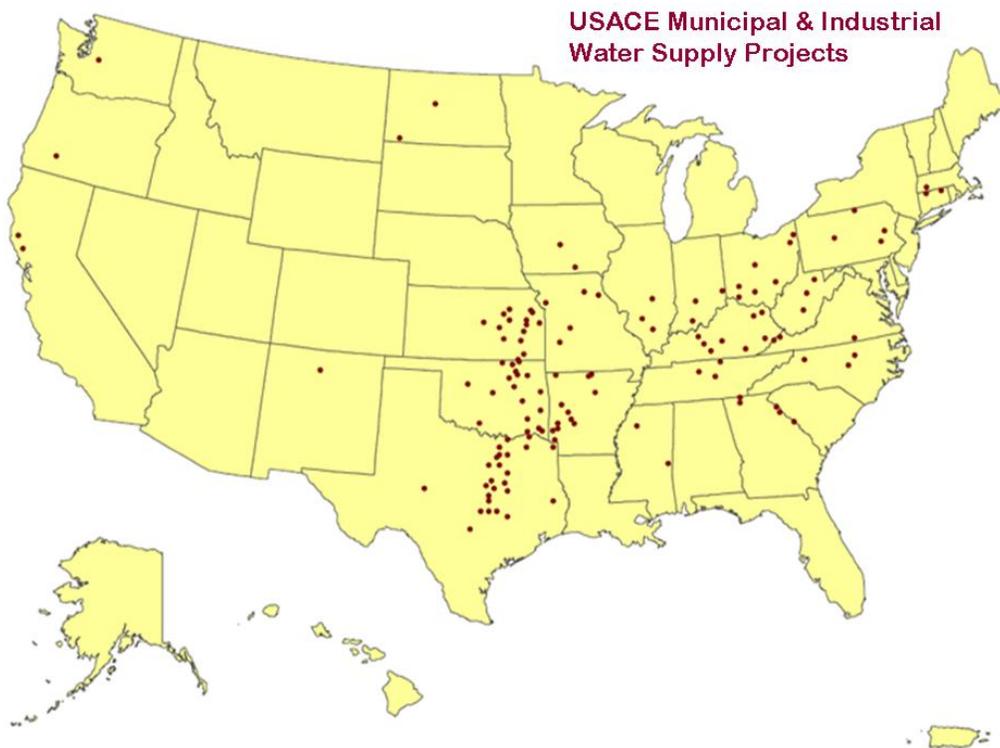
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# ***2010 M&I Water Supply Database***

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**U.S. Army Corps of Engineers  
Institute for Water Resources  
Alexandria, VA 22315**



**Prepared by:  
Theodore M. Hillyer  
National Water Supply Business Program Manager**

**IWR Report 2011-R-06**

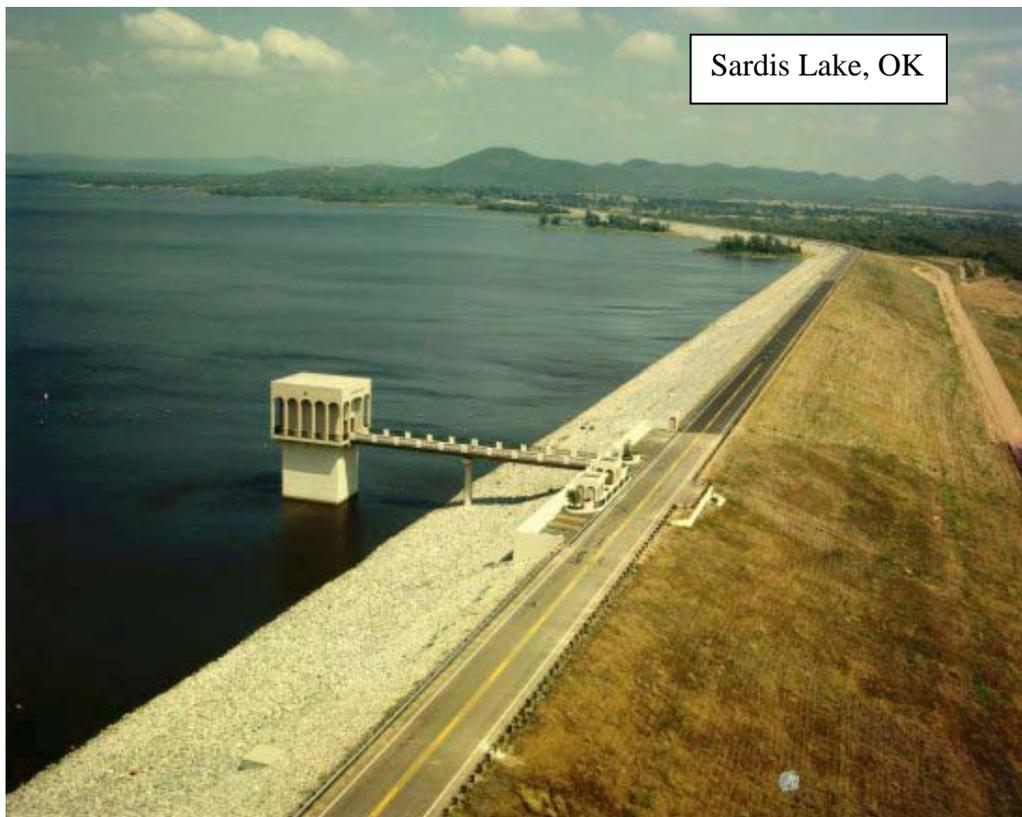
**June 2011**

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**Sardis Lake, Oklahoma**

The Sardis Lake project is operated and maintained by the Tulsa District. The project, construction of which began in August 1975, contains 424,500 acre-feet of storage space, including 297,000 acre-feet of storage space for municipal and industrial water supply. The district has a repayment agreement for this water supply storage space (48% for immediate use and 52% for future use) with the Oklahoma Water Resources Board with an original reimbursable principal amount of \$38.3 million including the cost of a water supply conduit and a water supply inlet structure, plus associated annual operation and maintenance (O&M) expenses.

The agreement was in litigation for a number of years. Based on a September 2009 court order, the State of Oklahoma had to make an immediate payment of \$2.7 million. The State was given the option to (1) pay \$5.3 million over the next five years to make up all the arrearage (remaining debt) or (2) pay all present use arrearage and future use payments (brought back to a present value) in a lump sum payment. The State chose the option to pay the present use storage costs in a lump sum and in September 2010 made the lump sum payment in the amount of \$27.8 million. This sum was comprise of \$8.7 million on principal, \$11.4 million in interest on principal, \$5.2 million in late interest plus \$2.5 million for O&M expenses. To put this in perspective, the \$27.8 million payment is about 80% of what has been collected on the average over the past 8-years from the municipal and industrial water supply program nationwide. The State will continue to pay annual joint-use O&M under terms of the contract each year.



# Preface and Acknowledgement

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## PREFACE

This report provides data on projects operated and maintained by the U. S. Army Corps of Engineers (Corps) which contain storage space for municipal and industrial (M&I) water supply. Data are limited to those projects where storage has been authorized and/or is under a repayment through either a storage or surplus water agreement. The data are current as of 31 December 2010 and updates the 2009 data contained in IWR Report 10-R-2 dated January 2010. The data in this report have been in the process of being developed through the Corps' Operation & Maintenance Business Information Link (OMBIL). Developing the data in the automated OMBIL eliminates the need to update the data through yearly paper data calls. The development of the water supply module has been a difficult process and resulted in several meetings where district and MSC representatives met with the contactor (CDM of Carbondale, IL) and IWR to go over the procedures and actually load the data from water supply agreements. It is anticipated the complete loading of the data into OMBIL will be finalized in FY 2010. The intent of the water supply business line is to issue a water supply database report on an annual basis.

This report provides an update of data contained in the 2009 report collected through OMBIL and, where not loaded, the older 2009 data are used. This report is intended for use by district and division personnel to assist in the management of their M&I water supply program and for Washington level personnel in preparation of yearly progress reports and for responding to requests from the public, Congress and the Administration.

## ACKNOWLEDGEMENT

Many individuals in the Corps' Major Subordinate Commands (MSCs) and districts are to be thanked for their actions in the development of the water supply module of OMBIL. Of particular note are the MSC Water Supply Business Program Managers: William Sutyak (NAD), Terry Stratton (SAD), Ronny Sadri (LRD), Kevin Curran (MVS), Jim Fredericks (NWD), S.T. Su (SPD) and Gloria Pena (SWD). There are many additional division and district individuals who assisted these program managers, many of which I am not even aware. Review in HQUSACE was conducted by John Micik and at IWR by Steve Cones. To these individuals, I want to provide my thanks and appreciation for a job well done.

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## A. BACKGROUND

1. Federal Interest. The national policy of the United States and the role of the U.S. Army Corps of Engineers (Corps) regarding water supply as defined by Congress, has been developed over a number of years beginning with the War Department Civil Appropriations Act of 1938 followed by the 1944 Flood Control Act, the 1958 Water Supply Act and the 1986 Water Resources Development Act (WRDA). This policy recognizes that states and non-Federal entities have the primary responsibility in the development and management of their water supplies including the financial responsibility of providing supplies to users. The Corps may participate in developing water supplies in connection with water resource improvements in the construction, operation, maintenance, and modification of Federal navigation, flood control or multiple purpose projects when certain conditions of non-Federal participation are met.

### 2. Definitions.

a. Municipal and Industrial. The term “municipal and industrial” (M&I), while not defined in legislative history, have been defined by the Corps to mean supply for uses customarily found in the operation of municipal and community water systems and for uses in industrial processes. Industrial processes can include thermal power generation and mining operations. Municipal uses include household, commercial and public supplies. Under the terms of the 1958 Water Supply Act the Corps enters into agreements for water supply storage space. The term “storage” conveys the right to store a resource (water) in a Corps reservoir project. The right to withdraw water from the storage space is a separate water rights issue that is the responsibility of the water user to obtain. Agricultural irrigation is not ordinarily found among customers of a municipal system and, therefore, is not eligible to be included in a project under the M&I authority unless so specifically authorized by Congress.

b. Agricultural. The Reclamation Act of 1902 established irrigation in the West as a national policy. For purposes of Reclamation Law, the West is defined as those 17 contiguous states lying partially or wholly west of the 98th meridian. Section 8 of the 1944 Flood Control Act relates to Corps projects in these states with irrigation features. The law provides that Corps reservoirs may include irrigation as a purpose upon the recommendation of the Secretary of the Interior. Section 8 also provides Interior (in those 17 Western States) with the authority to provide the irrigation works at Corps projects needed to make use of the irrigation storage. It is Interior's responsibility to construct, operate and maintain the additional irrigation works and to contract for the storage space. In areas outside the western states, the Corps is responsible and the policies established by subsection 103(c) (3) of WRDA 1986 are followed for cost and repayment responsibilities.

### 3. Database History.

a. 1996. The M&I water supply database was originally developed and maintained by the Corps on a continual basis as the agreements were approved. The database consisted of the date of contract approval, storage space and costs, and the local sponsor. Data on irrigation storage was first compiled by the Corps in a 1982 survey of the districts. This was a onetime data call and the data were never updated. The first available on line database of both M&I and irrigation

storage is contained in the *Water Supply Handbook*, IWR Report 96-PS-6, dated December 1998 and is based on a 1996 survey. This report can be found at: <http://www.iwr.usace.army.mil/docs/iwrreports/96ps4.pdf>

b. 2004. M&I water supply was established as one of the eight business programs for Corps' budgeting purposes in the fiscal year 2005 budget. In order to manage this business program properly it was necessary to update certain data and develop new data that could be used to assess the performance of the water supply program. By memorandum dated 6 May 2004, the Chief of the Programs, Directorate of Civil Works called for an update of this 1996 data as well as the collection of new data. The data were developed and is presented in IWR Report 05-PS-1 titled "Water Supply Database 2004 Survey." This report can be found at: <http://www.iwr.usace.army.mil/docs/iwrreports/IWRReport05-PS-1.pdf>

c. 2005. The data were again updated in 2005 as a result of a 15 March 2005 memorandum from the Chief of Programs Integration Division, Directorate of Civil Works. The purpose of this memorandum was to get a better understanding of M&I storage space for which costs were not being recovered and directed the districts to initiate a 4-phase water availability initiative. While the focus of this initiative was on storage not yet under contract, by that action, the storage space and costs of storage under contract were reviewed and updated as necessary. This 2005 data was presented in IWR Report 06-PS-1 dated April 2006 and can be found at: <http://www.iwr.usace.army.mil/docs/iwrreports/IWRRpt06-PS-1.pdf>

d. 2009. To eliminate the need for yearly data calls to the MSCs and districts to update the water supply database, in the spring of 2006 efforts were initiated to develop within the Operation and Maintenance Business Information Link (OMBIL), a module for M&I water supply. The OMBIL system uses automated tools to extract information from existing databases that are maintained for specific tracking and reporting purposes. The primary objective of OMBIL is to support results-oriented management within the O&M community. The 2009 database was a combination of data loaded into OMBIL and where not entered, the data from the 2006 report was used. The 2009 M&I Water Supply Database report can be found at: <http://www.iwr.usace.army.mil/docs/iwrreports/10-R-2.pdf>

### B. MUNICIPAL AND INDUSTRIAL WATER SUPPLY 2010 DATABASE

1. General. Of the approximately 380 Corps reservoir projects operated and maintained by the Corps, 135 contain 9.7 million acre-feet of storage space allocated for M&I water supply. A list of these 135 projects by MSC and district with corresponding M&I water supply storage space and yield is provided at **Appendix A**. These projects are located in 22 of the Corps 38 Civil Works districts. A detailed breakout by district, project and agreement is provided as **Appendix B**. In this appendix, for each of the agreements, data are provided on: type, date, yield and interest of the agreement; assigned storage space and cost by present, future, not under contact, total and total for the project; and the remaining principal owed on the storage space.

2. Data Summary by MSC. The national M&I water supply totals, summarized by MSC are shown in **Table 1**. There are no water supply storage projects in the Pacific Ocean Division. This table only includes the data for agreements in force under the 1958 Water Supply Act, as amended and the 1944 Flood Control Act. It does not include projects where incidental benefits occur for water supply because water supply users can withdraw water that is normally available for other purposes without a direct repayment agreement. Such projects include Buford Dam/Lake Lanier, GA, the Central and Southern Flood Control project in Florida, several projects in Kansas, and lock and dam projects where a navigation pool is maintained and non-Federal water supply users have intakes in the pool.

**Table 1: M&I Water Supply Storage Summary by MSC**

MSC	No. of Projects	No. of Agreements	Storage Space (acre-feet)				Investment Cost (\$000)	
			Under Contract Present	Under Contract Future	Not Under Contract	Total	Total Costs Owed	Remaining Balance to be Repaid
NAD	8	8	168,575	0	0	168,575	145,696	37,381
SAD	10	25	206,092	0	0	206,092	35,147	16,389
LRD	28	42	601,541	0	21,600	623,141	75,516	32,334
MVD	8	12	234,909	188,470	22,731	446,110	34,026	11,325
NWD	17	35	528,541	397,430	81,882	1,008,953	139,987	90,709
SPD	3	3	493,900	0	0	493,900	122,161	106,757
SWD	61	201	5,770,528	665,965	288,496	6,724,989	878,593	329,775
<b>Total</b>	<b>135</b>	<b>326</b>	<b>8,004,086</b>	<b>1,251,865</b>	<b>414,709</b>	<b>9,671,126</b>	<b>1,427,945</b>	<b>624,670</b>

The term “Under Contract Present” indicates the sponsor has already repaid the investment cost owed or is in the process of repaying. “Under Contract Future” indicates the sponsor has signed an agreement to repay the costs, but has not yet initiated payments. “Not under Contract” is where a state or local interest gave reasonable assurances that there would be a demand in the future for the water but a repayment contact has not yet been signed. Additional information on the not under contact category is provided in following paragraph 6. Of the total 9.7 million acre-feet of storage, 9.3 million acre-feet is under contract for repayment by non-Federal water supply users in 326 agreements and 0.4 million acre-feet of storage is not yet under contract. Of the 326 agreements, seven are just for water conduits. There are also 58 separate activate future actions where the districts have converted future use storage to present use storage.

3. Comparison of Storage Space to Earlier Data. The comparison of storage volumes between the five data bases (1996, 2004, 2005, 2009 and 2010) are shown in **Table 2**. The changes in

**Table 2: Comparison of Storage Space**

Survey Date	Storage Space (acre-feet)			
	Present Use	Future Use	Not Under Contract	Total
1996	6,335,393	2,410,539	778,699	9,524,631
2004	7,002,679	2,105,660	747,554	9,855,893
2005	7,185,969	2,169,670	404,837	9,760,476
2009	9,523,787	991,027	627,480	11,142,294
2010	8,004,086	1,251,865	414,709	9,671,126

storage volume are due to several factors: reallocation actions, supplementing future use agreements into present use agreements, expiring agreements and the necessity (required by

OMBIL) of district representatives getting back into old agreements and actually loading data into the module rather than relying on paper updates. The increase shown in storage in 2009 was primarily caused by the inclusion of some old agreements that had expired.

4. Investment Cost and Repayment. The total investment cost for the 9.7 million acre-feet of allocated M&I storage is \$1.428 billion. This cost includes the construction cost and the interest during construction. It does not include interest accumulated after the end of the ten-year period or late interest. Of the \$1.431 billion investment cost, 57% has been repaid. Of the remaining \$624.7 million to be repaid by non-Federal water supply users, \$375.4 million is the balance to be repaid under the terms of present use contracts, \$201.8 million for repayment under future use arrangements and \$47.5 million has not yet been placed under contract for repayment.

5. Distribution of M&I Storage Space and Project. From Table 1 it is obvious that Corps projects with M&I water supply storage are centralized in our Southwestern Division. The distribution of the percent of projects and storage space by Corps MSC is shown in **Table 3**. Again it must be recognized that this distribution does not recognize the indirect water withdrawals identified in above paragraph 2 which impacts primarily SAD, LRD and NWD.

**Table 3: Percent Distribution of M&I Water Supply by MSC**

MSC	Percent of M&I Projects (%)	Percent of M&I Storage (%)
NAD	5.9	1.8
SAD	7.4	2.1
LRD	20.7	6.4
MVD	5.9	4.6
NWD	12.6	10.4
SPD	2.2	5.1
SWD	45.3	69.6

6. Not under Contract. Not under contract is M&I storage space included in projects under the original project authority in accordance with the 1958 Water Supply Act prior to its amendment by Section 932 of 1986 WRDA. Some 414,709 acre-feet of storage remains in this not under contract category. This storage is located in 12 projects in five districts and in four MSCs. The total not under contract storage has a corresponding repayment investment cost of \$47.5 million. There is also one project where the conduit is not under contract. These data are shown in **Table 4**. In this table, the total actual repayment by any prospective sponsor can be greater than the investment cost shown as interest after the 10-year interest free period must be included. While not under contract for repayment through M&I water supply agreements, the storage space may be used for other authorized purposes such as hydroelectric power, environmental purposes, recreation, etc.

**Table 4: Storage Not Under Contract**

MSC	District	Project	Storage Space (acre-feet)	Investment Cost (\$)
LRD	LRP	Berlin Lake, OH	19,400	2,249,699
		Stonewall Jackson, WV	2,200	4,300,000
MVD	MVK	DeGray, AR	22,731	562,160
NWD	NWK	Smithville Lake, MO	75,547	10,448,367
	NWP	Lost Creek, OR	6,182	4,168,152
SWD	SWT	Birch Lake, OK	7,630	885,000
		Broken Bow Lake, OK	144,085	3,881,544
		Eufaula Lake, OK	27,707	608,641
		Hugo Lake, OK	2,198	125,990
		Kaw Lake, OK	80,217	18,373,933
		Keystone OK	2,000	203,465
		Pearson Skubitz – Big Hill Lake, KS (conduit)	0	21,244
		Skiatook Lake, OK	24,659	1,472,286
<b>TOTAL</b>		<b>13 Projects</b>	<b>414,709</b>	<b>47,507,481</b>

7. Location of Projects. The 135 Corps multipurpose reservoir projects that contain storage space for M&I water supply are located in 26 states. This distribution by state with the number of projects and storage space is provided in **Table 5**.

**Table 5: Distribution of M&I Water Supply Projects by State**

State	Number of Projects	Storage Space (acre-feet)	State	Number of Projects	Storage Space (acre-feet)
Arkansas	13	584,958	North Carolina	3	120,269
California	2	323,000	North Dakota	2	69,890
Connecticut	1	50,200	New Mexico	1	170,000
Georgia	5	51,608	Ohio	7	190,964
Iowa	2	21,580	Oklahoma	18	1,471,392
Illinois	3	166,406	Oregon	1	10,000
Indiana	3	379,100	Pennsylvania	5	69,790
Kansas	15	1,033,611	Tennessee	3	26,734
Kentucky	9	14,991	Texas	25	5,666,206
Massachusetts	2	10,540	Virginia	3	24,575
Maryland	1	40,995	Washington	1	20,000
Missouri	5	133,733	West Virginia	3	4,908
Mississippi	2	17,600			

These states add to only 25 as there are three projects located on the boundary of Georgia and South Carolina. For these projects the state designation is Georgia. There are an addition five projects that share the states of MD & WV, VA & NC, TN & KY, PA & MD and OK & TX. In these cases, the projects have been assigned to the underline state.

8. Local Sponsors. Corps water supply agreements are with a variety of local sponsors: states (including commonwealths), river basin commissions, counties, cities, industry, private individuals and Indian Tribes. A summary of the M&I storage distribution by local sponsor is provided as **Table 6**. In the table, River Basin Commissions are located in two states,

Pennsylvania and Texas. Utilities and water districts have the most storage space followed closely by cities and then states/commonwealths and then river basin commissions. The order of the number of agreements does not change much except the order of states/commonwealths and river basins switch order and the “county” drops to the lowest number of agreements. The “other” include 13 agreements with private individuals for a total of 75 acre-feet of storage space, combinations of city/county/water districts, Boy Scout camps, Indian Tribes and one agreement with a city; Federal/Interstate Commission; Utility/Water District.

**Table 6: Storage Distribution by Non-Federal Sponsor**

Type of Sponsor	Storage Space (acre-feet)		No. of Agreements	
	Acre-feet	%	Number	%
Utilities / Water Districts	2,749,017	29.7	130	40.0
Cities	2,310,285	25.0	72	21.8
States / Commonwealths	1,778,068	19.2	29	8.8
River Basin Commissions	1,521,678	16.4	37	11.4
County	241,120	2.6	5	1.5
Industries / Corporations	166,860	1.8	25	7.7
Other	488,923	5.3	29	8.8
<b>TOTAL</b>	<b>9,255,951</b>	<b>100.0</b>	<b>326</b>	<b>100.0</b>

9. Reallocations.

a. National Summary by District. As the Corps has not constructing new multipurpose reservoir projects that could include M&I water supply storage for a number of years, an increasing necessity to meet the demands of state and local interests is through reallocations. The national summary of our reallocations, summarized by district is shown in **Table 7**. A detailed summary of reallocations by agreement is provided in **Appendix C**. The appendix provides this detailed breakout by district, date of agreement, source of reallocated storage and method employed to determine the cost. See following paragraph d for a definition of “Agreement Cost.”

**Table 7: Reallocations by District**

MSC	District	Projects (Number)	Agreements (Number)	Years Reallocated (Between)	Storage Space Reallocated (acre feet)	Agreement Cost (\$)
NAD	NAB	2	2	1986 - 1994	30,960	50,753,000
SAD	SAW	1	4	1984 - 2006	21,115	4,806,517
	SAS	3	13	1964 - 2002	31,279	6,761,636
	SAM	2	4	1963 - 1991	20,329	3,837,839
LRD	LRH	4	5	1989 - 2010	9,498	5,097,413
	LRL	4	6	1978 - 2006	4,111	549,599
	LRN	4	14	2003 - 2008	27,253	13,622,653
	LRP	1	1	2010	2,950	2,557,949
MVD	MVK	2	2	1996 - 1998	6,075	1,222,649
NWD	NWK	6	11	1986 - 2002	151,963	18,592,573
SWD	SWL	6	17	1970 - 2010	37,061	4,279,825
	SWF	1	1	1984	91,074	5,793,449
	SWT	7	48	1953 - 2010	372,785	90,963,302
<b>Total</b>	<b>13</b>	<b>43</b>	<b>128</b>	<b>1953 - 2010</b>	<b>806,445</b>	<b>208,838,404</b>

As shown in the table, between 1953 and 2010 we have signed 128 agreements for 806,445 acre-feet of storage space with a repayment value of \$208.8 million. These numbers represent 40% of our agreements, 8% of the storage space and 15% of the investment cost owed.

b. Progression of Reallocations by Decade. While our water supply reallocation activity dates back to the 1950s, it has become more prevalent since the mid-1980s after enactment of WRDA 1986 and the policies that have emanated from that Act. The progression by decade of the number of signed agreements, storage space and assigned costs as a result of reallocations, are shown in **Table 8**. Over the past few years it has become increasingly difficult to perform reallocation studies due to the inability to obtain funding in the budget for these studies. The activity in 2010 was mostly the result of two agreements at Denison Dam, Lake Texoma, OK & TX in the Tulsa District: 100,000 acre-feet to the North Texas Municipal Water District and 50,000 acre-feet to the Greater Texoma Utility Authority. The reallocation at this project was possible because of legislation enacted in WRDA 1986 for the Corps to reallocate 300,000 acre-feet in the project from hydropower to M&I water supply. The 1950s reallocation was the result of specific legislation. Public Law 82-273, approved 14 August 1953 provided for 21,300 acre-feet of storage to be reallocated at the Denison Dam, TX and OK project for water supply for the City of Denison, TX.

**Table 8: Reallocations by Decade**

Decade	No. of Agreements Signed	Storage Space (acre-feet)	Total Agreement Cost to be Repaid (\$)
1950s	1	21,300	292,861
1960s	9	38,078	2,085,417
1970s	11	32,400	2,766,612
1980s	15	229,280	68,086,235
1990s	54	224,325	38,784,924
2000s	33	103,290	33,955,798
2010s	5	157,777	65,866,557
<b>TOTAL</b>	<b>128</b>	<b>806,450</b>	<b>208,838,404</b>

c. Source of Reallocated Storage. Reallocations come from various pools within the reservoir. This breakout by the reallocated purpose and the corresponding storage space and cost to be recovered is shown in **Table 9**. Hydropower has been the most affected by reallocations followed by the flood pool. Most of the water quality reallocations are the result of a Memorandum of Understanding signed between the state of Kansas and the Corps in December 1985.

**Table 9: Source of Reallocated Storage**

Source of Reallocated Storage	No. of Agreements Signed	Storage Space Reallocated	Total Agreement Cost (\$)
Hydropower Pool	50	399,136	112,069,149
Flood Pool	46	94,689	46,675,196
Water Quality Pool	12	179,310	21,110,812
Conservation Pool	12	32,865	17,819,312
Not Available [1]	8	100,450	11,163,935
<b>TOTAL</b>	<b>128</b>	<b>806,450</b>	<b>208,838,404</b>

Footnote: [1] The district record is uncertain as to the source of the reallocated storage.

d. Cost Determination. Various means are employed to determine the cost assigned to the reallocated storage. These differing means have evolved over the years as a result of policy. Original cost was used when the assigned cost was based on the use-of-facilities cost allocation method applied to the original project cost. In 1977 the Corps policy changed to adjusting the repayment cost to the highest of benefits or revenues foregone, replacement cost or the updated cost of storage. There are also several reallocations performed as a result of specific or generic authorization. The summary of these methods used to determine costs is provided in **Table 10**. It is obvious that the updated cost of storage is by far the most prevalent method used to determine the cost of reallocated storage with 62% of the storage space and 85% of the costs are determined in that manner.

**Table 10: Method Used to Determine Cost of Reallocated Storage**

Method Used to Determine Cost	No. of Agreements Signed	Storage Space Reallocated (acre-feet)	Total Agreement Cost (\$)
Original Cost	11	61,703	2,590,751
Benefits Foregone	12	37,476	9,001,668
Revenues Foregone	2	2,907	393,628
Replacement Cost	5	1,234	177,901
Updated Cost of Storage	79	512,364	177,899,488
Kansas MOU	10	173,000	18,389,880
Reduced FC Costs	8	17,260	367,731
Other	1	506	17,357
<b>TOTAL</b>	<b>128</b>	<b>806,450</b>	<b>208,838,404</b>

e. Scope of Reallocation Program. The scope of the reallocations performed compared to the total water supply program is shown in **Table 11**.

**Table 11: Scope of Reallocation Program**

Item	Total Program	Reallocation Program	% Reallocations of Total Program
Projects	135	43	31% [1]
Agreements	326	128	39%
Storage Space (acre-feet)	9,671,126	806,445	8%
Assigned Cost (\$000)	1,427,945	208,838.4	15%

Footnote [1]: Many of our projects contain both originally authorized as well as reallocated storage, but 31% do contain some reallocated storage.

10. Revenues Received Versus Costs of Collection. All revenues received from the sponsors for M&I water supply are deposited into the U.S. Treasury. This requirement dates back to at least Section 6 of the 1944 Flood Control Act (33 U.S.C. § 708) (58 Stat. 890). Revenues are comprised of the repayment of investment costs, all of the various types of interest, and the assigned portion of the yearly operation, maintenance, repair, replacement and rehabilitation (O&M) costs. There are several categories of interest: (1) on principal, (2) charged after the 10-year interest free period (when applicable), (3) additional interest if the above interest “(2)” is capitalized, and (4) interest on late payments. Costs of collection include the manpower required by the districts to determine these costs, bill the sponsor, collect the revenue and return the revenue to the U.S. Treasury. Data obtained from Corps of Engineers Financial Management System is provided in **Table 12**, with one exception. The data for 2010 is from OMBIL. While water supply revenues have been returned to the U.S. Treasury as far back as at least 1944, the tracking of these revenues to water supply was only initiated in fiscal year 2003. The data registered since that time is provided. As would be expected, the yearly collections vary considerable in those years when big payments are made for one reason or another. For example the fiscal year 2010 payments are large due to the payoff of the Sardis project in the Tulsa District as was discussed on page ii.

**Table 12: CEFMS Revenues and Expenditures for Water Supply**

FY	Revenues (\$)				Expenditures (\$)
	Principal	Interest	O&M	Total	
2003	21,081,234	2,501,332	6,859,112	30,441,679	NA
2004	49,132,029	1,541,436	7,183,296	57,856,761	NA
2005	10,552,263	644,612	7,418,572	18,615,447	NA
2006	11,005,571	523,425	7,015,621	18,544,618	NA
2007	12,253,604	582,231	8,990,335	21,826,171	821,632
2008	14,583,874	538,000	6,296,199	21,418,079	1,227,171
2009	14,701,586	519,013	10,990,373	26,210,973	1,054,306
2010	50,108,757	16,869,853	17,873,001	84,851,612	2,849,894
<b>AVG</b>	<b>22,927,365</b>	<b>2,964,988</b>	<b>9,078,313</b>	<b>34,970,668</b>	

11. People Served. The Corps sells storage space and not water. Under normal circumstances a local sponsor will request a certain yield in perhaps million gallons of water per day and then the Corps computes the required acre-feet of storage based on the hydrology and hydraulics of the reservoir and dependability. It has always been a desire to arrive at the number of people Corps projects provide with M&I water. That is impossible because, as noted above, we supply storage to a wide variety of local interests and exactly how these entities parcel out the water cannot be ascertained. A proxy, however, can be developed. It takes nearly 1,200 gallons of water per person per day to meet the total needs of a city including schools, factories, offices and businesses and the many other private and governmental organizations that run a city and make it possible for our daily lives. This differs from what the typical indoor household uses in water per day, which runs from 50 to 85 gallons per person per day, or an average of 67.5 gallons. Based on the various project yields as provided in **Appendix B, Table 13** presents an approximation of total city and indoor household needs that could be met by Corps projects if all storage were utilized. The total storage of about 9.7 million acre-feet will provide a yield of about 6.6 billion gallons of water per day. This yield is theoretically capable of meeting the total city needs of about 5.5 million people or the individual indoor household needs of about 98 million people.

**Table 13: Population Served by Corps M&I Water Supply**

Office	Total M&I Storage Space (acre-feet)	Yield from the Storage Space (MGD)	Population Served	
			Total Requirements	Indoor Household
<b>North Atlantic Division</b>				
New England	60,740	155.10	129,249	2,297,763
Philadelphia	35,880	57.40	47,833	850,370
Baltimore	71,955	240.00	200,000	3,555,555
<b>Total</b>	<b>168,575</b>	<b>452.50</b>	<b>377,082</b>	<b>6,703,688</b>
<b>South Atlantic Division</b>				
Wilmington	141,384	153.28	127,733	2,270,812
Savannah	31,279	65.81	54,842	974,963
Mobile	33,429	48.37	40,308	716,588
<b>Total</b>	<b>206,092</b>	<b>267.46</b>	<b>222,883</b>	<b>3,962,363</b>
<b>Lakes and River Division</b>				
Huntington	95,495	137.67	114,725	2,039,558
Louisville	462,525	397.10	330,917	5,882,963
Nashville	27,253	89.12	74,400	1,322,667
Pittsburgh	37,790	60.50	50,416	896,285
<b>Total</b>	<b>623,141</b>	<b>684.39</b>	<b>579,458</b>	<b>10,141,473</b>
<b>Mississippi Valley Division</b>				
Rock Island	14,900	13.30	11,083	197,031
St. Louis	186,406	127.50	106,254	1,888,955
Vicksburg	244,804	149.40	124,450	2,212,447
<b>Total</b>	<b>446,110</b>	<b>290.2</b>	<b>241,787</b>	<b>4,298,433</b>
<b>Northwestern Division</b>				
Kansas City	908,063	380.20	316,832	5,632,576
Omaha	69,890	20.65	17,208	305,920
Portland	10,000	8.93	7,442	132,296
Seattle	20,000	33.60	28,000	497,778
<b>Total</b>	<b>1,007,953</b>	<b>443.38</b>	<b>369,482</b>	<b>6,568,570</b>
<b>South Pacific Division</b>				
Albuquerque	170,900	NA	NA	NA
San Francisco	323,000	288.41	240,342	4,272,741
<b>Total</b>	<b>493,900</b>	<b>288.41</b>	<b>240,342</b>	<b>4,272,741</b>
<b>Southwestern Division</b>				
Little Rock	344,654	1,548.95	1,290,787	22,946,320
Ft. Worth	4,127,732	1,387.47	1,156,179	20,554,319
Tulsa	2,254,803	1,280.26	1,066,841	18,966,087
<b>Total</b>	<b>6,727,189</b>	<b>4,216.68</b>	<b>3,513,807</b>	<b>62,466,726</b>
<b>National Total</b>	<b>9,672,960</b>	<b>6,603.02</b>	<b>5,540,341</b>	<b>98,413,994</b>

12. Percent of National Needs Met. As shown in Table 13, M&I storage space in Corps projects is capable of providing approximately 6.6 billion gallons of water per day. The United States Geologic Survey estimated total offstream withdrawals of 410 billion gallons per day of water for the year 2005 (<http://water.usgs.gov/watuse/>). Offstream withdrawals occurs when water is

withdrawn or diverted from a ground or surface water source for public water supply, industry, irrigation, livestock, cooling for thermoelectric power generation, mining and domestic purposes. The USGS report subdivides the water use into several categories which can be summarized into three main groupings and are shown in **Table 14**.

**Table 14: USGS Water use Categories**

<b>Public Supplies</b>		<b>Industrial</b>		<b>Agricultural</b>	
Item	Million gallons/day	Item	Million gallons/day	Item	Million gallons/day
<i>Domestic</i>	44,200	<i>Self-supplied Industrial</i>	18,200	Irrigation	128,000
Self-supplied domestic	3,830	<i>Mining</i>	4,020	Livestock watering	2,140
		<i>Thermoelectric</i>	201,000	Aquaculture	8,780
<b>Total</b>	<b>48,030</b>		<b>223,220</b>		<b>138,920</b>
<i>Subtotal M&amp;I</i>	44,200		223,220		0

From the Corps’ definition of M&I water supply as developed in above paragraph A2a, municipal is shown by italics in the above table as Domestic under “Public Supplies” and industrial by the three items identified by italics in the “Industrial” column. Based on these values, the 6,600 million gallons of water per day from Corps reservoirs could provide about 2.5 percent of the total 267,420 million gallons needed for municipal and industrial use.

13. New M&I Projects. Since the passage of the 1986 WRDA there has been three multipurpose projects that have included M&I water supply: the Little Dell project in Salt Lake City, Utah and the Cerrillos and Portugues projects in Puerto Rico. All projects have been or are in the process of being turned over to the local sponsor for operation and maintenance and are not included in this database. There have, however, been a number of reallocations and project modifications. These actions, to the extent reported, are included in the database.

### **C. AGRICULTURAL WATER SUPPLY (2004)**

1. Introduction. Corps lakes in the 17 contiguous Western States in which Reclamation Law applies may include irrigation as a project purpose upon the recommendation of the Secretary of the Interior (Section 8 of Public Law 78-534, the 1944 Flood Control Act). Agricultural water supply is included in Corps reservoir projects in the Western states under repayment agreements between the Bureau of Reclamation and local sponsors. To date, there are no agricultural water supply agreements in Corps reservoir projects in the Eastern states, although “irrigation” can be an authorized project purpose (see following paragraph 3).

2. Irrigation Storage in the West. Data on Corps projects with irrigation storage in the West (and under the repayment principles of the Bureau of Reclamation) was originally compiled by the Corps in a 1982 survey in response to an inquiry from the U.S. Senate. These data were updated

in 1996 and are contained in the *Water Supply Handbook*, IWR Report 96-PS-6, dated December 1998 and then further updated for the 2004 water supply database report (IWR Report 05-PS-1), available on line at: <http://www.iwr.usace.army.mil/docs/iwrreports/IWRReport05-PS-1.pdf>. Appendix J of Report 05-PS-1 provides the irrigation data by project. A summary of this data just by district is provided in below **Table 15**. This information shows there are 48 completed projects that include agricultural water supply in some form. The joint storage, listed as approximately 56 million acre-feet, can normally be used for flood control, navigation, recreation and/or hydroelectric power as well as for irrigation purposes. The total Federal cost allocated to the irrigation purpose, less the reimbursable cost, is listed as about \$1.7 billion. The “Total Federal Cost” in the 4<sup>th</sup> column is less reimbursable costs. These data have not been updated since 2004 and are not a part of the OMBIL process. According to the best available information, there are no storage projects currently under construction in the West with irrigation as a purpose.

**Table 15: Summary of Irrigation Data in the West (2004 Data)**

Division	Number of Projects	Total Project Cost (\$1000)	Total Federal Cost to Irrigation (\$1000)	Storage Reserved for Irrigation	
				Joint (1000AF)	Specific (1000 AF)
<b>Northwestern Division</b>					
Portland	14	1,238,005	528,319	2,020	NA
Walla Walla	7	1,091,072	249,005	90	0
Omaha	6	1,153,870	313,726	47,998	NA
Kansas City	3	80,152	68,647	388	150
<b>Div. Total</b>	<b>30</b>	<b>3,563,099</b>	<b>1,159,697</b>	<b>50,496</b>	<b>NA</b>
<b>Southwestern Division</b>					
Fort Worth	1	18,400	16,300	0	45
Tulsa	1	67,100	25,800	0	19
<b>Div Total</b>	<b>2</b>	<b>85,500</b>	<b>42,100</b>	<b>0</b>	<b>64</b>
<b>Pacific Ocean Division</b>					
Sacramento	11	733,890	411,639	5,230	0
Los Angles	1	14,780	0	0	0
Albuquerque	4	119,400	113,400	260	577
<b>Div. Total</b>	<b>16</b>	<b>868,070</b>	<b>525,039</b>	<b>5,490</b>	<b>577</b>
<b>National Total</b>	<b>48</b>	<b>4,516,669</b>	<b>1,726,836</b>	<b>55,986</b>	<b>NA</b>

3. Irrigation outside of the West. For irrigation purposes, the “West” is defined in Reclamation Law (Public Law 57-161) as those 17 contiguous states lying either partially or wholly west of the 98<sup>th</sup> meridian. This meridian runs through the states of Texas, Oklahoma, Kansas Nebraska, South Dakota and North Dakota. There are no Corps multipurpose reservoirs projects outside the “West” with irrigation storage space. There are, however, two Corps projects east of this area with irrigation as an authorized project purpose.

a. Central and Southern Florida Project. The most noticeable project with irrigation outside the West is the Central and Southern Florida Project. This project was authorized by

Public Law 80-858 (the 1948 Flood control Act) to provide multi-purpose use to include flood control, municipal, industrial and agricultural water supply, prevention of saltwater intrusion, water supply for the Everglades, and protection of fish and wildlife resources. The primary system includes about 1,000 levees and canals, 150 water control structures and 16 major pump stations. Some project elements are operated by the sponsor, the South Florida Water Management District, and some are operated by the Corps. Beneficiaries for flood control and water supply include three cities, sugar cane companies, water drainage districts, Indian reservations, a National Wildlife Refuge, the Everglades National Park and local farmers and ranchers. There are no standard water supply agreements and the project is cost- shared between the Federal Government and the local sponsor through project agreements. Since the original authorization in 1948, as would be expected, this project has evolved. The current Everglades Restoration Plan can be found at: [http://www.evergladesplan.org/facts\\_info/fact\\_sheets.aspx](http://www.evergladesplan.org/facts_info/fact_sheets.aspx)

b. Grand Prairie, Arkansas. Another project in the East with irrigation as a purpose is the Grand Prairie, AR Area Demonstration Project. This project is a comprehensive water management plan designed to protect and preserve the Alluvial and Sparta Aquifers. The project, authorized by Public Law 104-303 (WRDA 1966) also allows the continued irrigation of current agricultural crops and reduces further depletion of groundwater aquifers, while continuing to provide critical benefits for the millions of waterfowl, which annually migrate through the region. The project utilizes excess surface water and water from the White River to supplement a network of on-farm tailwater recovery systems. This supplemental system will be used to fill on-farm reservoirs that store the water, which supplies at least a portion of each farmer's irrigation needs. There are no standard water supply agreements, but the project will be cost-shared between the Federal Government and the local sponsor. Additional information on the project can be obtained at: <http://www.mvm.usace.army.mil/grandprairie/default.asp>

**Appendix A: Total Water Supply Yield and Storage Space by Project**

**Appendix A: Total Water Supply Yield and Storage Space by Project**

MSC	District	Project	Yield (mgd)	Storage Space (acre-feet)	
North Atlantic	New England	Colebrook, CT	116.3	50,200	
		East Brimfield, MA	22.6	1,140	
		Littleville, MA	16.2	9,400	
	Philadelphia	Beltzville, PA	42.0	27,880	
		Blue Marsh, PA	15.4	8,000	
	Baltimore	Cowanesque, PA	70.0	25,600	
		Curwensville, PA	50.0	5,360	
		Jennings Randolph, MD/ WV	120.0	40,995	
	South Atlantic	Wilmington	B. Evert Gordan, NC	100.0	45,800
			Falls Lake, NC	66.7	41,469
John H. Kerr, VA			8.3	21,115	
W. Kerr Scott, NC			45.0	33,000	
Savannah		Hartwell, GA & SC	37.8	26,574	
		J. Strom Thurmond, GA & SC	12.2	3,833	
		Richard B. Russell, GA & SC	15.9	872	
Mobile		Allatoona, GA	21.4	19,511	
		Carters, GA	2.0	818	
		Okatibbee, MS	25.0	13,100	
Lakes & Rivers	Huntington	Alum Creek Lake, OH	106.7	79,200	
		Grayson Lake, KY	7.7	2,508	
		John W. Flannagan, VA	3.0	3,360	
		North Fork of Pound Lake, VA	11.0	100	
		Paint Creek, OH	1.5	1,040	
		Paintsville, KY	6.0	3,129	
		Summersville, WV	2.0	468	
		Tom Jenkins Dam, OH	NA	5,690	
		Louisville	Barren River Lake, KY	18.0	1,050
			Brookville Lake, IN	82.5	89,300
	Caesar Creek Lake, OH		37.0	39,100	
	Carr Creek Lake, KY		2.0	2,052	
	Cave Run Lake, KY		3.0	802	
	Green River Lake, KY		7.5	4,315	
	Monroe Lake IN		130.0	160,000	
	Nolin Lake, KY		1.0	98	
	Patoka Lake, IN		75.0	129,800	
	Rough River Lake, KY		4.1	522	
	Nashville	William H. Harsha Lake, OH	37.0	35,534	
		Center Hill Lake, TN	21.6	7,212	
		Dale Hollow Lake, TN & KY	2.2	2,211	
		J Percy Priest Dam & Reservoir, TN	63.3	17,311	
		Laurel River Lake, KY	2.0	519	
		Pittsburgh	Berlin Lake, OH	34.0	19,400
	Mosquito Creek Lake, OH		16.0	11,000	
	Stonewall Jackson Lake, WV		3.6	2,200	
	Tygart, WV		1.9	2,240	
	Mississippi Valley	Rock Island	Youghiogheny, PA	5.0	2,950
			Saylorville, IA	13.3	14,900
		St. Louis	Carlyle Lake, IL	24.5	32,692
Clarence Cannon Dam, Mark Twain Lake, MO			16.00	20,000	
Lake Shelbyville, IL			17.00	24,714	
Rend Lake, IL			70.0	109,000	

## 2010 Water Supply Database

MSC	District	Project	Yield (mgd)	Storage Space (acre-feet)
MVD (cont.)	Vicksburg (cont.)	Blakey M. Dam, Lake Ouachita, AR	1.0	1,575
		DeGray, AR	137.5	238,729
		Enid, MS	10.9	4,500
Northwestern	Kansas City	Clinton Lake, KS	17.3	89,200
		Harry S. Truman Dam & Res., MO	0.7	283
		Hillsdale, KS	15.2	53,000
		Kanopolis Lake, KS	13.3	12,500
		Long Branch Lake, MO	35.2	18,200
		Melvern Lake, KS	7.2	50,000
		Milford Lake, KS	111.1	300,000
		Perry Lake, KS	74.6	150,000
		Pomona Lake, KS	7.4	33,000
		Rathbun Lake, IA	2.0	6,680
		Smithville Lake, MO	28.8	95,200
		Stockton Lake, MO	30.0	50,000
		Tuttle Creek Lake, KS	57.8	50,000
	Omaha	Bowman Haley, ND	2.0	15,500
		Garrison Dam, Lake Sakakawea, ND	18.8	54,390
	Portland	Lost Creek, OR	8.9	10,000
	Seattle	Howard Hanson, WA	33.6	20,000
South Pacific	Albuquerque	Abiqui, NM	NA	170,000
	San Francisco	Dry Creek, Warm Springs Dam / Lake Sonoma, CA	189.3	212,000
		Coyote Valley Dam / Lake Mendocino, CA	99.1	111,000
Southwestern	Little Rock	Beaver, AR	131.2	128,995
		Blue Mountain Lake, AR	2.0	1,550
		Bull Shoals Lake, AR	3.0	2,578
		Dardanell Lake, AR	1,100.0	0
		DeQueen Lake, AR	22.0	17,885
		Dierks Lake, AR	13.3	10,100
		Gillham Lake, AR	42.0	20,600
		Greers Ferry Lake, AR	8.9	10,403
		Millwood Lake, AR	264.7	150,000
		Nimrod Lake, AR	0.3	143
		Norfork Lake, AR	3.0	2,400
	Ft. Worth	Aquilla Lake, TX	9.7	33,600
		Bardwell Lake, TX	11.2	42,800
		Belton Lake, TX	101.3	360,700
		Benbrook Lake, TX	6.7	72,500
		Canyon Lake, TX	89.9	366,400
		Cooper Dam, Jim Chapman Lake, TX	119.7	273,000
		Ferrell's Bridge Dam, Lake O'The Pines, TX	255.0	250,000
		Granger Dam & Lake, TX	16.2	37,900
		Grapevine Lake, TX	20.7	161,250
		Joe Pool Lake, TX	14.2	142,900
		Lavon Lake, TX	92.0	380,000
		Lewisville Dam, TX	165.0	331,000
		Navarro Mills Lake, TX	15.5	53,200
		N. San Gabriel D&L (Georgetown), TX	10.3	29,200
		O. C. Fisher, TX	3.6	78,793
		Proctor Lake, TX	13.9	31,400
		Ray Roberts Lake, TX	112.5	799,600
		Sam Rayburn Dan & Reservoir, TX	55.6	43,000
		Somerville Lake, TX	36.2	143,900

## Appendix A: Total Water Supply Yield and Storage Space by Project

MSC	District	Project	Yield (mgd) <sup>94.6</sup>	Storage Space (acre-feet)
SWD (cont.)	Ft. Worth (cont.)	Stillhouse Hollow Dam , TX	63.2	204,900
		Waco Lake, TX	94.6	151,626
		Whitney Lake, TX	17.6	50,000
		Wightman Patman Dam & Lake, TX	83.0	90,063
	Tulsa	Arcadia Lake, OK	11.0	23,090
		Birch Lake , OK	3.0	7,630
		Broken Bow, Lake, OK	174.9	152,440
		Canton Lake, OK	4.6	90,000
		Copan Lake, OK	2.0	5,000
		Council Grove Lake, KA	6.7	32,400
		Denison Dam, Lake Texoma, OK & TX	284.7	297,179
		El Dorado Lake, KA	11.0	142,793
		Elk City, KA	12.2	34,300
		Eufaula Lake, OK	48.8	56,000
		Heyburn, OK	1.7	2,000
		Hugh Lake, OK	28.6	47,600
		Hula, OK	12.4	19,800
		John Redmond, KA	55.7	44,900
		Kaw Lake, OK	123.3	171,206
		Keystone Lake, OK	14.5	20,000
		Marion ,KA	9.2	50,800
		Oologah Lake, OK	136.6	342,370
		Pat Mayse Lake, TX	44.0	109,600
		Pearson – Skubitz, Big Hill Lake, KS	8.5	25,700
		Pine Creek, Lake, OK	49.0	28,800
		Sardis Lake, OK	140.0	297,200
		Skiatook Lake, OK	14.5	62,900
		Tenkiller Ferry Alake, OK	24.5	25,472
		Toronto Lake, KS	0.1	400
		Waurika Lake, OK	36.2	151,400
		Wister Lake, OK	19.5	13,819

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**Appendix B: Agreement Data, Storage Space and Costs, and  
Remaining Principal by Agreement**

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**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

North Atlantic Division		NAD WS Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
<b>New England</b>					
Colebrook, CT	Hartford Metro Dist.	Original	1965	116.30	3.137
East Brimfield, MA	American Optical Co.	Original	1962	22.60	2.742
Littleville, MA	City of Springfield	Original	1967	16.20	2.740
		Conduit	1967	0.00	2.740
<b>3 projects</b>	<b>3 agreements</b>			<b>155.10</b>	
<b>Philadelphia</b>					
Beltzville, PA	Delaware RBC	Original	2006	42.00	3.222
		Conduit	2006	0.00	3.222
Blue Marsh, PA	Delaware RBC [1]	Original	1971	15.40	3.502
<b>2 projects</b>	<b>2 agreements</b>			<b>57.40</b>	
<b>Baltimore</b>					
Cowanesque, PA	Susquehanna RBC	Reallocate	1986	70.00	7.690
Curwensville, PA	Susquehanna RBC	Reallocate	1994	50.00	6.125
Jennings Randolph, MD & WV	Dist. of Col. WSSC and Fairfax Co. [2]	Original	1982	120.00	3.253
<b>3 projects</b>	<b>3 agreements</b>			<b>240.00</b>	
<b>Division Summary</b>	<b>8 projects / 8 agreements</b>			<b>452.50</b>	

[1] NAP, Blue Marsh. The 4,000 AF of future water supply, while not in use, the sponsor has chosen to pay P&I. O&M share not yet being repaid.

[2] Storage space, costs and remaining balance assumes all storage in present use.

[4] Remaining Principal owed (as applicable) includes, for the present use storage, interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

North Atlantic Division		NAD WS Storage Space				
Project	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
<b>New England</b>						
Colebrook, CT	Hartford Metro Dist.	50,200	0	0	50,200	50,200
East Brimfield, MA	American Optical Co.	1,140	0	0	1,140	1,140
Littleville, MA	City of Springfield	9,400	0	0	9,400	9,400
		0	0	0	0	0
<b>3 projects</b>	<b>3 agreements</b>	<b>60,740</b>	<b>0</b>	<b>0</b>	<b>60,740</b>	<b>60,740</b>
<b>Philadelphia</b>						
Beltzville, PA	Delaware RBC	27,880	0	0	27,880	27,880
		0	0	0	0	0
Blue Marsh, PA	Delaware RBC [1]	8,000	0	0	8,000	8,000
<b>2 projects</b>	<b>2 agreements</b>	<b>35,880</b>	<b>0</b>	<b>0</b>	<b>35,880</b>	<b>35,880</b>
<b>Baltimore</b>						
Cowanesque, PA	Susquehanna RBC	25,600	0	0	25,600	25,600
Curwensville, PA	Susquehanna RBC	5,360	0	0	5,360	5,360
Jennings Randolph, MD & WV	Dist. of Col. WSSC and Fairfax Co. [2]	40,995	0	0	40,995	40,995
<b>3 projects</b>	<b>3 agreements</b>	<b>71,955</b>	<b>0</b>	<b>0</b>	<b>71,955</b>	<b>71,955</b>
<b>Division Summary</b>	<b>8 projects / 8 agreements</b>	<b>168,575</b>	<b>0</b>	<b>0</b>	<b>168,575</b>	<b>168,575</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

North Atlantic Division		NAD WS Storage Cost				
Project	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
<b>New England</b>						
Colebrook, CT	Hartford Metro Dist.	5,587,085	0	0	5,587,085	5,587,085
East Brimfield, MA	American Optical Co.	24,500	0	0	24,500	24,500
Littleville, MA	City of Springfield	2,171,160	0	0	2,171,160	
		31,000	0	0	31,000	2,202,160
<b>3 projects</b>	<b>3 agreements</b>	<b>7,813,745</b>	<b>0</b>	<b>0</b>	<b>7,813,745</b>	<b>7,813,745</b>
<b>Philadelphia</b>						
Beltzville, PA	Delaware RBC	6,457,800	0	0	6,457,800	
		130,200	0	0	130,200	6,588,000
Blue Marsh, PA	Delaware RBC [1]	15,003,516	0	0	15,003,516	15,003,516
<b>2 projects</b>	<b>2 agreements</b>	<b>21,591,516</b>	<b>0</b>	<b>0</b>	<b>21,591,516</b>	<b>21,591,516</b>
<b>Baltimore</b>						
Cowanesque, PA	Susquehanna RBC	39,414,000	0	0	39,414,000	39,414,000
Curwensville, PA	Susquehanna RBC	11,339,000	0	0	11,339,000	11,339,000
Jennings Randolph, MD & WV	Dist. of Col. WSSC and Fairfax Co. [2]	65,538,120	0	0	65,538,120	65,538,120
<b>3 projects</b>	<b>3 agreements</b>	<b>116,291,120</b>	<b>0</b>	<b>0</b>	<b>116,291,120</b>	<b>116,291,120</b>
<b>Division Summary</b>	<b>8 projects / 8 agreements</b>	<b>145,696,381</b>	<b>0</b>	<b>0</b>	<b>145,696,381</b>	<b>145,696,381</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

North Atlantic Division		NAD Remaining Principal Owed [3]			
Project	User	Amount Owed (\$)			
		Present	Future	Total	District / MSC Percent
<b>New England</b>					
Colebrook, CT	Hartford Metro Dist.	2,214,142	0	2,214,142	
East Brimfield, MA	American Optical Co.	3,178	0	3,178	
Littleville, MA	City of Springfield	0	0	0	
		103,195	0	103,195	
<b>3 projects</b>	<b>3 agreements</b>	<b>2,320,515</b>	<b>0</b>	<b>2,320,515</b>	<b>30%</b>
<b>Philadelphia</b>					
Beltzville, PA	Delaware RBC				
		3,354,521	0	3,354,521	
Blue Marsh, PA	Delaware RBC [1]	5,658,448	0	5,658,448	
<b>2 projects</b>	<b>2 agreements</b>	<b>9,012,969</b>	<b>0</b>	<b>9,012,969</b>	<b>42%</b>
<b>Baltimore</b>					
Cowanesque, PA	Susquehanna RBC	0	0	0	
Curwensville, PA	Susquehanna RBC	0	0	0	
Jennings Randolph, MD & WV	Dist. of Col. WSSC and Fairfax Co. [2]	26,046,588	0	26,046,588	
<b>3 projects</b>	<b>3 agreements</b>	<b>26,046,588</b>	<b>0</b>	<b>26,046,588</b>	<b>22%</b>
<b>Division Summary</b>	<b>8 projects / 8 agreements</b>	<b>37,380,072</b>	<b>0</b>	<b>37,380,072</b>	<b>26%</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

South Atlantic Division		SAD Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
<b>Wilmington</b>					
B. Everett Jordan, NC	State of NC	Original	1988	100	3.225
Falls Lake, NC	City of Raleigh	Original	1972	66.7	3.649
John H. Kerr, VA	Mecklenburg Cogeneration	Reallocated	1991	0.23	Prepaid
	VA Dep of Corr.	Reallocated	1989	0.08	Prepaid
	City of Henderson	Reallocated	2006	4.01	4.625
	Virginian Beach	Reallocated	1984	3.98	Prepaid
W. Kerr Scott, NC	County of Wilkes & City of Winston-Salem	Original	1960	44.98	2.699
<b>4 projects</b>	<b>7 agreements</b>			<b>153.28</b>	
<b>Savannah</b>					
Hartwell, GA & SC	Anderson Co. Joint Municipal Water System (mod)	Reallocated	2002	35.02	6.130
	City of Lavonia	Reallocated	1990	0.18	
	Hart County	Reallocated	1998	2.6	
J Strom Thurmond, GA & SC	City of Washington	Reallocated	1975	2	6.130
	Town of McCormick	Reallocated	1999	1.6	
	City of Lincolnton	Reallocated	1990	0.26	
	City of Thompson	Reallocated	1990	3.35	
	Town of McCormick	Reallocated	2001	1	
	Savannah Valley Auth.	Reallocated	1989	0.3	
	Columbia County	Reallocated	1989	3.35	
	City of Lincolnton	Reallocated	1964	0.29	
Richard B Russell, GA & SC	SC Public Service Auth.	Reallocated	2001	8.93	6.130
	City of Elberton	Reallocated	1990	6.93	
<b>3 projects</b>	<b>13 agreements</b>			<b>65.81</b>	
<b>Mobile</b>					
Allatoona, GA	Cobb Co. - Marietta Water Auth.	Reallocated	1963	4.61	2.500
	City of Cartersville	Reallocated	1966	5.26	2.500
	City of Cartersville	Reallocated	1991	11.5	8.125
Carters, GA	City of Chatsworth	Reallocated	1991	2.00	9.125
Okatibbee, MS	Pat Harrison WS Dist.	Original	1965	25.00	3.137
<b>3 projects</b>	<b>5 agreements</b>			<b>48.37</b>	
<b>Division Summary</b>	<b>10 projects / 25 agreements</b>			<b>267.46</b>	

[1] Remaining Principal owed (as applicable) includes, for the present use storage, interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

South Atlantic Division		SAD WS Storage Space				
Project	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Agreement Storage Space (acre-feet)	
<b>Wilmington</b>						
B. Everett Jordan, NC	State of NC	45,800	0	0	45,800	45,800
Falls Lake, NC	City of Raleigh	41,469	0	0	41,469	41,469
John H. Kerr, VA	Mecklenburg Cogeneration	600	0	0	600	
	VA Dep of Corr.	23	0	0	23	
	City of Henderson	10,292	0	0	10,292	
	Virginian Beach	10,200	0	0	10,200	21,115
W. Kerr Scott, NC	County of Wilkes & City of Winston-Salem	33,000	0	0	33,000	33,000
<b>4 projects</b>	<b>7 agreements</b>	<b>141,384</b>	<b>0</b>	<b>0</b>	<b>141,384</b>	<b>141,384</b>
<b>Savannah</b>						
Hartwell, GA & SC	Anderson Co. Joint Municipal Water System (mod)	24,620	0	0	24,620	
	City of Lavonia	127	0	0	127	
	Hart County	1,827	0	0	1,827	26,574
J Strom Thurmond, GA & SC	City of Washington	632	0	0	632	
	Town of McCormick	506	0	0	506	
	City of Lincolnton	83	0	0	83	
	City of Thompson	1,056	0	0	1,056	
	Town of McCormick	316	0	0	316	
	Savannah Valley Auth.	92	0	0	92	
	Columbia County	1,056	0	0	1,056	
	City of Lincolnton	92	0	0	92	3,833
Richard B Russell, GA & SC	SC Public Service Auth.	491	0	0	491	
	City of Elberton	381	0	0	381	872
<b>3 projects</b>	<b>13 agreements</b>	<b>31,279</b>	<b>0</b>	<b>0</b>	<b>31,279</b>	<b>31,279</b>
<b>Mobile</b>						
Allatoona, GA	Cobb Co. - Marietta Water Auth.	13,140	0	0	13,140	
	City of Cartersville	1,996	0	0	1,996	
	City of Cartersville	4,375	0	0	4,375	19,511
Carters, GA	City of Chatsworth	818	0	0	818	818
Okatibbee, MS	Pat Harrison WS Dist.	13,100	0	0	13,100	13,100
<b>3 projects</b>	<b>5 agreements</b>	<b>33,429</b>	<b>0</b>	<b>0</b>	<b>33,429</b>	<b>33,429</b>
<b>Division Summary</b>	<b>10 projects / 25 agreements</b>	<b>206,092</b>	<b>0</b>	<b>0</b>	<b>206,092</b>	<b>206,092</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

South Atlantic Division		SAD WS Storage Cost				
Project	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
<b>Wilmington</b>						
B. Everett Jordan, NC	State of NC	4,388,000	0	0	4,388,000	4,388,000
Falls Lake, NC	City of Raleigh	12,170,000	0	0	12,170,000	12,170,000
John H. Kerr, VA	Mecklenburg Cogeneration	150,241	0	0	150,241	
	VA Dep of Corr.	5,075	0	0	5,075	
	City of Henderson	2,375,336	0	0	2,375,336	
	Virginian Beach	2,275,685	0	0	2,275,685	4,806,337
W. Kerr Scott, NC	County of Wilkes & City of Winston-Salem	1,890,838	0	0	1,890,838	1,890,838
<b>4 projects</b>	<b>7 agreements</b>	<b>23,255,175</b>	<b>0</b>	<b>0</b>	<b>23,255,175</b>	<b>23,255,175</b>
<b>Savannah</b>						
Hartwell, GA & SC	Anderson Co. Joint Municipal Water System (mod)	3,477,000	0	0	3,477,000	
	City of Lavonia	21,447	0	0	21,447	
	Hart County	356,867	0	0	356,867	3,855,314
J Strom Thurmond, GA & SC	City of Washington	72,800	0	0	72,800	
	Town of McCormick	17,357	0	0	17,357	
	City of Lincolnton	24,608	0	0	24,608	
	City of Thompson	334,714	0	0	334,714	
	Town of McCormick	66,499	0	0	66,499	
	Savannah Valley Auth.	27,395	0	0	27,395	
	Columbia County	313,048	0	0	313,048	
	City of Lincolnton	15,000	0	0	15,000	871,421
Richard B Russell, GA & SC	SC Public Service Auth.	1,615,243	0	0	1,615,243	
	City of Elberton	419,658	0	0	419,658	2,034,901
<b>3 projects</b>	<b>13 agreements</b>	<b>6,761,636</b>	<b>0</b>	<b>0</b>	<b>6,761,636</b>	<b>6,761,636</b>
<b>Mobile</b>						
Allatoona, GA	Cobb Co. - Marietta Water Auth.	1,168,449	0	0	1,168,449	
	City of Cartersville	396,218	0	0	396,218	
	City of Cartersville	1,655,723	0	0	1,655,723	
Carters, GA	City of Chatsworth	617,449	0	0	617,449	3,837,839
Okatibbee, MS	Pat Harrison WS Dist.	1,292,301	0	0	1,292,301	1,292,301
<b>3 projects</b>	<b>5 agreements</b>	<b>5,130,140</b>	<b>0</b>	<b>0</b>	<b>5,130,140</b>	<b>5,130,140</b>
<b>Division Summary</b>	<b>10 projects / 25 agreements</b>	<b>35,146,951</b>	<b>0</b>	<b>0</b>	<b>35,146,951</b>	<b>35,146,951</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

South Atlantic Division		SAD Remaining Principal Owed [1]			
Project	User	Amount Owed (\$)			
		Present	Future	Total	District / MSC Percent
<b>Wilmington</b>					
B. Everett Jordan, NC	State of NC	2,381,554	0	2,381,554	
Falls Lake, NC	City of Raleigh	9,714,406	0	9,714,406	
John H. Kerr, VA	Mecklenburg Cogeneration	0	0	0	
	VA Dep of Corr.	0	0	0	
	City of Henderson	1,970,810	0	1,970,810	
	Virginian Beach	0	0	0	
W. Kerr Scott, NC	County of Wilkes & City of Winston-Salem	276,790	0	276,790	
<b>4 projects</b>	<b>7 agreements</b>	<b>14,343,560</b>	<b>0</b>	<b>14,343,560</b>	<b>62%</b>
<b>Savannah</b>					
Hartwell, GA & SC	Anderson Co. Joint Municipal Water System (mod)	144,400	0	144,400	
	City of Lavonia	0	0	0	
	Hart County	0	0	0	
J Strom Thurmond, GA & SC	City of Washington	0	0	0	
	Town of McCormick	0	0	0	
	City of Lincolnton	12,615	0	12,615	
	City of Thompson	0	0	0	
	Town of McCormick	0	0	0	
	Savannah Valley Auth.	0	0	0	
	Columbia County	0	0	0	
	City of Lincolnton	1,800	0	1,800	
Richard B Russell, GA & SC	SC Public Service Auth.	0	0	0	
	City of Elberton	0	0	0	
<b>3 projects</b>	<b>13 agreements</b>	<b>158,815</b>	<b>0</b>	<b>158,815</b>	<b>2%</b>
<b>Mobile</b>					
Allatoona, GA	Cobb Co. - Marietta Water Auth.	469,505	0	469,505	
	City of Cartersville	158,436	0	158,436	
	City of Cartersville	1,030,513	0	1,030,513	
Carters, GA	City of Chatsworth	0	0	0	
Okatibbee, MS	Pat Harrison WS Dist.	227,967	0	227,967	
<b>3 projects</b>	<b>5 agreements</b>	<b>1,886,421</b>	<b>0</b>	<b>1,886,421</b>	<b>37%</b>
<b>Division Summary</b>	<b>10 projects / 25 agreements</b>	<b>16,388,796</b>	<b>0</b>	<b>16,388,796</b>	<b>47%</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principa; by Agreement

Lakes and Rivers Division		LRD WS Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
<b>Huntington</b>					
Alum Creek Lake, OH	State of OH (1968)	Original	1968	106.670	3.256
Grayson Lake, KY	Rattlesnake Ridge	Reallocation	1989	1.500	10.250
	Rattlesnake Ridge	Reallocation	2000	6.000	6.625
John W. Flannagan, VA	John Flannagan Water Auth.	Reallocation	2004	3.000	5.656
North Fork of Pound River Lake, VA	City of Pound	Original	1988	11.000	3.222
Paint Creek Lake, OH	Highland Co.	Original	1967	1.500	?
Paintsville Lake, KY	Paintsville Utilities	Reallocated	2010	6.000	4.125
Summersville Lake, WV	City of Summerville	Reallocation	2001	2.000	3.222
Tom Jenkins Dam, OH	State of OH	Original	1955	Not Avail.	5.875
<b>8 projects</b>	<b>9 agreements</b>			<b>137.670</b>	
<b>Louisville</b>					
Barren River Lake, KY	City of Glasgow	Original	2009	12.000	2.632
	City of Scottsville	Original	1969	6.000	2.632
Brookville Lake, IN	State of IN	Original	1965	82.500	3.137
Caesar Creek Lake, OH	State of OH	Original	1970	37.000	3.253
Carr Creek Lake,	Carr Creek Water Comm.	Reallocated	2006	2.000	4.625
Cave Run Lake, KY	Cave Run Water Comm.	Reallocated	2003	2.000	5.125
	City of West Liberty	Reallocated	1996	1.000	4.625
Green River Lake, KY	City of Campbellsville	Original	1968	6.500	2.936
	City of Columbia	Reallocated	1992	1.000	8.125
Monroe Lake, IN	State of Indiana	Original	1960	130.000	2.670
Nolin Lake, KY	Edmonson Co. Water Dist.	Original	1988	1.000	9.250
Patoka Lake, IN	State of Indiana	Original	1970	75.000	3.256
Rough River Lake, KY	City of Leitchfield	Original	1966	1.600	2.584
	City of Hardinsburg	Reallocated	1978	1.000	6.595
	Grayson County WD	Reallocated	2002	1.500	4.625
William H. Harsha Lake, OH	State of OH	Original	1970	37.000	3.253
<b>11 projects</b>	<b>16 agreements</b>			<b>397.100</b>	
<b>Nashville</b>					
Center Hill Lake, TN	City of Cookeville	Reallocated	2003	20.030	5.125
	City of Smithville	Reallocated	2003	1.200	5.125
	Riverwatch Golf	Reallocated	2003	0.390	5.125
Dale Hollow Lake, TN & KY	City of Byrdstown	Reallocated	2005	1.800	5.125
	Commonwealth of KY	Reallocated	2005	0.360	5.125
	Trooper Island Camp	Reallocated	2004	0.002	Paid up front
J. Percy Priest Dam & Reservoir, TN	City of LaVergne	Reallocated	2003	10.000	5.125
	Murfreesboro	Reallocated	2003	18.600	5.125
	Consolidated Utility	Reallocated	2003	11.000	5.125
	Consolidated Utility	Reallocated	2003	5.000	5.125
	YMCA of Middle TN	Reallocated	2003	0.080	5.125
	Cedar Crest Golf Ventures, LLC.	Reallocated	2004	0.350	5.500
	Town of Smyrna	Reallocated	2008	18.300	Paid up front
Laurel River Lake, KY	Laurel Co. Water Dist.	Reallocated	2005	2.000	5.125
<b>4 projects</b>	<b>14 agreements</b>			<b>89.112</b>	
<b>Pittsburgh</b>					
Berlin Lake, OH	<i>Not Under Contract</i>	<i>Original</i>	<i>NA</i>	<i>34.000</i>	<i>NA</i>
		<i>Conduit</i>	<i>NA</i>	<i>0.000</i>	<i>NA</i>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principa; by Agreement**

Lakes and Rivers Division		LRD WS Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
Mosquito Creek Lake, OH	City of Warren	Original	1999	16.000	3.000
Stonewall Jackson Lake, WV	<b>Not Under Contract</b>	<b>Original</b>	<b>NA</b>	<b>3.600</b>	<b>NA</b>
Tygart, WV	City of Grafton [1]	Original	1941	1.900	3.000
Youghiogheny River Lke, PA	Municipal Auth. of Westmoreland County [2]	Reallocated	2010	5.000	4.125
<b>5 projects</b>	<b>3 agreements</b>			<b>60.500</b>	
<b>Division Total</b>	<b>28 projects / 42 agreements</b>			<b>684.382</b>	

[1] LRP, Tygart. The agreement allowed the City to withdraw 1.9 mgd at no cost in return for donated real estate.

[2] LRP, Youghiogheny. The Municipal Authority of Westmoreland County has the right of first refusal for the remaining 7,050 acre-feet of stoage space covered in the reallocation report.

[3] Remaining Principal owed (as applicable) includes, for the present use storage, interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principa; by Agreement

Lakes and Rivers Division		LRD WS Storage Space				
Project	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
<b>Huntington</b>						
Alum Creek Lake, OH	State of OH (1968)	79,200	0	0	79,200	79,200
Grayson Lake, KY	Rattlesnake Ridge	30	0	0	30	
	Rattlesnake Ridge	2,508	0	0	2,508	2,508
John W. Flannagan, VA	John Flannagan Water Auth.	3,360	0	0	3,360	3,360
North Fork of Pound River Lake, VA	City of Pound	100	0	0	100	100
Paint Creek Lake, OH	Highland Co.	1,040	0	0	1,040	1,040
Paintsville Lake, KY	Paintsville Utilities	3,129	0	0	3,129	3,129
Summersville Lake, WV	City of Summerville	468	0	0	468	468
Tom Jenkins Dam, OH	State of OH	5,690	0	0	5,690	5,690
<b>8 projects</b>	<b>9 agreements</b>	<b>95,525</b>	<b>0</b>	<b>0</b>	<b>95,525</b>	<b>95,495</b>
<b>Louisville</b>						
Barren River Lake, KY	City of Glasgow	681	0	0	681	
	City of Scottsville	369	0	0	369	1,050
Brookville Lake, IN	State of IN	89,300	0	0	89,300	89,300
Caesar Creek Lake, OH	State of OH	39,100	0	0	39,100	39,100
Carr Creek Lake,	Carr Creek Water Comm.	2,052	0	0	2,052	2,052
Cave Run Lake, KY	Cave Run Water Comm.	538	0	0	538	
	City of West Liberty	264	0	0	264	802
Green River Lake, KY	City of Campbellsville	3,460	0	0	3,460	
	City of Columbia	855	0	0	855	4,315
Monroe Lake, IN	State of Indiana	160,000	0	0	160,000	160,000
Nolin Lake, KY	Edmonson Co. Water Dist.	98	0	0	98	98
Patoka Lake, IN	State of Indiana	129,800	0	0	129,800	129,800
Rough River Lake, KY	City of Leitchfield	120	0	0	120	
	City of Hardinsburg	150	0	0	150	
	Grayson County WD	252	0	0	252	522
William H. Harsha Lake, OH	State of OH	35,534	0	0	35,534	35,534
<b>11 projects</b>	<b>16 agreements</b>	<b>462,573</b>	<b>0</b>	<b>0</b>	<b>462,573</b>	<b>462,573</b>
<b>Nashville</b>						
Center Hill Lake, TN	City of Cookeville	6,680	0	0	6,680	
	City of Smithville	401	0	0	401	
	Riverwatch Golf	131	0	0	131	7,212
Dale Hollow Lake, TN & KY	City of Byrdstown	1,841	0	0	1,841	
	Commonwealth of KY	368	0	0	368	
	Trooper Island Camp	2	0	0	2	2,211
J. Percy Priest Dam & Reservoir, TN	City of LaVergne	2,733	0	0	2,733	
	Murfreesboro	5,084	0	0	5,084	
	Consolidated Utility	3,007	0	0	3,007	
	Consolidated Utility	1,367	0	0	1,367	
	YMCA of Middle TN	22	0	0	22	
	Cedar Crest Golf Ventures, LLC.	96	0	0	96	
	Town of Smyrna	5,002	0	0	5,002	17,311
Laurel River Lake, KY	Laurel Co. Water Dist.	519	0	0	519	519
<b>4 projects</b>	<b>14 agreements</b>	<b>27,253</b>	<b>0</b>	<b>0</b>	<b>27,253</b>	<b>27,253</b>
<b>Pittsburgh</b>						
Berlin Lake, OH	<i>Not Under Contract</i>	<i>0</i>	<i>0</i>	<i>19,400</i>	<i>19,400</i>	<i>19,400</i>
		<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principa; by Agreement

Lakes and Rivers Division		LRD WS Storage Space				
Project	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
Mosquito Creek Lake, OH	City of Warren	11,000	0	0	11,000	11,000
Stonewall Jackson Lake, WV	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>2,200</b>	<b>2,200</b>	<b>2,200</b>
Tygart, WV	City of Grafton [1]	2,240	0	0	2,240	2,240
Youghiogheny River Lke, PA	Municipal Auth. of Westmoreland County [2]	2,950	0	0	2,950	2,950
<b>5 projects</b>	<b>3 agreements</b>	<b>16,190</b>	<b>0</b>	<b>21,600</b>	<b>37,790</b>	<b>37,790</b>
<b>Division Total</b>	<b>28 projects / 42 agreements</b>	<b>601,541</b>	<b>0</b>	<b>21,600</b>	<b>623,141</b>	<b>623,111</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principa; by Agreement

Lakes and Rivers Division		LRD WS Storage Cost					Project WS Storage Cost (\$)
Project	User	WS Agreement Storage Cost (\$)					
		Present	Future	Not Under Contract	Total		
<b>Huntington</b>							
Alum Creek Lake, OH	State of OH (1968)	16,580,000	0	0	16,580,000	16,580,000	
Grayson Lake, KY	Rattlesnake Ridge	21,930	0	0	21,930		
	Rattlesnake Ridge	10,098	0	0	10,098	32,028	
John W. Flannagan, VA	John Flannagan Water Auth.	162,983	0	0	162,983	162,983	
North Fork of Pound River Lake, VA	City of Pound	94,626	0	0	94,626	94,626	
Paint Creek Lake, OH	Highland Co.	202,650	0	0	202,650	202,650	
Paintsville Lake, KY	Paintsville Utilities	4,774,940	0	0	4,774,940	4,774,940	
Summersville Lake, WV	City of Summerville	60,828	0	0	60,828	60,828	
Tom Jenkins Dam, OH	State of OH	785,000	0	0	785,000	785,000	
<b>8 projects</b>	<b>9 agreements</b>	<b>22,693,055</b>	<b>0</b>	<b>0</b>	<b>22,693,055</b>	<b>22,693,055</b>	
<b>Louisville</b>							
Barren River Lake, KY	City of Glasgow	22,300	0	0	22,300		
	City of Scottsville	12,200	0	0	12,200	34,500	
Brookville Lake, IN	State of IN	5,693,000	0	0	5,693,000	5,693,000	
Caesar Creek Lake, OH	State of OH	5,628,000	0	0	5,628,000	5,628,000	
Carr Creek Lake,	Carr Creek Water Comm.	305,563	0	0	305,563	305,563	
Cave Run Lake, KY	Cave Run Water Comm.	72,896	0	0	72,896		
	City of West Liberty	30,360	0	0	30,360	103,256	
Green River Lake, KY	City of Campbellsville	80,483	0	0	80,483		
	City of Columbia	88,065	0	0	88,065	168,548	
Monroe Lake, IN	State of Indiana	8,015,000	0	0	8,015,000	8,015,000	
Nolin Lake, KY	Edmonson Co. Water Dist.	11,402	0	0	11,402	11,402	
Patoka Lake, IN	State of Indiana	5,602,000	0	0	5,602,000	5,602,000	
Rough River Lake, KY	City of Leitchfield	3,648	0	0	3,648		
	City of Hardinsburg	17,781	0	0	17,781		
	Grayson County WD	34,934	0	0	34,934	56,363	
William H. Harsha Lake, OH	State of OH	3,944,200	0	0	3,944,200	3,944,200	
<b>11 projects</b>	<b>16 agreements</b>	<b>29,561,832</b>	<b>0</b>	<b>0</b>	<b>29,561,832</b>	<b>29,561,832</b>	
<b>Nashville</b>							
Center Hill Lake, TN	City of Cookeville	2,816,877	0	0	2,816,877		
	City of Smithville	54,536	0	0	54,536		
	Riverwatch Golf	96,775	0	0	96,775	2,968,188	
Dale Hollow Lake, TN & KY	City of Byrdstown	372,716	0	0	372,716		
	Commonwealth of KY	176,532	0	0	176,532		
	Trooper Island Camp	916	0	0	916	550,164	
J. Percy Priest Dam & Reservoir, TN	City of LaVergne	1,818,550	0	0	1,818,550		
	Murfreesboro	3,051,429	0	0	3,051,429		
	Consolidated Utility	1,804,609	0	0	1,804,609		
	Consolidated Utility	820,277	0	0	820,277		
	YMCA of Middle TN	16,638	0	0	16,638		
	Cedar Crest Golf Ventures, LLC.	75,951	0	0	75,951		
	Town of Smyrna	2,350,000	0	0	2,350,000	9,937,454	
Laurel River Lake, KY	Laurel Co. Water Dist.	166,847	0	0	166,847	166,847	
<b>4 projects</b>	<b>14 agreements</b>	<b>13,622,653</b>	<b>0</b>	<b>0</b>	<b>13,622,653</b>	<b>13,622,653</b>	
<b>Pittsburgh</b>							
Berlin Lake, OH	<i>Not Under Contract</i>	0	0	2,249,699	2,249,699		
		0	0	200,000	200,000	2,449,699	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principa; by Agreement

Lakes and Rivers Division		LRD WS Storage Cost					
Project	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)	
		Present	Future	Not Under Contract	Total		
Mosquito Creek Lake, OH	City of Warren	224,500	0	0	224,500	224,500	
Stonewall Jackson Lake, WV	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>4,300,000</b>	<b>4,300,000</b>	<b>4,300,000</b>	
Tygart, WV	City of Grafton [1]	106,618	0	0	106,618	106,618	
Youghiogheny River Lke, PA	Municipal Auth. of Westmoreland County [2]	2,557,949	0	0	2,557,949	2,557,949	
<b>5 projects</b>	<b>3 agreements</b>	<b>2,889,067</b>	<b>0</b>	<b>6,749,699</b>	<b>9,638,766</b>	<b>9,638,766</b>	
<b>Division Total</b>	<b>28 projects / 42 agreements</b>	<b>68,766,607</b>	<b>0</b>	<b>6,749,699</b>	<b>75,516,306</b>	<b>75,516,306</b>	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principa; by Agreement

Lakes and Rivers Division		LRD Remaining Prinicipal Owed [3]			
Project	User	Amount Owed (\$)			
		Present	Future	Total	District / MSC Percent
<b>Huntington</b>					
Alum Creek Lake, OH	State of OH (1968)	6,678,379	0	6,678,379	
Grayson Lake, KY	Rattlesnake Ridge	21,930	0	21,930	
	Rattlesnake Ridge	60,905	0	60,905	
John W. Flannagan, VA	John Flannagan Water Auth.	122,303	0	122,303	
North Fork of Pound River Lake, VA	City of Pound	0	0	0	
Paint Creek Lake, OH	Highland Co.	138,643	0	138,643	
Paintsville Lake, KY	Paintsville Utilities	4,774,940	0	4,774,940	
Summersville Lake, WV	City of Summerville	50,136	0	50,136	
Tom Jenkins Dam, OH	State of OH	495,000	0	495,000	
<b>8 projects</b>	<b>9 agreements</b>	<b>12,342,236</b>	<b>0</b>	<b>12,342,236</b>	<b>54%</b>
<b>Louisville</b>					
Barren River Lake, KY	City of Glasgow	0	0	0	
	City of Scottsville	0	0	0	
Brookville Lake, IN	State of IN	0	0	0	
Caesar Creek Lake, OH	State of OH	4,352,594	0	4,352,594	
Carr Creek Lake,	Carr Creek Water Comm.	0	0	0	
Cave Run Lake, KY	Cave Run Water Comm.	0	0	0	
	City of West Liberty	30,360	0	30,360	
Green River Lake, KY	City of Campbellsville	39,843	0	39,843	
	City of Columbia	0	0	0	
Monroe Lake, IN	State of Indiana	0	0	0	
Nolin Lake, KY	Edmonson Co. Water Dist.	0	0	0	
Patoka Lake, IN	State of Indiana	0	0	0	
Rough River Lake, KY	City of Leitchfield	0	0	0	
	City of Hardinsburg	0	0	0	
	Grayson County WD	34,934	0	34,934	
William H. Harsha Lake, OH	State of OH	3,176,358	0	3,176,358	
<b>11 projects</b>	<b>16 agreements</b>	<b>7,634,089</b>	<b>0</b>	<b>7,634,089</b>	<b>26%</b>
<b>Nashville</b>					
Center Hill Lake, TN	City of Cookeville	2,408,445	0	2,408,445	
	City of Smithville	0	0	0	
	Riverwatch Golf	84,545	0	84,545	
Dale Hollow Lake, TN & KY	City of Byrdstown	331,993	0	331,993	
	Commonwealth of KY	140,545	0	140,545	
	Trooper Island Camp	0	0	0	
J. Percy Priest Dam & Reservoir, TN	City of LaVergne	0	0	0	
	Murfreesboro	0	0	0	
	Consolidated Utility	0	0	0	
	Consolidated Utility	0	0	0	
	YMCA of Middle TN	14,228	0	14,228	
	Cedar Crest Golf Ventures, LLC.	66,441	0	66,441	
	Town of Smyrna	0	0	0	
Laurel River Lake, KY	Laurel Co. Water Dist.	148,617	0	148,617	
<b>4 projects</b>	<b>14 agreements</b>	<b>3,194,814</b>	<b>0</b>	<b>3,194,814</b>	<b>23%</b>
<b>Pittsburgh</b>					
Berlin Lake, OH	<i>Not Under Contract</i>	0	2,249,699	2,249,699	
		0	200,000	200,000	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principa; by Agreement

Lakes and Rivers Division		LRD Remaining Prinicipal Owed [3]			
Project	User	Amount Owed (\$)			
		Present	Future	Total	District / MSC Percent
Mosquito Creek Lake, OH	City of Warren	0	0	0	
Stonewall Jackson Lake, WV	<b>Not Under Contract</b>	<b>0</b>	<b>4,300,000</b>	<b>4,300,000</b>	
Tygart, WV	City of Grafton [1]	0	0	0	
Youghiogheny River Lke, PA	Municipal Auth. of Westmoreland County [2]	2,413,719	0	2,413,719	
<b>5 projects</b>	<b>3 agreements</b>	<b>2,413,719</b>	<b>6,749,699</b>	<b>9,163,418</b>	<b>95%</b>
<b>Division Total</b>	<b>28 projects / 42 agreements</b>	<b>25,584,858</b>	<b>6,749,699</b>	<b>32,334,557</b>	<b>43%</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principle by Agreement**

Mississippi Valley Division		MVD WS Agreement Data			
Project Name	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
<b>Rock Island</b>					
Saylorville, IA	State of Iowa	Original	1982	13.30	9.352
<b>1 project</b>	<b>1 agreement</b>			<b>13.30</b>	
<b>St. Louis</b>					
Carlyle Lake, IL	State of IL	Original	1983	24.50	Prepaid
Clarence Cannon Dam & Mark Twain Lake., MO	Wholesale Water Commission State of MO	Original	1988	16.00	3.220
Lake Shelbyville, IL	State of IL	Original	1983	17.00	Prepaid
Rend Lake, IL	State of IL	Original	1988	70.00	Prepaid
<b>4 projects</b>	<b>4 agreements</b>			<b>127.50</b>	
<b>Vicksburg</b>					
Blakey Mt, Dam, Lake Ouachita, AR	N. Garland County Reg. WD	Reallocated	1996	1.00	6.750
DeGray, AR	Ouachita RWD <b>[1]</b>	Original	1988	120.00	2.742
	Ouachita RWD	Original	1992	1.00	2.742
	Ouachita RWD	Original	1998	0.50	2.742
	Ouachita RWD	Original	2001	1.00	2.742
	City of Bryant, Arkansas	Original	2010	15.00	2.742
	<b>Not Under Contract [2]</b>	<b>Assurance</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Enid, MS	LSP Energy Limited	Reallocated	1998	10.90	6.750
<b>3 projects</b>	<b>7 agreements</b>			<b>149.40</b>	
<b>Division Summary</b>	<b>8 Projects / 12 agreements</b>			<b>290.20</b>	

[1] MVD, DeGray. In accordance with a 4 April 1988 MOA, the ORWD obtained the right of first refusal for all water supply storage in DeGray, estimated at a152 mgd. For this right of first refusal, the ORWD agreed to pay the annual interest attributable to 120 mgd. Annual interest payment estimated at \$154,426 has a been paid by ORWD since signing of the MOA. Since storage costs have not been repaid classify as future.

[2] Four water supply agreements are currently under negotiation that, if executed, will use all of this remaining storage.

[3] Remaining Principal owed (as applicable) includes, for the present use storage, interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principle by Agreement

Mississippi Valley Division	Project Name	User	MVD WS Storage Space				Project WS Storage Space (acre-feet)
			WS Agreement Storage Space (acre-feet)				
			Present	Future	Not Under Contract	Total	
<b>Rock Island</b>							
	Saylorville, IA	State of Iowa	14,900	0	0	14,900	14,900
	<b>1 project</b>	<b>1 agreement</b>	<b>14,900</b>	<b>0</b>	<b>0</b>	<b>14,900</b>	<b>14,900</b>
<b>St. Louis</b>							
	Carlyle Lake, IL	State of IL	32,692	0	0	32,692	32,692
	Clarence Cannon Dam & Mark Twain Lake., MO	Wholesale Water Commission State of MO	20,000	0	0	20,000	20,000
	Lake Shelbyville, IL	State of IL	24,714	0	0	24,714	24,714
	Rend Lake, IL	State of IL	109,000	0	0	109,000	109,000
	<b>4 projects</b>	<b>4 agreements</b>	<b>186,406</b>	<b>0</b>	<b>0</b>	<b>186,406</b>	<b>186,406</b>
<b>Vicksburg</b>							
	Blakey Mt, Dam, Lake Ouachita, AR	N. Garland County Reg. WD	1,575	0	0	1,575	1,575
	DeGray, AR	Ouachita RWD [1]	0	188,470	0	188,470	
		Ouachita RWD	1,573	0	0	1,573	
		Ouachita RWD	787	0	0	787	
		Ouachita RWD	1,573	0	0	1,573	
		City of Bryant, Arkansas	23,595	0	0	23,595	
		<b>Not Under Contract [2]</b>	<b>0</b>	<b>0</b>	<b>22,731</b>	<b>22,731</b>	<b>238,729</b>
	Enid, MS	LSP Energy Limited	4,500	0	0	4,500	4,500
	<b>3 projects</b>	<b>7 agreements</b>	<b>33,603</b>	<b>188,470</b>	<b>22,731</b>	<b>244,804</b>	<b>244,804</b>
	<b>Division Summary</b>	<b>8 Projects / 12 agreements</b>	<b>234,909</b>	<b>188,470</b>	<b>22,731</b>	<b>446,110</b>	<b>446,110</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principle by Agreement

Mississippi Valley Division	Project Name	User	MVD WS Storage Cost				Project WS Storage Cost (\$)
			WS Agreement Storage Cost (\$)				
			Present	Future	Not Under Contract	Total	
<b>Rock Island</b>							
Saylorville, IA	State of Iowa		3,869,300	0	0	3,869,300	3,869,300
<b>1 project</b>	<b>1 agreement</b>		<b>3,869,300</b>	<b>0</b>	<b>0</b>	<b>3,869,300</b>	<b>3,869,300</b>
<b>St. Louis</b>							
Carlyle Lake, IL	State of IL		3,635,000	0	0	3,635,000	3,635,000
Clarence Cannon Dam & Mark Twain Lake., MO	Wholesale Water Commission State of MO		5,144,600	0	0	5,144,600	5,144,600
Lake Shelbyville, IL	State of IL		4,310,000	0	0	4,310,000	4,310,000
Rend Lake, IL	State of IL		9,941,000	0	0	9,941,000	9,941,000
<b>4 projects</b>	<b>4 agreements</b>		<b>23,030,600</b>	<b>0</b>	<b>0</b>	<b>23,030,600</b>	<b>23,030,600</b>
<b>Vicksburg</b>							
Blakey Mt, Dam, Lake Ouachita, AR	N. Garland County Reg. WD		110,751	0	0	110,751	110,751
DeGray, AR	Ouachita RWD [1]		0	4,660,863	0	4,660,863	
	Ouachita RWD		38,847	0	0	38,847	
	Ouachita RWD		19,423	0	0	19,423	
	Ouachita RWD		38,847	0	0	38,847	
	City of Bryant, Arkansas		583,316	0	0	583,316	
	<b>Not Under Contract [2]</b>		<b>0</b>	<b>0</b>	<b>562,160</b>	<b>562,160</b>	<b>5,903,456</b>
Enid, MS	LSP Energy Limited		1,111,898	0	0	1,111,898	1,111,898
<b>3 projects</b>	<b>7 agreements</b>		<b>1,903,082</b>	<b>4,660,863</b>	<b>562,160</b>	<b>7,126,105</b>	<b>7,126,105</b>
<b>Division Summary</b>	<b>8 Projects / 12 agreements</b>		<b>28,802,982</b>	<b>4,660,863</b>	<b>562,160</b>	<b>34,026,005</b>	<b>34,026,005</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principle by Agreement

Mississippi Valley Division		MVD Remaining Principal Owed [3]			
Project Name	User	Amount Owed (\$)			
		Present	Future	Total	District / MSC Percent
<b>Rock Island</b>					
Saylorville, IA	State of Iowa	0	0	0	
<b>1 project</b>	<b>1 agreement</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0%</b>
<b>St. Louis</b>					
Carlyle Lake, IL	State of IL	0	0	0	
Clarence Cannon Dam & Mark Twain Lake., MO	Wholesale Water Commission State of MO	3,758,838	0	3,758,838	
Lake Shelbyville, IL	State of IL	0	0	0	
Rend Lake, IL	State of IL	0	0	0	
<b>4 projects</b>	<b>4 agreements</b>	<b>3,758,838</b>	<b>0</b>	<b>3,758,838</b>	<b>16%</b>
<b>Vicksburg</b>					
Blakey Mt, Dam, Lake Ouachita, AR	N. Garland County Reg. WD	0	0	0	
DeGray, AR	Ouachita RWD [1]	0	4,660,863	4,660,863	
	Ouachita RWD	41,746	0	41,746	
	Ouachita RWD	22,524	0	22,524	
	Ouachita RWD	51,577	0	51,577	
	City of Bryant, Arkansas	1,365,431	0	1,365,431	
	<b>Not Under Contract [2]</b>	<b>0</b>	<b>562,160</b>	<b>562,160</b>	
Enid, MS	LSP Energy Limited	862,314	0	862,314	
<b>3 projects</b>	<b>7 agreements</b>	<b>2,343,592</b>	<b>5,223,023</b>	<b>7,566,615</b>	<b>106%</b>
<b>Division Summary</b>	<b>8 Projects / 12 agreements</b>	<b>6,102,430</b>	<b>5,223,023</b>	<b>11,325,453</b>	<b>33%</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Northwestern Division		NWD WS Agreement Data			
Project Name	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
<b>Kansas City</b>					
Clinton Lake, KS	State of Kansas	Original	1978	17.30	3.502
		Conduit	1978	0.00	3.502
Harry S Truman Dam & Res., MO	Henry Co. PWSD #3	Reallocated	1994	0.41	6.125
	Henry Co. PWSD #2	Reallocated	1997	0.26	7.125
Hillsdale Lake, KS	State of Kansas	Original	1974	15.20	4.012
Kanopolis Lake, KS	State of Kansas	Reallocated	2002	13.32	5.625
Long Branch Lake, MO	City of Macon	Original	1972	35.19	3.502
Melvern Lake, KS [1]	State of Kansas	Reallocated	1994	7.20	3.225
Milford Lake, KS	State of Kansas	Original	1980	53.04	2.632
	Activate future			37.61	
	Activate future			20.35	
Perry Lake, KS	State of Kansas	Original	1976	74.60	3.040
Pomona Lake, KS	RWD#3 Osage Co.	Original	1964	0.06	2.670
	RWD#3	Original	1980	0.06	4.371
	State of Kansas	Reallocated	1995	3.21	2.699
	State of Kansas	Reallocated	1995	4.07	2.700
Rathbun Lake, IA	Rathbun Regional Water Assoc, Inc. (RRWA)	Reallocated	1986	1.02	5.116
	RRWA	Reallocated	1989	1.02	9.250
Smithville Lake, MO	City of Smithville	Original	1972	2.43	3.649
	City of Plattsburg	Original	1972	3.46	3.649
	<b>Not Under Contract</b>	<b>Original</b>	<b>NA</b>	<b>22.91</b>	<b>NA</b>
Stockton Lake, MO	City of Springfield	Original	1993	30.00	6.125
Tuttle Creek Lake, KS	State of Kansas	Reallocated	1991	31.80	2.553
	State of Kansas	Reallocated	1994	10.03	2.553
	State of Kansas	Reallocated	1996	16.00	2.553
<b>13 projects</b>	<b>22 agreements</b>			<b>380.20</b>	
<b>Omaha</b>					
Bowman Haley, ND	Bowman County Water Management Dist.	Original	1981	1.90	3.046
Garrison, ND	Basin Elect. Power Coop.	Original	2005	18.75	4.125
<b>2 projects</b>	<b>2 agreements</b>			<b>20.65</b>	
<b>Portland</b>					
Lost Creek, OR	City of Phoenix	Original	1982	0.04	3.253
	Cit of Phoenix	Original	1991	0.05	3.253
	City of Jacksonville	Original	1995	0.04	3.253
	City of Shady Cove	Original	1998	0.00	3.253
	City of Ashland	Original	2002	0.09	3.253
	City of Talent	Original	2002	0.12	3.253
	City of Shady Cove	Original	2002	0.00	3.253
	Sandy Cove Waterworks	Original	2006	0.01	3.253
	Rogue Aggregates, Inc.	Original	2007	0.00	3.253
	Angler's Cove/Shady Cove Heights Water Co.	Original	2007	0.00	3.253
	<b>Not Under Contract</b>		<b>NA</b>	<b>8.58</b>	<b>3.253</b>
<b>1 project</b>	<b>10 agreements</b>			<b>8.93</b>	
<b>Seattle</b>					
Howard Hanson, WA [2]	City of Tacoma, Public Util.	Modification	2003	33.60	?
<b>1 project</b>	<b>1 agreement</b>			<b>33.60</b>	

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Northwestern Division		NWD WS Agreement Data			
Project Name	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
Divison Total	17 projects / 35 agreements + 2 Activate future			443.38	

[1] NWK Melvern. Cost developed under a MOU with the state of KS. Storage costs based on original construction or sunk costs of the reallocated water quality storage.

[2] NWS Howard Hanson. The Non-Federal sponsor shall pay a share of the existing project investment costs as required by law, equal to one half the difference of the least cost alternative of providing equivalent water supply less the present-worth cost of the total project modification costs for Municipal and Industrial Water Supply. The City is contributing their share of construction funds during the period of construction.

[3] Remaining Principal owed (as applicable) includes, for the present use storage, interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Northwestern Division		NWD WS Storage Space					Project WS Storage Space (acre-feet)
Project Name	User	WS Agreement Storage Space (acre-feet)					
		Present	Future	Not Under Contract	Total		
<b>Kansas City</b>							
Clinton Lake, KS	State of Kansas	53,520	35,680	0	89,200		
		0	0	0	0	89,200	
Harry S Truman Dam & Res., MO	Henry Co. PWSD #3	172	0	0	172		
	Henry Co. PWSD #2	111	0	0	111	283	
Hillsdale Lake, KS	State of Kansas	13,250	39,750	0	53,000	53,000	
Kanopolis Lake, KS	State of Kansas	12,500		0	12,500	12,500	
Long Branch Lake, MO	City of Macon	4,400	13,800	0	18,200	18,200	
Melvern Lake, KS [1]	State of Kansas	50,000	0	0	50,000	50,000	
Milford Lake, KS	State of Kansas	0	143,350	0	143,350		
	Activate future	101,650	0	0	101,650		
	Activate future	55,000	0	0	55,000	300,000	
Perry Lake, KS	State of Kansas	25,000	125,000	0	150,000	150,000	
Pomona Lake, KS	RWD#3 Osage Co.	230	0	0	230		
	RWD#3	270	0	0	270		
	State of Kansas	14,324	0	0	14,324		
	State of Kansas	18,176	0	0	18,176	33,000	
Rathbun Lake, IA	Rathbun Regional Water Assoc, Inc. (RRWA)	3,340	0	0	3,340		
	RRWA	3,340	0	0	3,340	6,680	
Smithville Lake, MO	City of Smithville	2,000	6,000	0	8,000		
	City of Plattsburg	2,650	8,850	0	11,500		
	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>75,700</b>	<b>75,700</b>	95,200	
Stockton Lake, MO	City of Springfield	25,000	25,000	0	50,000	50,000	
Tuttle Creek Lake, KS	State of Kansas	27,500	0	0	27,500		
	State of Kansas	8,650	0	0	8,650		
	State of Kansas	13,850	0	0	13,850	50,000	
<b>13 projects</b>	<b>22 agreements</b>	<b>434,933</b>	<b>397,430</b>	<b>75,700</b>	<b>908,063</b>	<b>908,063</b>	
<b>Omaha</b>							
Bowman Haley, ND	Bowman County Water Management Dist.	15,500	0	0	15,500	15,500	
Garrison, ND	Basin Elect. Power Coop.	54,390	0	0	54,390	54,390	
<b>2 projects</b>	<b>2 agreements</b>	<b>69,890</b>	<b>0</b>	<b>0</b>	<b>69,890</b>	<b>69,890</b>	
<b>Portland</b>							
Lost Creek, OR	City of Phoenix	400	0	0	400		
	Cit of Phoenix	600	0	0	600		
	City of Jacksonville	400	0	0	400		
	City of Shady Cove	3	0	0	3		
	City of Ashland	1,001	0	0	1,001		
	City of Talent	1,292	0	0	1,292		
	City of Shady Cove	12	0	0	12		
	Sandy Cove Waterworks	100	0	0	100		
	Rogue Aggregates, Inc.	5	0	0	5		
	Angler's Cove/Shady Cove Heights Water Co.	5	0	0	5		
	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>6,182</b>	<b>6,182</b>	10,000	
<b>1 project</b>	<b>10 agreements</b>	<b>3,818</b>	<b>0</b>	<b>6,182</b>	<b>10,000</b>	<b>10,000</b>	
<b>Seattle</b>							
Howard Hanson, WA [2]	City of Tacoma, Public Util.	20,000	0	0	20,000	20,000	
<b>1 project</b>	<b>1 agreement</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>20,000</b>	<b>20,000</b>	

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Northwestern Division		NWD WS Storage Space				
Project Name	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
Divison Total	17 projects / 35 agreements + 2 Activate future	528,641	397,430	81,882	1,007,953	1,007,953

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Northwestern Division		NWD WS Storage Cost				
Project Name	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
<b>Kansas City</b>						
Clinton Lake, KS	State of Kansas	4,185,857	2,269,826	0	6,455,683	
		312,448	0	0	312,448	6,768,131
Harry S Truman Dam & Res., MO	Henry Co. PWSD #3	44,006	0	0	44,006	
	Henry Co. PWSD #2	35,506	0	0	35,506	79,512
Hillsdale Lake, KS	State of Kansas	6,976,131	32,346,221	0	39,322,352	39,322,352
Kanopolis Lake, KS	State of Kansas	4,181,167	0	0	4,181,167	4,181,167
Long Branch Lake, MO	City of Macon	583,203	1,829,102	0	2,412,305	2,412,305
Melvern Lake, KS [1]	State of Kansas	7,094,009	0	0	7,094,009	7,094,009
Milford Lake, KS	State of Kansas	0	6,234,072	0	6,234,072	
	Activate future	4,420,250	0	0	4,420,250	
	Activate future	2,391,254	0	0	2,391,254	13,045,576
Perry Lake, KS	State of Kansas	1,535,030	7,673,311	0	9,208,341	9,208,341
Pomona Lake, KS	RWD#3 Osage Co.	13,358	0	0	13,358	
	RWD#3	19,852	0	0	19,852	
	State of Kansas	1,555,242	0	0	1,555,242	
	State of Kansas	2,009,480	0	0	2,009,480	3,597,932
Rathbun Lake, IA	Rathbun Regional Water Assoc, Inc. (RRWA)	331,019	0	0	331,019	
	RRWA	498,916	0	0	498,916	829,935
Smithville Lake, MO	City of Smithville	298,890	1,107,816	0	1,406,706	
	City of Plattsburg	356,954	1,194,129	0	1,551,083	
	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>10,448,367</b>	<b>10,448,367</b>	13,406,156
Stockton Lake, MO	City of Springfield	4,796,426	4,796,425	0	9,592,851	9,592,851
Tuttle Creek Lake, KS	State of Kansas	1,876,748	0	0	1,876,748	
	State of Kansas	368,699	0	0	368,699	
	State of Kansas	591,634	0	0	591,634	2,837,081
<b>13 projects</b>	<b>22 agreements</b>	<b>44,476,079</b>	<b>57,450,902</b>	<b>10,448,367</b>	<b>112,375,348</b>	<b>112,375,348</b>
<b>Omaha</b>						
Bowman Haley, ND	Bowman County Water Management Dist.	824,985	0	0	824,985	824,985
Garrison, ND	Basin Elect. Power Coop.	1,049,145	0	0	1,049,145	1,049,145
<b>2 projects</b>	<b>2 agreements</b>	<b>1,874,130</b>	<b>0</b>	<b>0</b>	<b>1,874,130</b>	<b>1,874,130</b>
<b>Portland</b>						
Lost Creek, OR	City of Phoenix	269,950	0	0	269,950	
	Cit of Phoenix	404,475	0	0	404,475	
	City of Jacksonville	269,650	0	0	269,650	
	City of Shady Cove	2,022	0	0	2,022	
	City of Ashland	928,475	0	0	928,475	
	City of Talent	1,199,590	0	0	1,199,590	
	City of Shady Cove	11,142	0	0	11,142	
	Sandy Cove Waterworks	105,531	0	0	105,531	
	Rogue Aggregates, Inc.	5,449	0	0	5,449	
	Angler's Cove/Shady Cove Heights Water Co.	5,449	0	0	5,449	
	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>4,168,152</b>	<b>4,168,152</b>	<b>7,369,885</b>
<b>1 project</b>	<b>10 agreements</b>	<b>3,201,733</b>	<b>0</b>	<b>4,168,152</b>	<b>7,369,885</b>	<b>7,369,885</b>
<b>Seattle</b>						
Howard Hanson, WA [2]	City of Tacoma, Public Util.	18,368,000	0	0	18,368,000	18,368,000
<b>1 project</b>	<b>1 agreement</b>	<b>18,368,000</b>	<b>0</b>	<b>0</b>	<b>18,368,000</b>	<b>18,368,000</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Northwestern Division		NWD WS Storage Cost				
Project Name	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
Divison Total	17 projects / 35 agreements + 2 Activate future	67,919,942	57,450,902	14,616,519	139,987,363	139,987,363

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Northwestern Division		NWD Remaining Principal Owed (\$)			
Project Name	User	Amount Owed (\$)			District / MSC Percent
		Present	Future	Total	
<b>Kansas City</b>					
Clinton Lake, KS	State of Kansas				
		2,151,571	2,269,826	4,421,397	
Harry S Truman Dam & Res., MO	Henry Co. PWSD #3	0	0	0	
	Henry Co. PWSD #2	0	0	0	
Hillsdale Lake, KS	State of Kansas	6,976,131	32,346,221	39,322,352	
Kanopolis Lake, KS	State of Kansas	2,846,526	0	2,846,526	
Long Branch Lake, MO	City of Macon	662,435	1,829,102	2,491,537	
Melvorn Lake, KS [1]	State of Kansas	0	0	0	
Milford Lake, KS	State of Kansas	0	6,234,072	6,234,072	
	Activate future	2,070,984	0	2,070,984	
	Activate future	1,304,558	0	1,304,558	
Perry Lake, KS	State of Kansas	447,583	7,673,311	8,120,894	
Pomona Lake, KS	RWD#3 Osage Co.	13,358	0	13,358	
	RWD#3	0	0	0	
	State of Kansas	0	0	0	
	State of Kansas	0	0	0	
Rathbun Lake, IA	Rathbun Regional Water Assoc, Inc. (RRWA)	188,760	0	188,760	
	RRWA	0	0	0	
Smithville Lake, MO	City of Smithville	183,789	1,107,816	1,291,605	
	City of Plattsburg	188,764	1,194,129	1,382,893	
	<b>Not Under Contract</b>	<b>0</b>	<b>10,448,367</b>	<b>10,448,367</b>	
Stockton Lake, MO	City of Springfield	0	4,798,425	4,798,425	
Tuttle Creek Lake, KS	State of Kansas	0	0	0	
	State of Kansas	0	0	0	
	State of Kansas	0	0	0	
<b>13 projects</b>	<b>22 agreements</b>	<b>17,034,459</b>	<b>67,901,269</b>	<b>84,935,728</b>	<b>76%</b>
<b>Omaha</b>					
Bowman Haley, ND	Bowman County Water Management Dist.	794,091	0	794,091	
Garrison, ND	Basin Elect. Power Coop.	554,527	0	554,527	
<b>2 projects</b>	<b>2 agreements</b>	<b>1,348,618</b>	<b>0</b>	<b>1,348,618</b>	<b>72%</b>
<b>Portland</b>					
Lost Creek, OR	City of Phoenix	165,637	0	165,637	
	Cit of Phoenix	49,637	0	49,637	
	City of Jacksonville	40,408	0	40,408	
	City of Shady Cove	336	0	336	
	City of Ashland	0	0	0	
	City of Talent	0	0	0	
	City of Shady Cove	0	0	0	
	Sandy Cove Waterworks	0	0	0	
	Rogue Aggregates, Inc.	0	0	0	
	Angler's Cove/Shady Cove Heights Water Co.	0	0	0	
	<b>Not Under Contract</b>	<b>0</b>	<b>4,168,152</b>	<b>4,168,152</b>	
<b>1 project</b>	<b>10 agreements</b>	<b>256,018</b>	<b>4,168,152</b>	<b>4,424,170</b>	<b>60%</b>
<b>Seattle</b>					
Howard Hanson, WA [2]	City of Tacoma, Public Util.	0	0	0	
<b>1 project</b>	<b>1 agreement</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0%</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Northwestern Division	NWD Remaining Principal Owed (\$)				
Project Name	User	Amount Owed (\$)			
		Present	Future	Total	District / MSC Percent
Divison Total	17 projects / 35 agreements + 2 Activate future	18,639,095	72,069,421	90,708,516	65%

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

South Pacific Division		SPD Agreement Data			
Project	User	Agreement			
		Type	Date	Yield	Interest Rate (%)
<b>Albuquerque</b>					
Abiqui [1]	Albuquerque Bernalillo Co. Water Utility Auth.	Modification	1986	Na	na
<b>1 project</b>	<b>1 agreement</b>			<b>NA</b>	
<b>San Francisco</b>					
Dry Creek, Warm Springs dam / Lake Sonoma, CA [2]	Sonoma Co. Water Agency	Original	1982	189.3	3.225
Coyote Valley dam / Lake Mendocino, CA	Sonoma Co. Water Agency	Original	1956	99.11	Fully paid
<b>2 projects</b>	<b>2 agreements</b>			<b>288.41</b>	
<b>Division Totals</b>	<b>3 projects / 3 agreements</b>			<b>387.52</b>	

[1] SPA Abiqui. March 1986 contract under PL 97-140. The Albuquerque Bernalillo County Water Utility Authority uses the reservoir as a pass through for San Juan Chama water being stored in the flood control storage pool. Original user was the City of Albuquerque. PL 97-140 was amended by PL 100-522; U.S. Code 43-12B Section 620a.

[2] SPN Dry Creek. The contract is for four blocks of storage: 44,000, 44,000, 44,000 and 80,000. The first block was to due and payable in 1992, the 2nd in 1995, the 3rd in 2000 and the 4th in 2005. Since all dates have passed, it is assumed all storage is under present use. If this is not the case and only interest on the principal is accruing, then a change must be made to the present and future spaces and costs.

[3] Remaining Principal (as applicable) includes, for the present use storage, interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

South Pacific Division		SPD WS Storage Space				
Project	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
<b>Albuquerque</b>						
Abiqui [1]	Albuquerque Bernalillo Co. Water Utility Auth.	170,900	0	0	170,900	170,900
<b>1 project</b>	<b>1 agreement</b>	<b>170,900</b>	<b>0</b>	<b>0</b>	<b>170,900</b>	<b>170,900</b>
<b>San Francisco</b>						
Dry Creek, Warm Springs dam / Lake Sonoma, CA [2]	Sonoma Co. Water Agency	212,000	0	0	212,000	212,000
Coyote Valley dam / Lake Mendocino, CA	Sonoma Co. Water Agency	111,000	0	0	111,000	111,000
<b>2 projects</b>	<b>2 agreements</b>	<b>323,000</b>	<b>0</b>	<b>0</b>	<b>323,000</b>	<b>323,000</b>
<b>Division Totals</b>	<b>3 projects / 3 agreements</b>	<b>493,900</b>	<b>0</b>	<b>0</b>	<b>493,900</b>	<b>493,900</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

South Pacific Division		SPD WS Storage Cost				
Project	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
<b>Albuquerque</b>						
Abiqui [1]	Albuquerque Bernalillo Co. Water Utility Auth.	0	0	0	0	0
<b>1 project</b>	<b>1 agreement</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>
<b>San Francisco</b>						
Dry Creek, Warm Springs dam / Lake Sonoma, CA [2]	Sonoma Co. Water Agency	122,061,048	0	0	122,061,048	122,061,048
Coyote Valley dam / Lake Mendocino, CA	Sonoma Co. Water Agency	100,000	0	0	100,000	100,000
<b>2 projects</b>	<b>2 agreements</b>	<b>122,161,048</b>	<b>0</b>	<b>0</b>	<b>122,161,048</b>	<b>122,161,048</b>
<b>Division Totals</b>	<b>3 projects / 3 agreements</b>	<b>122,161,048</b>	<b>0</b>	<b>0</b>	<b>122,161,048</b>	<b>122,161,048</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

South Pacific Division		SPD Remaining Principal Owed [3]			
Project	User	Amount Owed (\$)			
		Present	Future	Total	District / MSC Percent
<b>Albuquerque</b>					
Abiqui [1]	Albuquerque Bernalillo Co. Water Utility Auth.	0	0	0	
<b>1 project</b>	<b>1 agreement</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0%</b>
<b>San Francisco</b>					
Dry Creek, Warm Springs dam / Lake Sonoma, CA [2]	Sonoma Co. Water Agency	106,757,438	0	106,757,438	
Coyote Valley dam / Lake Mendocino, CA	Sonoma Co. Water Agency	0	0	0	
<b>2 projects</b>	<b>2 agreements</b>	<b>106,757,438</b>	<b>0</b>	<b>106,757,438</b>	<b>87%</b>
<b>Division Totals</b>	<b>3 projects / 3 agreements</b>	<b>106,757,438</b>	<b>0</b>	<b>106,757,438</b>	<b>87%</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwestern Division		SWL Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Rate (%)
<b>Little Rock</b>					
Beaver Lake, AR	Beaver Water District	Original	1960	35.00	2.699
	Activate Future		1993	85.00	2.699
	Carroll-Boone Water District	Reallocation	1977	4.74	2.699
	Madison Co., Water District	Reallocation	1992	2.50	7.125
	Benton/Washington Co. WD	Reallocation	1996	4.00	7.750
Blue Mountain Lake, AR	City of Danville	Reallocation	2005	2.00	5.125
Bull Shoals Lake, AR	Marion Co. Water District	Reallocation	1988	1.00	7.500
	Marion Co. Water District	Reallocation	2010	2.00	4.125
Dardanell Lake, AR	AP&L NuclearOne [1]	Surplus	1970	1100.00	6.000
DeQueen Lake, AR	Tri-Lakes Water District	Original	1995	22.00	3.222
Dierks Lake, AR	Marion Tri-County Water Dist.	Original	1976	13.25	3.253
Gillham Lake, AR	Tri-Lakes Water District	Original	1980	0.25	2.936
	Activate Future		1996	41.75	2.936
Greers Ferry Lake, AR	City of Herber Springs [2]	Original	1959	0.84	NA
	Clinton Water District	Reallocation	1970	1.00	2.591
	Community Water System	Reallocation	1971	0.25	2.591
	Community WS	Reallocation	1995	3.10	7.750
	Red Apple Inn & Country Club	Reallocation	1996	0.05	6.750
	Community WS	Reallocation	1998	3.50	2.600
	Thunderbird Country Club	Reallocation	1998	0.07	6.750
	Tannebaum Country Club	Reallocation	1998	0.07	6.750
Millwood Lake, AR	SW Arkansas Water Dist.	Original	1965	10.60	2.632
	Activate Future		1975	14.40	2.632
	Activate Future		1980	25.00	2.632
	Activate Future		1984	3.00	2.632
	Activate Future		1986	5.00	2.632
	Activate Future		1991	20.00	2.632
	Activate Future		1991	0.70	2.632
	Activate Future		2010	21.00	2.632
	Remaining storage under contract			165.30	2.632
Nimrod Lake, AR	City of Plainview	Reallocation	1973	0.10	4.012
	City of Plainview	Reallocation	1995	0.23	6.125
Norfolk Lake, AR	City of Mountain Home	Reallocation	1969	1.00	2.500
	Activate Future		1971	2.00	2.500
<b>11 projects</b>	<b>23 Agreements + 10 Activate Future</b>			<b>1548.95</b>	

[1] Dardanell - No storage, water withdrawn for cooling with much returned to the Arkansas River. They pay only for what evaporates and is not returned.

[2] Greers Ferry - City of Herber Springs, storage replaces water supply lost due to construction of project, no cost to the city.

[3] Remaining Principal owed (as applicable) includes, for the present storage, interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwestern Division		SWL Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
Project	User	WS Agreement Storage Space				
		Present	Future	Not Under Contract	Total	
<b>Little Rock</b>						
Beaver Lake, AR	Beaver Water District	31,000	0	0	31,000	
	Activate Future	77,000	0	0	77,000	
	Carroll-Boone Water District	9,000	0	0	9,000	
	Madison Co., Water District	3,882	0	0	3,882	
	Benton/Washington Co. WD	8,113	0	0	8,113	128,995
Blue Mountain Lake, AR	City of Danville	1,550	0	0	1,550	1,550
Bull Shoals Lake, AR	Marion Co. Water District	880	0	0	880	
	Marion Co. Water District	1,698	0	0	1,698	2,578
Dardanell Lake, AR	AP&L NuclearOne [1]	0	0	0	0	0
DeQueen Lake, AR	Tri-Lakes Water District	610	17,275	0	17,885	17,885
Dierks Lake, AR	Marion Tri-County Water Dist.	190	9,910	0	10,100	10,100
Gillham Lake, AR	Tri-Lakes Water District	123	0	0	123	
	Activate Future	200	20,277	0	20,477	20,600
Greers Ferry Lake, AR	City of Herber Springs [2]	1,008	0	0	1,008	
	Clinton Water District	900	0	0	900	
	Community Water System	225	0	0	225	
	Community WS	3,776	0	0	3,776	
	Red Apple Inn & Country Club	66	0	0	66	
	Community WS	4,283	0	0	4,283	
	Thunderbird Country Club	55	0	0	55	
	Tannebaum Country Club	90	0	0	90	10,403
Millwood Lake, AR	SW Arkansas Water Dist.	6,000	0	0	6,000	
	Activate Future	8,150	0	0	8,150	
	Activate Future	14,150	0	0	14,150	
	Activate Future	1,698	0	0	1,698	
	Activate Future	2,830	0	0	2,830	
	Activate Future	11,320	0	0	11,320	
	Activate Future	396	0	0	396	
	Activate Future	11,886	0	0	11,886	
	Remaining storage under contract	93,570	0	0	93,570	150,000
Nimrod Lake, AR	City of Plainview	33	0	0	33	
	City of Plainview	110	0	0	110	143
Norfolk Lake, AR	City of Mountain Home	800	0	0	800	
	Activate Future	1,600	0	0	1,600	2,400
<b>11 projects</b>	<b>23 Agreements + 10 Activate Future</b>	<b>297,192</b>	<b>47,462</b>	<b>0</b>	<b>344,654</b>	<b>344,654</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwestern Division		SWL WS Storage Cost				Project WS Storage Cost (\$)
Project	User	WS Agreement Storage Cost (\$)				
		Present	Future	Not Under Contract	Total	
<b>Little Rock</b>						
Beaver Lake, AR	Beaver Water District	1,431,737	0	0	1,431,737	
	Activate Future	3,530,805	0	0	3,530,805	
	Carroll-Boone Water District	742,000	0	0	742,000	
	Madison Co., Water District	482,991	0	0	482,991	
	Benton/Washington Co. WD	1,097,137	0	0	1,097,137	7,284,670
Blue Mountain Lake, AR	City of Danville	226,021	0	0	226,021	226,021
Bull Shoals Lake, AR	Marion Co. Water District	84,979	0	0	84,979	
	Marion Do. Water District	280,861	0	0	280,861	365,840
Dardanell Lake, AR	AP&L NuclearOne [1]	0	0	0	0	0
DeQueen Lake, AR	Tri-Lakes Water District	293,151	11,900,000	0	12,193,151	12,193,151
Dierks Lake, AR	Marion Tri-County Water Dist.	44,100	4,462,747	0	4,506,847	4,506,847
Gillham Lake, AR	Tri-Lakes Water District	115,412	0	0	115,412	
	Activate Future	51,792	7,743,657	0	7,795,449	7,910,861
Greers Ferry Lake, AR	City of Herber Springs [2]	0	0	0	0	
	Clinton Water District	81,000	0	0	81,000	
	Community Water System	20,260	0	0	20,260	
	Community WS	457,804	0	0	457,804	
	Red Apple Inn & Country Club	8,427	0	0	8,427	
	Community WS	561,174	0	0	561,174	
	Thunderbird Country Club	6,514	0	0	6,514	
	Tannebaum Country Club	11,072	0	0	11,072	1,146,251
Millwood Lake, AR	SW Arkansas Water Dist.	783,760	0	0	783,760	
	Activate Future	742,908	0	0	742,908	
	Activate Future	1,348,700	0	0	1,348,700	
	Activate Future	161,900	0	0	161,900	
	Activate Future	269,800	0	0	269,800	
	Activate Future	1,079,100	0	0	1,079,100	
	Activate Future	37,700	0	0	37,700	
	Activate Future	272,279	0	0	272,279	
	Remaining storage under contract	0	20,364,735	0	20,364,735	25,060,882
Nimrod Lake, AR	City of Plainview	1,218	0	0	1,218	
	City of Plainview	21,967	0	0	21,967	23,185
Norfolk Lake, AR	City of Mountain Home	65,467	0	0	65,467	
	Activate Future	130,933	0	0	130,933	196,400
<b>11 projects</b>	<b>23 Agreements + 10 Activate Future</b>	<b>14,442,969</b>	<b>44,471,139</b>	<b>0</b>	<b>58,914,108</b>	<b>58,914,108</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Southwestern Division		SWL Remaining Principal Owed [3]			
Project	User	Amount Owed (\$)			District Percent
		Present	Future	Total	
<b>Little Rock</b>					
Beaver Lake, AR	Beaver Water District	322,177		322,177	
	Activate Future	2,782,642		2,782,642	
	Carroll-Boone Water District	463,640		463,640	
	Madison Co., Water District	293,937		293,937	
	Benton/Washington Co. WD	863,679		863,679	
Blue Mountain Lake, AR	City of Danville	194,457		194,457	
Bull Shoals Lake, AR	Marion Co. Water District	42,201		42,201	
	Marion Co. Water District	280,861		280,861	
Dardanell Lake, AR	AP&L NuclearOne [1]	0		0	
DeQueen Lake, AR	Tri-Lakes Water District	209,776	11,900,000	12,109,776	
Dierks Lake, AR	Marion Tri-County Water Dist.	22,433	4,462,747	4,485,180	
Gillham Lake, AR	Tri-Lakes Water District	69,048	0.000	69,048	
	Activate Future	43,887	7743657.000	7,787,544	
Greers Ferry Lake, AR	City of Herber Springs [2]	0		0	
	Clinton Water District	30,950		30,950	
	Community Water System	0		0	
	Community WS	0		0	
	Red Apple Inn & Country Club	6,162		6,162	
	Community WS	0		0	
	Thunderbird Country Club	4,831		4,831	
	Tannebaum Country Club	6,935		6,935	
Millwood Lake, AR	SW Arkansas Water Dist.	174,620		174,620	
	Activate Future	230,199		230,199	
	Activate Future	465,214		465,214	
	Activate Future	100,641		100,641	
	Activate Future	182,245		182,245	
	Activate Future	801,680		801,680	
	Activate Future	28,517		28,517	
	Activate Future	272,279	0.000	272,279	
	Remaining storage under contract	0	20,364,735	20,364,735	
Nimrod Lake, AR	City of Plainview	0		0	
	City of Plainview	15,269		15,269	
Norfolk Lake, AR	City of Mountain Home	21,425		21,425	
	Activate Future	58,798		58,798	
<b>11 projects</b>	<b>23 Agreements + 10 Activate Future</b>	<b>7,988,503</b>	<b>44,471,139</b>	<b>52,459,642</b>	<b>89%</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Southwestern Division		SWF WS Agreement Data			
Project Name	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
<b>Fort Worth</b>					
Aquilla Lake, TX	Brazos River Authority	Original	1976	0.97	5.116
	Activate Future			8.70	5.116
Bardwell Lake, TX	Trinity River Authority	Original	1963	2.80	2.936
	Activate Future		1969	2.80	2.936
	Activate Future		1969	2.80	2.936
	Activate Future		1969	2.80	2.936
Belton Lake, TX	Brazos River Auth.	Original	1958	35.32	2.500
	Activate Future		1958	66.01	2.500
Benbrook Lake, TX [1]	City of Ft. Worth	Surplus Water	1969	0.67	2.500
	Benbrook W&SA	Surplus Water	1972	0.67	2.500
	Benbrook W&SA	Surplus Water	1979	0.85	2.500
	Tarrant Reg. WD	Surplus Water	1991	4.54	9.125
Canyon Lake, TX	Guadalupe-Bianco R. Auth.	Original	1957	89.80	2.500
Cooper Dam & Jim Chapman Lake, TX	City of Irving	Original	1968	40.20	3.253
	N. Texas Muni. Water Dist.	Original	1968	40.20	3.253
	Sulphur R. MWD	Original	1868	17.75	3.253
	Activate Future		1868	21.50	3.253
Ferrells Bridge Dam, Lake O'The Pines, TX	N.E. Texas MWD	Original	1955	254.99	Paid in full
Granger Dam & Lake, TX	Brazos River Auth.	Original	1980	0.04	3.256
	Activate Future		1980	16.16	3.256
Grapevine, TX	City of Grapevine	Original	1953	0.16	3.130
	City of Dallas	Original	1954	10.91	3.130
	Dallas Co. Park	Original	1955	6.42	3.130
	City of Grapevine	Surplus Water	1981	3.21	8.605
Joe Pool Lake, TX	Trinity River Auth. (includes conduit cost of \$80,000)	Original	1977	14.20	5.116
Lavon Lake, TX	N. Texas MWD	Original	1967	24.21	2.500
	N. Texas MWD	Original	1967	29.05	3.225
	Supplement		1967	38.74	3.225
Lewisville Dam, TX	City of Dallas	Original	1980	157.00	3.000
	City of Denton	Original	1980	8.00	2.500
Navarro Mills Lake, TX	Trinity River Auth.	Original	1959	4.65	2.670
	Activate Future		1959	10.85	2.670
N. San Gabriel D&L (Georgetown), TX	Brazos River Auth. (Original was all Future)	Original	1981	10.30	3.253
	Activate Future (Seg #1)				
	Activate Future (Seg #2)				
	Activate Future (Seg #3)				
	Activate Future (Seg #4)				
	Activate Future (Seg #5)				
	Activate Future (Seg #6)				
	Activate Future (Seg #7)				
	Activate Future (Seg #8)				
	Activate Future (Seg #9)				
	Activate Future (Seg #10)				
	Activate Future (Seg #11)				

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwestern Division		SWF WS Agreement Data			
Project Name	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
	Activate Future (Seg #12)				
O C Fisher Dam & Lake, TX	Upper CO River Auth.	Original	1999	3.62	5.837
Proctor Lake, TX	Brazos River Auth.	Original	1960	2.78	5.166
	[2] Activate Future			11.12	6.089
Ray Roberts Lake, TX	City of Dallas	Original	1980	83.22	7.210
	[3] City of Denton	Original	1980	29.24	7.210
Sam Rayburn Dam & Reservoir, TX	City of Lufkin	Original	1969	16.90	2.591
	Activate Future			38.70	2.591
Somerville Lake, TX	Brazos River Auth.	Original	1962	1.81	2.742
	Activate Future			34.38	2.742
Stillhouse Hollow Dam, TX	Brazos River Auth.	Original	1962	8.25	2.742
	Activate Future			54.94	2.742
Waco Lake, TX	Brazos River Auth	Original	1958	56.83	7.229
	[4] City of Waco	Original	1958	8.12	14.607
	Brazos River Auth.	Reallocation	1984	29.65	2.087
Whitney Lake, TX	Brazos River Auth.	Original	1982	17.64	3.216
Wright Patman Dam & Lake, TX	City of Texarkana Cont # eng 2003	Original	1954	13.00	3.620
	City of Texarkana Cont # 0019	Conduit	1963	0.00	3.620
	City of Texarkana Cont. # C-0019	surplus	1968	50.00	3.620
<b>23 Projects</b>	<b>38 contracts + 25 Activate Future</b>			<b>1,387.47</b>	

[1] SWF, Benbrook: All contracts are surplus. Storage is from navigation pool and will be used by M&I until needed for navigation.

[2] SWF, Proctor: User has not activated storage but is paying P&I.

[3] SWF, Ray Roberts: On 6/18/98, city \$26,828,840 in principal and \$1,062,312 in interest. Additional payments not due at this time.

[4] SWF, Waco, City of Waco. The City transferred existing Lake Waco to the Government in return for use of the storage in the project at no cost.

[5] Remaining Principal owed (as applicable) includes, for the present use storage interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwestern Division		SFW WS Storage Space				Project WS Storage Space (acre-feet)
Project Name	User	WS Agreement Storage Space (acre-feet)			Total	
		Present	Future	Not Under Contract		
<b>Fort Worth</b>						
Aquilla Lake, TX	Brazos River Authority	3,360	0	0	3,360	
	Activate Future	30,240	0	0	30,240	33,600
Bardwell Lake, TX	Trinity River Authority	10,700	0	0	10,700	
	Activate Future	10,700	0	0	10,700	
	Activate Future	10,700	0	0	10,700	
	Activate Future	10,700	0	0	10,700	42,800
Belton Lake, TX	Brazos River Auth.	125,700	0	0	125,700	
	Activate Future	235,000	0	0	235,000	360,700
Benbrook Lake, TX [1]	City of Ft. Worth	7,250	0	0	7,250	
	Benbrook W&SA	7,250	0	0	7,250	
	Benbrook W&SA	9,208	0	0	9,208	
	Tarrant Reg. WD	48,792	0	0	48,792	72,500
Canyon Lake, TX	Guadalupe-Bianco R. Auth.	366,400	0	0	366,400	366,400
Cooper Dam & Jim Chapman Lake, TX	City of Irving	46,200	54,425	0	100,625	
	N. Texas Muni. Water Dist.	100,625	0	0	100,625	
	Sulphur R. MWD	17,750	0	0	17,750	
	Activate Future	54,000	0	0	54,000	273,000
Ferrells Bridge Dam, Lake O'The Pines, TX	N.E. Texas MWD	250,000	0	0	250,000	250,000
Granger Dam & Lake, TX	Brazos River Auth.	102	0	0	102	
	Activate Future	37,798	0	0	37,798	37,900
Grapevine, TX	City of Grapevine	1,250	0	0	1,250	
	City of Dallas	85,000	0	0	85,000	
	Dallas Co. Park	50,000	0	0	50,000	
	City of Grapevine	25,000	0	0	25,000	161,250
Joe Pool Lake, TX	Trinity River Auth. (includes conduit cost of \$80,000)	81,153	61,747	0	142,900	142,900
Lavon Lake, TX	N. Texas MWD	100,000	0	0	100,000	
	N. Texas MWD	120,000	0	0	120,000	
	Supplement	160,000	0	0	160,000	380,000
Lewisville Dam, TX	City of Dallas	310,000	0	0	310,000	
	City of Denton	21,000	0	0	21,000	331,000
Navarro Mills Lake, TX	Trinity River Auth.	15,960	0	0	15,960	
	Activate Future	37,240	0	0	37,240	53,200
N. San Gabriel D&L (Georgetown), TX	Brazos River Auth. (Orininal was all Future)	0	0	0	0	
	Activate Future (Seg #1)	101	0	0	101	
	Activate Future (Seg #2)	466	0	0	466	
	Activate Future (Seg #3)	1,559	0	0	1,559	
	Activate Future (Seg #4)	2,835	0	0	2,835	
	Activate Future (Seg #5)	5,670	0	0	5,670	
	Activate Future (Seg #6)	1,000	0	0	1,000	
	Activate Future (Seg #7)	1,416	0	0	1,416	
	Activate Future (Seg #8)	3,000	0	0	3,000	
	Activate Future (Seg. #9)	2,523	0	0	2,523	
	Activate Future (Seg #10)	4,905	0	0	4,905	
	Activate Future (Seg #11)	1,084	0	0	1,084	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwestern Division		SFW WS Storage Space				
Project Name	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
	Activate Future (Seg #12)	4,641	0	0	4,641	29,200
O C Fisher Dam & Lake, TX	Upper CO River Auth.	78,793	0	0	78,793	78,793
Proctor Lake, TX	Brazos River Auth.	6,280	0	0	6,280	
	[2] Activate Future	25,120	0	0	25,120	31,400
Ray Roberts Lake, TX	City of Dallas	591,700	0	0	591,700	
	[3] City of Denton	108,100	99,800	0	207,900	799,600
Sam Rayburn Dam & Reservoir, TX	City of Lufkin	18,000	0	0	18,000	
	Activate Future	25,000	0	0	25,000	43,000
Somerville Lake, TX	Brazos River Auth.	7,200	0	0	7,200	
	Activate Future	136,700	0	0	136,700	143,900
Stillhouse Hollow Dam, TX	Brazos River Auth.	26,740	0	0	26,740	
	Activate Future	178,160	0	0	178,160	204,900
Waco Lake, TX	Brazos River Auth	91,074	0	0	91,074	
	[4] City of Waco	13,026	0	0	13,026	
	Brazos River Auth.	47,526	0	0	47,526	151,626
Whitney Lake, TX	Brazos River Auth.	50,000	0	0	50,000	50,000
Wright Patman Dam & Lake, TX	City of Texarkana Cont # eng 2003	13,400	0	0	13,400	
	City of Texarkana Cont # 0019	0	0	0	0	
	City of Texarkana Cont. # C-0019	76,663	0	0	76,663	90,063
<b>23 Projects</b>	<b>38 contracts + 25 Activate Future</b>	<b>3,911,760</b>	<b>215,972</b>	<b>0</b>	<b>4,127,732</b>	<b>4,127,732</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Southwestern Division		SWF WS Storage Cost				
Project Name	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
<b>Fort Worth</b>						
Aquilla Lake, TX	Brazos River Authority	1,119,445	0	0	1,119,445	
	Activate Future	10,754,007	0	0	10,754,007	11,873,452
Bardwell Lake, TX	Trinity River Authority	825,360	0	0	825,360	
	Activate Future	822,647	0	0	822,647	
	Activate Future	822,647	0	0	822,647	
	Activate Future	822,647	0	0	822,647	3,293,301
Belton Lake, TX	Brazos River Auth.	1,524,091	0	0	1,524,091	
	Activate Future	3,600,909	0	0	3,600,909	5,125,000
Benbrook Lake, TX [1]	City of Ft. Worth	346,000	0	0	346,000	
	Benbrook W&SA	310,000	0	0	310,000	
	Benbrook W&SA	393,800	0	0	393,800	
	Tarrant Reg. WD	2,086,600	0	0	2,086,600	3,136,400
Canyon Lake, TX	Guadalupe-Bianco R. Auth.	8,978,861	0	0	8,979,861	8,979,861
Cooper Dam & Jim Chapman Lake, TX	City of Irving	4,277,484	4,980,153	0	9,257,637	
	N. Texas Muni. Water Dist.	20,077,613	0	0	20,077,613	
	Sulphur R. MWD	1,642,450	0	0	1,642,450	
	Activate Future	4,941,183	0	0	4,941,183	35,918,883
Ferrells Bridge Dam, Lake O'The Pines, TX	N.E. Texas MWD	3,200,000	0	0	3,200,000	3,200,000
Granger Dam & Lake, TX	Brazos River Auth.	39,345	0	0	39,345	
	Activate Future	14,579,855	0	0	14,579,855	14,619,200
Grapevine, TX	City of Grapevine	22,654	0	0	22,654	
	City of Dallas	1,433,026	0	0	1,433,026	
	Dallas Co. Park	683,547	0	0	683,547	
	City of Grapevine	683,547	0	0	683,547	2,822,774
Joe Pool Lake, TX	Trinity River Auth. (includes conduit cost of \$80,000)	32,913	25,122		58,035	58,035
Lavon Lake, TX	N. Texas MWD	1,256,300	0	0	1,256,300	
	N. Texas MWD	12,147,801	0	0	12,147,801	
	Supplement	16,185,427	0	0	16,185,427	29,589,528
Lewisville Dam, TX	City of Dallas	3,676,661	0	0	3,676,661	
	City of Denton	250,064	0	0	250,064	3,926,725
Navarro Mills Lake, TX	Trinity River Auth.	652,827	0	0	652,827	
	Activate Future	1,523,262	0	0	1,523,262	2,176,089
N. San Gabriel D&L (Georgetown), TX	Brazos River Auth. (Orininal was all Future)	0	283,839	0	283,839	
	Activate Future (Seg #1)	20,807	0	0	20,807	
	Activate Future (Seg #2)	95,978	0	0	95,978	
	Activate Future (Seg #3)	321,131	0	0	321,131	
	Activate Future (Seg #4)	583,870	0	0	583,870	
	Activate Future (Seg #5)	1,167,680	0	0	1,167,680	
	Activate Future (Seg #6)	31,494	0	0	31,494	
	Activate Future (Seg #7)	291,664	0	0	291,664	
	Activate Future (Seg #8)	508,131	0	0	508,131	
	Activate Future (Seg. #9)	519,738	0	0	519,738	
	Activate Future (Seg #10)	1,010,430	0	0	1,010,430	
	Activate Future (Seg #11)	223,304	0	0	223,304	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwestern Division		SWF WS Storage Cost				
Project Name	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
	Activate Future (Seg #12)	955,634	0	0	955,634	6,013,700
O C Fisher Dam & Lake, TX	Upper CO River Auth.	860,437	0	0	860,437	860,437
Proctor Lake, TX	Brazos River Auth.	262,765	0	0	262,765	
	[2] Activate Future	1,051,062	0	0	1,051,062	1,313,827
Ray Roberts Lake, TX	City of Dallas	165,342,765	0	0	165,342,765	
	[3] City of Denton	31,355,656	28,954,065	0	60,309,721	225,652,486
Sam Rayburn Dam & Reservoir, TX	City of Lufkin	220,000	0	0	220,000	
	Activate Future	305,600	0	0	305,600	525,600
Somerville Lake, TX	Brazos River Auth.	360,113	0	0	360,113	
	Activate Future	6,837,339	0	0	6,837,339	7,197,452
Stillhouse Hollow Dam, TX	Brazos River Auth.	911,229	0	0	911,229	
	Activate Future	6,215,435	0	0	6,215,435	7,126,664
Waco Lake, TX	Brazos River Auth	39,600,000	0	0	39,600,000	
	[4] City of Waco	0	0	0	0	
	Brazos River Auth.	15,242,000	0	0	15,242,000	54,842,000
Whitney Lake, TX	Brazos River Auth.	1,181,440	0	0	1,181,440	1,181,440
Wright Patman Dam & Lake, TX	City of Texarkana Cont # eng 2003	350,000	0	0	350,400	
	City of Texarkana Cont # 0019	1,437,647	0	0	1,437,647	
	City of Texarkana Cont. # C-0019	1,437,647	0	0	1,437,647	3,225,694
<b>23 Projects</b>	<b>38 contracts + 25 Activate Future</b>	<b>398,413,969</b>	<b>34,243,179</b>	<b>0</b>	<b>432,658,548</b>	<b>432,658,548</b>

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Southwestern Division		SWF Remaining Principal Owed [5]			
Project Name	User	Amount Owed (\$)			District Percent
		Present	Future	Total	
<b>Fort Worth</b>					
Aquilla Lake, TX	Brazos River Authority	803,249	0	803,249	
	Activate Future	8,281,207	0	8,281,207	
Bardwell Lake, TX	Trinity River Authority	148,080	0	148,080	
	Activate Future	287,088	0	287,088	
	Activate Future	359,740	0	359,740	
	Activate Future	287,088	0	287,088	
Belton Lake, TX	Brazos River Auth.	0	0	0	
	Activate Future	1,304,677	0	1,304,677	
Benbrook Lake, TX [1]	City of Ft. Worth	104,165	0	104,165	
	Benbrook W&SA	101,462	0	101,462	
	Benbrook W&SA	211,325	0	211,325	
	Tarrant Reg. WD	0	0	0	
Canyon Lake, TX	Guadalupe-Bianco R. Auth.	4,023,562	0	4,023,562	
Cooper Dam & Jim Chapman Lake, TX	City of Irving	3,177,442	4,980,153	8,157,595	
	N. Texas Muni. Water Dist.	8,164,879	0	8,164,879	
	Sulphur R. MWD	1,240,179	0	1,240,179	
	Activate Future	10,531,318	0	10,531,318	
Ferrells Bridge Dam, Lake O'The Pines, TX	N.E. Texas MWD	0	0	0	
Granger Dam & Lake, TX	Brazos River Auth.	31,500	0	31,500	
	Activate Future	11,773,204	0	11,773,204	
Grapevine, TX	City of Grapevine	0	0	0	
	City of Dallas	0	0	0	
	Dallas Co. Park	0	0	0	
	City of Grapevine	0	0	0	
Joe Pool Lake, TX	Trinity River Auth. (includes conduit cost of \$80,000)	16,457	25,122	41,579	
Lavon Lake, TX	N. Texas MWD	0	0	0	
	N. Texas MWD	826,595	0	826,595	
	Supplement	10,403,574	0	10,403,574	
Lewisville Dam, TX	City of Dallas	0	0	0	
	City of Denton	0	0	0	
Navarro Mills Lake, TX	Trinity River Auth.	0	0	0	
	Activate Future	0	0	0	
N. San Gabriel D&L (Georgetown), TX	Brazos River Auth. (Orininal was all Future)	0	283,839	283,839	
	Activate Future (Seg #1)	16,422	0	16,422	
	Activate Future (Seg #2)	77,362	0	77,362	
	Activate Future (Seg #3)	263,976	0	263,976	
	Activate Future (Seg #4)	479,952	0	479,952	
	Activate Future (Seg #5)	1,010,651	0	1,010,651	
	Activate Future (Seg #6)	25,675	0	25,675	
	Activate Future (Seg #7)	279,330	0	279,330	
	Activate Future (Seg #8)	421,749	0	421,749	
	Activate Future (Seg. #9)	0	0	0	
	Activate Future (Seg #10)	0	0	0	
	Activate Future (Seg #11)	0	0	0	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwestern Division		SWF Remaining Principal Owed [5]			
Project Name	User	Amount Owed (\$)			
		Present	Future	Total	District Percent
	Activate Future (Seg #12)	0	0	0	
O C Fisher Dam & Lake, TX	Upper CO River Auth.	0	0	0	
Proctor Lake, TX	Brazos River Auth.	28,996	0	28,996	
[2]	Activate Future	386,176	0	386,176	
Ray Roberts Lake, TX	City of Dallas	0	0	0	
[3]	City of Denton	2,907,913	28,954,065	31,861,978	
Sam Rayburn Dam & Reservoir, TX	City of Lufkin	55,723	0	55,723	
	Activate Future	46,502	0	46,502	
Somerville Lake, TX	Brazos River Auth.	132,194	0	132,194	
	Activate Future	3,398,757	0	3,398,757	
Stillhouse Hollow Dam, TX	Brazos River Auth.	210,763	0	210,763	
	Activate Future	1,578,601	0	1,578,601	
Waco Lake, TX	Brazos River Auth	728,827	0	728,827	
[4]	City of Waco	0	0	0	
	Brazos River Auth.	0	0	0	
Whitney Lake, TX	Brazos River Auth.	0	0	0	
Wright Patman Dam & Lake, TX	City of Texarkana Cont # eng 2003	0	0	0	
	City of Texarkana Cont # 0019	324,631	0	324,631	
	City of Texarkana Cont. # C- 0019	0	0	0	
<b>23 Projects</b>	<b>38 contracts + 25 Activate Future</b>	<b>74,450,991</b>	<b>34,243,179</b>	<b>108,694,170</b>	<b>25%</b>

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
Arcadia Lake, OK	Edmond PWA	Original	1979	11.00	7.210
<b>Birch</b>	<b>OKWRB</b>	<b>Assurance</b>	<b>NA</b>	<b>3.00</b>	<b>3.469</b>
	<b>OKWRB</b>	<b>Contuit</b>	<b>NA</b>	<b>NA</b>	<b>3.469</b>
Broken Bow Lake, OK	OK Tourism & Recreation (includes conduit cost of \$59)	Original	1988	0.07	2.742
	Broken Bow PWA (includes conduit cost of \$8,908)	Original	1990	9.52	
	<b>Unknown</b>	<b>Assurance</b>	<b>NA</b>	<b>165.34</b>	
Canton Lake, OK	OK City Muni. Imp. Auth	Original	1991	4.60	2.500
Copan Lake, OK	Copan PWA	Original	1981	2.00	3.502
Council Grove, KA	KS Water Res. Board	Original	1976	6.00	2.699
	State of KS [1]	Reallocation	1996	0.70	2.699
Denison Dam, L. Texoma, OK & TX	City of Denison, TX	Reallocation	1953	21.30	2.500
	TU Electirc	Reallocation	1961	16.40	2.500
	Red River Auth. of TX [2]	Reallocation	1969	0.45	2.500
	Red River Auth. of TX	Reallocation	1983	2.05	?
	N. Texas MWD	Reallocation	1985	84.10	?
	Buncombe Creek View Ad	Reallocation	1992	0.00	?
	Greater Texoma Utility Auth.	Reallocation	1992	5.50	?
	Greater Texoma Utility Auth.	Reallocation	1979	5.50	?
	Commissioners of Land Office, OK	Reallocation	2005	0.29	?
	Greater Texoma Utility Auth.	Reallocation	2005	11.60	5.125
	North Texas Municipal Water District	Reallocation	2010	91.67	4.125
	Greater Texoma Utility Auth.	Reallocation	2010	45.83	4.125
El Dorado Lake, KA	City of El Dorado (includes conduit cost of \$838,200) [3]	Original	1972	6.19	3.502
	Activate Future		1972	1.81	
	Activate Future		2003	2.99	
Elk City, KA	State Of KS (includes conduit cost of \$68,000)	Original	1976`	10.00	2.742
	State of KS [1]	Reallocation	1996	2.20	2.742
Eufaula Lake, OK	Pittsburg Co. Water Co.	Original	1968	0.76	2.591
	Haskell County Water Co.	Original	1968	0.35	
	RWD #1, Haskell Co	Original	1969	0.36	
	RWD #4, Pittsburg Co.	Original	1969	0.04	
	RWD #3, Muskogee Co.	Original	1969	0.01	
	Porum PWA	Original	1969	0.11	
	Sherwood Forrest Co.	Original	1971	0.05	
	Lakeside Water Co., Inc	Original	1971	0.02	
	RWD #3, IHaskell County	Original	1974	0.02	
	Krebs Utility Auth.	Original	1980	0.25	
	RWD #8 McIntosh Co.#8	Original	1981	0.29	
	Activate Future		1981	1.07	
	Porum PWA	Original	1981	0.25	
	Pittsburg Co. PWA	Original	1981	0.27	
	Activate Future		1981	0.17	
	Longtown RWD & SD #1 (includes conduit cost of \$475)	Original	1985	0.89	
	Public Service Co. of OK (includes conduit cost of \$49)	Original	1985	0.09	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
	McAlester PWA (includes conduit cost of \$3,1620)	Original	1987	5.58	
	Bristow Point Property Owners Assoc.	Original	1989	0.01	
	Warner Utilities Auth. (includes conduit cost of \$104)	Original	1989	0.20	
	Twin Rivers Estates, Inc. (includes conduit cost of \$13)	Original	1990	0.01	
	Bridgeport Dunes Condo Assoc. (includes conduit cost of \$3)	Original	1990	0.01	
	RWD #14, Pittsburg Co. (includes conduit cost of \$176)	Original	1991	0.29	
	Duchess Creek Mobile Park (includes conduit cost of \$2)	Original	1992	0.00	
	Warner Utilities Auth. (includes conduit cost of \$104)	Original	1996	0.42	
	RWD No. 2, Onapa (includes conduit cost of \$658)	Original	1998	0.89	
	Juniper Water Co. (includes conduit cost of \$8,7170)	Original	2001	10.66	
	RWD #3 Muskogee Co. (includes conduit cost of \$132)	Original	2009	0.13	
	City of Checotah 1 (includes conduit cost of \$1,400)	Original	2009	1.43	
	RWD #3, Muskogee Co.	Original	2009	0.05	
	B&B Gas Wells	Original	2009	0.01	
	OK Tourist & Rec Dept, OK	Original	2010	0.01	
	OK Tourist & Rec Dept, OK	Original	2010	0.06	
	City of Eufaula	Original	2010	0.50	
	<b>Not Under Contract</b>	<b>Assurance</b>	<b>NA</b>	<b>23.49</b>	<b>NA</b>
Heyburn, OK	Creek Co. RWD #1 (includes conduit cost of \$51,250)	Original	1964	0.26	2.500
	Creek Co. RWD #1	Original	1968	0.51	
	Creek Co. RWD #1	Original	1978	0.93	
Hugo Lake, OK	City of Hugo (includes \$32,800 for conduit present use)	Original	1974	2.00	3.225
	Antlers Public Works Auth.	Original	1975	1.21	
	Western Farmers Elect. Coop	Original	1980	7.43	
	Activate Future		2006	17.35	
	RWD #3, Pushmataha Co.	Original	1994	0.62	
	<b>OWRB [4]</b>	<b>Assurance</b>	<b>NA</b>	<b>2.68</b>	<b>NA</b>
Hula, OK	City of Bartlesville (includes conduit cost of \$5,280)	Original	1957	9.64	2.500
	Activate Future		1970	1.34	
	Hula Water District	Original	1970	0.06	
	City of Bartlesville	Original	1982	1.32	
John Redmond, KA	KS Water Res. Board (includes conduit cost of \$10,000)	Original	1975	53.70	2.670
	State of KS [1]	Reallocation	1996	2.50	
Kaw Lake, OK	Kaw Reservoir Auth.	Conduit	1980	0.00	3.222
	Stillwater Utility Authority	Original	1981	6.50	
	Otoe-Missouria	Original	1993	0.17	
	OK Gas & Electric	Original	2007	8.90	
	Activate Future		2007	8.24	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
	Activate Future		2007	21.22	
	<b>Not Under Contract [5]</b>	<b>Assurance</b>	<b>NA</b>	<b>78.25</b>	<b>NA</b>
Keystone Lake, OK	Public Service Co. of OK	Original	1971	7.00	2.591
	Activate Future		1971	5.50	
	<b>OWRB (includes conduit cost of \$28,300)</b>	<b>Assurance</b>	<b>NA</b>	<b>2.00</b>	<b>NA</b>
Marion, KA	State of Kansas	Original	1976	6.94	3.046
	Stage of Kansas	Reallocation	1996	2.23	
Oologah	Town of Chelsea	Original	1982	1.05	3.225
	City of Tulsa	Conduit	1985	0.00	2.544
	City of Tulsa	Original	1985	NA	2.544
	Activate Future		1985	17.10	3.225
	Activate Future		1985	2.92	3.225
	Activate Future		1985	2.00	3.225
	Activate Future		1985	88.40	3.225
	City of Collinsville	Original	1985	0.22	2.500
	Activate Future		1985	2.77	3.225
	Public Service Co. of OK	Original	1985	2.25	2.544
	Activate Future		1985	7.19	3.225
	RWD #4, Rogers Co.	Original	1985	0.13	2.544
	Activate Future		1985	0.58	3.225
	RWS #3 Rogers Co.	Original	1985	0.27	2.544
	Activate Future		1985	2.41	3.225
	RWD # 1, Nowata County	Original	1985	0.04	2.500
	Activate Future		1989	0.04	?
	RWD #3, Washington Co.	Original	1992	1.87	3.225
	Claremore Public Works Auth	Original	1988	0.20	3.225
	Claremore Public Works Auth	Original	1999	2.80	3.225
	Public Service Col of OK	Original	2009	4.33	3.225
Pat Mayse Lake, TX	City of Paris (includes a conduit cost of \$10,000)	Original	1965	11.00	3.137
	Activate Future		1978	33.00	
Pearson - Skubitz Big Hill Lake, KS	State of KS	Original	1973	8.50	4.012
	<b>Not Under Contract</b>	<b>Conduit</b>	<b>NA</b>	<b>0.00</b>	
Pine Creek Lake, OK	Weyerhaeuser	Original	1970	25.00	2.936
	Activate Future		1970	23.98	2.936
Sardis Lake, OK	OK Water Res. Board (includes a conduit cost of \$602,258) [6]	Original	1974	140.00	4.012
Skiatook Lake, OK	RWD #15, Osage Co.	Conduit	1984	0.00	4.012
	RWD #15, Osage Co	Original	1987	0.44	
	Sand Springs Municipal Auth.	Original	1988	1.50	
	Sapulpa Municipal Auth.	Original	1988	1.00	
	Activate Future		1988	0.50	
	Skiatook PWA	Original	1998	0.45	
	Skiatook PWA	Original	1988	0.61	
	Sapulpa Municipal Auth.	Original	2002	1.00	
	Sands Springs Municipal Auth.	Original	2005	2.50	
	Sapulpa Municipal Auth.	Original	20005	1.00	
	<b>OK Water Res. Board</b>	<b>Assurance</b>	<b>NA</b>	<b>5.50</b>	<b>NA</b>
Tenkiller Ferry Lake, OK	East Central OK Water Auth.	Reallocation	1964	0.31	2.500

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Southwester Division: Tulsa District		SWT WS Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)
	RWD #2, Cherokee Co. [7]	Reallocation	1967	0.10	2.500
	Sequoyah Fuels	Reallocation	1970	14.68	2.500
	Summit Water Inc. [7]	Reallocation	1971	0.15	2.500
	Paradise Hills, Inc. [7]	Reallocation	1974	0.23	2.500
	Lake Tenkiller Associates [7]	Reallocation	1980	0.21	6.595
	L. Reg. Elec. Dev. Coop. Inc.	Reallocation	1989	0.04	8.250
	Tenkiller Aqua Park	Reallocation	1990	0.02	8.250
	Gore Public Works Auth.	Reallocation	1990	0.50	8.250
	Mongold Water System	Reallocation	1990	0.01	8.250
	L. Reg. Elec. Dev. Coop. Inc.	Reallocation	1991	0.03	9.125
	Pettit Bay Water Association	Reallocation	1991	0.01	9.125
	Fin and Feather Resort	Reallocation	1992	0.13	8.125
	Sixshooter Water System	Reallocation	1992	0.01	8.125
	Billy Joe Stewart	Reallocation	1992	0.01	8.125
	Bill Richardson	Reallocation	1992	0.00	8.125
	Indian Hills Estates Company	Reallocation	1993	0.01	7.500
	J.R. Mosteller	Reallocation	1993	0.01	7.500
	L. Reg. Elec. Dev. Coop. Inc.	Reallocation	1994	0.03	6.125
	L. Reg. Elec. Dev. Coop. Inc.	Reallocation	1994	0.01	6.125
	Burnt Cabin RWD Inc.	Reallocation	1994	0.01	6.125
	Sunny Heights Water System	Reallocation	1995	0.01	7.750
	Tenkiller Development Co.	Reallocation	1995	0.00	6.125
	Charles Willige	Reallocation	1996	0.01	7.500
	Petit Mountain Water Association	Surplus	2003	0.01	?
	RWD #13 Cherokee Co.	Reallocation	2004	0.14	5.500
	Tahlequah PWA	Reallocation	2005	4.50	5.125
	Stick Ross Mountain Water Co.	Reallocation	2005	0.62	5.125
	Greenleaf Nursery Co. [8]	Interim Irr.	2005	0.32	?
	RWD #2, Cherokee County [7]	Reallocation	2007	0.10	4.875
	RWD #13, Cherokee, County	Reallocation	2007	0.10	4.875
	Greenleaf Nursery Company	Interium Irrig	2008	2.22	?
Toronto Lake, KS	City of Toronto	Reallocation	1965	0.08	2.584
	City of Toronto	Reallocation	1982	0.04	
Waurika Lake, OK	Waurika Project Master Conservation District (includes conduit cost of \$222,991)	Original	1970	10.00	3.463
	Waurika PMC Dist Eastern	Conduit	1978	0.00	
	Waurika PMC Dist Southern	Conduit	1978	0.00	
	Waurika PMC Dist Western	Conduit	1978	0.00	
	Waurola PMCD	Original	2010	26.20	
Wister Lake, OK	Heavener Utility Auth. [9]	Modified Reallo	2007	2.28	2.500
	Poteau Valley Improvement Auth.	Reallocation	1967	6.85	2.5
	AES Shady Point, Incorporated	Reallocation	1987	10.36	9.920
<b>27 projects</b>	<b>140 agreements + 21 Activate Future</b>			<b>1280.26</b>	

[1] SWT, Council Grove, Elk City, John Redmond, Marion, Water quality storage was reallocated and costs in this agreement developed under the MOU with the State of Kansas. Storage costs based on original construction or sunk costs of the reallocated water quality storage

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Southwester Division: Tulsa District		SWT WS Agreement Data			
Project	User	Agreement			
		Type	Date	Yield (MGD)	Interest Rate (%)

[2] SWT, Denison Dam, No cost computations included in the 1969 contract. The practice at that time, however, was to use original or sunk costs on a use-of-facilities cost allocation basis.

[3] SWT, El Dorado. City traded lands for the project, they pay only O&M on this increment.

[4] SWT, Hugo, NUC. TMH assumed \$57.32/AF for price.

[5] SWT, Kaw Lake, NUC. TMH assumed \$229.74/AF for price.

[6] SWT, Sardis Lake. Agreement was in litigation since 1990's for non-payment. Following a court settlement, final payment was made June 2010.

[7] SWT, Tenkiller Lake, East Central OK Water Auth, Cherokee Co., RWD #13 & #2, Sequoyah County Water Assn, Sequoia Fules, Summit Water Inc., Paradise Hills and Lake Tenkiller Associates. Costs based on revision to the 1969 cost allocation; flood control costs were reduced and assigned to water supply since storage was reassigned from the flood control pool.

[8] SWT, Tenkiller Lake, Greenleaf Nursery. Assigned to WS under Sec 931, PL 99-662 (interim use of water supply for irrigation). Cost based on original cost of storage.

[9] SWT, Wister, Heavener Utility Auth. This 2007 agreement replaced the original 1963 agreement. Total amount of agreement, total repaid and amount remaining have been adjusted to show the sum of the two agreements.

[10] Remaining Principal owed (as applicable) includes, for the present use storage, interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Storage Space				
Project	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
Arcadia Lake, OK	Edmond PWA	23,090	0	0	23,090	23,090
<b>Birch</b>	<b>OKWRB</b>	<b>0</b>	<b>0</b>	<b>7,630</b>	<b>7,630</b>	
	<b>OKWRB</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,630</b>
Broken Bow Lake, OK	OK Tourism & Recreation (includes conduit cost of \$59)	60	0	0	60	
	Broken Bow PWA (includes conduit cost of \$8,908)	4,241	4,054	0	8,295	
	<b>Unknown</b>	<b>0</b>	<b>0</b>	<b>144,085</b>	<b>144,085</b>	<b>152,440</b>
Canton Lake, OK	OK City Muni. Imp. Auth	90,000	0	0	90,000	90,000
Copan Lake, OK	Copan PWA	250	4,750	0	5,000	5,000
Council Grove, KA	KS Water Res. Board	24,400	0	0	24,400	
	State of KS [1]	8,000	0	0	8,000	32,400
Denison Dam, L. Texoma, OK & TX	City of Denison, TX	21,300	0	0	21,300	
	TU Electirc	16,400	0	0	16,400	
	Red River Auth. of TX [2]	450	0	0	450	
	Red River Auth. of TX	2,054	0	0	2,054	
	N. Texas MWD	84,099	0	0	84,099	
	Buncombe Creek View Ad	1	0	0	1	
	Greater Texoma Utility Auth.	5,500	0	0	5,500	
	Greater Texoma Utility Auth.	5,500	0	0	5,500	
	Commissioners of Land Office, OK	275	0	0	275	
	Greater Texoma Utility Auth.	11,600	0	0	11,600	
	North Texas Municipal Water District	100,000	0	0	100,000	
	Greater Texoma Utility Auth.	50,000	0	0	50,000	297,179
El Dorado Lake, KA	City of El Dorado (includes conduit cost of \$838,200) [3]	39,793	0	0	39,793	
	Activate Future	11,666	0	0	11,666	
	Activate Future	19,254	72,080	0	91,334	142,793
Elk City, KA	State Of KS (includes conduit cost of \$68,000)	24,300	0	0	24,300	
	State of KS [1]	10,000	0	0	10,000	34,300
Eufaula Lake, OK	Pittsburg Co. Water Co.	850	0	0	850	
	Haskell County Water Co.	400	0	0	400	
	RWD #1, Haskell Co	50	0	0	50	
	RWD #4, Pittsburg Co.	50	0	0	50	
	RWD #3, Muskogee Co.	100	0	0	100	
	Porum PWA	125	0	0	125	
	Sherwood Forrest Co.	60	0	0	60	
	Lakeside Water Co., Inc	20	0	0	20	
	RWD #3, IHaskell County	25	0	0	25	
	Krebs Utility Auth.	280	0	0	280	
	RWD #8 McIntosh Co.#8	300	0	0	300	
	Activate Future	1,200	0	0	1,200	
	Porum PWA	280	129	0	409	
	Pittsburg Co. PWA	300	0	0	300	
	Activate Future	190	0	0	190	
	Longtown RWD & SD #1 (includes conduit cost of \$475)	1,000	0	0	1,000	
	Public Service Co. of OK (includes conduit cost of \$49)	0	100	0	100	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Storage Space				
Project	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
	McAlester PWA (includes conduit cost of \$3,1620)	6,250	0	0	6,250	
	Bristow Point Property Owners Assoc.	15	0	0	15	
	Warner Utilities Auth. (includes conduit cost of \$13)	220	0	0	220	
	Twin Rivers Estates, Inc. (includes conduit cost of \$3)	9	0	0	9	
	Bridgeport Dunes Condo Assoc. (includes conduit cost of \$3)	5	0	0	5	
	RWD #14, Pittsburg Co. (includes conduit cost of \$176)	320	0	0	320	
	Duchess Creek Mobile Park (includes conduit cost of \$2)	4	0	0	4	
	Warner Utilities Auth. (includes conduit cost of \$104)	475	0	0	475	
	RWD No. 2, Onapa (includes conduit cost of \$658)	1,000	0	0	1,000	
	Juniper Water Co. (includes conduit cost of \$8,7170)	12,040	0	0	12,040	
	RWD #3 Muskogee Co. (includes conduit cost of \$132)	150	0	0	150	
	City of Checotah 1 (includes conduit cost of \$1,400)	1,600	0	0	1,600	
	RWD #3, Muskogee Co.	50	0	0	50	
	B&B Gas Wells	12	0	0	12	
	OK Tourist & Rec Dept, OK	98	0	0	98	
	OK Tourist & Rec Dept, OK	75	0	0	75	
	City of Eufaula	511	0	0	511	
	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>27,707</b>	<b>27,707</b>	<b>56,000</b>
Heyburn, OK	Creek Co. RWD #1 (includes conduit cost of \$51,250)	300	0	0	300	
	Creek Co. RWD #1	600	0	0	600	
	Creek Co. RWD #1	1,100	0	0	1,100	2,000
Hugo Lake, OK	City of Hugo (includes \$32,800 for conduit present use)	1,640	18,880	0	20,520	
	Antlers Public Works Auth.	490	430	0	920	
	Western Farmers Elect. Coop	6,100	0	0	6,100	
	Activate Future	17,350	0	0	17,350	
	RWD #3, Pushmataha Co.	512	0	0	512	
	<b>OWRB [4]</b>	<b>0</b>	<b>0</b>	<b>2,198</b>	<b>2,198</b>	<b>47,600</b>
Hula, OK	City of Bartlesville (includes conduit cost of \$5,280)	15,400	0	0	15,400	
	Activate Future	2,200	0	0	2,200	
	Hula Water District	100	0	0	100	
	City of Bartlesville	2,100	0	0	2,100	19,800
John Redmond, KA	KS Water Res. Board (includes conduit cost of \$10,000)	34,900	0	0	34,900	
	State of KS [1]	10,000	0	0	10,000	44,900
Kaw Lake, OK	Kaw Reservoir Auth.	0	0	0	0	
	Stillwater Utility Authority	6,662	44,788	0	51,450	
	Otoe-Missouria	183	0	0	183	
	OK Gas & Electric	9,150	0	0	9,150	
	Activate Future	8,439	0	0	8,439	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Storage Space				
Project	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
	Activate Future	21,761	0	0	21,761	
	<b>Not Under Contract [5]</b>	<b>0</b>	<b>0</b>	<b>80,217</b>	<b>80,217</b>	<b>171,200</b>
Keystone Lake, OK	Public Service Co. of OK	7,000	5,500	0	12,500	
	Activate Future	5,500	0	0	5,500	
	<b>OWRB (includes conduit cost of \$28,300)</b>	<b>0</b>	<b>0</b>	<b>2,000</b>	<b>2,000</b>	<b>20,000</b>
Marion, KA	State of Kansas	38,300	0	0	38,300	
	Stage of Kansas	12,500	0	0	12,500	50,800
Oologah	Town of Chelsea	670	860	0	1,530	
	City of Tulsa	0	0	0	0	
	City of Tulsa	NA	NA	NA	NA	
	Activate Future	38,000	0	0	38,000	
	Activate Future	6,500	0	0	6,500	
	Activate Future	44,500	0	0	44,500	
	Activate Future	196,450	0	0	196,450	
	City of Collinsville	500	0	0	500	
	Activate Future	6,170	0	0	6,170	
	Public Service Co. of OK	5,000	0	0	5,000	
	Activate Future	15,990	0	0	15,990	
	RWD #4, Rogers Co.	300	0	0	300	
	Activate Future	1,290	0	0	1,290	
	RWS #3 Rogers Co.	600	0	0	600	
	Activate Future	5,360	0	0	5,360	
	RWD # 1, Nowata County	100	0	0	100	
	Activate Future	100	0	0	100	
	RWD #3, Washington Co.	4,170	0	0	4,170	
	Claremore Public Works Auth	445	0	0	445	
	Claremore Public Works Auth	6,230	0	0	6,230	
	Public Service Col of OK	9,135	0	0	9,135	342,370
Pat Mayse Lake, TX	City of Paris (includes a conduit cost of \$10,000)	21,900	0	0	21,900	
	Activate Future	21,900	65,800	0	87,700	109,600
Pearson - Skubitz Big Hill Lake, KS	State of KS	9,200	16,500	0	25,700	
	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,700</b>
Pine Creek Lake, OK	Weyerhaeuser	14,700	0	0	14,700	
	Activate Future	2,940	11,160	0	14,100	28,800
Sardis Lake, OK	OK Water Res. Board (includes a conduit cost of \$602,258) [6]	141,700	155,500	0	297,200	297,200
Skiatook Lake, OK	RWD #15, Osage Co.	0	0	0	0	0
	RWD #15, Osage Co	0	2,000	0	2,000	0
	Sand Springs Municipal Auth.	6,740	0	0	6,740	
	Sapulpa Municipal Auth.	2,245	0	0	2,245	
	Activate Future	2,245	0	0	2,245	
	Skiatook PWA	2,018	0	0	2,018	
	Skiatook PWA	2,743	0	0	2,743	
	Sapulpa Municipal Auth.	4,500	0	0	4,500	
	Sands Springs Municipal Auth.	11,250	0	0	11,250	
	Sapulpa Municipal Auth.	4,500	0	0	4,500	
	<b>OK Water Res. Board</b>	<b>0</b>	<b>0</b>	<b>24,659</b>	<b>24,659</b>	<b>62,900</b>
Tenkiller Ferry Lake, OK	East Central OK Water Auth.	300	0	0	300	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Storage Space				
Project	User	WS Agreement Storage Space (acre-feet)				Project WS Storage Space (acre-feet)
		Present	Future	Not Under Contract	Total	
	RWD #2, Cherokee Co. [7]	100	0	0	100	
	Sequoyah Fuels	14,000	0	0	14,000	
	Summit Water Inc. [7]	140	0	0	140	
	Paradise Hills, Inc. [7]	220	0	0	220	
	Lake Tenkiller Associates [7]	200	0	0	200	
	L. Reg. Elec. Dev. Coop. Inc.	38	0	0	38	
	Tenkiller Aqua Park	17	0	0	17	
	Gore Public Works Auth.	480	0	0	480	
	Mongold Water System	5	0	0	5	
	L. Reg. Elec. Dev. Coop. Inc.	34	0	0	34	
	Pettit Bay Water Association	5	0	0	5	
	Fin and Feather Resort	12	0	0	12	
	Sixshooter Water System	2	0	0	2	
	Billy Joe Stewart	6	0	0	6	
	Bill Richardson	1	0	0	1	
	Indian Hills Estates Company	3	0	0	3	
	J.R. Mosteller	2	0	0	2	
	L. Reg. Elec. Dev. Coop. Inc.	30	0	0	30	
	L. Reg. Elec. Dev. Coop. Inc.	15	0	0	15	
	Burnt Cabin RWD Inc.	12	0	0	12	
	Sunny Heights Water System	10	0	0	10	
	Tenkiller Development Co.	3	0	0	3	
	Charles Willige	2	0	0	2	
	Petit Mountain Water Association	10	0	0	10	
	RWD #13 Cherokee Co.	132	0	0	132	
	Tahlequah PWA	4,300	0	0	4,300	
	Stick Ross Mountain Water Co.	584	0	0	584	
	Greenleaf Nursery Co. [8]	300	0	0	300	
	RWD #2, Cherokee County [7]	99	0	0	99	
	RWD #13, Cherokee, County	100	0	0	100	
	Greenleaf Nursery Company	2,120	0	0	2,120	23,282
Toronto Lake, KS	City of Toronto	265	0	0	265	
	City of Toronto	135	0	0	135	400
Waurika Lake, OK	Waurika Project Master Conservation District (includes conduit cost of \$222,991)	41,800	0	0	41,800	
	Waurika PMC Dist Eastern	0	0	0	0	
	Waurika PMC Dist Southern	0	0	0	0	
	Waurika PMC Dist Western	0	0	0	0	
	Wauola PMCD	109,600	0	0	109,600	151,400
Wister Lake, OK	Heavener Utility Auth. [9]	1,766	0	0	1,766	
	Poteau Valley Improvement Auth.	4,800	0	0	4,800	
	AES Shady Point, Incorporated	7,253	0	0	7,253	13,819
<b>27 projects</b>	<b>140 agreements + 21 Activate Future</b>	<b>1,561,576</b>	<b>402,531</b>	<b>288,496</b>	<b>2,252,603</b>	<b>2,252,603</b>

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Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Storage Cost				
Project	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
Arcadia Lake, OK	Edmond PWA	44,310,244	0	0	44,310,244	44,310,244
<b>Birch</b>	<b>OKWRB</b>	<b>0</b>	<b>0</b>	<b>885,000</b>	<b>885,000</b>	
	<b>OKWRB</b>	<b>0</b>	<b>0</b>	<b>7,000</b>	<b>7,000</b>	<b>892,000</b>
Broken Bow Lake, OK	OK Tourism & Recreation (includes conduit cost of \$59)	2,112	0	0	2,112	
	Broken Bow PWA (includes conduit cost of \$8,908)	170,189	107,585	0	277,774	
	<b>Unknown</b>	<b>0</b>	<b>0</b>	<b>3,881,544</b>	<b>3,881,544</b>	<b>4,161,430</b>
Canton Lake, OK	OK City Muni. Imp. Auth	2,806,900	0	0	2,806,900	2,806,900
Copan Lake, OK	Copan PWA	268,660	5,105,160	0	5,373,820	5,373,820
Council Grove, KA	KS Water Res. Board	1,461,764	0	0	1,461,764	
	State of KS [1]	723,218	0	0	723,218	2,184,982
Denison Dam, L. Texoma, OK & TX	City of Denison, TX	292,861	0	0	292,861	
	TU Electirc	286,353	0	0	286,353	
	Red River Auth. of TX [2]	9,100	0	0	9,100	
	Red River Auth. of TX	359,455	0	0	359,455	
	N. Texas MWD	16,984,605	0	0	16,984,605	
	Buncombe Creek View Ad	248	0	0	248	
	Greater Texoma Utility Auth.	1,266,081	0	0	1,266,081	
	Greater Texoma Utility Auth.	1,407,751	0	0	1,407,751	
	Commissioners of Land Office, OK	87,696	0	0	87,696	
	Greater Texoma Utility Auth.	3,727,060	0	0	3,727,060	
	North Texas Municipal Water District	38,830,547	0	0	38,830,547	
	Greater Texoma Utility Auth.	19,422,260	0	0	19,422,260	82,674,017
El Dorado Lake, KA	City of El Dorado (includes conduit cost of \$838,200) [3]	11,050,400	0	0	11,050,400	
	Activate Future	3,046,527	0	0	3,046,527	
	Activate Future	7,405,026	15,983,747	0	23,388,773	37,485,700
Elk City, KA	State Of KS (includes conduit cost of \$68,000)	2,146,666	0	0	2,146,666	
	State of KS [1]	1,150,580	0	0	1,150,580	3,297,246
Eufaula Lake, OK	Pittsburg Co. Water Co.	75,330	0	0	75,330	
	Haskell County Water Co.	35,440	0	0	35,440	
	RWD #1, Haskell Co	4,706	0	0	4,706	
	RWD #4, Pittsburg Co.	4,420	0	0	4,420	
	RWD #3, Muskogee Co.	8,880	0	0	8,880	
	Porum PWA	11,786	0	0	11,786	
	Sherwood Forrest Co.	5,880	0	0	5,880	
	Lakeside Water Co., Inc	1,970	0	0	1,970	
	RWD #3, IHaskell County	2,228	0	0	2,228	
	Krebs Utility Auth.	29,116	0	0	29,116	
	RWD #8 McIntosh Co.#8	32,504	0	0	32,504	
	Activate Future	106,130	0	0	106,130	
	Porum PWA	30,063	10,598	0	40,661	
	Pittsburg Co. PWA	33,118	0	0	33,118	
	Activate Future	25,810	0	0	25,810	
	Longtown RWD & SD #1 (includes conduit cost of \$475)	107,949	0	0	107,949	
	Public Service Co. of OK (includes conduit cost of \$49)	0	11,016	0	11,016	

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Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Storage Cost				
Project	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
	McAlester PWA (includes conduit cost of \$3,1620	719,075	0	0	719,075	
	Bristow Point Property Owners Assoc.	1,823	0	0	1,823	
	Warner Utilities Auth. (includes conduit	26,608	0	0	26,608	
	Twin Rivers Estates, Inc. (includes conduit cost of \$13)	148	0	0	148	
	Bridgeport Dunes Condo Assoc. (includes conduit cost of \$3)	628	0	0	628	
	RWD #14, Pittsburg Co. (includes conduit cost of \$176)	40,090	0	0	40,090	
	Duchess Creek Mobile Park (includes conduit cost of \$2)	507	0	0	507	
	Warner Utilities Auth. (includes conduit cost of \$104)	68,339	0	0	68,339	
	RWD No. 2, Onapa (includes conduit cost of \$658)	149,969	0	0	149,969	
	Juniper Water Co. (includes conduit cost of \$8,7170	1,981,186	0	0	1,981,186	
	RWD #3 Muskogee Co. (includes conduit cost of \$132)	30,014	0	0	30,014	
	City of Checotah 1 (includes conduit cost of \$1,400)	317,904	0	0	317,904	
	RWD #3, Muskogee Co.	13,929	0	0	13,929	
	B&B Gas Wells	2,388	0	0	2,388	
	OK Tourist & Rec Dept, OK	19,918	0	0	19,918	
	OK Tourist & Rec Dept, OK	15,400	0	0	15,400	
	City of Eufaula	105,008	0	0	105,008	
	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>608,641</b>	<b>608,641</b>	<b>4,638,519</b>
Heyburn, OK	Creek Co. RWD #1 (includes conduit cost of \$51,250)	64,645	0	0	64,645	
	Creek Co. RWD #1	34,374	0	0	34,374	
	Creek Co. RWD #1	73,121	0	0	73,121	172,140
Hugo Lake, OK	City of Hugo (includes \$32,800 for conduit present use)	126,810	1,082,390	0	1,209,200	
	Antlers Public Works Auth.	28,080	24,670	0	52,750	
	Western Farmers Elect. Coop	349,710	0	0	349,710	
	Activate Future	2,026,518	0	0	2,026,518	
	RWD #3, Pushmataha Co.	29,418	0	0	29,418	
	<b>OWRB [4]</b>	<b>0</b>	<b>0</b>	<b>125,990</b>	<b>125,990</b>	<b>3,793,586</b>
Hula, OK	City of Bartlesville (includes conduit cost of \$5,280)	623,934	0	0	623,934	
	Activate Future	88,270	0	0	88,270	
	Hula Water District	4,000	0	0	4,000	
	City of Bartlesville	141,500	0	0	141,500	857,704
John Redmond, KA	KS Water Res. Board (includes conduit cost of \$10,000)	4,498,911	0	0	4,498,911	
	State of KS [1]	832,485	0	0	832,485	5,331,396
Kaw Lake, OK	Kaw Reservoir Auth.	395,975	0	0	395,975	
	Stillwater Utility Authority	1,530,403	10,290,008	0	11,820,411	
	Otoe-Missouria	42,085	0	0	42,085	
	OK Gas & Electric	2,102,289	0	0	2,102,289	
	Activate Future	1,938,668	0	0	1,938,668	

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Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Storage Cost				
Project	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
	Activate Future	4,999,476			4,999,476	
	<b>Not Under Contract [5]</b>	<b>0</b>	<b>0</b>	<b>18,373,933</b>	<b>18,373,933</b>	<b>39,672,837</b>
Keystone Lake, OK	Public Service Co. of OK	613,085	412,440	0	1,025,525	
	Activate Future	550,980	0	0	550,980	
	<b>OWRB (includes conduit cost of \$28,300)</b>	<b>0</b>	<b>0</b>	<b>203,465</b>	<b>203,465</b>	<b>1,779,970</b>
Marion, KA	State of Kansas	1,576,327	0	0	1,576,327	
	Stage of Kansas	2,187,785	0	0	2,187,785	3,764,112
Oologah	Town of Chelsea	21,650	27,725	0	49,375	
	City of Tulsa	409,342	0	0	409,342	
	City of Tulsa	NA	NA	NA	NA	
	Activate Future	1,485,962	0	0	1,485,962	
	Activate Future	259,471	0	0	259,471	
	Activate Future	1,642,359	0	0	1,642,359	
	Activate Future	6,551,819	0	0	6,551,819	
	City of Collinsville	16,160	0	0	16,160	
	Activate Future	199,490	0	0	199,490	
	Public Service Co. of OK	161,660	0	0	161,660	
	Activate Future	538,353	0	0	538,353	
	RWD #4, Rogers Co.	9,700	0	0	9,700	
	Activate Future	44,655	0	0	44,655	
	RWS #3 Rogers Co.	19,390	0	0	19,390	
	Activate Future	184,118	0	0	184,118	
	RWD # 1, Nowata County	3,356	0	0	3,356	
	Activate Future	3,356	0	0	3,356	
	RWD #3, Washington Co.	175,646	0	0	175,646	
	Claremore Public Works Auth	16,632	0	0	16,632	
	Claremore Public Works Auth	324,284	0	0	324,284	
	Public Service Col of OK	676,965	0	0	676,965	12,772,093
Pat Mayse Lake, TX	City of Paris (includes a conduit cost of \$10,000)	689,200	0	0	689,200	
	Activate Future	641,906	1,946,894	0	2,588,800	3,278,000
Pearson - Skubitz Big Hill Lake, KS	State of KS	2,490,514	4,465,256	0	6,955,770	
	<b>Not Under Contract</b>	<b>0</b>	<b>0</b>	<b>21,244</b>	<b>21,244</b>	<b>6,977,014</b>
Pine Creek Lake, OK	Weyerhaeuser	1,523,506	0	0	1,523,506	
	Activate Future	307,579	1,156,452	0	1,464,031	2,987,537
Sardis Lake, OK	OK Water Res. Board (includes a conduit cost of \$602,258) [6]	18,608,479	19,760,089	0	38,368,568	38,368,568
Skiatook Lake, OK	RWD #15, Osage Co.	703,960	0	0	703,960	
	RWD #15, Osage Co	0	563,867	0	563,867	
	Sand Springs Municipal Auth.	1,900,190	0	0	1,900,190	
	Sapulpa Municipal Auth.	632,924			632,924	
	Activate Future	632,924	0	0	632,924	
	Skiatook PWA	568,904	0	0	568,904	
	Skiatook PWA	890,715	0	0	890,715	
	Sapulpa Municipal Auth.	1,738,077	0	0	1,738,077	
	Sands Springs Municipal Auth.	4,802,475	0	0	4,802,475	
	Sapulpa Municipal Auth.	1,911,561	0	0	1,911,561	
	<b>OK Water Res. Board</b>	<b>0</b>	<b>0</b>	<b>1,472,286</b>	<b>1,472,286</b>	<b>15,817,883</b>
Tenkiller Ferry Lake, OK	East Central OK Water Auth.	17,700	0	0	17,700	

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Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT WS Storage Cost				
Project	User	WS Agreement Storage Cost (\$)				Project WS Storage Cost (\$)
		Present	Future	Not Under Contract	Total	
	RWD #2, Cherokee Co. [7]	2,020	0	0	2,020	
	Sequoyah Fuels	282,500	0	0	282,500	
	Summit Water Inc. [7]	4,330	0	0	4,330	
	Paradise Hills, Inc. [7]	6,039	0	0	6,039	
	Lake Tenkiller Associates [7]	8,722	0	0	8,722	
	L. Reg. Elec. Dev. Coop. Inc.	4,157	0	0	4,157	
	Tenkiller Aqua Park	2,043	0	0	2,043	
	Gore Public Works Auth.	51,831	0	0	51,831	
	Mongold Water System	1,167	0	0	1,167	
	L. Reg. Elec. Dev. Coop. Inc.	4,261	0	0	4,261	
	Pettit Bay Water Association	618	0	0	618	
	Fin and Feather Resort	1,630	0	0	1,630	
	Sixshooter Water System	256	0	0	256	
	Billy Joe Stewart	775	0	0	775	
	Bill Richardson	132	0	0	132	
	Indian Hills Estates Company	402	0	0	402	
	J.R. Mosteller	268	0	0	268	
	L. Reg. Elec. Dev. Coop. Inc.	4,350	0	0	4,350	
	L. Reg. Elec. Dev. Coop. Inc.	2,166	0	0	2,166	
	Burnt Cabin RWD Inc.	1,311	0	0	1,311	
	Sunny Heights Water System	1,372	0	0	1,372	
	Tenkiller Development Co.	417	0	0	417	
	Charles Willige	286	0	0	286	
	Petit Mountain Water Association	643	0	0	643	
	RWD #13 Cherokee Co.	20,532	0	0	20,532	
	Tahlequah PWA	723,274	0	0	723,274	
	Stick Ross Mountain Water Co.	98,205	0	0	98,205	
	Greenleaf Nursery Co. [8]	6,290	0	0	6,290	
	RWD #2, Cherokee County [7]	19,123	0	0	19,123	
	RWD #13, Cherokee, County	2,020	0	0	2,020	
	Greenleaf Nursery Company	54,300	0	0	54,300	1,323,140
Toronto Lake, KS	City of Toronto	21,410	0	0	21,410	
	City of Toronto	14,965	0	0	14,965	36,375
Waurika Lake, OK	Waurika Project Master Conservation District (includes conduit cost of \$222,991)	4,644,284	0	0	4,644,284	
	Waurika PMC Dist Eastern	488,882	0	0	488,882	
	Waurika PMC Dist Southern	20,608,454	0	0	20,608,454	
	Waurika PMC Dist Western	8,910,058	0	0	8,910,058	
	Waurola PMCD	25,366,553	0	0	25,366,553	60,018,231
Wister Lake, OK	Heavener Utility Auth. [9]	156,188	0	0	156,188	
	Poteau Valley Improvement Auth.	125,110	0	0	125,110	
	AES Shady Point, Incorporated	1,963,800	0	0	1,963,800	2,245,098
<b>27 projects</b>	<b>140 agreements + 21 Activate Future</b>	<b>300,493,542</b>	<b>60,947,897</b>	<b>25,579,103</b>	<b>387,020,542</b>	<b>387,020,542</b>

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**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Southwester Division: Tulsa District		SWT Remaining Pricipal Owed [10]			
Project	User	Amount Owed (\$)			
		Present	Future	Total	District Percent
Arcadia Lake, OK	Edmond PWA	0	0	0	
<b>Birch</b>	<b>OKWRB</b>	<b>0</b>	<b>885,000</b>	<b>885,000</b>	
	<b>OKWRB</b>	<b>0</b>	<b>7,000</b>	<b>7,000</b>	
Broken Bow Lake, OK	OK Tourism & Recreation (includes conduit cost of \$59)	0	0	0	
	Broken Bow PWA (includes conduit cost of \$8,908)	62,253	107,585	169,838	
	<b>Unknown</b>	<b>0</b>	<b>3,881,544</b>	<b>3,881,544</b>	
Canton Lake, OK	OK City Muni. Imp. Auth	0	0	0	
Copan Lake, OK	Copan PWA	166,713	5,105,160	5,271,873	
Council Grove, KA	KS Water Res. Board	601,906	0	601,906	
	State of KS [1]	0	0	0	
Denison Dam, L. Texoma, OK & TX	City of Denison, TX	0	0	0	
	TU Electirc	0	0	0	
	Red River Auth. of TX [2]	0	0	0	
	Red River Auth. of TX	0	0	0	
	N. Texas MWD	0	0	0	
	Buncombe Creek View Ad	0	0	0	
	Greater Texoma Utility Auth.	0	0	0	
	Greater Texoma Utility Auth.	0	0	0	
	Commissioners of Land Office, OK	0	0	0	
	Greater Texoma Utility Auth.	3,179,171	0	3,179,171	
	North Texas Municipal Water District	0	0	0	
	Greater Texoma Utility Auth.	0	0	0	
El Dorado Lake, KA	City of El Dorado (includes conduit cost of \$838,200) [3]	0	0	0	
	Activate Future	2,351,465	0	2,351,465	
	Activate Future	6,893,626	15,983,747	22,877,373	
Elk City, KA	State Of KS (includes conduit cost of \$68,000)	888,708	0	888,708	
	State of KS [1]	0	0	0	
Eufaula Lake, OK	Pittsburg Co. Water Co.	19,350	0	19,350	
	Haskell County Water Co.	8,866	0	8,866	
	RWD #1, Haskell Co	0	0	0	
	RWD #4, Pittsburg Co.	1,259	0	1,259	
	RWD #3, Muskogee Co.	2,331	0	2,331	
	Porum PWA	0	0	0	
	Sherwood Forrest Co.	0	0	0	
	Lakeside Water Co., Inc	0	0	0	
	RWD #3, IHaskell County	0	0	0	
	Krebs Utility Auth.	15,137	0	15,137	
	RWD #8 McIntosh Co.#8	18,257	0	18,257	
	Activate Future	237,422	0	237,422	
	Porum PWA	0	10,598	10,598	
	Pittsburg Co. PWA	18,590	0	18,590	
	Activate Future	39,341	0	39,341	
	Longtown RWD & SD #1 (includes conduit cost of \$475)	30,731	0	30,731	
	Public Service Co. of OK (includes conduit cost of \$49)	0	11,016	11,016	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT Remaining Pricipal Owed [10]			
Project	User	Amount Owed (\$)			
		Present	Future	Total	District Percent
	McAlester PWA (incldes conduit cost of \$3,1620	253,857	0	253,857	
	Bristow Point Property Owners Assoc.	0	0	0	
	Warner Utilities Auth. (includes coduit	0	0	0	
	Twin Rivers Estates, Inc. (includes cosnuit cos to f\$13)	0	0	0	
	Bridgeport Dunes Condo Assoc. (includes conduit cost of \$3)	0	0	0	
	RWD #14, Pittsburg Co. (includes conduit cost of \$176)	0	0	0	
	Duchess Creek Mobile Park (includes conduit cost of \$2)	0	0	0	
	Warner Utilities Auth. (includes coduit cost of \$104)	0	0	0	
	RWD No. 2, Onapa (includes conduit cost of \$658)	0	0	0	
	Juniper Water Co. (includes conduit cost of \$8,7170	0	0	0	
	RWD #3 Muskogee Co. (includes consuit cost of \$132)	0	0	0	
	City of Checotah 1 (includes conduit cost of \$1,400)	0	0	0	
	RWD #3, Muskogee Co.	0	0	0	
	B&B Gas Wells	0	0	0	
	OK Tourist & Rec Dept, OK	19,918	0	19,918	
	OK Tourist & Rec Dept, OK	146	0	146	
	City of Eufaula	1,018	0	1,018	
	<b>Not Under Contract</b>	<b>0</b>	<b>608,641</b>	<b>608,641</b>	
Heyburn, OK	Creek Co. RWD #1 (includes conduit cost of \$51,250)	6,345	0	6,345	
	Creek Co. RWD #1	0	0	0	
	Creek Co. RWD #1	0	0	0	
Hugo Lake, OK	City of Hugo (includes \$32,800 for conduit present use)	56,867	1,082,390	1,139,257	
	Antlers Public Works Auth.	12,378	24,670	37,048	
	Western Farmers Elect. Coop	200,139	0	200,139	
	Activate Future	1,670,523	0	1,670,523	
	RWD #3, Pushmataha Co.	0	0	0	
	<b>OWRB [4]</b>	<b>0</b>	<b>125,990</b>	<b>125,990</b>	
Hula, OK	City of Bartlesville (includes conduit cost of \$5,280)	0	0	0	
	Activate Future	25,638	0	25,638	
	Hula Water District	0	0	0	
	City of Bartlesville	78,975	0	78,975	
John Redmond, KA	KS Water Res. Board (includes conduit cost of \$10,000)	1,712,768	0	1,712,768	
	State of KS [1]	0	0	0	
Kaw Lake, OK	Kaw Reservoir Auth.	0	0	0	
	Stillwater Utility Authority	995,787	10,290,008	11,285,795	
	Otoe-Missouria	0	0	0	
	OK Gas & Electric	1,126,355	0	1,126,355	
	Activate Future	2,658,438	0	2,658,438	

2010 Water Supply Database

Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement

Southwester Division: Tulsa District		SWT Remaining Pricipal Owed [10]			
Project	User	Amount Owed (\$)			
		Present	Future	Total	District Percent
	Activate Future	9,392,400		9,392,400	
	<b>Not Under Contract [5]</b>	<b>0</b>	<b>18,373,933</b>	<b>18,373,933</b>	
Keystone Lake, OK	Public Service Co. of OK	234,795	412,440	647,235	
	Activate Future	285,953		285,953	
	<b>OWRB (includes conduit cost of \$28,300)</b>	<b>0</b>	<b>203,465</b>	<b>203,465</b>	
Marion, KA	State of Kansas	750,701	0	750,701	
	Stage of Kansas	0	0	0	
Oologah	Town of Chelsea	12,835	27,725	40,560	
	City of Tulsa	31,837	0	31,837	
	City of Tulsa	NA	NA	NA	
	Activate Future	115,717	0	115,717	
	Activate Future	127,814	0	127,814	
	Activate Future	875,900	0	875,900	
	Activate Future	3,862,699	0	3,862,699	
	City of Collinsville	1,628	0	1,628	
	Activate Future	133,860	0	133,860	
	Public Service Co. of OK	10,682	0	10,682	
	Activate Future	329,472	0	329,472	
	RWD #4, Rogers Co.	972	0	972	
	Activate Future	28,052	0	28,052	
	RWS #3 Rogers Co.	2,417	0	2,417	
	Activate Future	118,272	0	118,272	
	RWD # 1, Nowata County	217	0	217	
	Activate Future	295	0	295	
	RWD #3, Washington Co.	21,595	0	21,595	
	Claremore Public Works Auth	10,425	0	10,425	
	Claremore Public Works Auth	29,021	0	29,021	
	Public Service Col of OK	25,579	0	25,579	
Pat Mayse Lake, TX	City of Paris (includes a conduit cost of \$10,000)	171,797	0	171,797	
	Activate Future	342,779	1,946,894	2,289,673	
Pearson - Skubitz Big Hill Lake, KS	State of KS	1,566,472	4,465,256	6,031,728	
	<b>Not Under Contract</b>	<b>0</b>	<b>21,244</b>	<b>21,244</b>	
Pine Creek Lake, OK	Weyerhaeuser	540,761	0	540,761	
	Activate Future	161,029	1,156,452	1,317,481	
Sardis Lake, OK	OK Water Res. Board (includes a conduit cost of \$602,258) [6]	0	19,760,089	19,760,089	
Skiatook Lake, OK	RWD #15, Osage Co.	546,124	0	546,124	
	RWD #15, Osage Co	0	563,867	563,867	
	Sand Springs Municipal Auth.	1,345,493	0	1,345,493	
	Sapulpa Municipal Auth.	0	0	0	
	Activate Future	516,736	0	516,736	
	Skiatook PWA	417,417	0	417,417	
	Skiatook PWA	204,081	0	204,081	
	Sapulpa Municipal Auth.	861,124	0	861,124	
	Sands Springs Municipal Auth.	2,313,375	0	2,313,375	
	Sapulpa Municipal Auth.	1,104,091	0	1,104,091	
	<b>OK Water Res. Board</b>	<b>0</b>	<b>1,472,286</b>	<b>1,472,286</b>	
Tenkiller Ferry Lake, OK	East Central OK Water Auth.	2,287	0	2,287	

**2010 Water Supply Database**

**Appendix B: Agreement Data, Storage Space and Costs, and Remaining Principal by Agreement**

Southwester Division: Tulsa District		SWT Remaining Pricipal Owed [10]			
Project	User	Amount Owed (\$)			
		Present	Future	Total	District Percent
	RWD #2, Cherokee Co. [7]	418	0	418	
	Sequoyah Fuels	79,470	0	79,470	
	Summit Water Inc. [7]	0	0	0	
	Paradise Hills, Inc. [7]	0	0	0	
	Lake Tenkiller Associates [7]	0	0	0	
	L. Reg. Elec. Dev. Coop. Inc.	0	0	0	
	Tenkiller Aqua Park	1,052	0	1,052	
	Gore Public Works Auth.	0	0	0	
	Mongold Water System	0	0	0	
	L. Reg. Elec. Dev. Coop. Inc.	0	0	0	
	Pettit Bay Water Association	0	0	0	
	Fin and Feather Resort	0	0	0	
	Sixshooter Water System	0	0	0	
	Billy Joe Stewart	0	0	0	
	Bill Richardson	0	0	0	
	Indian Hills Estates Company	0	0	0	
	J.R. Mosteller	0	0	0	
	L. Reg. Elec. Dev. Coop. Inc.	0	0	0	
	L. Reg. Elec. Dev. Coop. Inc.	0	0	0	
	Burnt Cabin RWD Inc.	0	0	0	
	Sunny Heights Water System	0	0	0	
	Tenkiller Development Co.	0	0	0	
	Charles Willige	0	0	0	
	Petit Mountain Water Association	0	0	0	
	RWD #13 Cherokee Co.	17,201	0	17,201	
	Tahlequah PWA	485,952	0	485,952	
	Stick Ross Mountain Water Co.	85,793	0	85,793	
	Greenleaf Nursery Co. [8]	0	0	0	
	RWD #2, Cherokee County [7]	17,028	0	17,028	
	RWD #13, Cherokee, County	455	0	455	
	Greenleaf Nursery Company	21,720	0	21,720	
Toronto Lake, KS	City of Toronto	0	0	0	
	City of Toronto	12,080	0	12,080	
Waurika Lake, OK	Waurika Project Master Conservation District (includes conduit cost of \$222,991)	2,422,954	0	2,422,954	
	Waurika PMC Dist Eastern	373,099	0	373,099	
	Waurika PMC Dist Southern	17,248,674	0	17,248,674	
	Waurika PMC Dist Western	11,091,487	0	11,091,487	
	Waurola PMCD	0	0	0	
Wister Lake, OK	Heavener Utility Auth. [9]	7,969	0	7,969	
	Poteau Valley Improvement Auth.	30,723	0	30,723	
	AES Shady Point, Incorporated	346,998	0	346,998	
<b>27 projects</b>	<b>140 agreements + 21 Activate Future</b>	<b>82,094,055</b>	<b>86,527,000</b>	<b>168,621,055</b>	<b>44%</b>

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2010 Water Supply DatabaSe

Appendix B: Agreement Data, Storage Space and Cost and Remaining Principal by Agreement

Southwestern Divison Summary					
<b>Agreement Data</b>		<b>Number of Agreements</b>			
District	Number of Projects	Basic	Activate Future	Yield (mgd)	
Little Rock	11	25	10	1,607.70	
Ft Worth	23	38	25	1,241.68	
Tulsa	27	140	21	1,280.26	
<b>Division total</b>	<b>61</b>	<b>203</b>	<b>56</b>	<b>4,129.64</b>	
<b>Storage Space</b>					
<b>Storage Space (acre-feet)</b>					
District	Present	Future	Not Under Contract	Total	
Little Rock	325,957	47,462	0	373,419	
Ft Worth	3,912,960	215,972	0	4,128,932	
Tulsa	1,561,576	402,531	288,496	2,252,603	
<b>Division total</b>	<b>5,800,493</b>	<b>665,965</b>	<b>288,496</b>	<b>6,754,954</b>	
<b>Storage Cost</b>					
<b>WS Storage Cost (\$)</b>					
District	Present	Future	Not Under Contract	Total	
Little Rock	22,111,044	44,471,139	0	64,973,182	
Ft Worth	372,320,707	34,243,179	0	406,564,886	
Tulsa	300,493,542	60,947,897	25,579,103	387,020,542	
<b>Division total</b>	<b>694,925,293</b>	<b>139,662,215</b>	<b>25,579,103</b>	<b>858,558,610</b>	
<b>Remaining Principal</b>					
<b>Remaining Principal Owed (\$) [1]</b>					
District	Present	Future	Total	District / MSC %	
Little Rock	14,349,123	44,471,139	57,211,261	89	
Ft Worth	73,154,829	34,938,509	108,124,839	27	
Tulsa	82,094,055	86,527,000	168,621,056	44	
<b>Division total</b>	<b>169,598,007</b>	<b>165,936,648</b>	<b>333,957,156</b>	<b>38</b>	
[1] Remaining Principal owed (as applicable) includes, for the present use storage, interest on the unpaid balance after the end of the ten-year interest free period. Price level varies.					

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MSC	District	Project	User	Date of Agreement	Total Storage Space	Method used to determine cost of storage	Reallocation Source	Total Agreement Cost (\$)
NAD	NAB	Cowanesque Lake, PA	Susquehanna RBC	1986	25,600	Updated cost	Flood Pool	39,414,000
		Curwensville Lake, PA	Susquehanna RBC	1994	5,360	Updated cost	Conservation	11,339,000
	<b>total</b>	<b>2 projects</b>	<b>2 agreements</b>	<b>(86 - 94)</b>	<b>30,960</b>			<b>50,753,000</b>
<b>TOTAL</b>		<b>2 projects</b>	<b>2 agreements</b>		<b>30,960</b>			<b>50,753,000</b>
SAD	SAW	John H. Kerr, VA	Mecklenburg Cogeneration	1991	600	Updated cost	Hydro	150,421
			VA Dep of Corr.	1989	23	Updated cost	Hydro	5,075
			City of Henderson	2006	10,292	Updated cost	Hydro	2,375,336
			Virginian Beach	1984	10,200	Updated cost	Hydro	2,275,685
	<b>total</b>	<b>1 project</b>	<b>4 agreements</b>	<b>(84 - 06)</b>	<b>21,115</b>			<b>4,806,517</b>
	SAS	Hartwell, GA & SC	Anderson Co. Joint Municipal Water System (mod)	2002	24,620	Benefits Foregone	Hydro	3,477,000
			City of Lavonia	1990	127	Updated cost	Hydro	21,447
			Hart County	1998	1,827	Updated cost	Hydro	356,867
		J Strom Thurmond, GA & SC	City of Washington	1975	632	Benefits Foregone	Hydro	72,800
			Town of McCormick	1999	506	Other	Hydro	17,357
			City of Lincolnton	1990	83	Updated cost	Hydro	24,608
			City of Thompson	1990	1,056	Updated cost	Hydro	334,714
			Town of McCormick	2001	316	Benefits foregone (Section 322 of WRDA 86)	Hydro	66,499
			Savannah Valley Auth.	1989	92	Updated cost	Hydro	27,395
			Columbia County	1989	1,056	Updated cost	Hydro	313,048
			City of Lincolnton	1964	92	Original cost	Hydro	15,000
		Richard B Russell, GA & SC	SC Public Service Auth.	2001	491	Benefits Foregone	Hydro	1,615,243
			City of Elberton	1990	381	Updated cost	Hydro	419,658
	<b>total</b>	<b>3 projects</b>	<b>13 agreements</b>	<b>(64-02)</b>	<b>31,279</b>			<b>6,761,636</b>
	SAM	Allatoona, GA	Cobb Co. - Marietta Water Auth.	1963	13,140	Original cost	Hydro	1,168,449
			City of Cartersville	1966	1,996	Original cost	Hydro	396,218
			City of Cartersville	1991	4,375	Updated cost	Hydro	1,655,723
		Carters, GA	City of Chatsworth	1991	818	Updated cost	Hydro	617,449
	<b>total</b>	<b>2 projects</b>	<b>4 agreements</b>	<b>(63 - 91)</b>	<b>20,329</b>			<b>3,837,839</b>
<b>TOTAL</b>		<b>6 projects</b>	<b>21 agreements</b>	<b>(64-06)</b>	<b>72,723</b>			<b>15,405,992</b>
LRD	LRH	Grayson Lake, KY	Rattlesnake Ridge	2000	30	Updated cost	Not Available	21,930
			Rattlesnake Ridge	2000	2,508	Updated cost	Not Available	76,732
		John W. Flannagan Dam & Reservoir, VA	John Flannagan Water Auth	2004	3,360	Updated cost	Water Quality	162,983
		Paintsville, KY	Paintsville Utilities	2010	3,129	Updated cots	Flood Control	4,774,940
		Summersville Lake, WV	City of Summersville	2001	468	Updated cost	Flood Pool	60,828
		<b>4 projects</b>	<b>35 agreements</b>	<b>(00-10)</b>	<b>9,495</b>			<b>5,097,413</b>
	LRL	Carr Creek Lake, KY	Carr Creek Water Comm.	2006	2,052	Revenues Foregone	Not Available	305,563
		Cave Run Lake, KY	Cave Run Water Comm.	2003	538	Replacement Cost	Not Available	72,896
			City of West Liberty	1996	264	Replacement Cost	Not Available	30,360
		Green River Lake, KY	City of Columbia	1992	855	Revenues Foregone	Not Available	88,065
		Rough River Lake, KY	Hardinsburg	1978	150	Replacement Cost	Conservation	17,781
			Grayson County WD	2002	252	Replacement Cost	Conservation	34,934
	<b>total</b>	<b>4 projects</b>	<b>6 agreements</b>	<b>(78-06)</b>	<b>4,111</b>			<b>549,599</b>
	LRN	Center Hill Lake, TN	Cookeville	2003	6,680	Updated cost	Hydro	2,816,877
			Smithville	2003	401	Updated cost	Hydro	54,536
			Riverwatch Golf	2003	131	Benefits Foregone	Hydro	96,775
		Dale Hollow Lake, TN & KY	City of Byrdstown	2005	1,841	Benefits Foregone	Hydro	372,716
			Commonwealth of Kentucky	2005	368	Updated cost	Hydro	176,532
			Trooper Island	2004	2	Updated cost	Hydro	916
		J. Percy Priest Dam & Reservoir, TN	LaVergne	2003	2,733	Benefits Foregone	Hydro	1,818,550
			Murfreesboro	2003	5,084	Updated cost	Hydro	3,051,429
			Consolidated Utility	2003	3,007	Updated cost	Hydro	1,804,609

MSC	District	Project	User	Date of Agreement	Total Storage Space	Method used to determine cost of storage	Reallocation Source	Total Agreement Cost (\$)
	LRN (cont.)	J. Percy Priest (cont.)	Consolidated Utility	2003	1,367	Updated cost	Hydro	820,277
			YMCA of Middle TN	2003	22	Benefits Foregone	Hydro	16,638
			Cedar Crest Golf Ventures, LLD.	2004	96	Benefits Foregone	Hydro	75,951
			Town of Smyrna	2008	5,002	Updated cost	Hydro	2,350,000
		Laurel River Lake, KY	Laurel Co. Water Dist.	2005	519	Benefits Foregone	Hydro	166,847
	<b>total</b>	<b>4 projects</b>	<b>14 agreements</b>	<b>(03-08)</b>	<b>27,253</b>			<b>13,622,653</b>
	LRP	Youghioghent Lake, PA	Muni. Auth. Of Westmoreland County	2010	2,950	Updated Cost	Water Quality	2,557,949
	<b>total</b>	<b>1 project</b>	<b>1 agreement</b>	<b>2010</b>	<b>2,950</b>			<b>2,557,949</b>
<b>TOTAL</b>		<b>13 projects</b>	<b>26 agreements</b>	<b>(78 - 10)</b>	<b>43,809</b>			<b>21,827,614</b>
MVD	MVK	Blakey Mt, Dam, Lake Ouachita	N. Garland County Reg. WD (1996)	1996	1,575	Benefits Foregone	Flood Pool	110,751
			Enid, MS	1998	4,500	Benefits Foregone	Conservation	1,111,898
	<b>total</b>	<b>2 projects</b>	<b>2 agreements</b>	<b>(96 - 98)</b>	<b>6,075</b>			<b>1,222,649</b>
<b>TOTAL</b>		<b>2 projects</b>	<b>2 agreements</b>	<b>(96 - 98)</b>	<b>6,075</b>			<b>1,222,649</b>
NWD	NWK	Harry S Truman Dam & Res., MO	Henry Co. PWSD #3	1994	172	Updated cost	Hydro	50,120
			HST PWSD #2	1997	111	Updated cost	Hydro	35,506
		Kanopolis, KS	Kansas Water Office	2002	12,500	Updated cost	Conservation	4,181,200
		Melvorn Lake, KS	State of Kansas	1994	50,000	see footnote [1]	Water Quality	7,094,009
		Ponoma	State of Kansas	1995	14,324	see footnote [1]	Water Quality	1,555,242
			State of Kansas	1995	18,176	see footnote [1]	Water Quality	2,009,480
		Rathbun Lake, IA	Rathbun Regional Water Ass., Inc. (RRWA)	1986	3,340	Updated cost	Conservation	331,019
			RRWA	1989	3,340	Updated cost	Conservation	498,916
		Tuttle Creek Lake, KS	Kansas Water Office	1991	27,500	see footnote [1]	Water Quality	1,876,748
			Kansas Water Office	1994	8,650	see footnonte (1)	Water Quality	368,699
			Kansas Water Office	1996	13,850	see footnote (1)	Water Quality	591,634
	<b>total</b>	<b>7 projects</b>	<b>11 agreements</b>	<b>(86 - 02)</b>	<b>151,963</b>			<b>18,592,573</b>
<b>TOTAL</b>		<b>7 projects</b>	<b>11 agreements</b>	<b>(86 - 02)</b>	<b>151,963</b>			<b>18,592,573</b>
SWD	SWL	Beaver Lake, AR	Carroll-Boone Water District	1977	9,000	Updated cost	Flood Pool	742,000
			Madison Co., Water District	1992	3,882	Updated cost	Flood Pool	482,991
			Benton/Washington Co. WD	1996	8,113	Updated cost	Flood Pool	1,097,137
		Blue Mountain Lake, AR	City of Danville	2005	1,550	Updated cost	Flood Pool	226,021
		Bull Shoals Lake, AR	Marion Co. Water District	1988	880	Updated cost	Conservation	84,979
			Marion Co. Water District	2010	1,698	Updated cost	Hydro	280,861
		Greers Ferry Lake, AR	Tannebaum Golf Course	1998	90	Updated cost	Flood Pool	11,072
			Clinton Water District	1970	900	Original cost	Flood Pool	81,000
			Community Water System	1971	225	Original cost	Flood Pool	20,260
			Community WS Phase 1	1995	3,776	Updated cost	Flood Pool	457,804
			Community WS Phase 2	1998	4,283	Updated cost	Flood Pool	561,174
			Thunderbird Golf Course	1998	55	Updated cost	Flood Pool	6,514
			Red Apple Inn & Country Club	1996	66	Updated cost	Flood Pool	8,427
		Nimrod Lake, AR	City of Plainview	1973	33	Updated cost	Conservation	1,218
			City of Plainview	1995	110	Updated cost	Conservation	21,967
		Norfork Lake, AR	City of Mountain Home	1969	800	Original cost	Conservation	65,467
			Activate future	1971	1,600	Original cost	Conservation	130,933
	<b>total</b>	<b>6 projects</b>	<b>17 agreements</b>	<b>(70 - 10)</b>	<b>37,061</b>			<b>4,279,825</b>
	SWF	Waco, TX	Brazos River Auth.	1984	91,074	Updated cost	Not Available	5,793,449
	<b>total</b>	<b>1 projects</b>	<b>1 agreements</b>	<b>(84)</b>	<b>91,074</b>			<b>5,793,449</b>
	SWT	Council Grove Lake, KA	State of KS - Reallocation	1996	8,000	see footnote [1]	Water Quality	723,218
		Denison Dam, L. Texoma, OK & TX	City of Denison, TX	1953	21,300	Original cost	Hydro	292,861
			TX Power & Light	1961	16,400	Original cost	Hydro	286,353
			Red River Auth. of TX	1969	450	Original cost	Hydro	9,100

MSC	District	Project	User	Date of Agreement	Total Storage Space	Method used to determine cost of storage	Reallocation Source	Total Agreement Cost (\$)
	SWT (cont.)	Denison Dam. (cont.)	Red River Auth. of TX	1983	2,054	Updated cost	Hydro	359,455
			N. Texas MWD	1985	84,099	Updated cost	Hydro	16,984,605
			Greater Texoma Utility Auth.	1992	5,500	Updated cost	Hydro	1,266,081
			Greater Texoma Utility Auth.	1979	5,500	Updated cost	Hydro	1,407,751
			Commissioner of the Land	2005	275	Updated cost	Hydro	87,696
			Greater Texoma Utility Auth.	2005	11,600	Updated cost	Hydro	3,727,060
			Buncombe Creek View Ad	1992	1	Updated cost	Hydro	248
			N. Texas MWD	2010	100,000	Updated cost	Hydro	38,830,547
			Greater Texoma Utility Auth.	2010	50,000	Updated cost	Hydro	19,422,260
		Elk City, KA	State of KS	1976	10,000	see footnote [1]	Water Quality	1,150,580
		John Redmond, KA	State of KS	1996	10,000	see footnote [1]	Water Quality	832,485
		Marion, KA	Kansas Water Office	1996	12,500	see footnote [1]	Water Quality	2,187,785
		Tenkiller Ferry Lake, OK	East Central OK Water Auth.	1964	300	see footnote [2]	Flood Pool	17,700
			Cherokee Co., RWD #12	1967	100	see footnote [2]	Flood Pool	2,020
			Sequoyah Fules Corp.	1970	14,000	see footnote [2]	Flood Pool	282,500
			Summit Water Inc.	1971	140	see footnote [2]	Flood Pool	4,330
			Paradise Hills, Inc.	1974	220	see footnote [2]	Flood Pool	6,039
			Lake Tenkiller Associates	1980	200	see footnote [2]	Flood Pool	8,722
			L. Reg. Elec. Dev. Coop. Inc.	1989	38	Updated cost	Flood Pool	4,157
			Tenkiller Aqua Park	1990	17	Updated cost	Flood Pool	2,043
			Gore Public Works Auth.	1990	480	Updated cost	Flood Pool	51,831
			Mongold Water System	1990	5	Updated cost	Flood Pool	1,167
			L. Reg. Elec. Dev. Coop. Inc.	1991	34	Updated cost	Flood Pool	4,261
			Pettit Bay Water Association	1991	5	Updated cost	Flood Pool	618
			Fin and Feather Resort	1992	12	Updated cost	Flood Pool	1,630
			Sixshooter Water System	1992	2	Updated cost	Flood Pool	256
			Billy Joe Stewart	1992	6	Updated cost	Flood Pool	775
			Bill Richardson	1992	1	Updated cost	Flood Pool	132
			Indian Hills Estates Company	1993	3	Updated cost	Flood Pool	402
			J.R. Mosteller	1993	2	Updated cost	Flood Pool	268
			L. Reg. Elec. Dev. Coop. Inc.	1994	30	Updated cost	Flood Pool	4,350
			L. Reg. Elec. Dev. Coop. Inc.	1994	15	Updated cost	Flood Pool	2,166
			Burnt Cabin RWD Inc.	1994	12	Updated cost	Flood Pool	1,311
			Sunny Heights Water System	1995	10	Updated cost	Flood Pool	1,372
			Tenkiller Development Co.	1995	3	Updated cost	Flood Pool	417
			Charles Willige	1996	2	Updated cost	Flood Pool	286
			Sequoyah Fules Corp.	1998	2,200	see footnote (2)	Flood Pool	44,400
			RWD #13 Cherokee Co.	2004	132	Updated cost	Flood Pool	20,532
			Tahlequah PWA	2005	4,300	Updated cost	Flood Pool	723,274
			Stick Ross Mountain Water Co.	2005	584	Updated cost	Flood Pool	98,205
			RWD #2, Cherokee Co	2007	99	Updated cost	Flood Pool	19,123
			Cherokee, O., RWD #13	2007	100	see footnote (2)	Flood Pool	2,020
		Wister, OK	Poteau Valley Improvement Dist	1967	4,800	Original cost	Flood Pool	125,110

MSC	District	Project	User	Date of Agreement	Total Storage Space	Method used to determine cost of storage	Reallocation Source	Total Agreement Cost (\$)
	SWT (cont.)	Wister (cont.)	AES Shady Point, Incorporated	1987	7,254	Updated cost	Flood Pool	1,963,800
	<b>total</b>	<b>7 projects</b>	<b>48 agreements</b>	<b>(53 - 10)</b>	<b>372,785</b>			<b>90,963,302</b>
<b>TOTAL</b>		<b>14 projects</b>	<b>66 agreements</b>	<b>(53 - 10)</b>	<b>500,920</b>			<b>101,036,576</b>
<b>NAT.</b>		<b>43 projects</b>	<b>128 agreements</b>	<b>(53 - 10)</b>	<b>806,450</b>			<b>208,838,404</b>

Footnot [1] NWK & SWT, Costs developed under a MOU with the State of Kansas. Storage costs based on original construction or sunk costs of the reallocated water quality storage.

[2] SWT, Costs based on revision to the 1969 cost allocation; flood control costs were reduced and assigned to water supply since storage was reassigned from the flood control pool.



# Institute for Water Resources

The Institute for Water Resources (IWR) is a Corps of Engineers Field Operating Activity located within the Washington DC National Capital Region (NCR), in Alexandria, Virginia and with satellite centers in New Orleans, LA and Davis, CA. IWR was created in 1969 to analyze and anticipate changing water resources management conditions, and to develop planning methods and analytical tools to address economic, social, institutional, and environmental needs in water resources planning and policy. Since its inception, IWR has been a leader in the development of strategies and tools for planning and executing the Corps water resources planning and water management programs.

IWR strives to improve the performance of the Corps water resources program by examining water resources problems and offering practical solutions through a wide variety of technology transfer mechanisms. In addition to hosting and leading Corps participation in national forums, these include the production of white papers, reports, workshops, training courses, guidance and manuals of practice; the development of new planning, socio-economic, and risk-based decision-support methodologies, improved hydrologic engineering methods and software tools; and the management of national waterborne commerce statistics and other Civil Works information systems. IWR serves as the Corps expertise center for integrated water resources planning and management; hydrologic engineering; collaborative planning and environmental conflict resolution; and waterborne commerce data and marine transportation systems.

The Institute's Hydrologic Engineering Center (HEC), located in Davis, CA specializes in the development, documentation, training, and application of hydrologic engineering and hydrologic models. IWR's Navigation Data Center (NDC) and its Waterborne Commerce Statistical Center (WCSC) in New Orleans, LA, is the Corps data collection organization for waterborne commerce, vessel characteristics, port facilities, dredging information, and information on navigation locks.

Other enterprise centers at the Institute's NCR office include the International Center for Integrated Water Resources Management (ICIWaRM), which is a distributed, intergovernmental center, established in partnership with various Universities and non-Government organizations; and a Collaborative Planning Center which includes a focus on both the processes associated with conflict resolution, and the integration of public participation techniques with decision support and technical modeling – Computer Assisted Dispute Resolution (CADRe). The Institute plays a prominent role within a number of the Corps technical Communities of Practice (CoP), including the Economics CoP. The Corps Chief Economist is resident at the Institute, along with a critical mass of economists, sociologists and geographers specializing in water and natural resources investment decision support analysis and multi-criteria tradeoff techniques.

For further information on the Institute's activities associated with the Corps Economics Community of Practice (CoP) please contact Chief Economist, Dr. David Moser, at 703-428-6289, or via e-mail at: [david.a.moser@usace.army.mil](mailto:david.a.moser@usace.army.mil). The IWR contact for the Corps Planning CoP activities is Ms. Lillian Almodovar at 703-428-6021, or: [lillian.almodovar@usace.army.mil](mailto:lillian.almodovar@usace.army.mil).

The Director of IWR is Mr. Robert A. Pietrowsky, who can be contacted at 703-428-8015, or via e-mail at: [robert.a.pietrowsky@usace.army.mil](mailto:robert.a.pietrowsky@usace.army.mil). Additional information on IWR can be found at: <http://www.iwr.usace.army.mil>. IWR's NCR mailing address is:

U.S. Army Institute for Water Resources  
7701 Telegraph Road, 2nd Floor Casey Building  
Alexandria, VA 22315-3868



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