

**LIBERTY MISSOURI WATER**  
**DEPRECIATION RATE STUDY**  
**AT DECEMBER 31, 2022**



<http://www.utilityalliance.com>

**LIBERTY MISSOURI WATER  
DEPRECIATION RATE STUDY  
EXECUTIVE SUMMARY**

Liberty Missouri Water (“Liberty” or “Company”) engaged Alliance Consulting Group to conduct a depreciation study of the Company’s water and wastewater operations depreciable assets as of December 31, 2022.

Overall, this study recommends an increase of \$381 thousand in annual depreciation expense when compared to the depreciation rates currently in effect. This study reflects changes to all districts in which Liberty operates. Where possible, consistent life and net salvage parameters were applied to all districts for similar asset groups.

Appendix A provides the calculation of the recommended depreciation rates. Appendix A-1 provides the calculation of the recommended amortization rates for assets that will adopt FERC Accounting Release AR-15, which allows for the automatic retirement of assets that reach the life of account. Appendix B provides the calculation of the recommended depreciation rates. Appendix C provides the mortality characteristics (life, curve, salvage, and cost of removal) for the accounts and districts analyzed.

**LIBERTY MISSOURI WATER  
DEPRECIATION RATE STUDY  
TABLE OF CONTENTS**

**PURPOSE .....3**

**STUDY RESULTS .....4**

**SYSTEM DESCRIPTION.....5**

**GENERAL DISCUSSION.....8**

**DEFINITION .....8**

**BASIS OF DEPRECIATION ESTIMATES .....8**

    SURVIVOR CURVES .....9

    ACTUARIAL ANALYSIS .....16

**JUDGMENT .....17**

**AVERAGE LIFE GROUP DEPRECIATION .....18**

**THEORETICAL DEPRECIATION RESERVE .....19**

**DETAILED DISCUSSION.....20**

**DEPRECIATION STUDY PROCESS.....20**

**DEPRECIATION RATE CALCULATION .....23**

**REMAINING LIFE CALCULATION .....23**

    THE PROPOSED ACCRUAL RATES ARE SHOWN IN APPENDIX E. ....24

    LIFE ANALYSIS.....24

    SALVAGE ANALYSIS.....24

    SALVAGE CHARACTERISTICS .....25

**APPENDIX A .....194**

**COMPARISON OF EXISTING VS PROPOSED DEPRECIATION RATES .....194**

**APPENDIX B.....204**

**COMPUTATION OF ANNUAL DEPRECIATION ACCRUAL RATE.....204**

**APPENDIX C .....217**

**SUMMARY OF EXISTING & PROPOSED DEPRECIATION PARAMETERS .....217**

**APPENDIX D .....220**

**NET SALVAGE HISTORY .....220**

**APPENDIX E.....226**

**RECOMMENDED RATES FOR NEW ACQUISITIONS .....226**

## **PURPOSE**

The purpose of this study is to develop depreciation rates for depreciable property as recorded on Liberty's books at December 31, 2022. The account-based depreciation rates were designed to recover the total remaining undepreciated investment for the analyzed accounts, adjusted for net salvage, over the remaining life of the property on a straight-line basis.

Liberty owns and operates water and wastewater systems in communities across the state of Missouri. The Company operates and maintains water systems that treat water from wells, rivers, lakes, and reservoirs across several districts. In some districts, the Company also provides wastewater systems, designed, and operated with careful attention to the local environment.

### STUDY RESULTS

Overall depreciation rates for the specific depreciable property analyzed and included in this study are shown in Appendix A. These rates translate into an annual depreciation accrual of \$2.8 million based on Liberty's depreciable investment at December 31, 2022. The annual equivalent depreciation expense calculated by the same method using the approved rates is \$2.4 million. Appendix A presents a comparison of approved rates versus proposed rates by account and district. Appendix B demonstrates the development of the annual depreciation rates and accruals. Appendix C presents a summary of mortality and net salvage estimates by account. Appendix D shows the net salvage experience by account for the Company's assets. Finally, Appendix E shows the recommended depreciation accrual rates for new acquisitions.

Below is a summary of the proposed depreciation expense change.

Water	Increase	\$683,130
Waste Water	Decrease	\$(301,808)
Total	Increase	\$381,322

## SYSTEM DESCRIPTION

According to File No. WM-2018-0023 Liberty Utilities acquired the following Ozark International Inc subsidiaries:

- Bilyeu Ridge Water Company, LLC
- Midland Water Company, Inc
- Moore Bend Water Utility, LLC
- Riverfork Water Company
- Taney county Water
- Valley Woods Utility

In Total these six entities provide utility service to approximately 900 customers.

- 1. Bilyeu Ridge Water** - currently provides water service to 55 homes in the Bilyeu ridge subdivision near Ozark, in Christian County.
- 2. Midland Water** – currently provides water service to approximately 95 homes in the hidden meadow’s subdivision near Clever, Christian County.
- 3. Moore Bend Water**– Currently provides water service to approximately 91 connections in the Moore Bend subdivision near Cedar creek, in Taney County.
- 4. Riverfork Water** – currently provides water service for 143 homes in the Riverfork Ranch Subdivision near Nixa, in Christian County.
- 5. Taney County Water** – Currently provides water service to approximately 471 homes in Kissee Mills and Rockaway Beach in Taney County.
- 6. Valley Woods Utility** – provides both water and sewer utility services to approximately 42 homes in the Valley Woods Subdivision near Spokane, in Christian County.

According to Case No. WA-2019-0036 Liberty Utilities seeking authority for Liberty Utilities to purchase all assets of Franklin County Water Company, Inc.

**Franklin County Water** – Provides water service to approximately 189 residential customers in the Lake St. Clair subdivision.

According to Case No. SA-2020-0067 Liberty Utilities to acquire a sewer system in a service area that includes the Savers Farm Subdivision in Cape Girardeau County, MO

**Savers Farm Sewer** – Provides sewer utility services for approximately 110

residential customers.

According to Case No. WM-2020-0156 Liberty Water and Empire filed application seeking an order authorizing Empire to sell and transfer its water utility assets to Liberty Water.

**Liberty Water** - serves approximately 3,000 water and/or sewer system customers in McDonald, Stone, Taney and Christian counties in the southwest; Franklin and Jefferson Counties in the east; and Cape Girardeau County in the southeast.

**KMB Water & Waste Water** -includes 7 water properties and 1 Waste Water property located southwest of ST. Louis

1. Hillshine Community – Provides water service to approximately 29 residential and 4 commercial customers.  
  
Crest View Acres – Provides water service to approximately 58 residential total
2. Lakewood Hills – Provides water service to approximately 113 residential, 1 commercial – 114 total
3. Warren Woods Subdivision – Provides water service to approximately 19 residential total
5. High Ridge Manor - Provides water service to approximately 85 residential total
6. City of Scotsdale – Provides water service to approximately 35 residential, 7 commercial – 42 total
7. Cedar Hills – 170 residential, 16 commercial – 186 total
8. Cape Rock Village – Waste Water Only – 169 customers total

**Noel Water**- Services approximately 657 customers 540 residential and 117 commercials in Noel, MO

**Silverleaf Resort Water Properties** – All resort bills are mailed to Silverleaf

1. Fox River Resort, Sheridan IL. Non-Regulated (Located near Chicago) – Water only
2. Timber Creek Resort, De Soto, MO (Located near St. Louis) – Water & Sewer
3. Holiday Hills Resort, Branson, MO – Water only
4. Ozark Mountain Resort, Kimberling, MO (Located near Branson) – Water & Sewer

According to Case No. WM-2020-0174 Liberty Utilities (Missouri Water) to adopt

the currently effective tariffs of Lakeland Heights Water Company, Oakbrier Water Company, R.D. Sewer Company LLC, and Whispering Hills Water System.

**Lakeland Heights** – Provides Water service to approximately 101 single family residential customers in the Rockwood point Area of the city of Wappapello, Wayne County, MO.

**Oakbrier Water** – Provides water service to approximately 78 single-family residential customers located in Butler County, MO.

**R.D. Sewer Company** – provides sewer service to approximately 176 single-family residential customers in Stoddard County, MO.

**Whispering Hills** – provides water service to approximately 50 single-family residential customers in Wayne County, MO.

**Bolivar Water and Wastewater** – provides water service to about 615 commercial customers and about 4056 residential customers in Polk County, MO. Provides wastewater service to approximately 573 commercial customers and about 4029 residential customers in Polk County, MO.



## GENERAL DISCUSSION

### **Definition**

The term "depreciation" as used in this study is considered in the accounting sense; that is, a system of accounting that distributes the cost of assets, less net salvage (if any), over the estimated useful life of the assets in a systematic and rational manner. It is a process of allocation, not valuation. This expense is systematically allocated to accounting periods over the life of the properties. The amount allocated to any one accounting period does not necessarily represent the loss or decrease in value that will occur during that particular period. The Company accrues depreciation on the basis of the original cost of all depreciable property included in each functional property group. On retirement the full cost of depreciable property, less the net salvage value, is charged to the depreciation reserve.

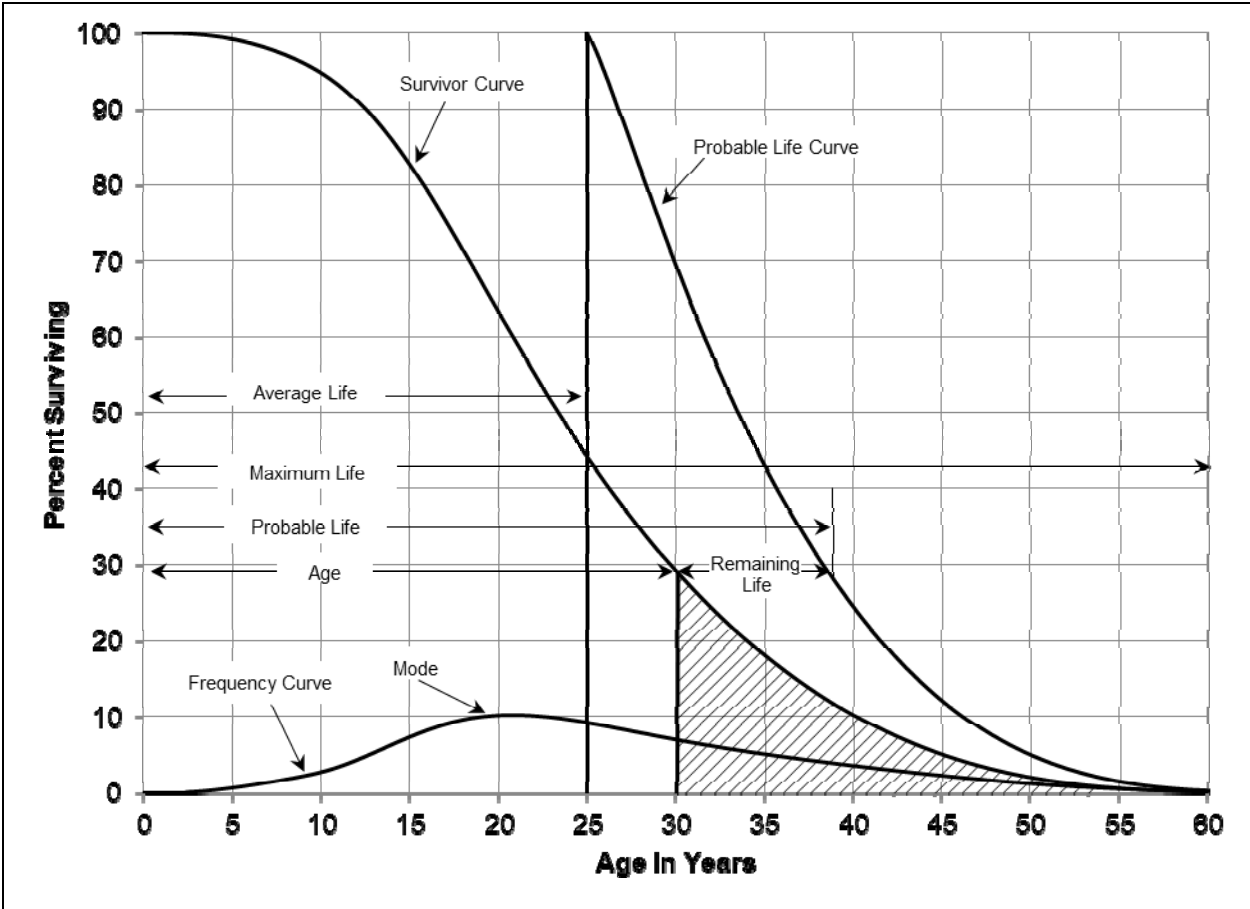
### **Basis of Depreciation Estimates**

The straight-line, broad (average) life group, remaining-life depreciation system was employed to calculate annual and accrued depreciation in this study. In this system, the annual depreciation expense for each group is computed by dividing the original cost of the asset less allocated depreciation reserve less estimated net salvage by its respective average life group remaining life. The resulting annual accrual amounts of all depreciable property within a function were accumulated, and the total was divided by the original cost of all functional depreciable property to determine the depreciation rate. The calculated remaining lives and annual depreciation accrual rates were based on attained ages of plant in service and the estimated service life and salvage characteristics of each depreciable group. The computations of the annual depreciation rates are shown in Appendix A.

**Survivor Curves**

To fully understand depreciation projections in a regulated utility setting, there must be a basic understanding of survivor curves. Individual property units within a group do not normally have identical lives or investment amounts. The average life of a group can be determined by first constructing a survivor curve which is plotted as a percentage of the units surviving at each age. A survivor curve represents the percentage of property remaining in service at various age intervals. The chart below shows a typical generalized survivor curve as well as some of the life characteristics that can be derived from the survivor curve.

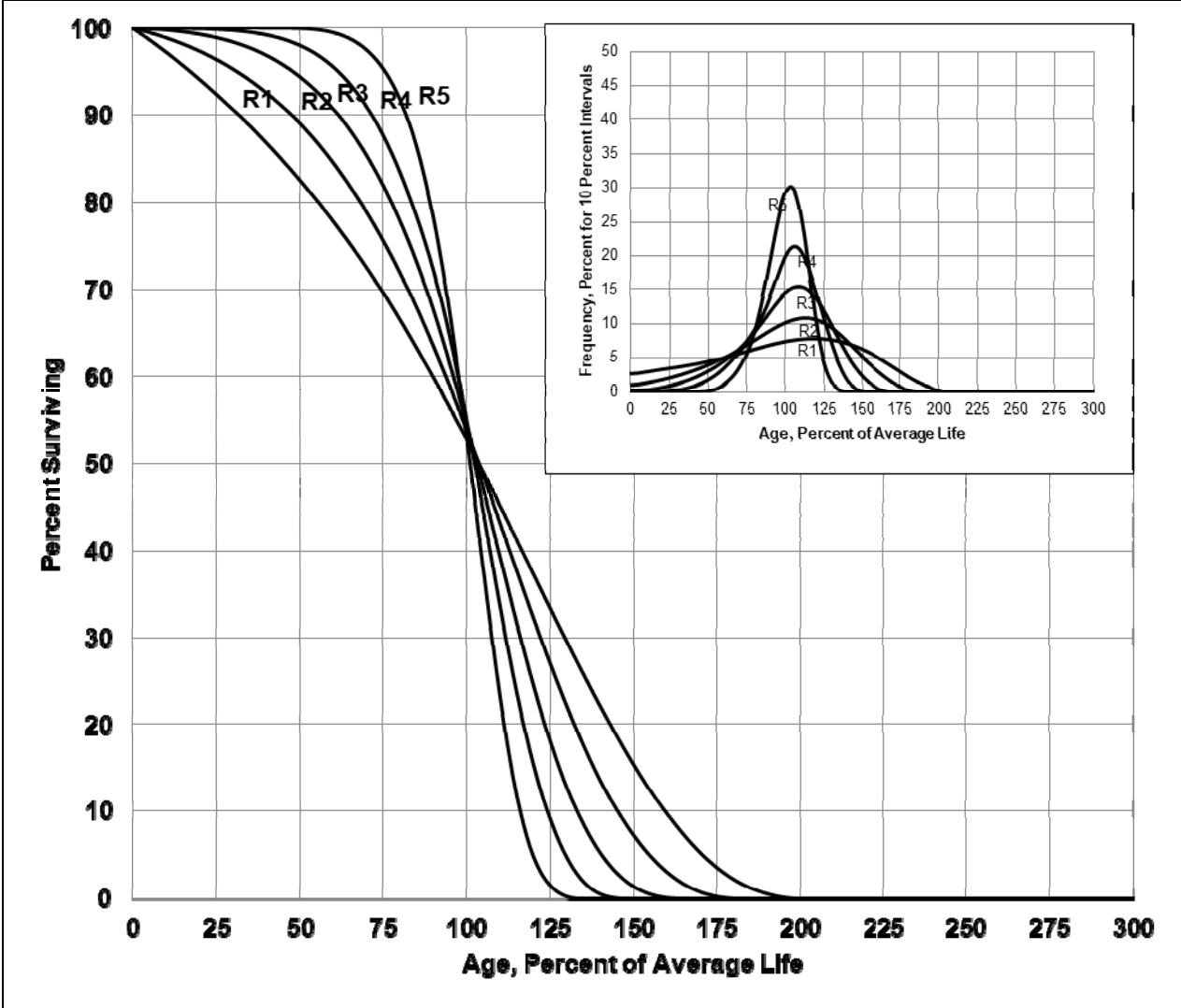
**GENERALIZED SURVIVOR CURVE**



The Iowa Curves (survivor curves) are the result of an extensive investigation of life characteristics of physical property made at Iowa State College Engineering Experiment Station in the first half of the prior century. Through common usage, revalidation and regulatory acceptance, these curves have become a descriptive standard for the life characteristics of industrial property.

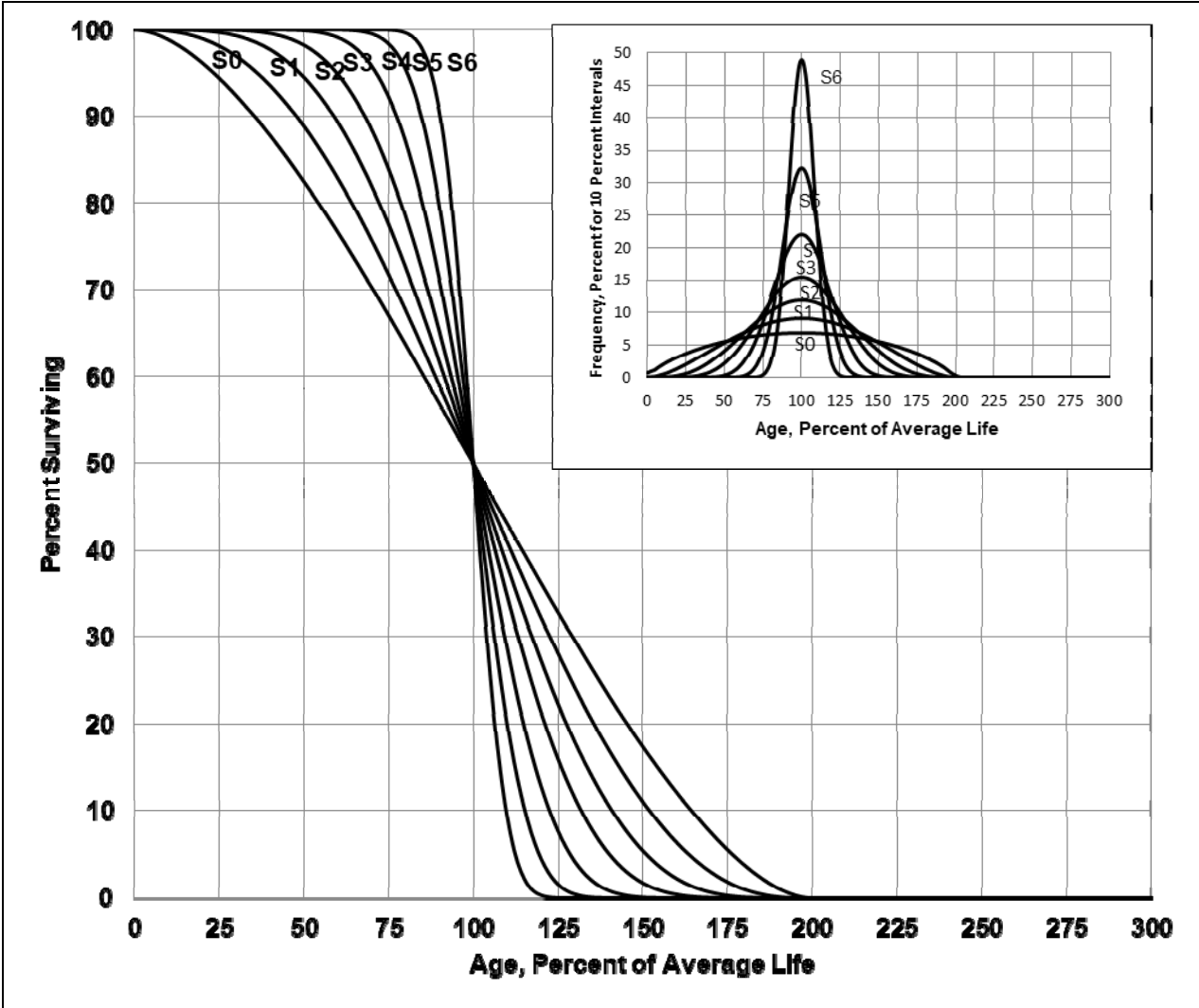
There are four families in the Iowa Curves that are distinguished by the relation of the age at the retirement mode (largest annual retirement frequency) and the average life. For distributions with the mode age greater than the average life, an "R" designation (i.e., Right modal) is used. The family of "R" moded curves is shown below.

R-TYPE IOWA SURVIVOR CURVES



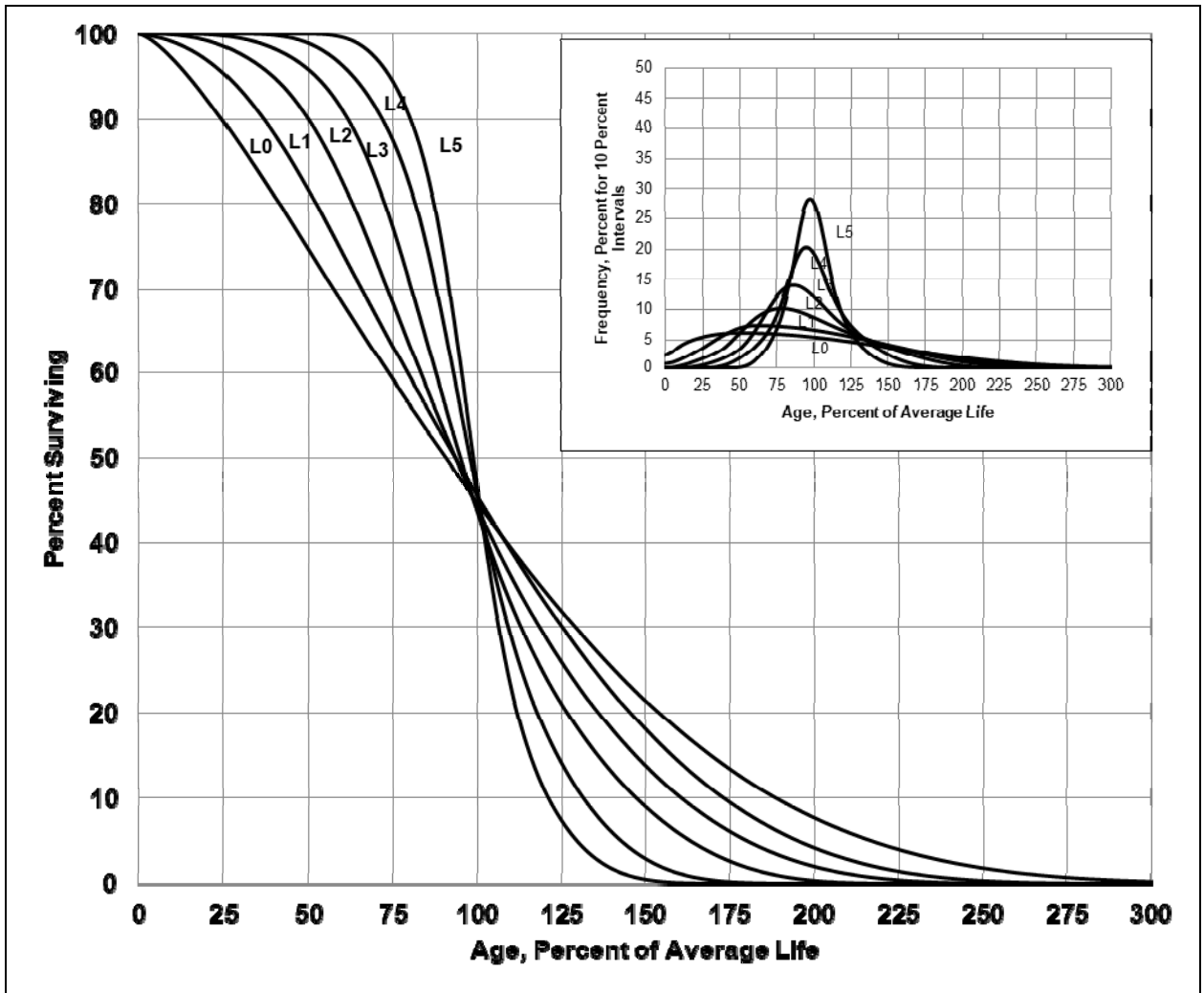
Similarly, an "S" designation (i.e., Symmetric modal) is used for the family whose mode age is symmetric about the average life. The higher the number of the curve, the greater the peak. A graph showing the S curves is shown below.

**S-TYPE IOWA SURVIVOR CURVES**



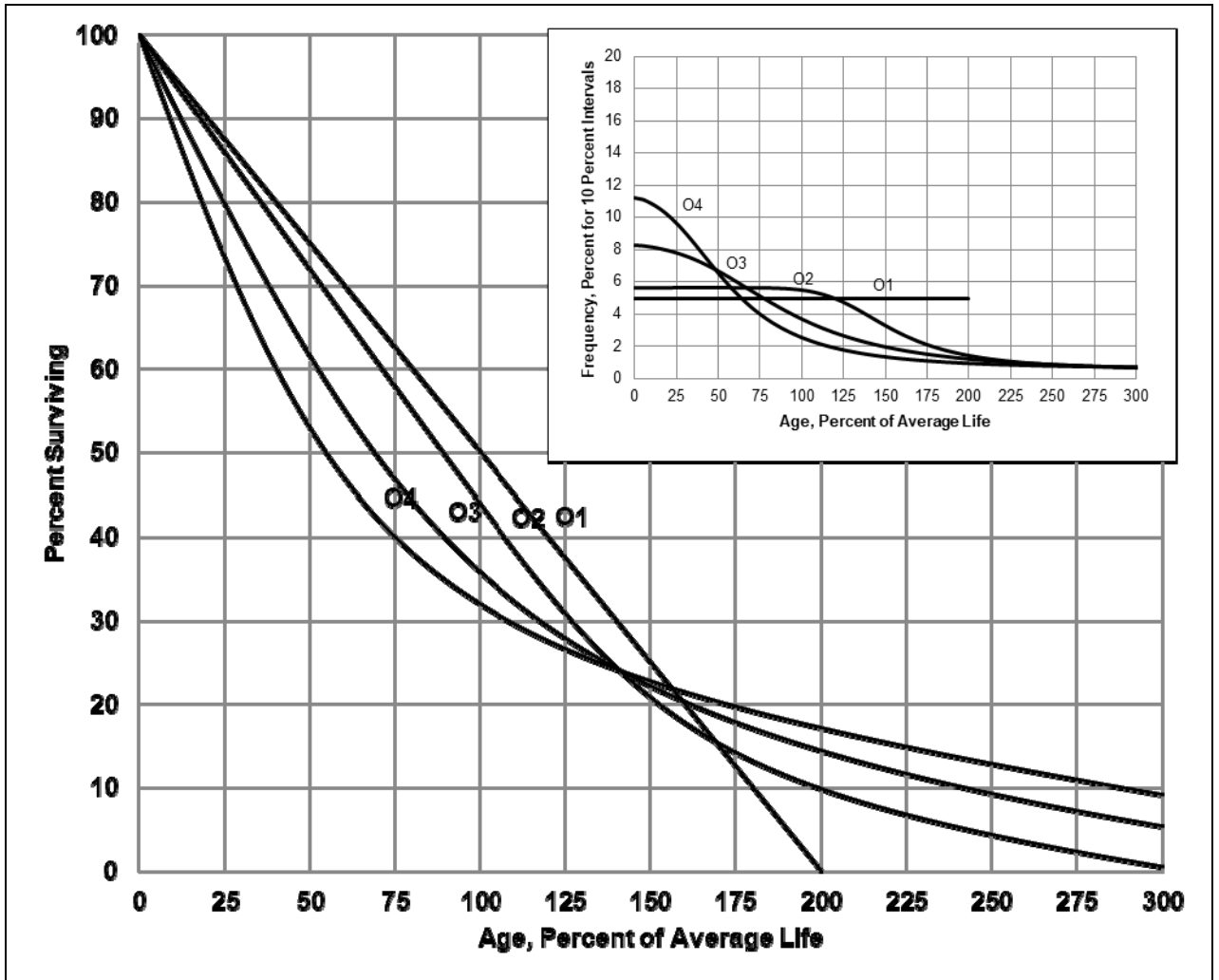
For distributions with the mode age less than the average life, a "L" designation (i.e., Left modal) is used. The family of "L" moded curves is shown below.

**L-TYPE IOWA SURVIVOR CURVES**



A special case of left modal dispersion is the "O" or origin modal curve family which was developed in the 1950s.

### O-TYPE IOWA SURVIVOR CURVES



Given how long the O curves live, the O curves are seldom used in analyzing utility property in Alliance Consulting Group's experience. The O curves have been used for intellectual property.

Within each curve family, numerical designations are used to describe the relative magnitude of the retirement frequencies at the mode. A "6" indicates that the retirements are not greatly dispersed from the mode (i.e., high mode frequency), while a "1" indicates a large dispersion about the mode (i.e., low mode frequency). For example, a curve with an average life of 30 years and an "L3" dispersion is a moderately dispersed, left modal curve that can be designated as a 30 L3 Curve. An SQ, or square, survivor curve occurs where no dispersion is present (i.e., units of common age retire simultaneously).

Most property groups can be closely fitted to one Iowa Curve with a unique average service life. The blending of judgment concerning current conditions and future trends along with the matching of historical data permits the depreciation analyst to make an informed selection of an account's average life and retirement dispersion pattern.



**Actuarial Analysis**

Actuarial analysis (retirement rate method) can be used in evaluating historical asset retirement experience where vintage data were available and sufficient retirement activity was present. In actuarial analysis, interval exposures (total property subject to retirement at the beginning of the age interval, regardless of vintage) and age interval retirements are calculated. The complement of the ratio of interval retirements to interval exposures establishes a survivor ratio. The survivor ratio is the fraction of property surviving to the end of the selected age interval, given that it has survived to the beginning of that age interval. Survivor ratios for all of the available age intervals were chained by successive multiplications to establish a series of survivor factors, collectively known as an observed life table. The observed life table shows the experienced mortality characteristic of the account and may be compared to standard mortality curves such as the Iowa Curves. None of the accounts have sufficient history to perform actuarial analysis. Over time, the Company will maintain detailed property records that will eventually allow actuarial analysis to be incorporated in future depreciation studies.

## **Judgment**

Any depreciation study requires informed judgment by the analyst conducting the study. A knowledge of the property being studied, company policies and procedures, general trends in technology and industry practice, and a sound basis of understanding depreciation theory are needed to apply this informed judgment. Judgment was used in areas such as survivor curve modeling and selection, depreciation method selection, simulated plant record method analysis, and actuarial analysis.

Judgment is not defined as being used in cases where there are specific, significant pieces of information that influence the choice of a life or curve. Those cases would simply be a reflection of specific facts into the analysis. Where there are multiple factors, activities, actions, property characteristics, statistical inconsistencies, implications of applying certain curves, property mix in accounts or a multitude of other considerations that impact the analysis (potentially in various directions), judgment is used to take all of these factors and synthesize them into a general direction or understanding of the characteristics of the property. Individually, no one factor in these cases may have a substantial impact on the analysis, but overall, may shed light on the utilization and characteristics of assets. Judgment may also be defined as deduction, inference, wisdom, common sense, or the ability to make sensible decisions. There is no single correct result from statistical analysis; hence, there is no answer absent judgment. At the very least for example, any analysis requires choosing which bands to place more emphasis.

The establishment of appropriate average service lives and retirement dispersions for each account requires judgment to incorporate the understanding of the operation of the system with the available accounting information analyzed using the Retirement Rate actuarial methods. The appropriateness of lives and curves depends not only on statistical analyses, but also on how well future retirement patterns will match past retirements.

Current applications and trends in use of the equipment also need to be factored into life and survivor curve choices in order for appropriate mortality characteristics to be chosen.

### **Average Life Group Depreciation**

Liberty is authorized to use the average life group (“ALG”) depreciation procedure. Continuing the same depreciation system, this study uses the ALG depreciation procedure to group the assets within each account. After an average service life and dispersion were selected for each account, those parameters were used to estimate what portion of the surviving investment of each vintage was expected to retire. The depreciation of the group continues until all investment in the vintage group is retired. ALG groups are defined by their respective account dispersion, life, and salvage estimates. A straight-line rate for each ALG group is calculated by computing a composite remaining life for each group across all vintages within the group, dividing the remaining investment to be recovered by the remaining life to find the annual depreciation expense and dividing the annual depreciation expense by the surviving investment. The resultant rate for each ALG group is designed to recover all retirements less net salvage when the last unit retires. The ALG procedure recovers net book cost over the life of each account by averaging many components.

### **Theoretical Depreciation Reserve**

The book depreciation reserve was derived from Company records where the provision for depreciation is maintained on a plant account level. As a point of comparison, a theoretical depreciation reserve model was computed for each account. This study used a reserve model that relied on a prospective concept relating future retirement and accrual patterns for property, given current life and salvage estimates. The theoretical reserve of a group is developed from the estimated remaining life, total life of the property group, and estimated net salvage. The theoretical reserve represents the portion of the group cost that would have been accrued if current forecasts were used throughout the life of the group for future depreciation accruals. The computation involves multiplying the vintage balances within the group by the theoretical reserve ratio for each vintage. The average life group method requires an estimate of dispersion and service life to establish how much of each vintage is expected to be retired in each year until all property within the group is retired. Estimated average service lives and dispersion determine the amount within each average life group. The straight-line remaining-life theoretical reserve ratio at any given age (RR) is calculated as:

$$RR = 1 - \frac{(Average\ Remaining\ Life)}{(Average\ Service\ Life)} * (1 - Net\ Salvage\ Ratio)$$

## DETAILED DISCUSSION

### **Depreciation Study Process**

This depreciation study encompassed four distinct phases. The first phase involved data collection and field interviews. The second phase was where the initial data analysis occurred. The third phase was where the information and analysis was evaluated. Once the first three stages were complete, the fourth phase began. This phase involved the calculation of depreciation rates and documentation of the corresponding recommendations.

During the Phase 1 data collection process, historical data was compiled from continuing property records and general ledger systems. Data was validated for accuracy by extracting and comparing to multiple financial system sources. Audit of this data was validated against historical data from prior periods, historical general ledger sources, and field personnel discussions. This data was reviewed extensively to put in the proper format for a depreciation study. Further discussion on data review and adjustment is found in the Salvage Considerations Section of this study. Also, as part of the Phase 1 data collection process, numerous discussions were conducted with Company engineers and field operations personnel to obtain information that would assist in formulating life and salvage recommendations in this study. One of the most important elements of performing a proper depreciation study is to understand how the Company utilizes assets and the environment of those assets. Interviews with engineering and operations personnel are important steps to allow the analyst to obtain information that is beneficial when evaluating the output from the life and net salvage programs in relation to the Company's actual asset utilization and environment. Information that was gleaned in these discussions is found both in the Detailed Discussion of this study in the life analysis and salvage analysis sections and also in workpapers.

Phase 2 is where the actuarial or SPR analysis is generally performed. In this instance, there was not sufficient information to do either analysis. Phases 2 and 3 overlap to a significant degree. The detailed property records information is used in Phase 2 to develop statistics and graphical representations of how various industry standard retirement patterns match the actual experience of the company for life analysis. These statistics are analyzed, and tables are visually compared to company's experience to determine historical life characteristics. It is possible that the analyst would cycle back to this phase based on the evaluation process performed in Phase 3. Net salvage analysis consists of compiling historical salvage and removal data by functional group to determine values and trends in gross salvage and removal cost. This information was then carried forward into phase 3 for the evaluation process.

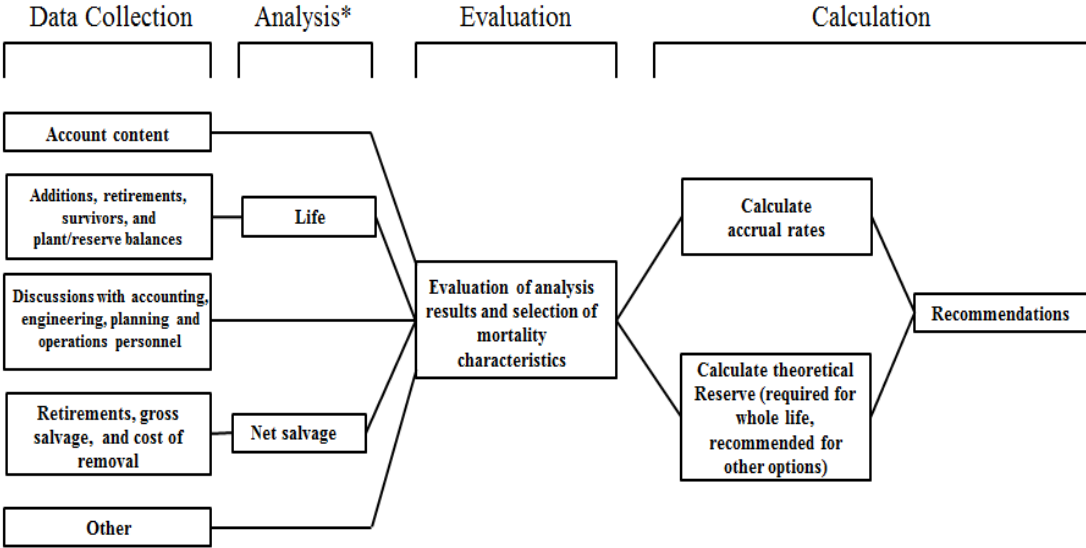
Phase 3 is the evaluation process which synthesizes analysis, interviews, and operational characteristics into a final selection of asset lives and net salvage parameters. The historical analysis from Phase 2 is further enhanced by the incorporation of recent or future changes in the characteristics or operations of assets that were revealed in Phase 1. Phases 2 and 3 allow the depreciation analyst to validate the asset characteristics as seen in the accounting transactions with actual Company operational experience.

Finally, Phase 4 involved the calculation of accrual rates, making recommendations, and documenting the conclusions in a final report. The calculation of accrual rates is found in Appendix A. Recommendations for the various accounts are contained within the Detailed Discussion of this report. The depreciation study flow diagram shown as Figure 1<sup>1</sup> documents the steps used in conducting this study. Depreciation Systems, page 289 documents the same basic processes in performing a depreciation study which are: statistical analysis, evaluation of statistical analysis, discussions with management, forecast assumptions, write logic supporting forecasts and estimation, and write final report.

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<sup>1</sup> Introduction to Depreciation for Public Utilities and Other Industries, AGA EEI, 2013

Book Depreciation Study Flow Diagram



Source: Introduction to Depreciation for Public Utilities and Other Industries, AGA EEI, 2013.

\*Although not specifically noted, the mathematical analysis may need some level of input from other sources (for example, to determine analysis bands for life and adjustments to data used in all analysis).

Figure 1

**LIBERTY MISSOURI WATER  
 DEPRECIATION STUDY PROCESS**

### **Depreciation Rate Calculation**

Annual depreciation expense amounts for the depreciable accounts of Liberty were calculated by the straight-line method, ALG procedure, and the remaining life technique. With this approach, remaining lives were calculated according to standard ALG group expectancy techniques, using the Iowa Curves noted in the calculation. For each plant account, the difference between the surviving investment, adjusted for estimated net salvage, and the book depreciation reserve, was divided by the average remaining life to yield the annual depreciation expense. These calculations are shown in Appendix B.

### **Remaining Life Calculation**

The establishment of appropriate average service lives and retirement dispersions for each account within a functional group was based on engineering judgment that incorporated available accounting information analyzed using the Retirement Rate actuarial methods. After establishment of appropriate average service lives and retirement dispersion, remaining life was computed for each account. Theoretical depreciation reserve with zero net salvage was calculated using theoretical reserve ratios as defined in the theoretical reserve portion of the General Discussion section. The difference between plant balance and theoretical reserve was then spread over the ALG depreciation accruals. Remaining life computations are found for each account in the workpapers.

### **Whole Life Calculation**

In the case of new acquisitions, it is necessary to set depreciation rates when those assets are brought into rate base. Since the reserve position may vary between entities and accounts, this study recommends an average life, straight line, whole life procedure. In a whole life representation, the annual accrual rate is computed by the following equation,



$$\text{Annual Accrual Rate} = \frac{(100\% - \text{Net Salvage Percent})}{\text{Average Service Life}}$$

The proposed accrual rates are shown in Appendix E.

### **Life Analysis**

The retirement rate actuarial analysis method was insufficient to develop life estimates. Interviews with Company subject matter experts (“SMEs”) provided information about the Company’s assets as well as a review of the types and mix of assets within each account provided a better understanding of the average life expectation for each account. For consistency, one life was chosen for all districts. In all cases, input from Company SMEs as well as the experience of the analyst were used to develop the estimated life parameter.

### **Salvage Analysis**

When a capital asset is retired, physically removed from service, and finally disposed of, terminal retirement is said to have occurred. The residual value of a terminal retirement is called gross salvage. Net salvage is the difference between the gross salvage (what the asset was sold for) and the removal cost (cost to remove and dispose of the asset).

Gross salvage and cost of removal related to retirements are recorded to the general ledger in the accumulated provision for depreciation at the time retirements occur within the system.

Net salvage data by plant account and entity for all depreciable property is shown in Appendix D. Removal cost percentages are calculated by dividing the current cost of removal by the original installed cost of the asset. Some plant assets can experience significant negative removal cost percentages due to the timing of the addition versus the retirement. For example, a Transmission and Distribution asset in Account 342 Hydrants with a current installed cost of \$500

(2022) would have had an installed cost of \$35.98<sup>2</sup> in 1972. A removal cost of \$50 for the asset calculated (incorrectly) on current installed cost would only have a negative 10 percent removal cost ( $\$50/\$500$ ). However, a correct removal cost calculation would show a negative 139 percent removal cost for that asset ( $\$50/\$35.98$ ). Inflation from the time of installation of the asset until the time of its removal must be taken into account in the calculation of the removal cost percentage because the depreciation rate, which includes the removal cost percentage, will be applied to the original installed cost of assets.

### **Salvage Characteristics**

For each account in the study, retirement, salvage, and removal cost were evaluated to the degree information was available. The recommended estimate of net salvage for its assets (reviewed here for reasonableness) was provided by a separate Professional Engineer that the Company previously retained to develop proposed net salvage factors for each asset group.

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<sup>2</sup> Using the Handy-Whitman Bulletin No. 198, W-3, line 42,  $\$35.98 = \$500 \times 95/1320$ .

**WATER ACCOUNT SPECIFIC INFORMATION**

**WATER Account 303 Intangible Plant**

This account consists of various intangible software used for water operations.

**LIFE ANALYSIS**

The account balance is \$212.8 thousand for this account. The life of the software projects are determined by Company experts depending on the use of the application. This study recommends that these assets retain the existing service life. All assets are estimated to have a SQ dispersion. No graph is shown.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Shared Location	151,968.64	3	3 SQ
Shared Location	32,822.37	5	5 SQ
Shared Location	7,951.10	6	6 SQ
Shared Location	19,543.55	7	7 SQ
Oakbrier	520.36	5	5 SQ

**NET SALVAGE**

The existing net salvage parameter for all districts is 0 percent. In Alliance’s experience, software has no value at the end of this life. Considering judgment, and knowledge of the assets in this account, this depreciation study recommends 0 percent net salvage for this account.

A table showing parameters for each district is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Shared Location	0%	0%
Oakbrier	0%	0%

### **WATER Account 311 Structures and Improvements**

This account consists of structures and improvements associated with source of supply.

#### **LIFE ANALYSIS (30 R2)**

The account balance is \$1.9 million for this account. The current life for this account is shown in the table below. Company subject matter experts (“SMEs”) experience suggest well house structures will only last 20-30 years. Most structures are metal, with some being cement blocks. The high moisture in the building will create issues shortening the life of the structure. Chlorine in the buildings will also cause corrosion. Company SMEs would expect an operational life of 30 years is reasonable.

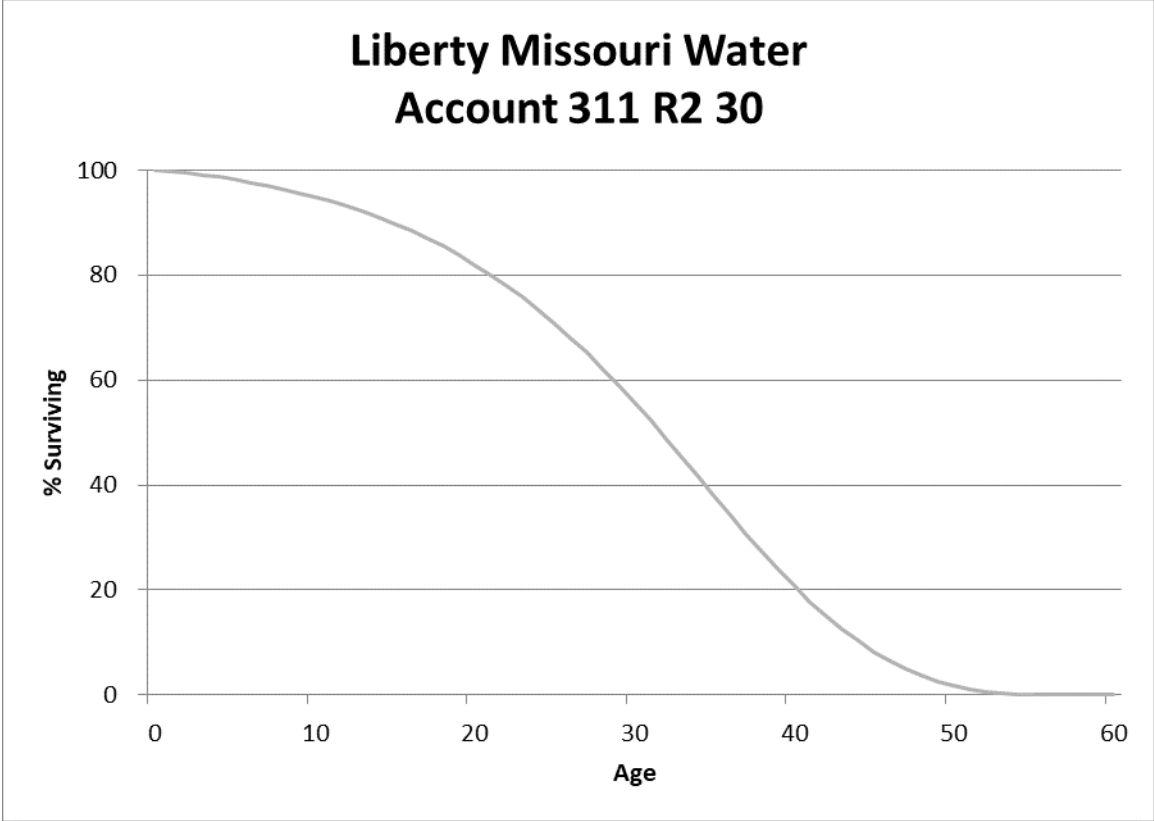
Based on information from interviews and the nature and forces limiting the life of the structures, a 30 year life with an R2 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	\$285,246.01	40	30 R2
Timber Creek	\$171,410.59	40	30 R2
Ozark Mountain	\$120,796.22	40	30 R2
Noel	\$400,411.70	40	30 R2
KMB	\$246,507.49	40	30 R2
Shared Location			30 R2
Midland County	\$2,311.00	40	30 R2
Bilyeu	\$5,141.00	40	30 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Moore Bend			30 R2
Riverfork County	\$193,909.51	40	30 R2
Taney County			30 R2
Valley Woods			30 R2
Franklin County	\$3,718.00	40	30 R2
Empire Water	\$477,513.31	40	30 R2
Lakeland Heights	\$229.54	33	30 R2
Whispering Hills	\$88.71	33	30 R2
Oakbrier	\$ 1,957.23	33	30 R2
Bolivar			30 R2

A generic curve shape is shown below.



**NET SALVAGE (0 %)**

The existing net salvage parameter varies between 0 and 10 percent. The Company's engineering consultant recommended 0 percent net salvage for these assets.

A table showing the net salvage parameters for each district is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	10%	0%
Timber Creek	10%	0%
Ozark Mountain	10%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%



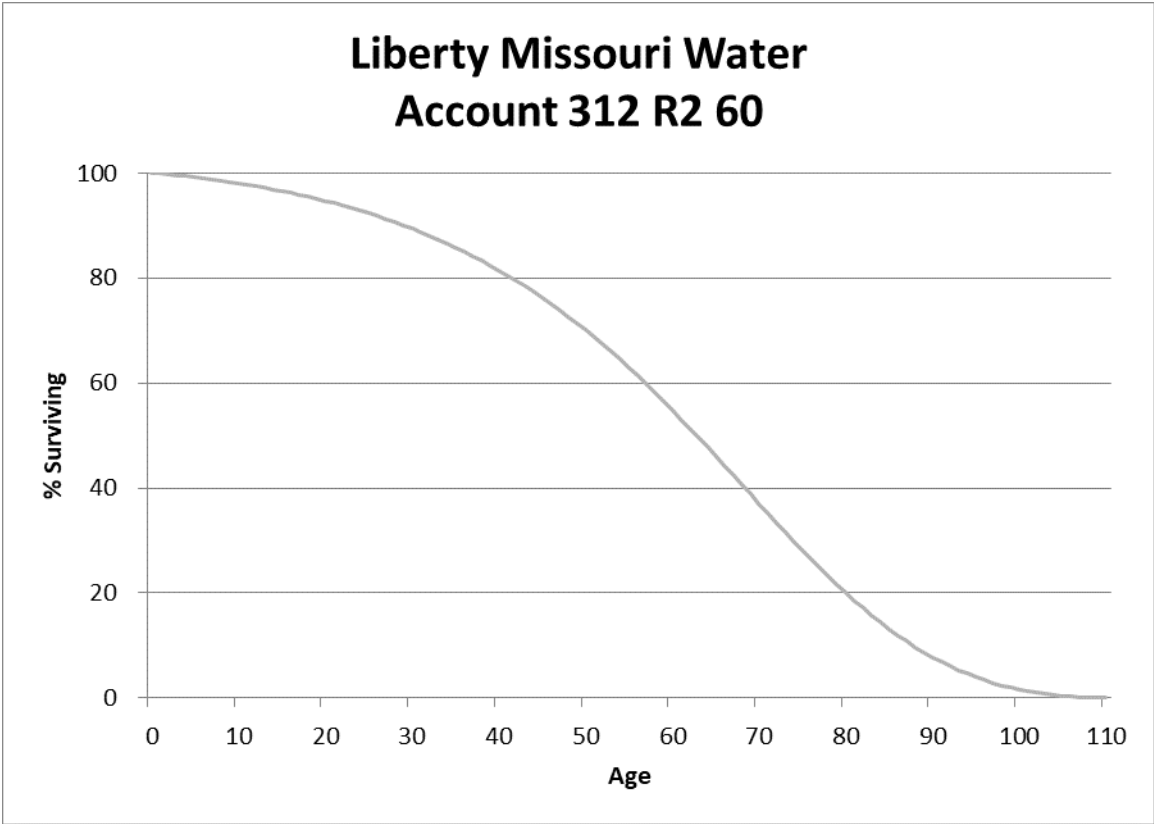
**WATER Account 3120 Collect & Impound Reservoirs**

This account consists of the cost of collecting impound reservoirs used in a source of supply operations.

**LIFE ANALYSIS (60 R2)**

There was no plant in this account at the end of 2022. During 2023, the Company has added assets for backup generation when power goes out. Based on the recommendation for Accounts 342 and other accounts in the Supply grouping, a 60 year life with an R2 dispersion for all districts is recommended for this account.

A generic curve shape is shown below.



**NET SALVAGE (-5%)**

There are currently no assets in this account. Plant is being added in 2023. Based on similar accounts in this function, a negative five percent net salvage is proposed for this account for all districts.

### **WATER Account 314 Wells and Springs**

This account consists of wells and springs.

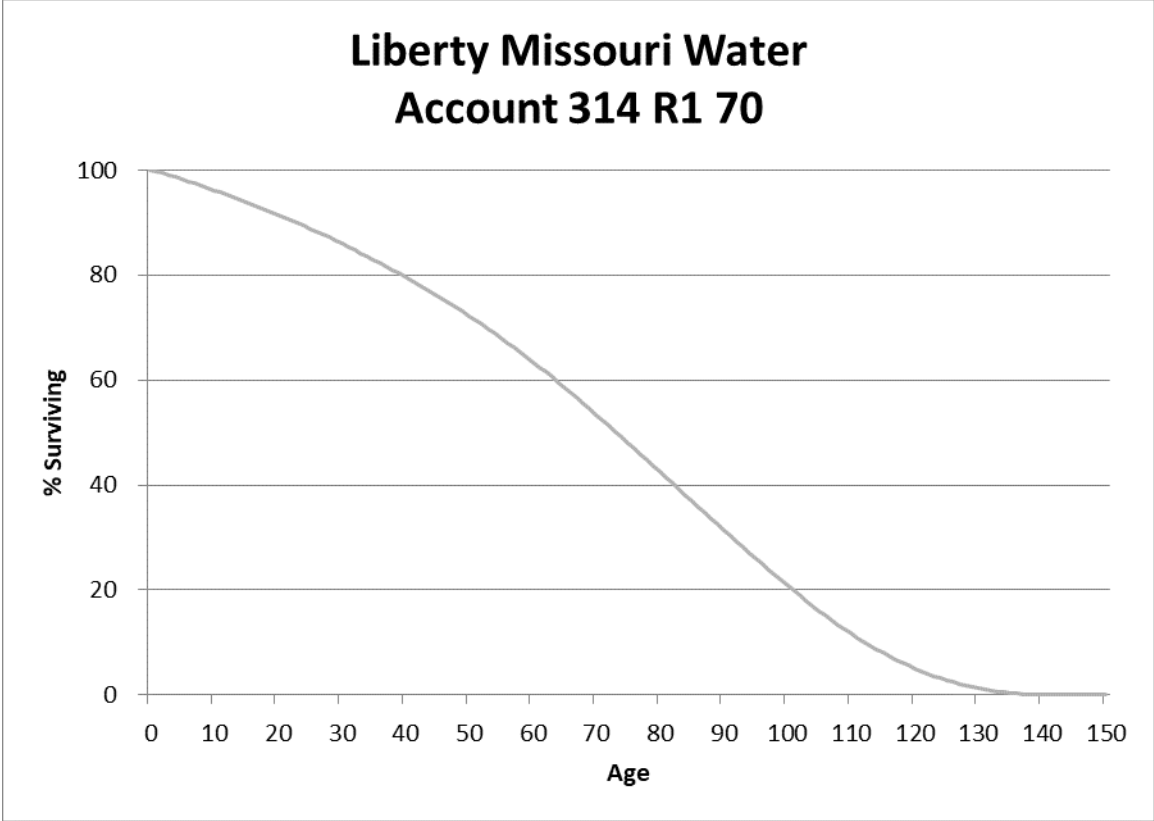
#### **LIFE ANALYSIS (70 R1)**

The account balance is \$2.8 million for this account. The current life for this account is shown for each division in the table below. The Company has wells inspected periodically. When the Company evaluates wells, they will replace motors, pumps, wires, pipe, and other assets as needed. They will inspect the head and do a capital rebuild if necessary. Company SMEs report that the wells are holding up well. Some wells show a drop in yield depending on its location. The well itself may last longer than 80 years. Some of the other components in this account will have a shorter life of 15 years for assets such as the pumps, motors, and wiring. Company SMEs believe an average life of 70 years is reasonable from an operational perspective. Based on information from interviews and the types of assets in the account, a 70 year life with an R1 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	\$107,225.00	50	70 R1
Timber Creek	\$138,676.00	50	70 R1
Ozark Mountain	\$118,835.94	50	70 R1
Noel	\$417,268.76	50	70 R1
KMB	\$159,529.77	50	70 R1
Shared Location			70 R1
Midland County	\$ 12,072.00	50	70 R1
Bilyeu	\$15,883.83	50	70 R1
Moore Bend	\$41,907.93	50	70 R1
Riverfork County	\$23,509.13	50	70 R1
Taney County	\$261,745.35	50	70 R1
Valley Woods	\$52,923.07	50	70 R1
Franklin County	\$16,674.00	50	70 R1
Empire Water	\$265,598.22	50	70 R1
Lakeland Heights	\$14,127.59	50	70 R1
Whispering Hills	\$11,075.10	50	70 R1
Oakbrier	\$9,896.71	50	70 R1
Bolivar	1,114,285.00	50	70 R1

A generic curve shape is shown below.



**NET SALVAGE (-15%)**

The existing net salvage parameter for most districts ranges from 0 or positive 8 per cent.

A table showing parameters for each district is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	8%	-15%
Timber Creek	8%	-15%
Ozark Mountain	8%	-15%
Noel	8%	-15%
KMB	8%	-15%
Shared Location	0%	-15%
Midland County	0%	-15%
Bilyeu	0%	-15%
Moore Bend	0%	-15%
Riverfork County	0%	-15%
Taney County	0%	-15%
Valley Woods	0%	-15%
Franklin County	0%	-15%
Empire Water	0%	-15%
Lakeland Heights	0%	-15%
Whispering Hills	0%	-15%
Oakbrier	0%	-15%
Bolivar	0%	-15%

**WATER Account 316 Supply Mains**

This account consists of mains associated with the source of supply.

**LIFE ANALYSIS (70 R2)**

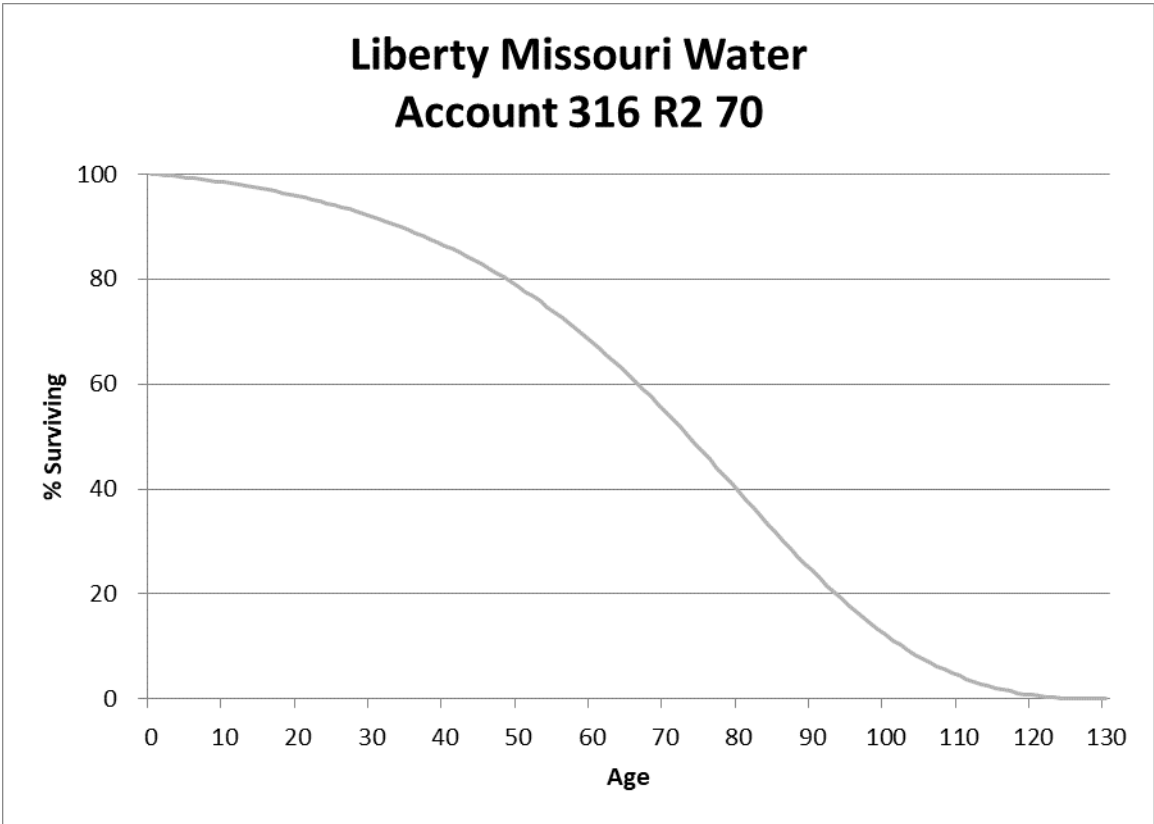
The account balance is \$128 thousand for this account. The current life for this account is shown in the table below. Company SMEs believe that operationally, these assets should have a similar life characteristic as Account 343, Transmission and Distribution Mains, which will be discussed later in this report. Based on information from interviews and analyst experience, a 70 year life with an R2 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	\$34,756.26	50	70 R2
Timber Creek			70 R2
Ozark Mountain	\$5,451.06	50	70 R2
Noel			70 R2
KMB			70 R2
Shared Location			70 R2
Midland County			70 R2
Bilyeu			70 R2
Moore Bend			70 R2
Riverfork County			70 R2
Taney County	\$55,435.89	50	70 R2
Valley Woods			70 R2
Franklin County	\$30,695.62	50	70 R2
Empire Water			70 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Lakeland Heights			70 R2
Whispering Hills			70 R2
Oakbrier	\$1,488.26	50	70 R2
Bolivar			70 R2

A generic curve shape is shown below.





A table showing the Net Salvage is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	-5%
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
Noel	0%	-5%
KMB	0%	-5%
Shared Location	0%	-5%
Midland County	0%	-5%
Bilyeu	0%	-5%
Moore Bend	0%	-5%
Riverfork County	0%	-5%
Taney County	0%	-5%
Valley Woods	0%	-5%
Franklin County	0%	-5%
Empire Water	0%	-5%
Lakeland Heights	0%	-5%
Whispering Hills	0%	-5%
Oakbrier	0%	-5%
Bolivar	0%	-5%

**WATER Account 321 Structures and Improvements - Pumping**

This account consists of structures and improvements associated with pumping operations.

**LIFE ANALYSIS (30 R2)**

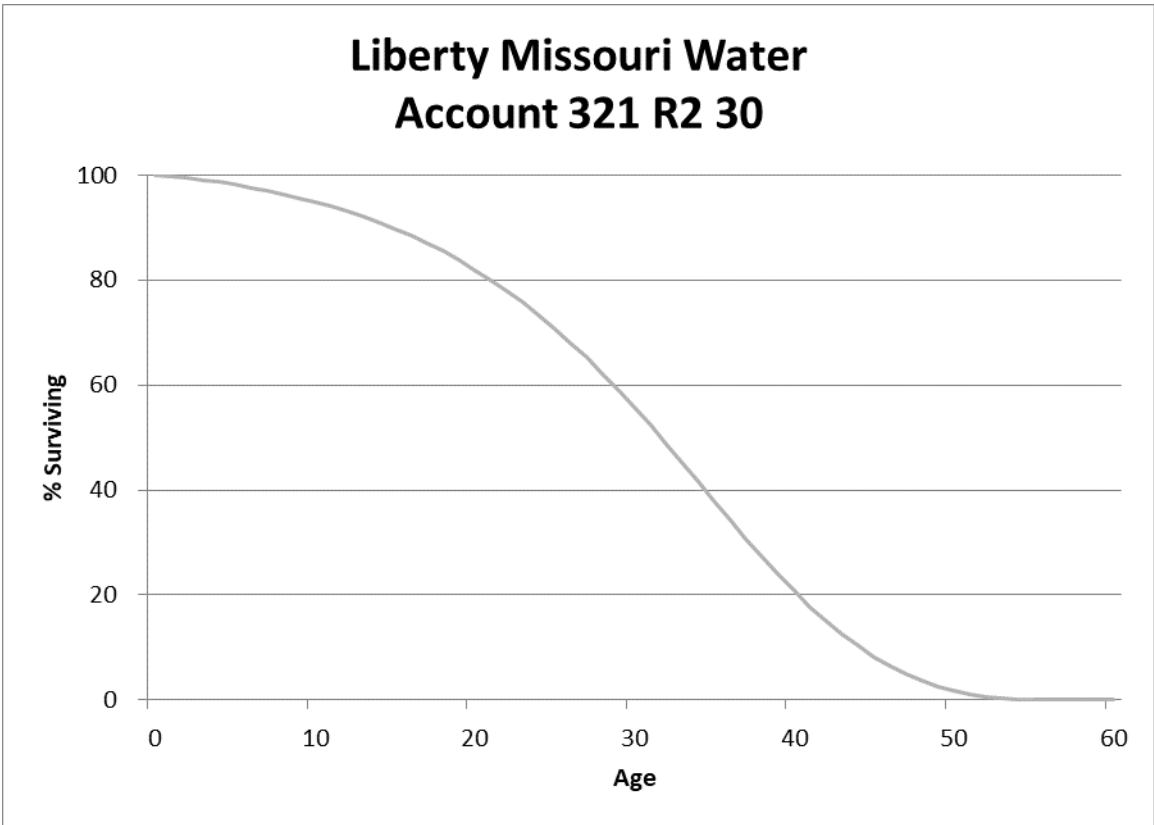
The account balance is \$25 thousand for this account. Company experts stated these assets are very similar in nature to structures in account 311, Source of Supply Structures. Based on information from interviews and analyst experience, a 30 year life with an R2 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			30 R2
Timber Creek			30 R2
Ozark Mountain			30 R2
Noel			30 R2
KMB			30 R2
Shared Location			30 R2
Midland County			30 R2
Bilyeu			30 R2
Moore Bend	\$8,987.00	40	30 R2
Riverfork County			30 R2
Taney County	\$5,069.00	40	30 R2
Valley Woods	\$8,950.00	40	30 R2
Franklin County			30 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Empire Water			30 R2
Lakeland Heights	\$331.06	33	30 R2
Whispering Hills	\$2,061.30	33	30 R2
Oakbrier	\$85.66	33	30 R2
Bolivar			30 R2

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

A table showing parameters for each district is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

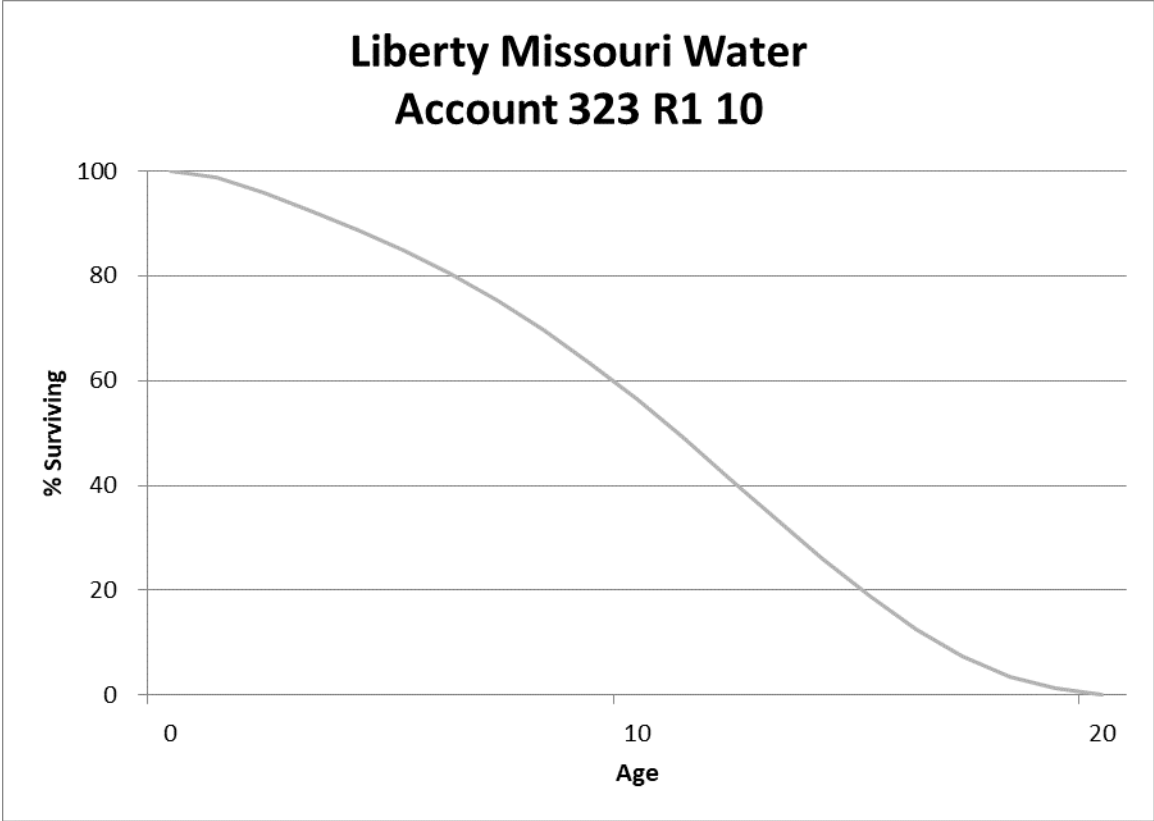
**WATER Account 323 Other Production Equipment**

This account is for backup power generators to keep the pumps going when power is lost. This account consists of electric pumping equipment.

**LIFE ANALYSIS (10 R1)**

There was no plant in this account at the end of 2022. During 2023, the Company has added assets for backup generation when power goes out. Based on the recommendation for Accounts 321 and 325, a 10 year life with an R1 dispersion for all districts is recommended for this account.

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The Company previously had no investment in this account. Based on the recommendations for Account 321 and 325, 0% net salvage is recommended for all districts.

**WATER Account 325 Electric Pumping Equipment**

This account consists of electric pumping equipment.

**LIFE ANALYSIS (10 R1)**

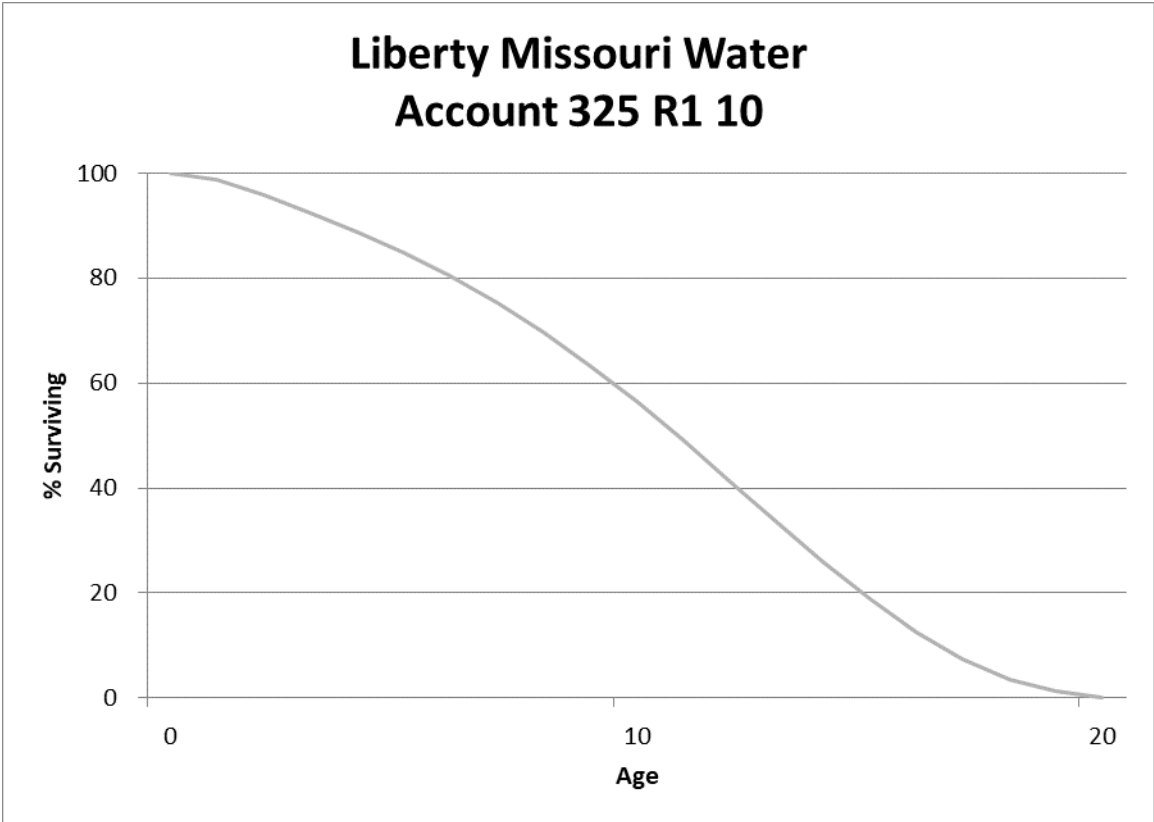
The account balance is \$82 thousand for this account. Company SMEs report that they have tried different pumps in hopes of a longer life with limited success. Older pumps used to have brass impellers which would have had a longer life. Newer models have a shorter life. The electronics or motors for pumps are the components that are most likely to fail. They are just starting to install VFDs – which may help. Company SMEs are experiencing an operational life of 10 years. Based on information from interviews and analyst experience, a 10 year life with an R1 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			10 R1
Timber Creek			10 R1
Ozark Mountain			10 R1
Noel			10 R1
KMB			10 R1
Shared Location			10 R1
Midland County			10 R1
Bilyeu			10 R1
Moore Bend			10 R1
Riverfork County	81,967.48	10	10 R1
Taney County			10 R1

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Valley Woods			10 R1
Franklin County			10 R1
Empire Water			10 R1
Lakeland Heights			10 R1
Whispering Hills			10 R1
Oakbrier			10 R1
Bolivar			10 R1

A generic curve shape is shown below.





**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

A table showing parameters for each district is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 325.1 Submersible Electric Pumping Equipment**

This account consists of submersible electric pumping equipment.

**LIFE ANALYSIS (10 R1)**

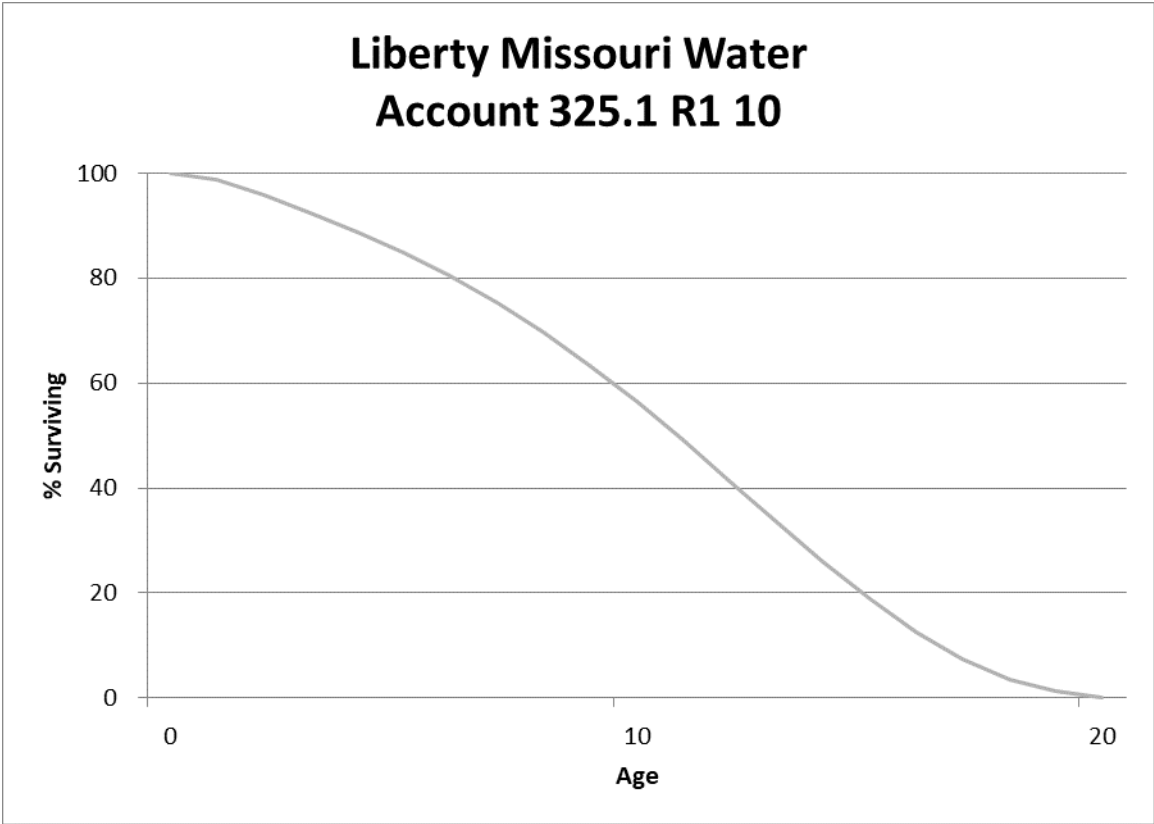
The account balance is \$1.4 million for this account. Company experts believe the life of assets in this account will have similar characteristics to those in Account 325, Pumping Equipment. Based on information from interviews and analyst experience, a 10 year life with an R1 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			10 R1
Timber Creek			10 R1
Ozark Mountain			10 R1
Noel	374,791.68	10	10 R1
KMB			10 R1
Shared Location			10 R1
Midland County	13,688.78	10	10 R1
Bilyeu	11,046.19	10	10 R1
Moore Bend			10 R1
Riverfork County			10 R1
Taney County	38,064.72		10 R1
Valley Woods	10,449.00	10	10 R1
Franklin County	45,158.00	10	10 R1
Empire Water	781,921.18	10	10 R1

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Lakeland Heights	14,127.59	100	10 R1
Whispering Hills	4,105.03	10	10 R1
Oakbrier	8,467.04	10	10 R1
Bolivar	109,186.34	10	10 R1

A generic curve shape is shown below.



**NET SALVAGE (0 %)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

A table showing parameters for each district is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	20%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 325.2 High Service or Booster Pumps**

This account consists of high service or booster pumps.

**LIFE ANALYSIS (10 R1)**

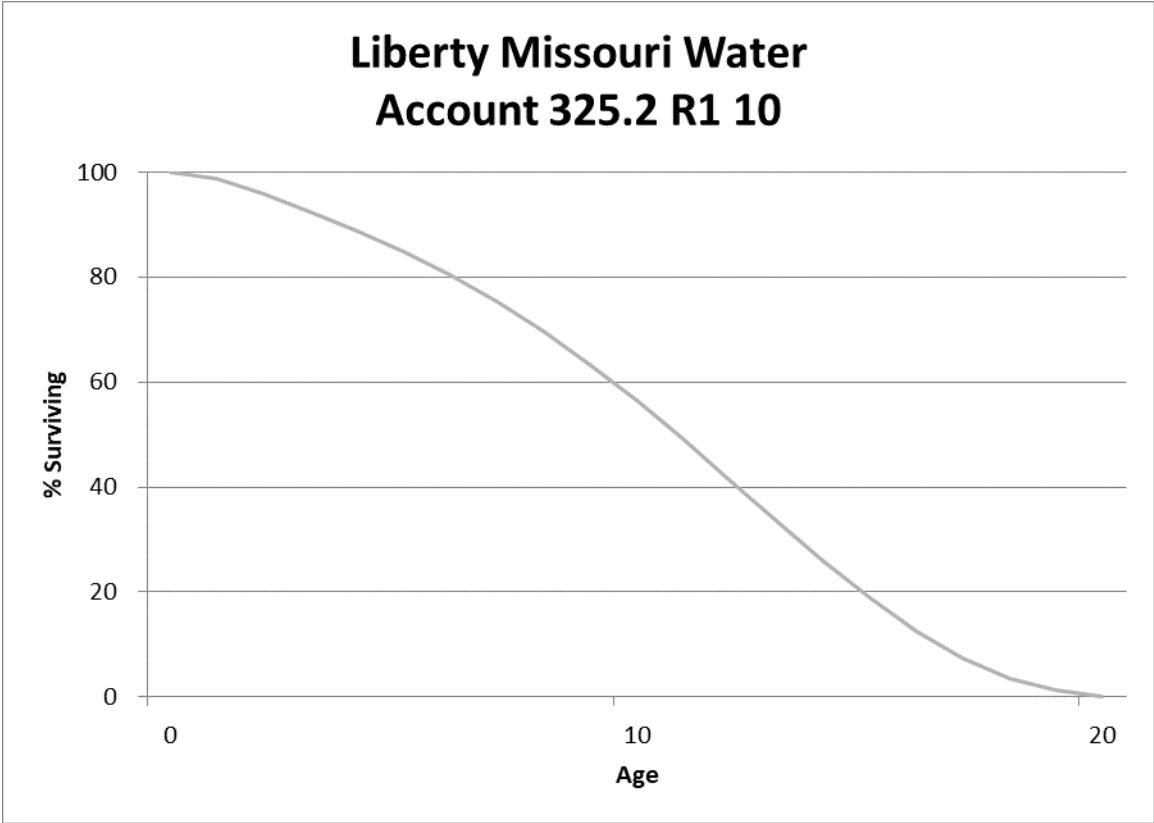
The account balance is \$1.4 million for this account. Company experts believe the operational life characteristics of this account will be similar to assets in Account 325, Pumping Equipment due to the similarities in type and operational characteristics of the assets. Based on information from interviews and analyst experience, a 10 year life with an R1 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	401,347.55	14	10 R1
Timber Creek	227,317.63	14	10 R1
Ozark Mountain	107,056.08	14	10 R1
Noel	347,300.37	14	10 R1
KMB	170,504.72	14	10 R1
Shared Location			10 R1
Midland County	50,112.54	4	10 R1
Bilyeu	25,562.91	14	10 R1
Moore Bend	9,610.29	14	10 R1

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Riverfork County			10 R1
Taney County	25,318.34	14	10 R1
Valley Woods	20,058.89	14	10 R1
Franklin County			10 R1
Empire Water			10 R1
Lakeland Heights			10 R1
Whispering Hills			10 R1
Oakbrier			10 R1
Bolivar			10 R1

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

A table showing parameters for each district is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%



**WATER Account 332 Water Treatment Equipment**

This account consists of cost of apparatus, equipment, and other facilities used to treat water.

**LIFE ANALYSIS (10 R4)**

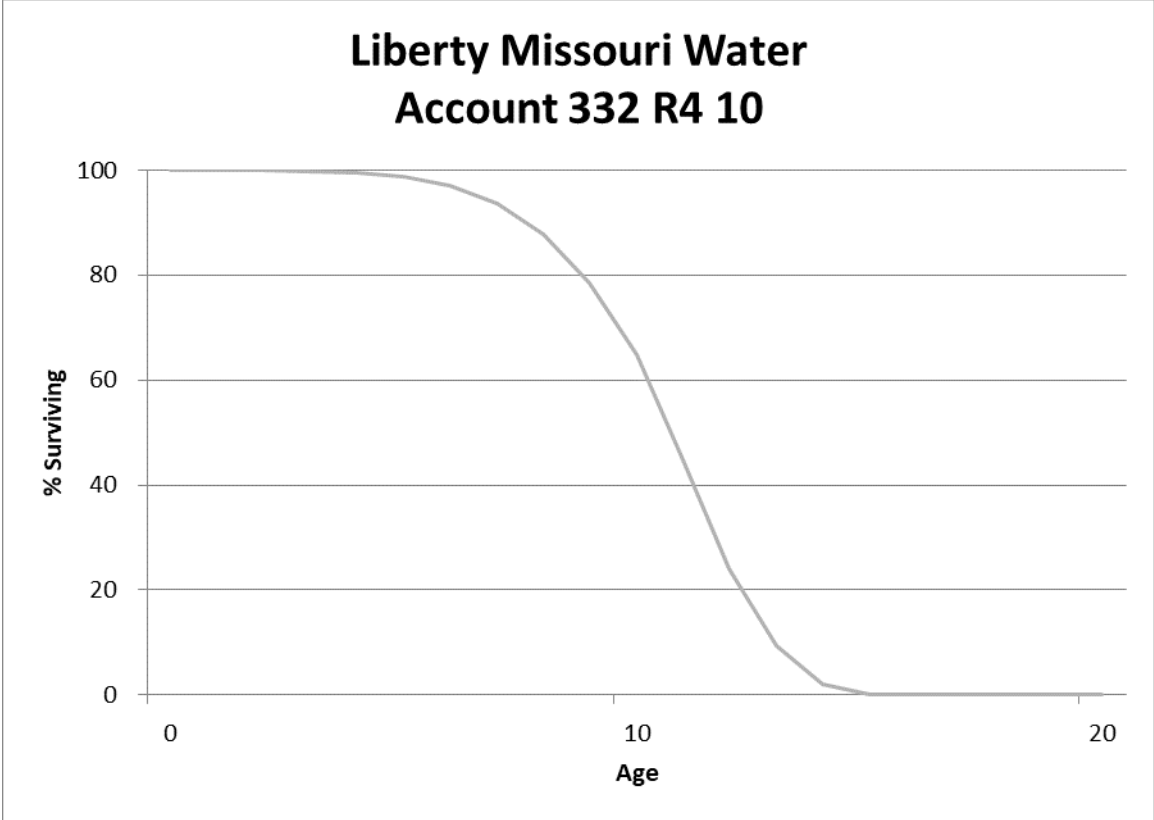
The account balance is \$1.2 million thousand for this account. Company personnel report that they experience most components failure at around 10 years. The assets will last a short period of time given the asset’s exposure to corrosive chemicals. Based on information from interviews and analyst experience, a 10 year life with an R4 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	136,061.52	34	10 R4
Timber Creek	23,531.78	34	10 R4
Ozark Mountain	119,044.50	34	10 R4
Noel	97,247.75	34	10 R4
KMB	29,441.53	34	10 R4
Shared Location			10 R4
Midland County	17,631.31	34	10 R4

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Bilyeu	19,491.62	34	10 R4
Moore Bend	5,208.00	34	10 R4
Riverfork County	20,858.21	34	10 R4
Taney County	117,377.51	34	10 R4
Valley Woods	18,556.80	34	10 R4
Franklin County	12,148.22	34	10 R4
Empire Water	138,778.44	34	10 R4
Lakeland Heights	23,229.70	34	10 R4
Whispering Hills	25,869.88	34	10 R4
Oakbrier	16,403.00	34	10 R4
Bolivar	389,595.35	34	10 R4

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

A table showing the plant balances and life parameters is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 332.2 Chemical Feeders**

This account consists of chemical feeders.

**LIFE ANALYSIS (5 R5)**

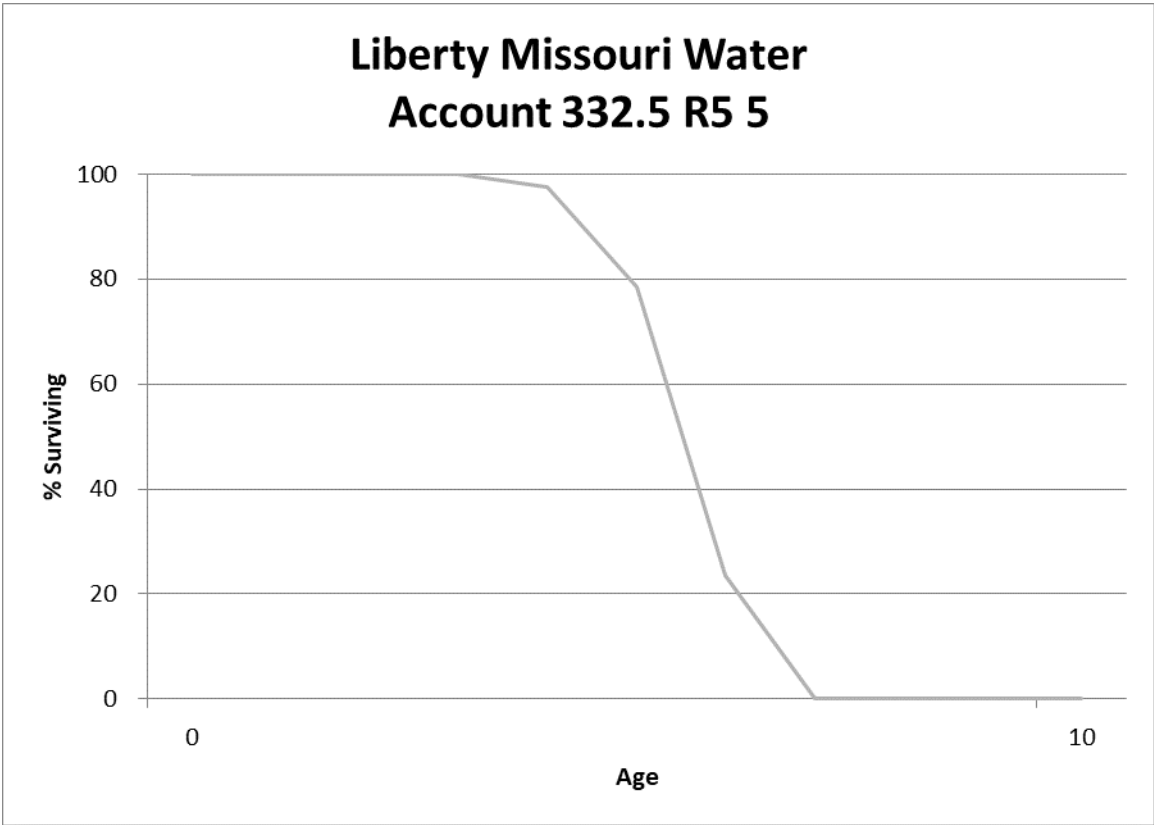
The account balance is \$2 thousand for this account. Company SMEs report that exposure to chemicals shortens the life of this equipment. Based on information from interviews and analyst experience, a 5 year life with an R5 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			5 R5
Timber Creek			5 R5
Ozark Mountain			5 R5
Noel	2,178.99	34	5 R5
KMB			5 R5
Shared Location			5 R5
Midland County			5 R5
Bilyeu			5 R5
Moore Bend			5 R5
Riverfork County			5 R5
Taney County			5 R5
Valley Woods			5 R5
Franklin County			5 R5
Empire Water			5 R5
Lakeland Heights			5 R5

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Whispering Hills			5 R5
Oakbrier			5 R5
Bolivar			5 R5

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

A table showing parameters for each district is shown below.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 340 Office Furniture and Equipment**

This account consists of office furniture and equipment.

**LIFE ANALYSIS (20 SQ)**

The account balance is \$4 thousand for this account. Most of the Company’s assets of this type are in Account 3910, which is discussed later in this report. Based on information from interviews and analyst experience, a 20 year life with an SQ dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			20 SQ
Timber Creek			20 SQ
Ozark Mountain			20 SQ
Noel			20 SQ
KMB			20 SQ
Shared Location			20 SQ
Midland County			20 SQ
Bilyeu			20 SQ
Moore Bend			20 SQ
Riverfork County			20 SQ
Taney County			20 SQ
Valley Woods			20 SQ
Franklin County	2,500.00	20	20 SQ



District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Empire Water	1,732.12	20	20 SQ
Lakeland Heights			20 SQ
Whispering Hills			20 SQ
Oakbrier			20 SQ
Bolivar			20 SQ

No curve shape is shown.

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 341 Structures and Improvements**

This account consists of structures and improvements associated with transmission and distribution operations.

**LIFE ANALYSIS (30 R2)**

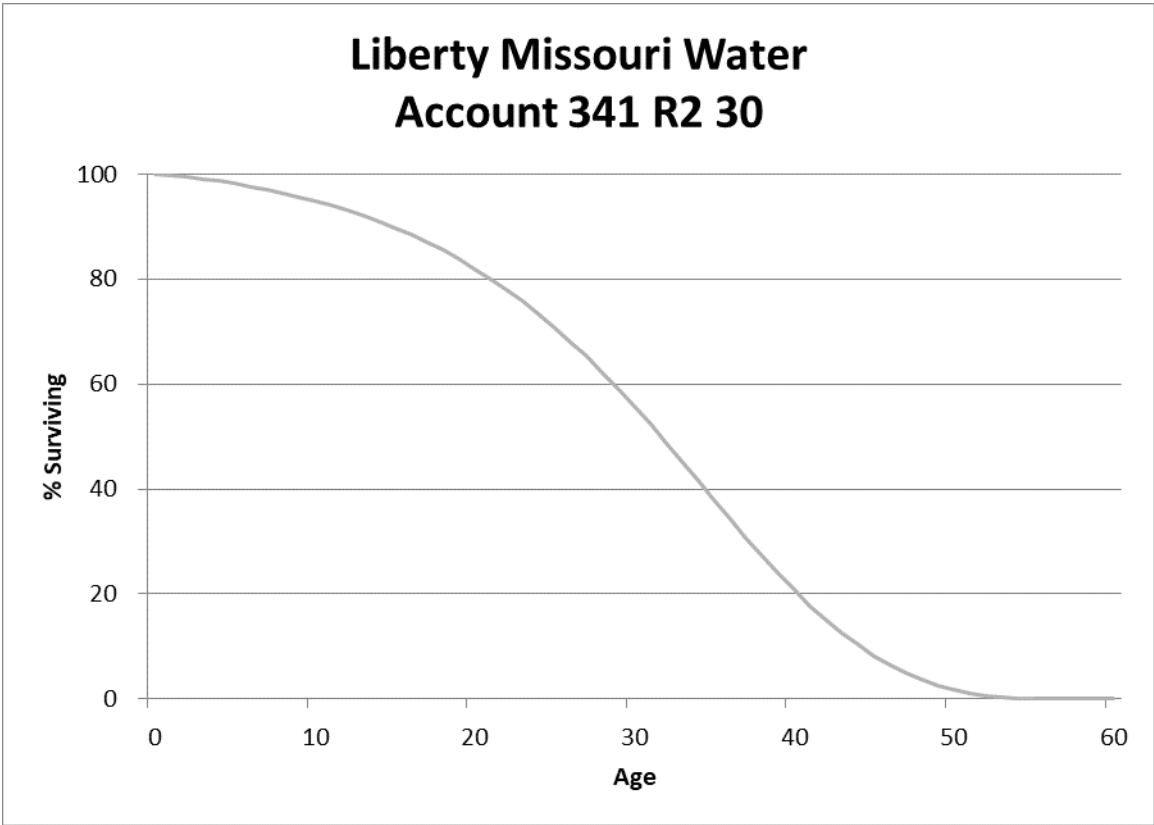
The account balance is \$11 thousand for this account. Company SMEs report that all structures and improvements are similar, such as Account 3110 and 3210, structures and improvements associated with source of supply and pumping, respectively. Based on information from interviews and the recommendation for those accounts, a 30 year life with an R2 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			30 R2
Timber Creek			30 R2
Ozark Mountain			30 R2
Noel			30 R2
KMB			30 R2
Shared Location			30 R2
Midland County			30 R2
Bilyeu			30 R2
Moore Bend			30 R2
Riverfork County			30 R2
Taney County			30 R2
Valley Woods			30 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Franklin County			30 R2
Empire Water			30 R2
Lakeland Heights	11,102.77	100	30 R2
Whispering Hills			30 R2
Oakbrier			30 R2
Bolivar			30 R2

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 342 Transmission and Distribution Reservoirs and Standpipes**

This account consists of the costs of reservoirs, tanks, standpipes and other appurtenances used for transmission and distribution operations.

**LIFE ANALYSIS (60 R2)**

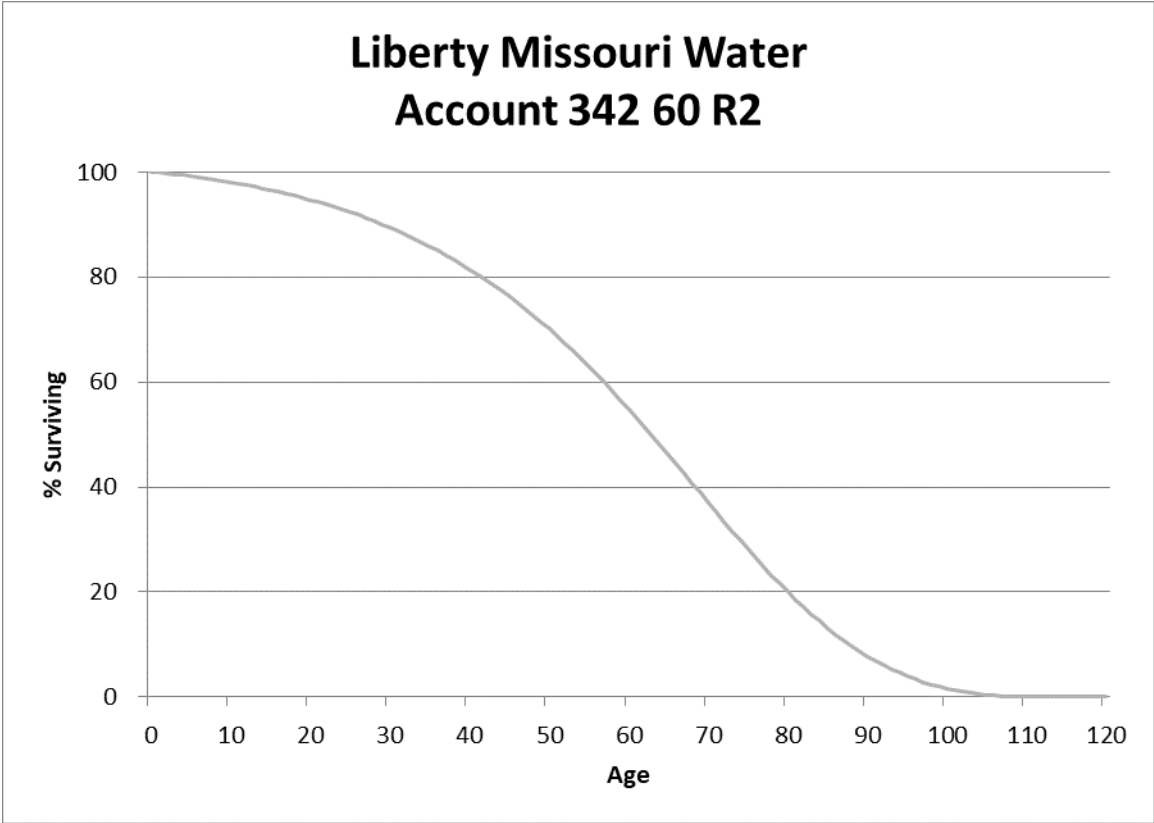
The account balance is \$3.6 million for this account. 3420 Distr Reservoirs – Company SMEs report that many of the assets in this account are ground storage tanks and some concrete structures. Many are bolt together tanks from the 1980s- 2000s. Noel tanks may be 30-40 years old. Aurora tanks are around 20 years old. Smaller water systems do not have ground storage tanks. Those are found only on larger systems. Company personnel believe the current life of 40 years is short from an operational perspective. When the Company performs maintenance, they may install liners that will extend the life and will strip the paint down to metal, paint the outside, replace hatches, etc... From an operations perspective, Company SMES would expect to see a 60 year life, but are caution about increasing the life too far due to increasing requirements that would possibly limit the life.

Based on information from interviews, a 60 year life with an R2 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	327,782.00	40	60 R2
Timber Creek	271,384.00	40	60 R2
Ozark Mountain	51,331.00	40	60 R2
Noel	344,488.90	40	60 R2
KMB	32,618.00	40	60 R2
Shared Location			60 R2
Midland County	7,075.00	40	60 R2
Bilyeu	12,891.00	40	60 R2
Moore Bend	5,430.00	40	60 R2
Riverfork County	97,053.83	40	60 R2
Taney County	52,225.00	40	60 R2
Valley Woods	6,519.00	40	60 R2
Franklin County	38,497.00	40	60 R2
Empire Water	349,214.35	40	60 R2
Lakeland Heights	19,185.14	100	60 R2
Whispering Hills	21,360.22	40	60 R2
Oakbrier	895.10	40	60 R2
Bolivar	1,926,956.55	40	60 R2

A generic curve shape is shown below.





**NET SALVAGE (-5%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends negative 5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	-5%
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
Noel	0%	-5%
KMB	0%	-5%
Shared Location	0%	-5%
Midland County	0%	-5%
Bilyeu	0%	-5%
Moore Bend	0%	-5%
Riverfork County	0%	-5%
Taney County	0%	-5%
Valley Woods	0%	-5%
Franklin County	0%	-5%
Empire Water	0%	-5%
Lakeland Heights	0%	-5%
Whispering Hills	0%	-5%
Oakbrier	0%	-5%
Bolivar	0%	-5%

**WATER Account 343 T & D Mains**

This account consists of water transmission and distribution mains of varying diameters.

**LIFE ANALYSIS (70 R2)**

The account balance is \$10.9 million for this account. The current life for this account is 50 years. Lakeland Heights is the newest subdivision. There are some mains that were put in around the 1940s, but most mains are newer. Company personnel would expect a longer operational life than 50 years. Older cast iron or galvanized mains which were installed between 1940-1950 are starting to wear out. The Company moved to PVC in the 1970s. They use ductile iron in certain situations (creek crossings, heavy traffic areas, etc.). Most mains are made of PVC. Company SMEs would expect an operational life of up to 70 years for this account. Based on information from interviews, a 70 year life with an R2 dispersion is recommended for this account.

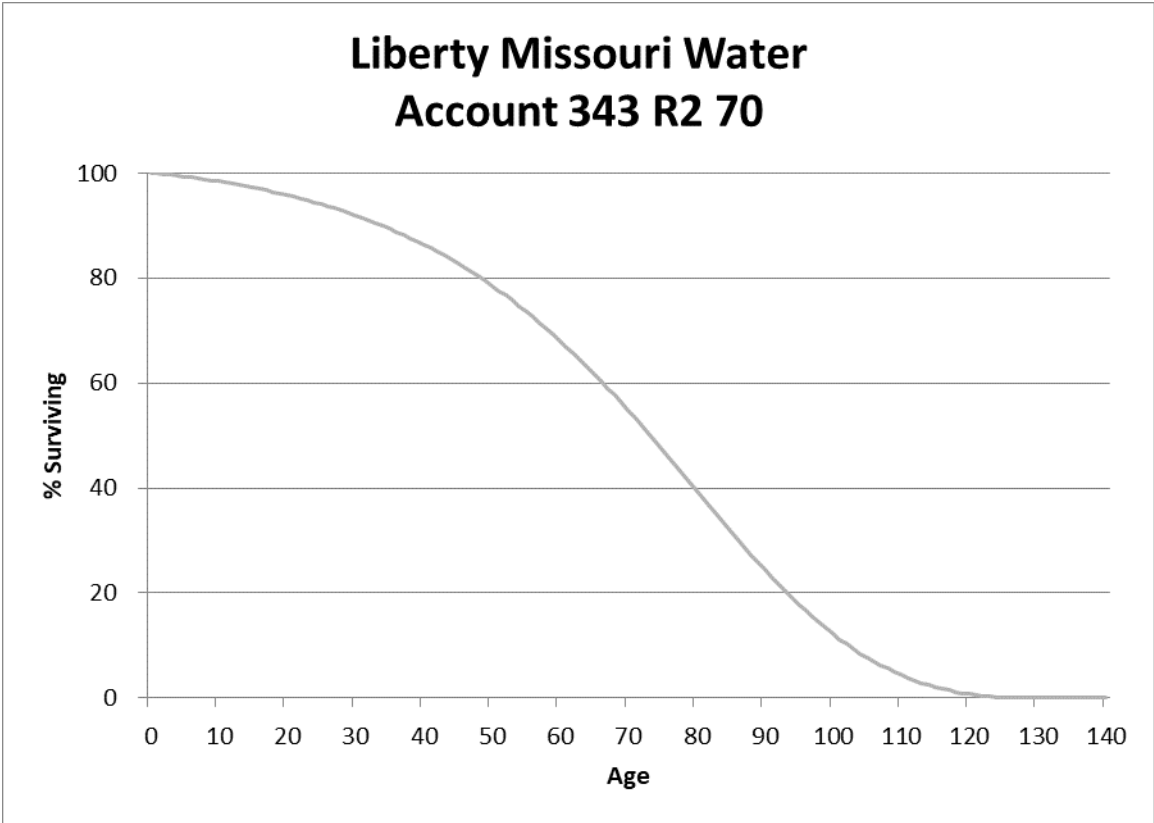
A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	869,269.73	50	70 R2
Timber Creek	299,770.91	50	70 R2
Ozark Mountain	432,751.83	50	70 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Noel	658,669.61	50	70 R2
KMB	469,070.68	50	70 R2
Shared Location			70 R2
Midland County	65,948.10	50	70 R2
Bilyeu	61,277.64	50	70 R2
Moore Bend	101,524.21	50	70 R2
Riverfork County	113,842.51	50	70 R2
Taney County	473,477.38	50	70 R2
Valley Woods	40,417.00	50	70 R2
Franklin County	141,379.32	50	70 R2
Empire Water	6,765,048.98	50	70 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Lakeland Heights	4,987.88	100	70 R2
Whispering Hills	10,320.16	50	70 R2
Oakbrier	26,541.02	50	70 R2
Bolivar	395,954.49	50	70 R2

A generic curve shape is shown below.



**NET SALVAGE (-5%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends negative 5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	-5%
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
Noel	0%	-5%
KMB	0%	-5%
Shared Location	0%	-5%
Midland County	0%	-5%
Bilyeu	0%	-5%
Moore Bend	0%	-5%
Riverfork County	0%	-5%
Taney County	0%	-5%
Valley Woods	0%	-5%
Franklin County	0%	-5%
Empire Water	0%	-5%
Lakeland Heights	0%	-5%
Whispering Hills	0%	-5%
Oakbrier	0%	-5%
Bolivar	0%	-5%

**WATER Account 345 Services**

This account consists of services that carry water from the mains to customer connection points. gross salvage and cost of removal for structures and improvements used in connection with transmission and distribution operations.

**LIFE ANALYSIS (30 R1)**

The plant balance in this account is \$11.2 million. The current life for this account for most districts is 40 years. Company SMEs report that operationally, they are not seeing assets in this account lasting as long as the current life. Services made of copper will get holes and PVC services will start cracking at 20 years. Brass will not last as long as it used to when they switched from lead to tin in the mix. Company experts recommend a shorter life than 40 years and suggest their expectations are 30 years from an operational perspective. Based on information from interviews, a 30 year life with an R1 dispersion is recommended for this account.

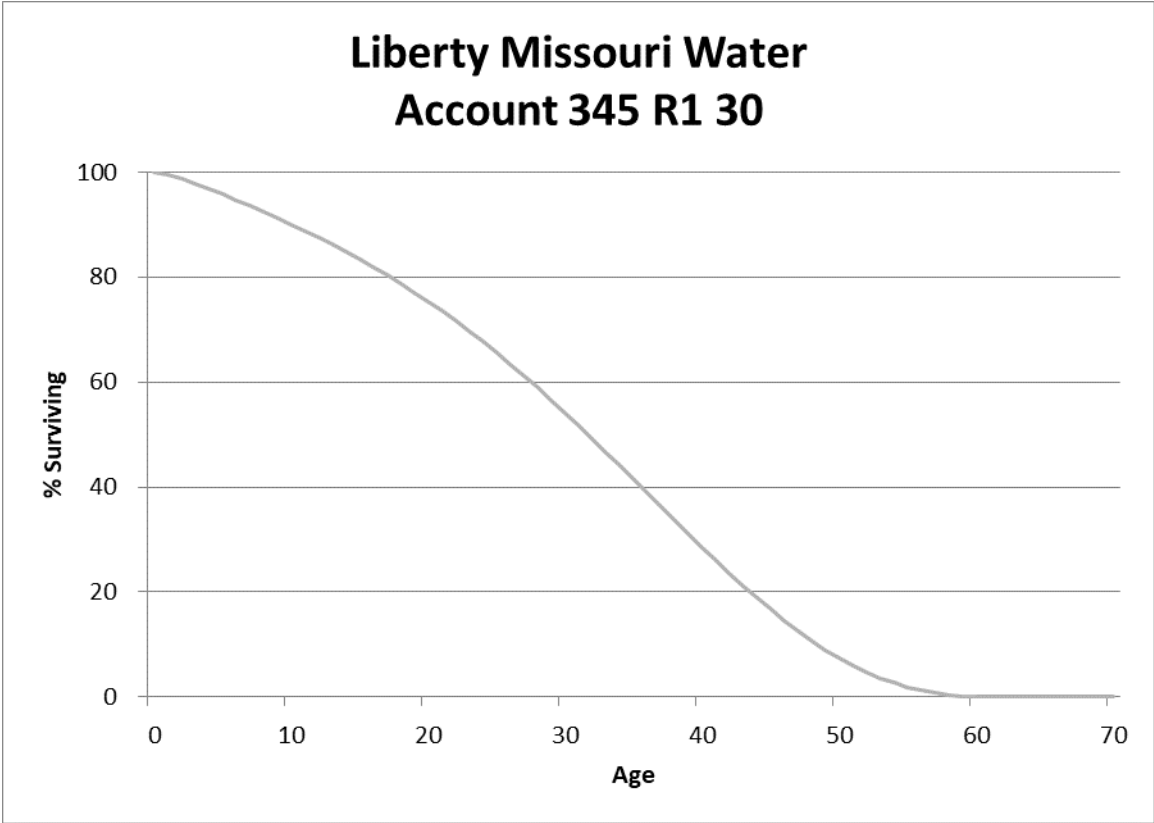
A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	58,796.67	40	30 R1
Timber Creek	8,193.88	40	30 R1
Ozark Mountain	57,045.63	40	30 R1

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Noel	80,695.42	40	30 R1
KMB	111,182.32	40	30 R1
Shared Location			30 R1
Midland County	1,312.71	40	30 R1
Bilyeu	640.38	40	30 R1
Moore Bend	18,459.96	40	30 R1
Riverfork County	7,171.65	40	30 R1
Taney County	198,005.37	40	30 R1
Valley Woods	8,941.39	40	30 R1
Franklin County	19,955.96	40	30 R1
Empire Water	5,842,232.03	40	30 R1
Lakeland Heights	26,596.74	40	30 R1
Whispering Hills	2,992.18	40	30 R1
Oakbrier		40	30 R1
Bolivar	4,763,886.09	40	30 R1



A generic curve shape is shown below.



**NET SALVAGE (-5%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends negative 5 percent net salvage for these assets. The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	-5%
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
Noel	0%	-5%
KMB	0%	-5%
Shared Location	0%	-5%
Midland County	0%	-5%
Bilyeu	0%	-5%
Moore Bend	0%	-5%
Riverfork County	0%	-5%
Taney County	0%	-5%
Valley Woods	0%	-5%
Franklin County	0%	-5%
Empire Water	0%	-5%
Lakeland Heights	0%	-5%
Whispering Hills	0%	-5%
Oakbrier	0%	-5%
Bolivar	0%	-5%

**WATER Account 346 T & D Meters**

This account consists of various meters used to measure water consumption.

**LIFE ANALYSIS (8 R4)**

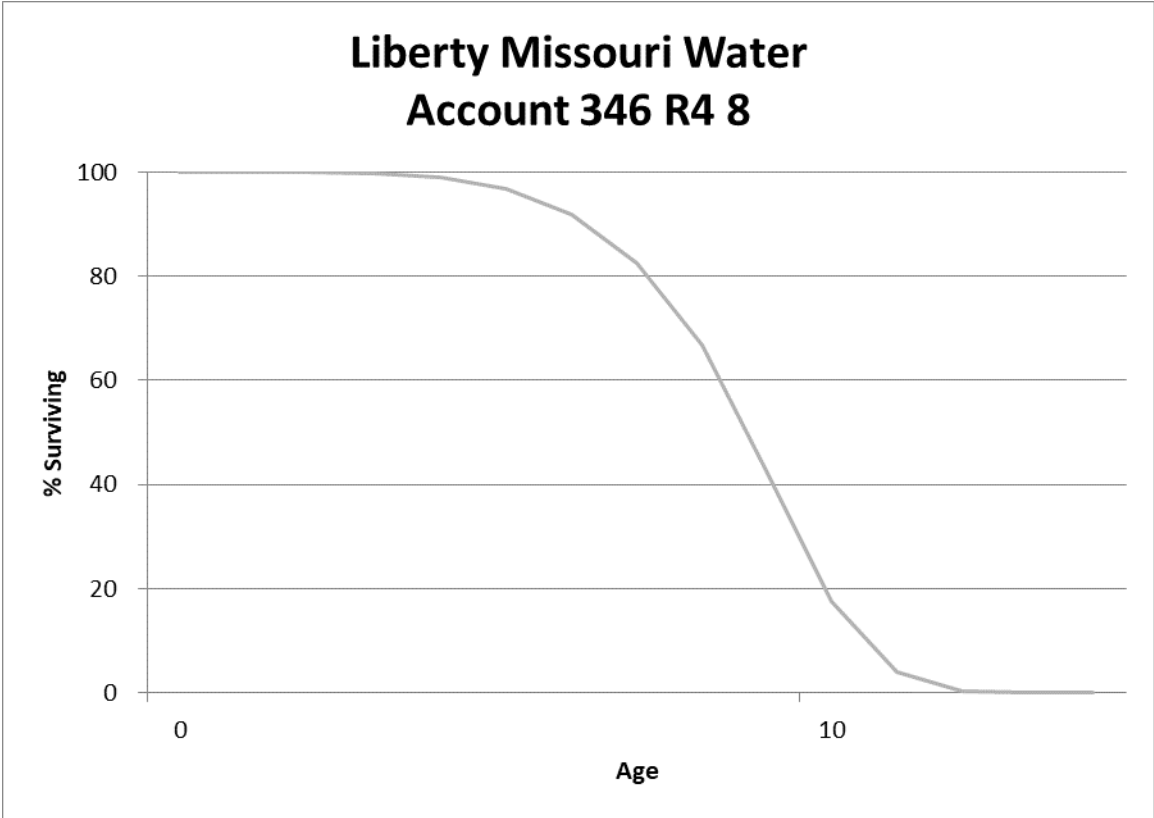
The plant balance in this account is \$5.1 million. The current life for this account varies from 10 to 30 years. Company SMEs report that they are following PSC recommendations for all types of meters. They will replace 5/8 and 3/4 inch meters at 8 years, 1" at 6 years, and 2" at 4 years. All meters have been changed out in the last 2 years with the exception of Bolivar, which is a recent acquisition. Commission rule 38 specifies periods where meters must be removed and tested based on the size of meter. Company SMEs report that given the cost of refurbishing old meters, their policy is to replace those assets. Based on information from interviews, an 8 year life with an R4 dispersion is recommended for this account based on the dollar weighting of the various types of meters and their replacement cycles.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	430,790.83	20	8 R4
Timber Creek	53,966.94	20	8 R4
Ozark Mountain	128,264.53	20	8 R4
Noel	265,390.27	30	8 R4

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
KMB	290,667.26	30	8 R4
Shared Location			8 R4
Midland County			8 R4
Bilyeu			8 R4
Moore Bend	10,907.74		8 R4
Riverfork County			8 R4
Taney County	124,835.03		8 R4
Valley Woods			8 R4
Franklin County	170,256.22	10	8 R4
Empire Water	2,562,143.32	30	8 R4
Lakeland Heights	140,657.77	10	8 R4
Whispering Hills	43,289.62	10	8 R4
Oakbrier	109,117.54	10	8 R4
Bolivar	732,663.06		8 R4

A generic curve shape is shown below.



**NET SALVAGE (-7.5%)**

The existing net salvage parameter for all districts is 0 percent. The Company’s engineering consultant recommends negative 7.5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	-7.5%
Timber Creek	0%	-7.5%
Ozark Mountain	0%	-7.5%
Noel	0%	-7.5%
KMB	0%	-7.5%
Shared Location	0%	-7.5%
Midland County	0%	-7.5%
Bilyeu	0%	-7.5%
Moore Bend	0%	-7.5%
Riverfork County	0%	-7.5%
Taney County	0%	-7.5%
Valley Woods	0%	-7.5%
Franklin County	0%	-7.5%
Empire Water	0%	-7.5%
Lakeland Heights	0%	-7.5%
Whispering Hills	0%	-7.5%
Oakbrier	0%	-7.5%
Bolivar	0%	-7.5%

**WATER Account 346.1 Plastic Meters**

This account consists of plastic meters.

**LIFE ANALYSIS (8 R4)**

The account balance is \$462 thousand for this account. The current life for this account is 10 years. The current life for this account varies from 10 to 30 years. Company SMEs report that they are following PSC recommendations for all types of meters. They will replace 5/8 and 3/4 at 8 years, 1” at 6 years, and 2” at 4 years. All meters have been changed out in the last 2 years with the exception of Bolivar, which is a recent acquisition. Commission rule 38 specifies periods where meters must be removed and tested based on the size of meter. Company SMEs report that given the cost of refurbishing old meters, their policy is to replace those assets. Based on information from interviews, an 8 year life with an R4 dispersion is recommended for this account based on the dollar weighting of the various types of meters and their replacement cycles.

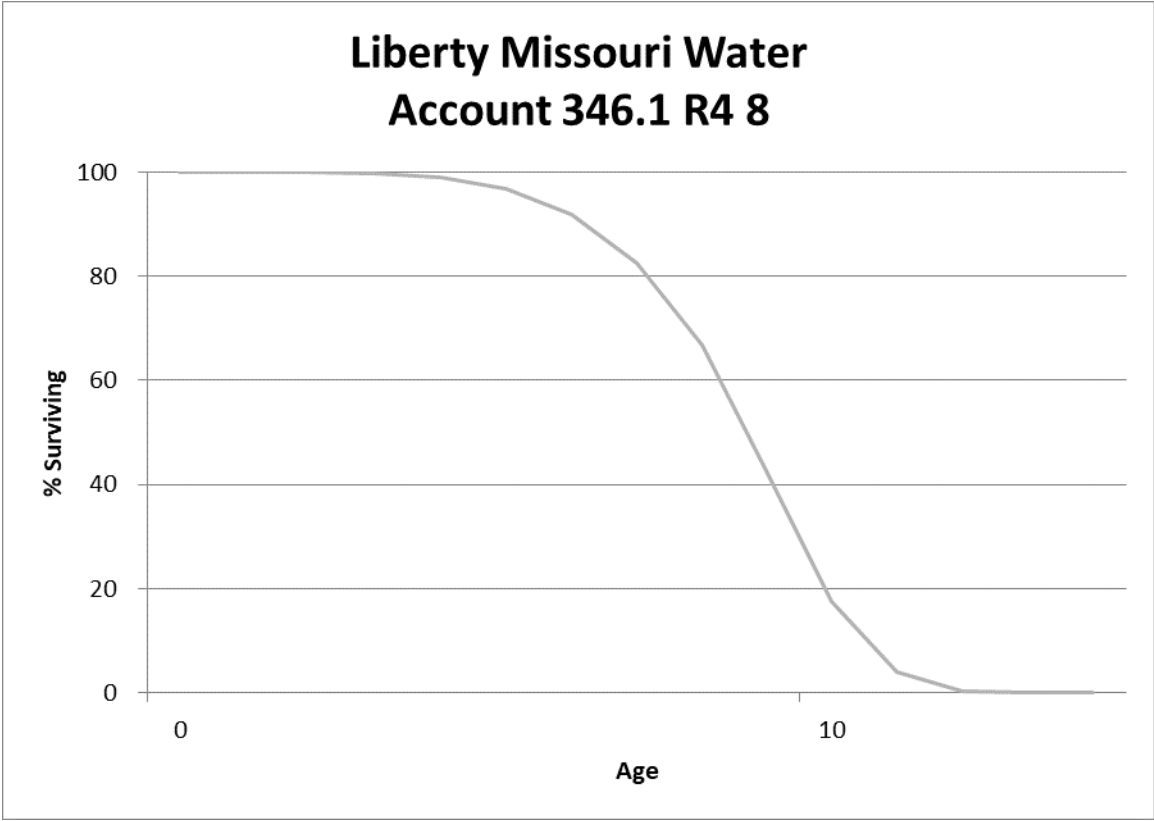
A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			8 R4
Timber Creek			8 R4
Ozark Mountain			8 R4
Noel			8 R4
KMB			8 R4
Shared Location			8 R4
Midland County	33,135.32	10	8 R4
Bilyeu	14,428.91	10	8 R4

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Moore Bend	72,323.79	10	8 R4
Riverfork County	72,323.79	10	8 R4
Taney County	266,689.84	10	8 R4
Valley Woods	2,487.67	10	8 R4
Franklin County			8 R4
Empire Water			8 R4
Lakeland Heights			8 R4
Whispering Hills			8 R4
Oakbrier			8 R4
Bolivar			8 R4



A generic curve shape is shown below.



**NET SALVAGE (-7.5%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends negative 7.5 percent net salvage for these assets. The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	-7.5%
Timber Creek	0%	-7.5%
Ozark Mountain	0%	-7.5%
Noel	0%	-7.5%
KMB	0%	-7.5%
Shared Location	0%	-7.5%
Midland County	0%	-7.5%
Bilyeu	0%	-7.5%
Moore Bend	0%	-7.5%
Riverfork County	0%	-7.5%
Taney County	0%	-7.5%
Valley Woods	0%	-7.5%
Franklin County	0%	-7.5%
Empire Water	0%	-7.5%
Lakeland Heights	0%	-7.5%
Whispering Hills	0%	-7.5%
Oakbrier	0%	-7.5%
Bolivar	0%	-7.5%

**WATER Account 347 Meter Installations**

This account consists of meter installations that are used with meters and plastic meters.

**LIFE ANALYSIS (40 R2)**

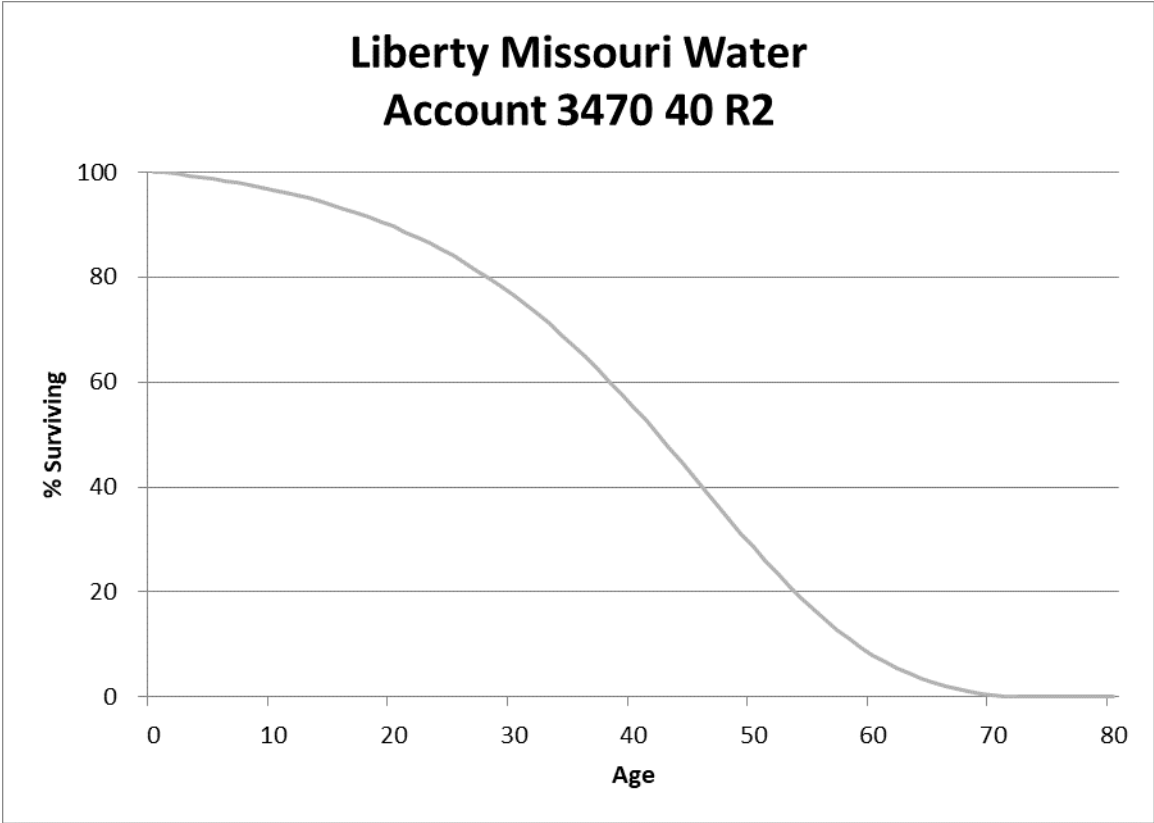
The account balance is \$110 thousand for this account. The current life is 40 years, Assets in this account will not necessarily be replaced with the replacement of the meter. However, the shorter life for meters would suggest a shorter life for the installations as well. Based on judgment and experience with other water utilities, a 40 year life is with an R2 dispersion recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			40 R2
Timber Creek			40 R2
Ozark Mountain			40 R2
Noel			40 R2
KMB	31,674.00	40	40 R2
Shared Location			40 R2
Midland County	6,560.00	40	40 R2
Bilyeu			40 R2
Moore Bend	5,968.00	40	40 R2
Riverfork County			40 R2
Taney County	43,716.09	40	40 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Valley Woods	9,826.00	40	40 R2
Franklin County	8,404.00	40	40 R2
Empire Water			40 R2
Lakeland Heights			40 R2
Whispering Hills			40 R2
Oakbrier			40 R2
Bolivar	3,663.00	40	40 R2

A generic curve shape is shown below.



**NET SALVAGE (-7.5%)**

The existing net salvage parameter for all districts is 0 percent. The Company’s engineering consultant recommends negative 7.5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	-7.5%
Timber Creek	0%	-7.5%
Ozark Mountain	0%	-7.5%
Noel	0%	-7.5%
KMB	0%	-7.5%
Shared Location	0%	-7.5%
Midland County	0%	-7.5%
Bilyeu	0%	-7.5%
Moore Bend	0%	-7.5%
Riverfork County	0%	-7.5%
Taney County	0%	-7.5%
Valley Woods	0%	-7.5%
Franklin County	0%	-7.5%
Empire Water	0%	-7.5%
Lakeland Heights	0%	-7.5%
Whispering Hills	0%	-7.5%
Oakbrier	0%	-7.5%
Bolivar	0%	-7.5%

**WATER Account 348 Hydrants**

This account consists of hydrants used for transmission and distribution operations.

**LIFE ANALYSIS (50 R2)**

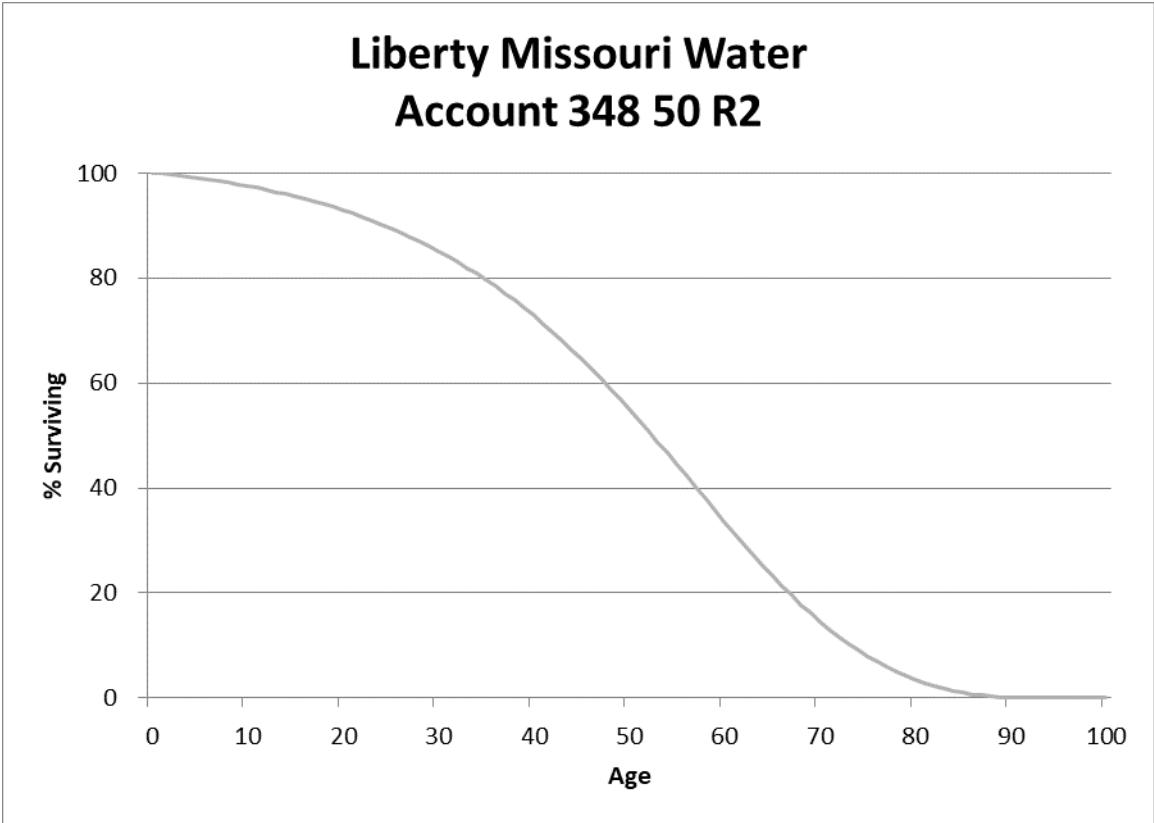
The account balance is \$769 thousand for this account. The current life is 50 years. The Company flushes hydrants annually and tests. Company SME’s would expect a 40–50-year operational life. Cars can hit the hydrants, and older hydrants don’t have as large a connection for hoses and would be replaced. Based on information from interviews, a 50 year life is retained with an R2 dispersion recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	21,112.99	50	50 R2
Timber Creek	9,366.31	50	50 R2
Ozark Mountain	17,857.15	50	50 R2
Noel	48,356.20	50	50 R2
KMB	16,900.00	50	50 R2
Shared Location			50 R2
Midland County			50 R2
Bilyeu	9,375.00	50	50 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Moore Bend			50 R2
Riverfork County	31,825.64		50 R2
Taney County			50 R2
Valley Woods	300.00	50	50 R2
Franklin County	10,728.13		50 R2
Empire Water	539,338.75	50	50 R2
Lakeland Heights			50 R2
Whispering Hills			50 R2
Oakbrier			50 R2
Bolivar	63,525.82	50	50 R2

A generic curve shape is shown below.





**NET SALVAGE (-5%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends negative 5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	-5%
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
Noel	0%	-5%
KMB	0%	-5%
Shared Location	0%	-5%
Midland County	0%	-5%
Bilyeu	0%	-5%
Moore Bend	0%	-5%
Riverfork County	0%	-5%
Taney County	0%	-5%
Valley Woods	0%	-5%
Franklin County	0%	-5%
Empire Water	0%	-5%
Lakeland Heights	0%	-5%
Whispering Hills	0%	-5%
Oakbrier	0%	-5%
Bolivar	0%	-5%

**WATER Account 390 Structures and Improvements Miscellaneous**

This account consists of miscellaneous structures and improvements used for general plant.

**LIFE ANALYSIS (30 R2)**

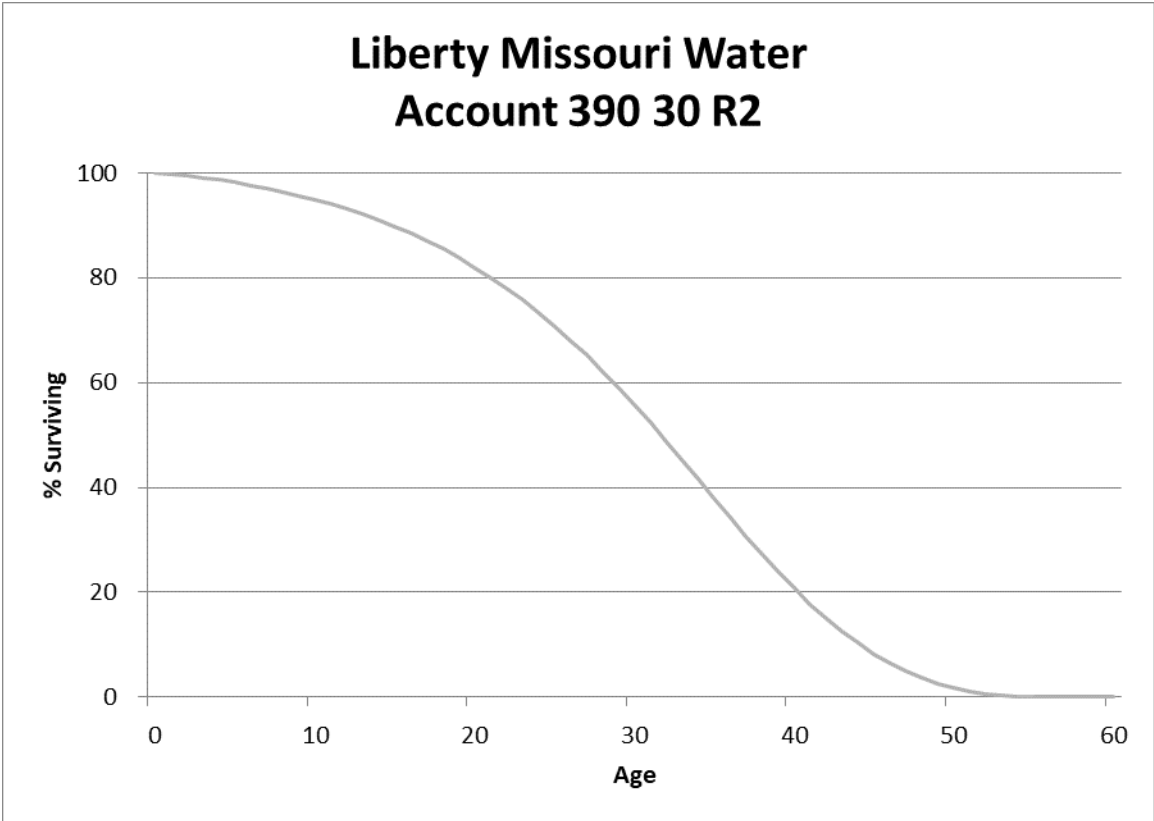
The account balance is \$36 thousand for this account. The current life is 33 years for those districts that have assets in this account. Company SMEs would consider the life of assets in this account to have the same operational characteristics as proposed for other structure accounts such as 311 and 321. Based on information from interviews, a 30 year life with an R2 dispersion is recommended for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			30 R2
Timber Creek			30 R2
Ozark Mountain			30 R2
Noel			30 R2
KMB			30 R2
Shared Location			30 R2
Midland County			30 R2
Bilyeu			30 R2
Moore Bend			30 R2
Riverfork County			30 R2
Taney County			30 R2
Valley Woods			30 R2
Franklin County			30 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Empire Water			30 R2
Lakeland Heights	5,218.67	33	30 R2
Whispering Hills	3,173.18	33	30 R2
Oakbrier	4,403.76	33	30 R2
Bolivar	23,439.00	33	30 R2

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 391 Office Furniture and Equipment**

This account consists of furniture and other office assets.

**LIFE ANALYSIS (20 SQ)**

The account balance is \$139 thousand for this account. The current life ranges from 14 to 20 years. There is currently a \$1000 capitalization threshold. Based on judgment and experience with other water utilities, this study recommends a 20 year life with an SQ dispersion is proposed for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	33,696.28	20	20 SQ
Timber Creek	380.51	20	20 SQ
Ozark Mountain			20 SQ
Noel	96,441.04	14	20 SQ
KMB	4,745.54	20	20 SQ
Shared Location	2,986.24	20	20 SQ
Midland County			20 SQ
Bilyeu			20 SQ
Moore Bend			20 SQ
Riverfork County			20 SQ
Taney County	258.18	20	20 SQ

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Valley Woods			20 SQ
Franklin County			20 SQ
Empire Water	566.80	20	20 SQ
Lakeland Heights			20 SQ
Whispering Hills			20 SQ
Oakbrier			20 SQ
Bolivar			20 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 391.1 Computer Equipment**

This account consists of computer equipment.

**LIFE ANALYSIS (5 SQ)**

The plant balance in this account is \$93 thousand. Company SMEs report that the assets in this account are mainly laptops and tough books. The current life of this account ranges from 5 years to 7 years. Other Empire entities use a 5 year life for these assets. Based on judgment, experience with other Empire assets, and the normal expected refresh cycle, this study recommends a 5-year life with an SQ dispersion for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	2,704.95	6	5 SQ
Timber Creek	1,269.50	6	5 SQ
Ozark Mountain	2,427.43	6	5 SQ
Noel	3,289.90	7	5 SQ
KMB	3799.01	7	5 SQ
Shared Location		7	5 SQ
Midland County			5 SQ
Bilyeu			5 SQ
Moore Bend			5 SQ
Riverfork County			5 SQ



District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Taney County	12,231.13	7	5 SQ
Valley Woods			5 SQ
Franklin County			5 SQ
Empire Water	8,023.51	5	5 SQ
Lakeland Heights			5 SQ
Whispering Hills			5 SQ
Oakbrier			5 SQ
Bolivar	59,740.45	7	5 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 392 Transportation Equipment**

This account consists of transportation equipment, such as cars, trucks, or trailers.

**LIFE ANALYSIS (11 L3)**

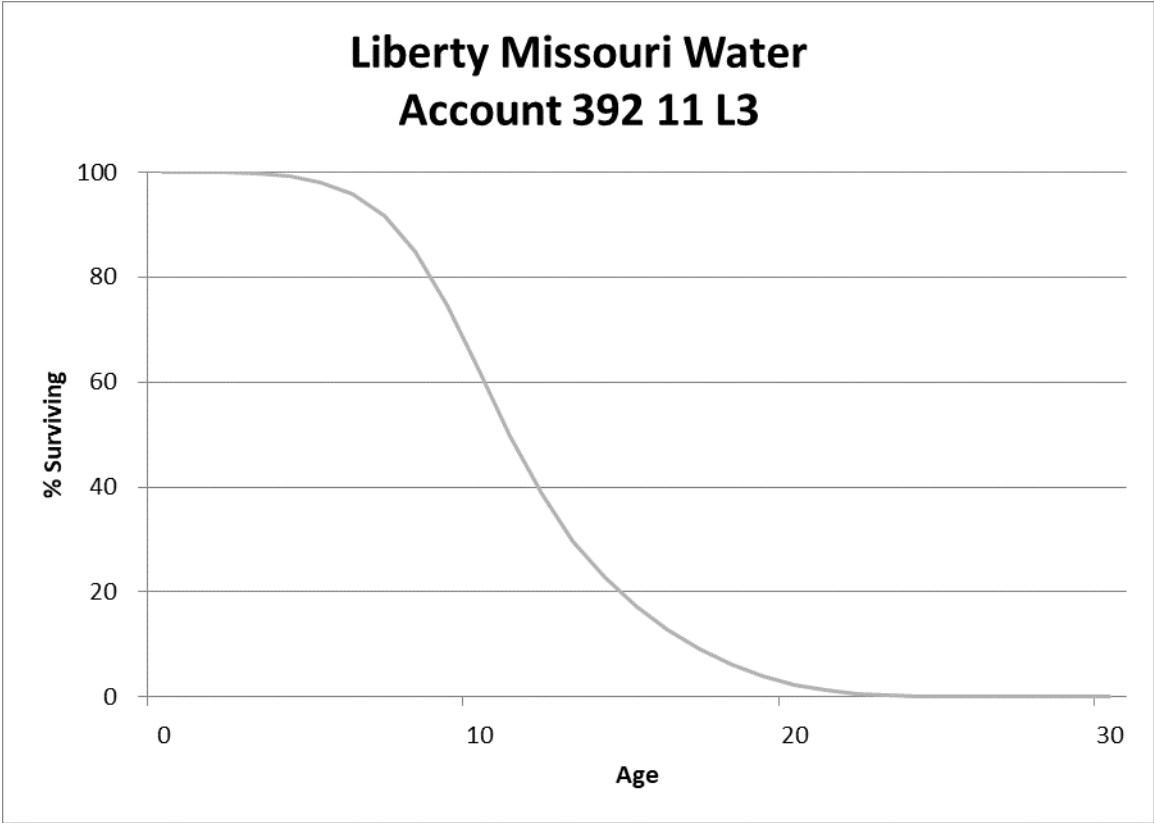
The plant balance in this account is \$996 thousand. The current life for this account ranges from 7 years to 15 years. Company personnel use a similar refresh cycle for this account as other Liberty divisions. Based on judgment and experience with other Liberty divisions and other water utilities, this study proposes consolidating to a 11-year life for all districts with an L3 dispersion.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			11 L3
Timber Creek			11 L3
Ozark Mountain			11 L3
Noel	5,415.50	7	11 L3
KMB			11 L3
Shared Location	26,559.65	7	11 L3
Midland County	3,335.06	7	11 L3
Bilyeu		7	11 L3
Moore Bend	3,119.69	7	11 L3
Riverfork County	5,165.70	7	11 L3

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Taney County	16,428.27	7	11 L3
Valley Woods	718.95	7	11 L3
Franklin County			11 L3
Empire Water	405,943.13	15	11 L3
Lakeland Heights			11 L3
Whispering Hills			11 L3
Oakbrier			11 L3
Bolivar	529,241.18	15	11 L3

A generic curve shape is shown below.



**NET SALVAGE (6%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 6 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	6%
Timber Creek	0%	6%
Ozark Mountain	0%	6%
Noel	0%	6%
KMB	0%	6%
Shared Location	0%	6%
Midland County	0%	6%
Bilyeu	0%	6%
Moore Bend	0%	6%
Riverfork County	0%	6%
Taney County	0%	6%
Valley Woods	0%	6%
Franklin County	0%	6%
Empire Water	0%	6%
Lakeland Heights	0%	6%
Whispering Hills	0%	6%
Oakbrier	0%	6%
Bolivar	0%	6%

**WATER Account 393 Stores Equipment**

This account consists of stores equipment such as shelving.

**LIFE ANALYSIS (20 SQ)**

The plant balance in this account is \$20 thousand. The current life for this account is 25 years. Company SMEs believe that operationally, assets in this account would not last 25 years and they would expect a slightly shorter life of 20 years for this account. Based on information from Company experts, this study recommends a 20-year life with an SQ dispersion.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			20 SQ
Timber Creek			20 SQ
Ozark Mountain			20 SQ
Noel			20 SQ
KMB			20 SQ
Shared Location			20 SQ
Midland County			20 SQ
Bilyeu			20 SQ
Moore Bend			20 SQ
Riverfork County			20 SQ
Taney County			20 SQ
Valley Woods			20 SQ
Franklin County			20 SQ
Empire Water	7,145.89	25	20 SQ

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Lakeland Heights			20 SQ
Whispering Hills			20 SQ
Oakbrier			20 SQ
Bolivar	12,655.50	25	20 SQ



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district. .

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 394 Tools, Shop and Garage Equipment**

This account consists of tools, shop and garage equipment, primarily tools. operations.

**LIFE ANALYSIS (10 SQ)**

The plant balance in this account is \$164 thousand. The current life of this account ranges from 10 to 20 years. Company SMEs would expect that operationally, tools will have a shorter life than 20 years. Company SMEs would expect no longer than 10 years for the tools found in this account. Based on input from Company SMEs and judgment, this study recommends a 10-year life with an SQ dispersion.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills	9,739.67	20	10 SQ
Timber Creek	2,871.29	20	10 SQ
Ozark Mountain	5,753.16	20	10 SQ
Noel	53,599.30	20	10 SQ
KMB	714.34	20	10 SQ
Shared Location			10 SQ
Midland County			10 SQ
Bilyeu			10 SQ

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Moore Bend			10 SQ
Riverfork County			10 SQ
Taney County			10 SQ
Valley Woods			10 SQ
Franklin County			10 SQ
Empire Water	82,355.54	20	10 SQ
Lakeland Heights	1,290.04	10	10 SQ
Whispering Hills	1,952.39	10	10 SQ
Oakbrier	1,345.86	10	10 SQ
Bolivar	4,394.18	10	10 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 395 Laboratory Equipment**

This account consists of laboratory equipment. Assets in this account are chlorine analyzers and other electronic equipment.

**LIFE ANALYSIS (5 SQ)**

The plant balance in this account is \$4.9 thousand. The current life of this account ranges from 10 to 20 years. Company personnel note that assets in this account are in a corrosive environment which do not last very long. Based on input from Company SMEs and judgment, this study recommends a 5 year life with a SQ dispersion for this account.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			5 SQ
Timber Creek			5 SQ
Ozark Mountain			5 SQ
Noel			5 SQ
KMB			5 SQ
Shared Location			5 SQ
Midland County			5 SQ
Bilyeu			5 SQ
Moore Bend			5 SQ
Riverfork County			5 SQ
Taney County			5 SQ
Valley Woods	466.00	14	5 SQ
Franklin County			5 SQ

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Empire Water	3,677.29	20	5 SQ
Lakeland Heights			5 SQ
Whispering Hills			5 SQ
Oakbrier	722.72	10	5 SQ
Bolivar			5 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 396 Power Operated Equipment**

This account consists of power operated equipment.

**LIFE ANALYSIS (10 R2)**

The account balance is \$406 thousand for this account. The current life of this account ranges between 10 and 14 years. Company SMEs report assets in this account include a small backhoe and mower. Mowers would have a much shorter life (maybe around 7 years). The Kubota backhoe would only have a 10 year life expectancy. Based on the information from Company SMEs, the types of assets in the account and judgment, this study recommends a 10-year life with an R2 dispersion which is shown below.

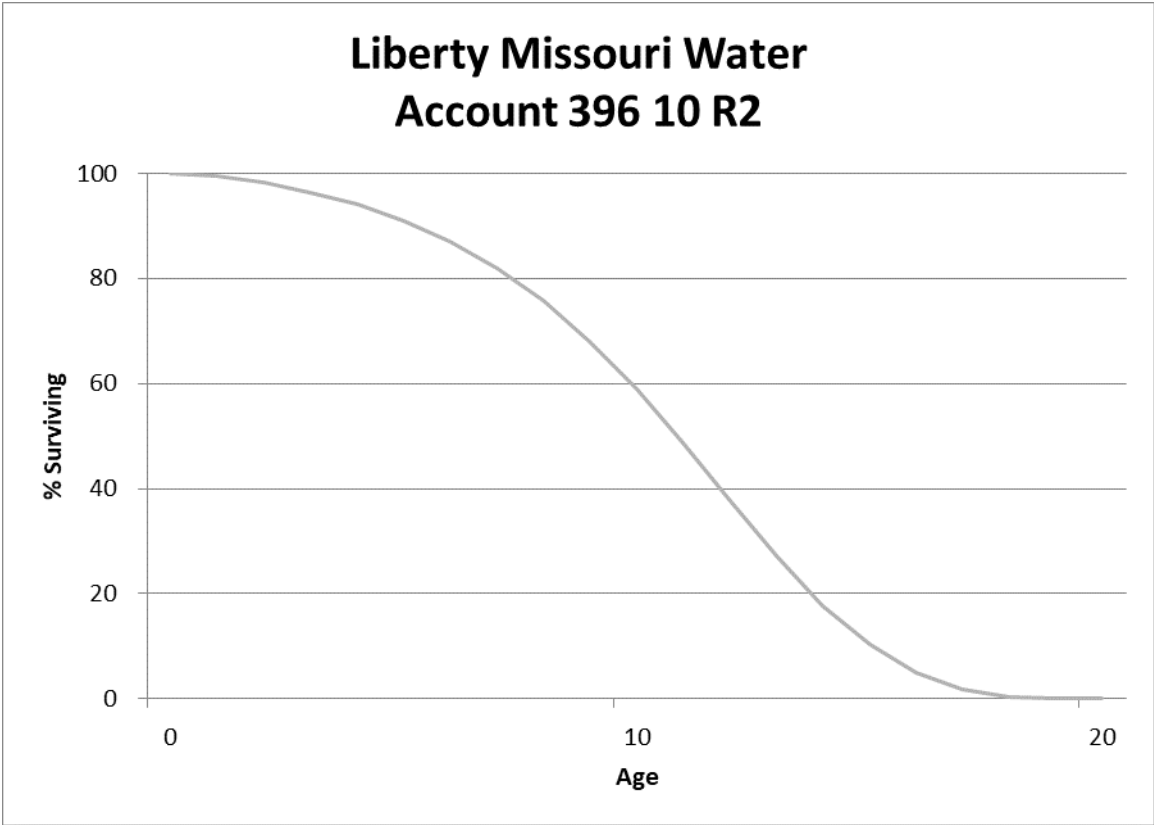
A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills		14	10 R2
Timber Creek			10 R2
Ozark Mountain			10 R2
Noel	25,716.86		10 R2
KMB			10 R2
Shared Location			10 R2
Midland County	3,111.00	14	10 R2
Bilyeu			10 R2
Moore Bend			10 R2
Riverfork County			10 R2
Taney County			10 R2
Valley Woods	1,750.00	14	10 R2
District	Plant	Approved Life	Proposed Life



	Balance	Characteristic	Characteristic
Franklin County			10 R2
Empire Water			10 R2
Lakeland Heights			10 R2
Whispering Hills			10 R2
Oakbrier		10	10 R2
Boliver	375,007.83	10	10 R2

A generic curve shape is shown below.



**NET SALVAGE (6%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	6%
Timber Creek	0%	6%
Ozark Mountain	0%	6%
Noel	0%	6%
KMB	0%	6%
Shared Location	0%	6%
Midland County	0%	6%
Bilyeu	0%	6%
Moore Bend	0%	6%
Riverfork County	0%	6%
Taney County	0%	6%
Valley Woods	0%	6%
Franklin County	0%	6%
Empire Water	0%	6%
Lakeland Heights	0%	6%
Whispering Hills	0%	6%
Oakbrier	0%	6%
Bolivar	0%	6%

**WATER Account 397 Communication Equipment**

This account consists of communication equipment such as SCADA assets.

**LIFE ANALYSIS (10 SQ)**

The plant balance in this account is \$190 thousand. The current life if this account ranges from 5 to 14 years. Based on technology changes and technology in the field, Company SME’s would only expect an operational life of around a 10 year for assets in this account. Based on information provided by Company SMEs and judgment, this study recommends a 10 year life with an SQ dispersion, which is shown below.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			10 SQ
Timber Creek	931.40	14	10 SQ
Ozark Mountain			10 SQ
Noel	5,386.15	14	10 SQ
KMB	2,915.48	14	10 SQ
Shared Location			10 SQ
Midland County	3,087.00	14	10 SQ
Bilyeu			10 SQ
Moore Bend			10 SQ

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Riverfork County	2,998.00	14	10 SQ
Taney County	12,152.00	14	10 SQ
Valley Woods			10 SQ
Franklin County	339.00	14	10 SQ
Empire Water			10 SQ
Lakeland Heights	79.46	5	10 SQ
Whispering Hills	22.83	5	10 SQ
Oakbrier	31.05	5	10 SQ
Bolivar	161,928.96	5	10 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WATER Account 398 Miscellaneous Equipment**

This account consists of other miscellaneous equipment such as system controls, SCADA, and testers.

**LIFE ANALYSIS (10 SQ)**

The balance in this account is \$116 thousand. The life if this account is currently 15 years. A review of the assets in this account show that many of these assets are similar to Account 397, Communication Equipment. Based on the recommendation for Account 397, this study recommends a 10-year life with an SQ dispersion, which is shown below.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			10 SQ
Timber Creek			10 SQ
Ozark Mountain			10 SQ
Noel			10 SQ
KMB			10 SQ
Shared Location			10 SQ
Midland County			10 SQ
Bilyeu			10 SQ
Moore Bend			10 SQ
Riverfork County			10 SQ
Taney County			10 SQ
Valley Woods			10 SQ
Franklin County			10 SQ

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Empire Water	116,015.84	15	10 SQ
Lakeland Heights			10 SQ
Whispering Hills			10 SQ
Oakbrier	137.04	10	10 SQ
Bolivar			10 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%



**WATER Account 399 Other Tangible Plant**

This account consists of other tangible plant including assets not classified in other accounts. Assets in this account include a CO2 pump, signs, WW test equipment, and a lighting upgrade.

**LIFE ANALYSIS (10 SQ)**

The account balance is \$29 thousand for this account. The current life of this account is 20 years. Company SMEs would expect a shorter life based on the type of assets in this account. Based on interviews with Company SMEs, this study recommends a 10 life with an SQ dispersion.

A table showing the plant balances and life parameters is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Holiday Hills			10 SQ
Timber Creek	2,902.69	20	10 SQ
Ozark Mountain	8,446.00	20	10 SQ
Noel			10 SQ
KMB	17,256.39	20	10 SQ
Shared Location			10 SQ
Midland County			10 SQ
Bilyeu			10 SQ
Moore Bend			10 SQ
Riverfork County			10 SQ
Taney County			10 SQ

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Valley Woods			10 SQ
Franklin County			10 SQ
Empire Water			10 SQ
Lakeland Heights			10 SQ
Whispering Hills			10 SQ
Oakbrier			10 SQ
Bolivar			10 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Holiday Hills	0%	0%
Timber Creek	0%	0%
Ozark Mountain	0%	0%
Noel	0%	0%
KMB	0%	0%
Shared Location	0%	0%
Midland County	0%	0%
Bilyeu	0%	0%
Moore Bend	0%	0%
Riverfork County	0%	0%
Taney County	0%	0%
Valley Woods	0%	0%
Franklin County	0%	0%
Empire Water	0%	0%
Lakeland Heights	0%	0%
Whispering Hills	0%	0%
Oakbrier	0%	0%
Bolivar	0%	0%

**WASTEWATER PLANT**

**WASTEWATER Account 351 Wastewater Structures and Improvements Collection**

This account consists of structures and improvements used in connection with wastewater collection.

**LIFE ANALYSIS (25 R2)**

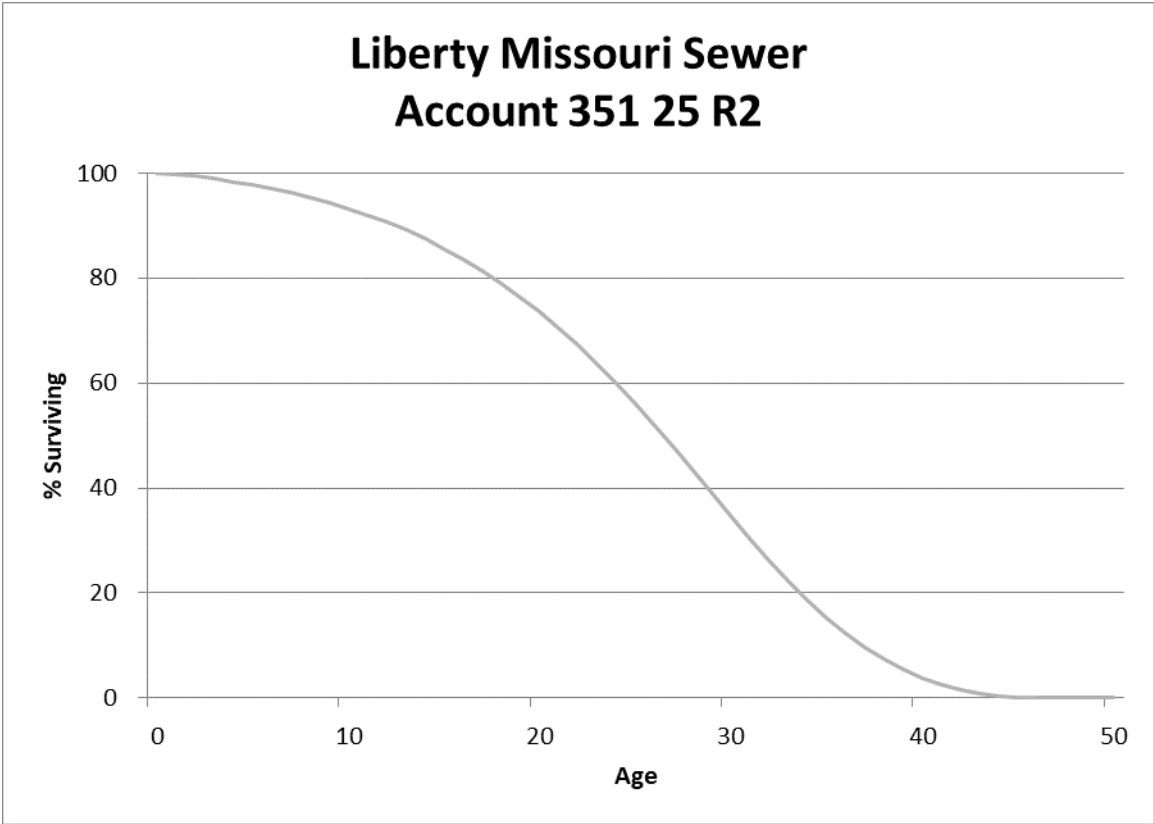
The account balance is \$521 thousand for this account. The approved life characteristic ranges between 25 and 40 years. Company SMEs report that recently fencing is being added to these facilities. Company SMEs expect the operational life for items in this account would be relatively short, in the 25 year range. Based on interviews with Company SMEs and judgment, this study recommends a 25 year life with an R2 dispersion.

The table below shows the parameters by district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	276,586.37	25	25 R2
Ozark Mountain	14,457.15	25	25 R2
KMB	4,701.22	40	25 R2
Valley Woods	2,446.00	40	25 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Savers Farm	101,174.50	40	25 R2
R D Sewer	10,470.06	33	25 R2
Bolivar Water	111,379.00		25 R2

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	0%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar Water	0%	0%

**WASTEWATER Account 352.1 Wastewater Collection Sewers Forced**

This account consists of all sewers which are used to lift sewage from a low elevation to a higher elevation. The force sewer will include that pipe between the discharge outlet of the lift station and the receiving manhole.

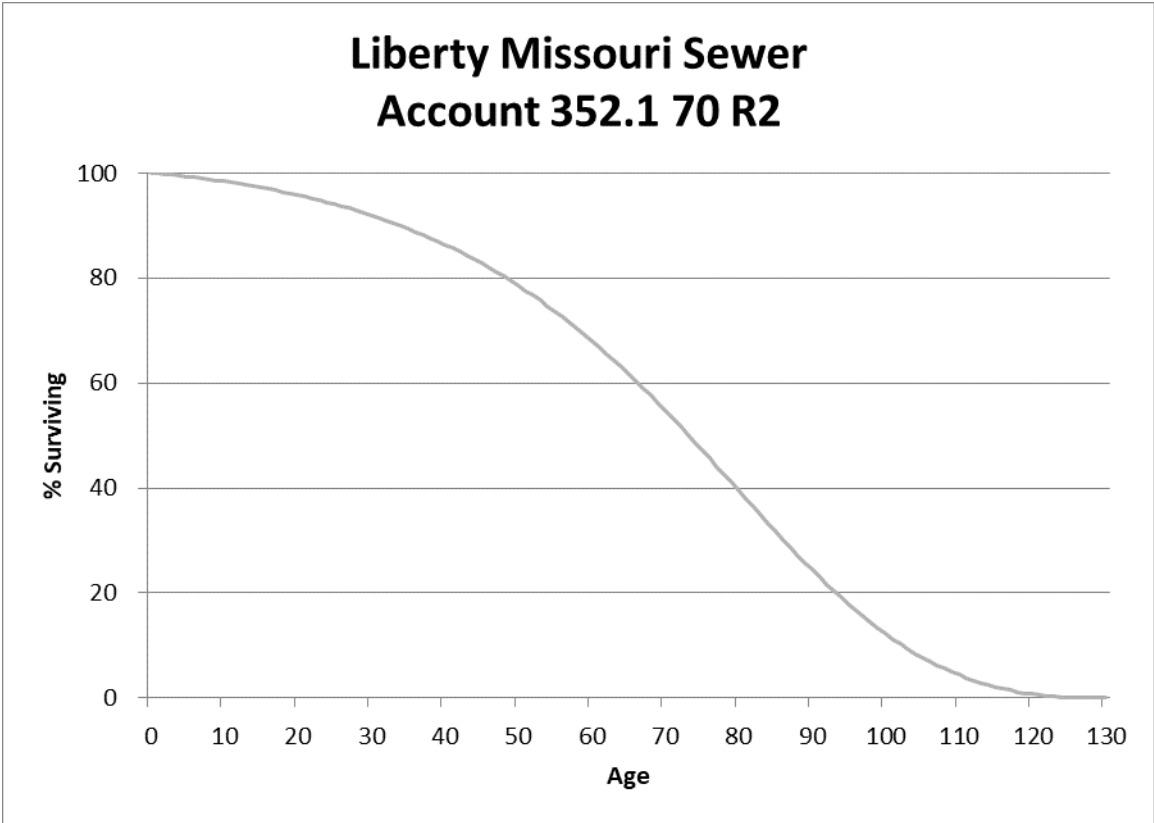
**LIFE ANALYSIS (70 R2)**

The account balance is \$464 thousand for this account. The approved life characteristic is 50 years. Company SMEs state that operationally, these assets would have a life similar to water mains in Water Account 343. Water Account 343 is estimated to have a 70 year life. Based on interviews with Company SMEs and judgment, this study recommends a 70 year life with an R2 dispersion.

The table below shows the parameters by district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	206,322.00	50	70 R2
Ozark Mountain	59,937.04	50	70 R2
KMB	7,341.14		70 R2
Valley Woods			70 R2
Savers Farm	6,077.14	50	70 R2
R D Sewer	133,976.97	50	70 R2
Bolivar	50,827.80		

A generic curve shape is shown below.





**NET SALVAGE (-5%)**

The existing net salvage parameter for all districts is 0 percent. The Company’s engineering consultant recommends negative 5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
KMB	0%	-5%
Valley Woods	0%	-5%
Savers Farm	0%	-5%
R D Sewer	0%	-5%
Bolivar	0%	-5%

**WASTEWATER Account 352.2 Wastewater Collection Sewers Gravity**

This account consists of the installed cost of all gravity collecting sewers, interceptor, branch, trunk, lateral including service wye and manholes. Manholes are to be included as a separate unit of property.

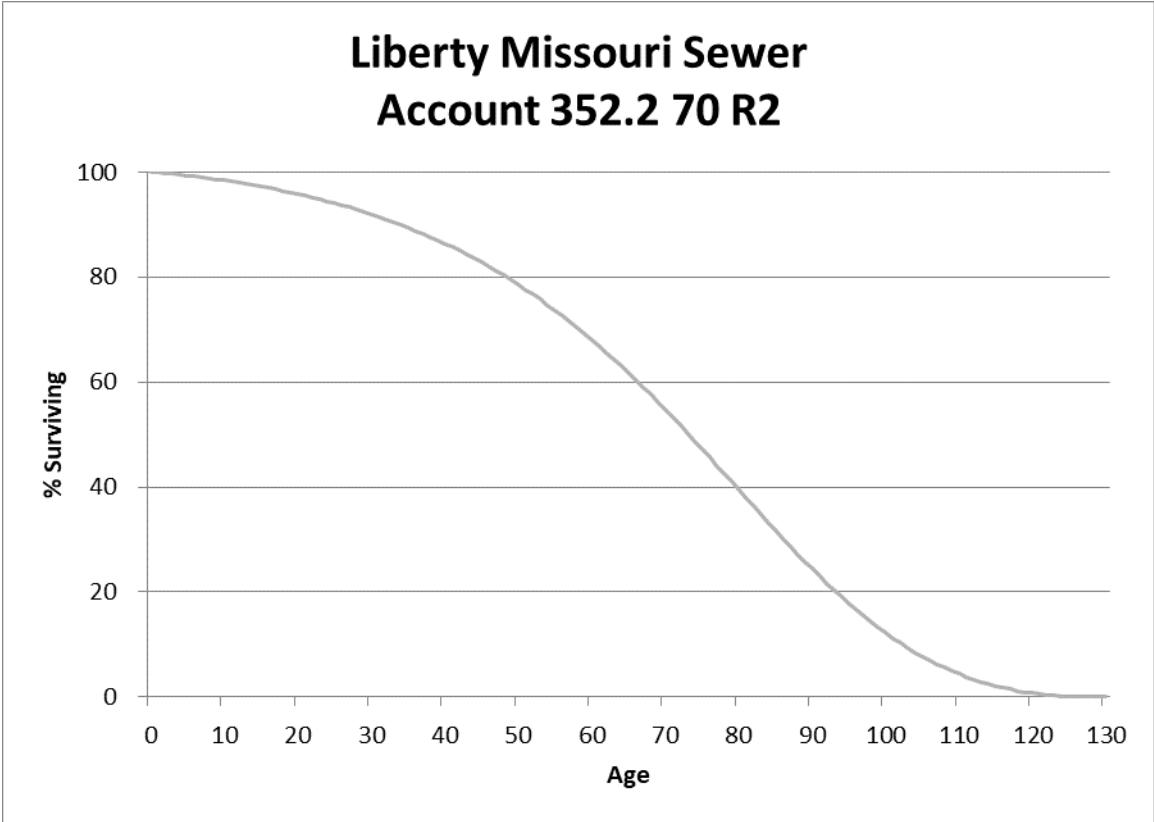
**LIFE ANALYSIS (70 R2)**

The account balance is \$2.2 million thousand for this account. The approved life characteristic is 50 years. Company SMEs state that operationally, these assets would have a life similar to water mains in Water Account 343. Water Account 343 is estimated to have a 70 year life. Based on interviews with Company SMEs and judgment, this study recommends a 70 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	67,356.33	50	70 R2
Ozark Mountain	204,672.89	50	70 R2
KMB	188,213.94	50	70 R2
Valley Woods	60,582.00	50	70 R2
Savers Farm	51,426.26	50	70 R2
R D Sewer			70 R2
Bolivar	1,594,598.00		70 R2

A generic curve shape is shown below.



**NET SALVAGE (-5%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends negative 5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
KMB	0%	-5%
Valley Woods	0%	-5%
Savers Farm	0%	-5%
R D Sewer	0%	-5%
Bolivar	0%	-5%

**WASTEWATER Account 353 Collection Services**

This account consists of service sewers, from collection sewer to the customer’s property or curb line. A sample of items to be included in this account are: manhole or clean-out, municipal inspection and permits; jointing; pavement disturbed, and taping saddle.

**LIFE ANALYSIS (40 R2)**

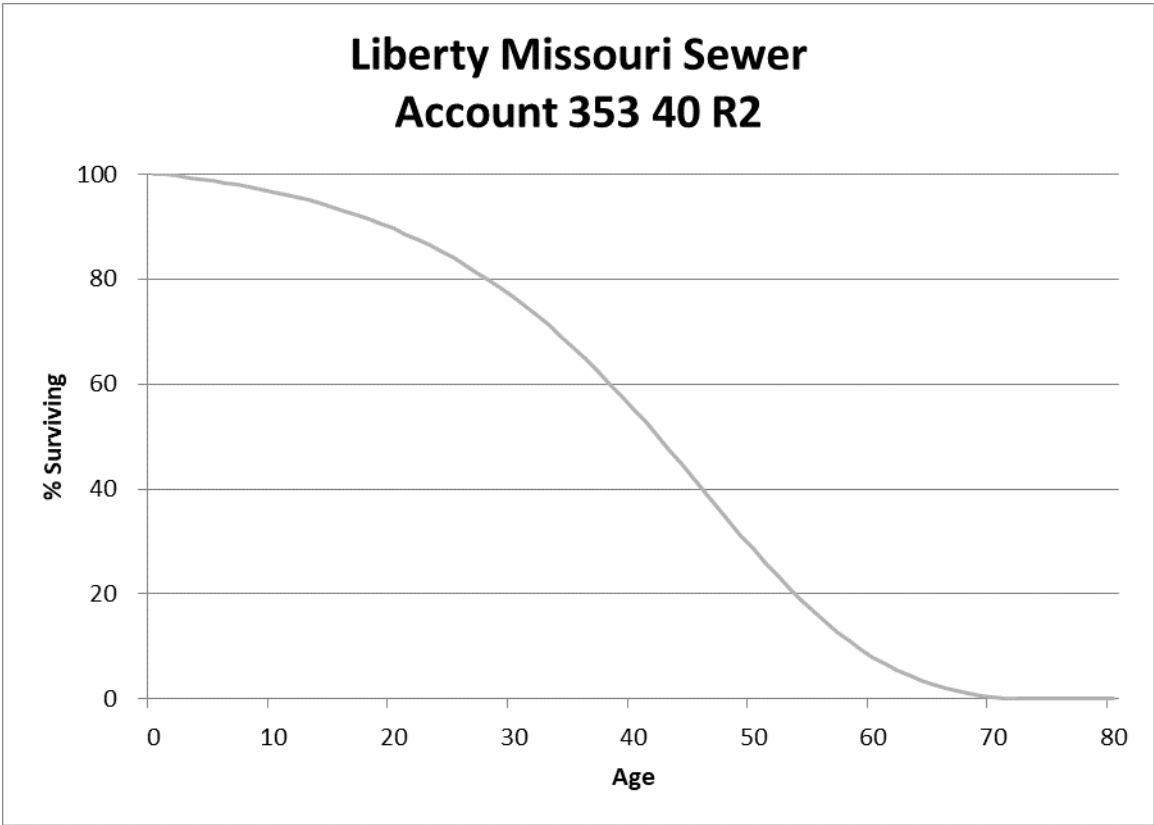
The account balance is \$3.5 million thousand for this account. The approved life characteristic is 50 years. These services are made of clay tile or pvc. Company SMEs state that an operational life slightly longer than water services in Water Account 345, perhaps 40 years, would be reasonable. They don’t believe an operational life average of 50 years would be achievable. Based on interviews with Company SMEs and judgment, this study recommends a 40 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			40 R2
Ozark Mountain	107,081.00	50	40 R2
KMB			40 R2
Valley Woods	55,985.00	50	40 R2
Savers Farm	16,800.61	50	40 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
R D Sewer	17,548.35	50	40 R2
Bolivar	3,337,213.33	50	40 R2

A generic curve shape is shown below.



**NET SALVAGE (-5%)**

The existing net salvage parameter for all districts is 0 percent. The Company’s engineering consultant recommends negative 5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
KMB	0%	-5%
Valley Woods	0%	-5%
Savers Farm	0%	-5%
R D Sewer	0%	-5%
Bolivar	0%	-5%

**WASTEWATER Account 354 Wastewater Collection Flow Measuring Devices**

This account consists of flow measuring and recording equipment and initial testing used for measuring the quantity of sewage or sewage effluent delivered by customers, whether actually in service or held in reserve.

**LIFE ANALYSIS (30 R2)**

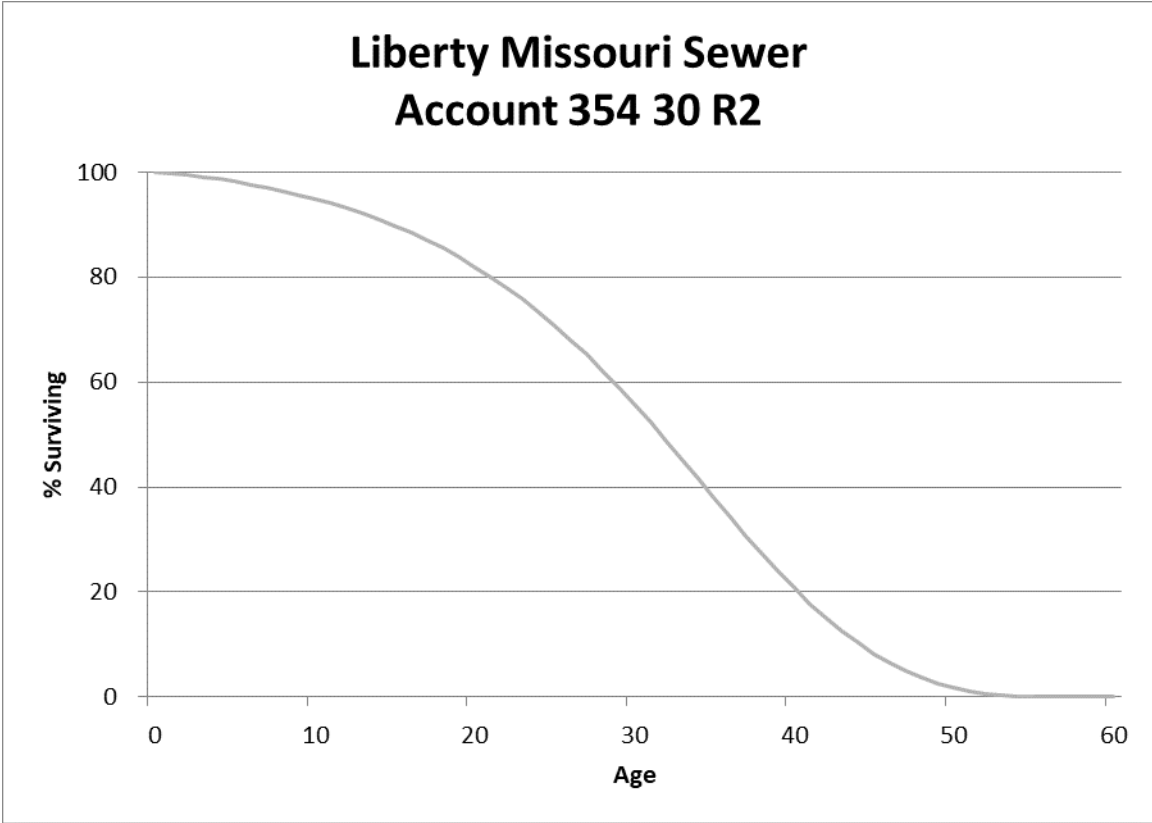
The account balance is \$67 thousand for this account. The approved life characteristic is 30 years. Company SMEs support the operational life of flow measuring devices at 30 years to be reasonable. Based on interviews with Company SMEs and judgment, this study recommends a 30 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			30 R2
Ozark Mountain	5,845.46	30	30 R2
KMB	13,136.22	30	30 R2
Valley Woods			30 R2
Savers Farm	17,914.03	30	30 R2
R D Sewer	1,537.42	30	30 R2
Bolivar	28,382.50	30	30 R2



A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	0%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%

**WASTEWATER Account 361 Wastewater Pumping Structures and Improvements**

This account consists of structures and improvements used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment, and distribution and general plant operations.

**LIFE ANALYSIS (25 R2)**

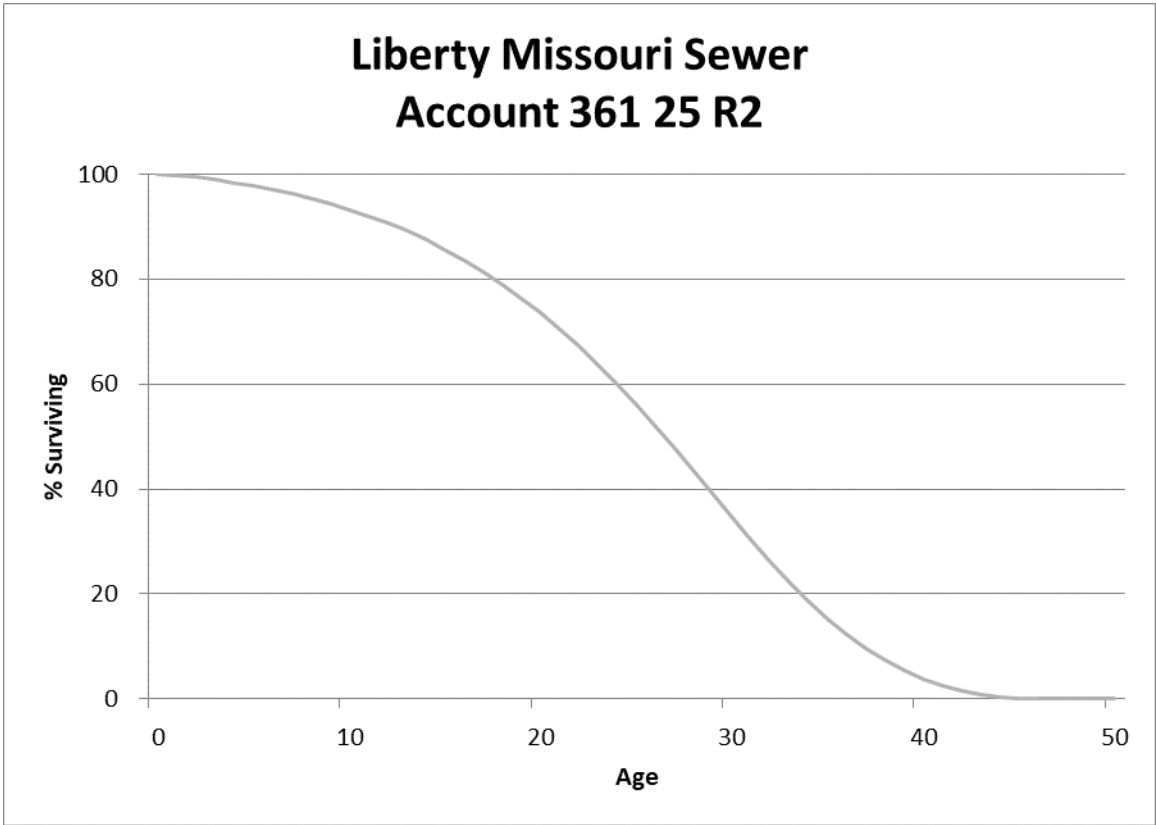
The account balance is \$715 thousand for this account. The approved life characteristic is 40 R2. Pumping Structures in this account includes lift stations. Company SMEs state a life of 25 years would be reasonable from an operational perspective. The pumps would not last longer. KMP was undersized and needed to be upgraded. The concrete would last a long time, but the pumps and other equipment would not since the environment is so toxic. Company SMEs would expect the station itself to last 50 years but the equipment would only last around 10 years. They feel that an average operational life of 25 years is reasonable. Based on interviews with Company SMEs and judgment, this study recommends a 25 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	106,386.02	25	25 R2
Ozark Mountain	190,651.53	25	25 R2
KMB	414,986.06	25	25 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Valley Woods			25 R2
Savers Farm	3,065.46	25	25 R2
R D Sewer			25 R2
Bolivar			25 R2

A generic curve shape is shown below.



**NET SALVAGE(0%)**

The existing net salvage parameter varies between 0 and positive 10 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	5%	0%
Ozark Mountain	10%	0%
KMB	10%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%

**WASTEWATER Account 362 Wastewater Pumping Receiving Wells**

This account consists of the cost installed of pumping equipment driven by electric power or diesel engines. Such items included: motors or engines for driving pumps, Pumps, including settings, gearing, shafting and belting, sewage piping within station, including valves, auxiliary equipment for motors and pumps such as oiling systems, cooling systems, condensers, foundations, frames and bed plates, and hoist units.

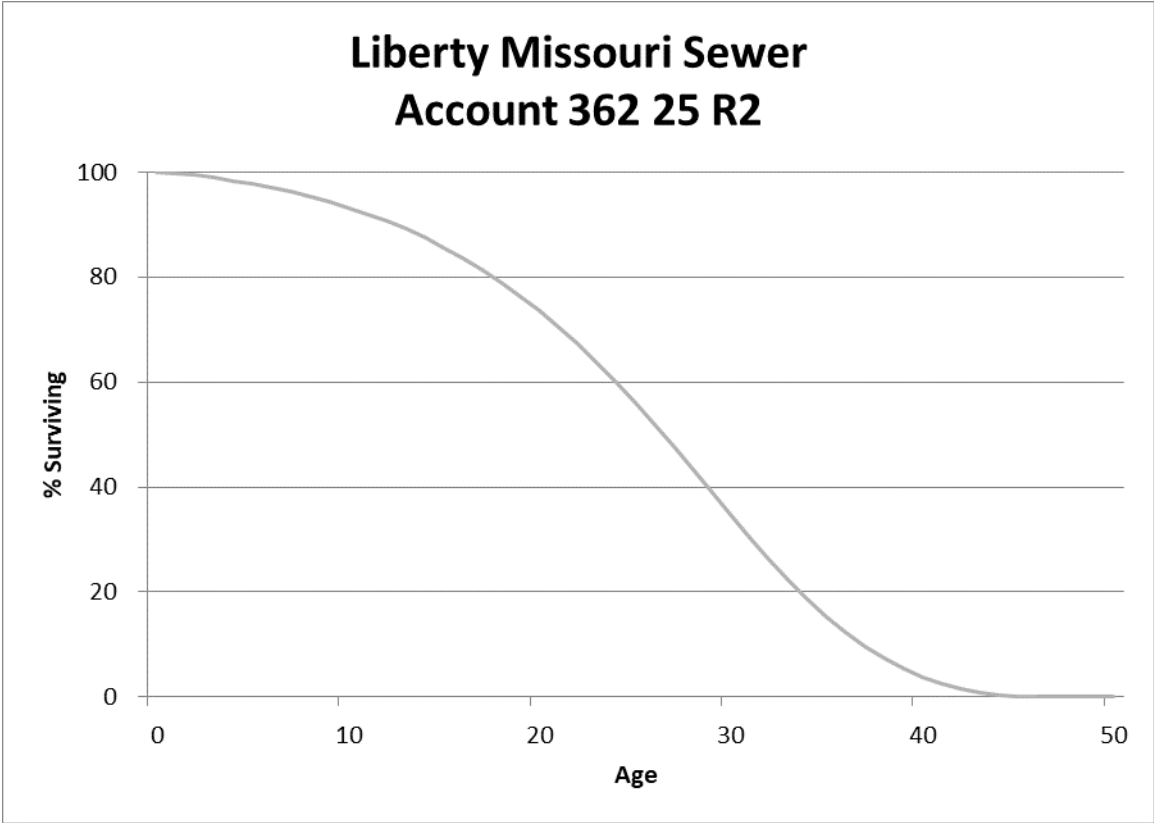
**LIFE ANALYSIS (25 R2)**

The account balance is \$38 thousand for this account. The approved life characteristic is 25 years. Company SMEs support an operational life of this account to remain at the existing 25 year life. Based on interviews with Company SMEs and judgment, this study recommends a 25 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			25 R2
Ozark Mountain	10,661.00	25	25 R2
KMB			25 R2
Valley Woods			25 R2
Savers Farm	24,635.26	25	25 R2
R D Sewer			25 R2
Bolivar	2,387.00	25	25 R2

A generic curve shape is shown below.



**NET SALVAGE (-20%)**

The existing net salvage parameter varies between 0 and positive 5 percent. for all districts is 0 percent. The Company's engineering consultant recommends negative 20 percent net salvage for these assets. The table below shows the parameters for each district.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	-20%
Ozark Mountain	5%	-20%
KMB	0%	-20%
Valley Woods	0%	-20%
Savers Farm	0%	-20%
R D Sewer	0%	-20%
Bolivar	0%	-20%



**WASTEWATER Account 363 Wastewater Electric Pumping Equipment**

This account consists of the cost installed of pumping equipment driven by electric power. Such items included: motors or engines for driving pumps, Pumps, including settings, gearing, shafting and belting, sewage piping within station, including valves, auxiliary equipment for motors and pumps such as oiling systems, cooling systems, condensers, foundations, frames and bed plates, and hoist units.

**LIFE ANALYSIS (20 R2)**

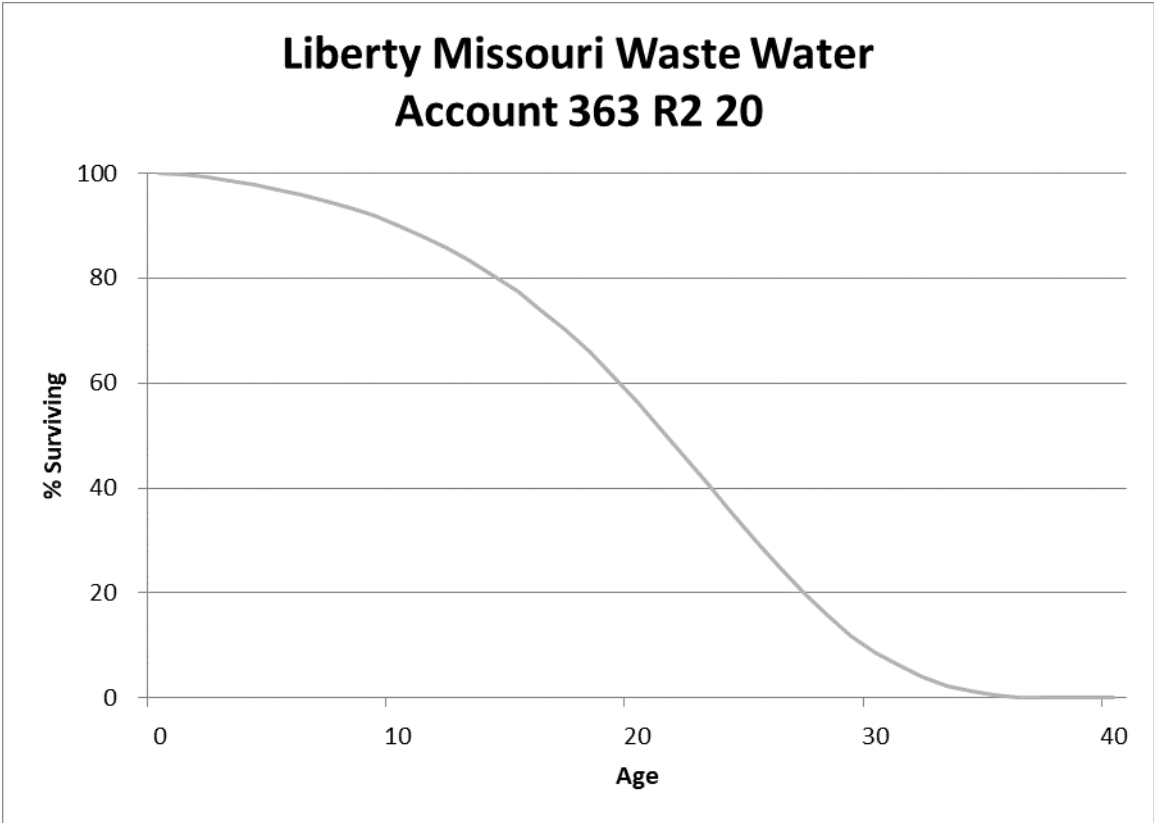
The account balance is \$182 thousand for this account. The approved life characteristic is 25 years. Company SMEs do not expect to achieve an operational life of 25 years for the assets in this account. Their expectations are shorter – in the 20 year range based on the type of equipment in this account. Based on interviews with Company SMEs and judgment, this study recommends a 20 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	14,144.46	25	20 R2
Ozark Mountain		25	20 R2
KMB			20 R2
Valley Woods	22,428.59	25	20 R2
Savers Farm		25	20 R2
R D Sewer	58610.8	25	20 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Bolivar	86,934.93	25	20 R2

A generic curve shape is shown below.



**NET SALVAGE (-20%)**

The existing net salvage parameter varies between 0 and positive 5 percent. for all districts is 0 percent. The Company's engineering consultant recommends negative 20 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	-20%
Ozark Mountain	5%	-20%
KMB	0%	-20%
Valley Woods	0%	-20%
Savers Farm	0%	-20%
R D Sewer	0%	-20%
Bolivar	0%	-20%

**WASTEWATER Account 365 Wastewater Pumping Other Pumping Equipment**

This account consists of electric or diesel pumping equipment.

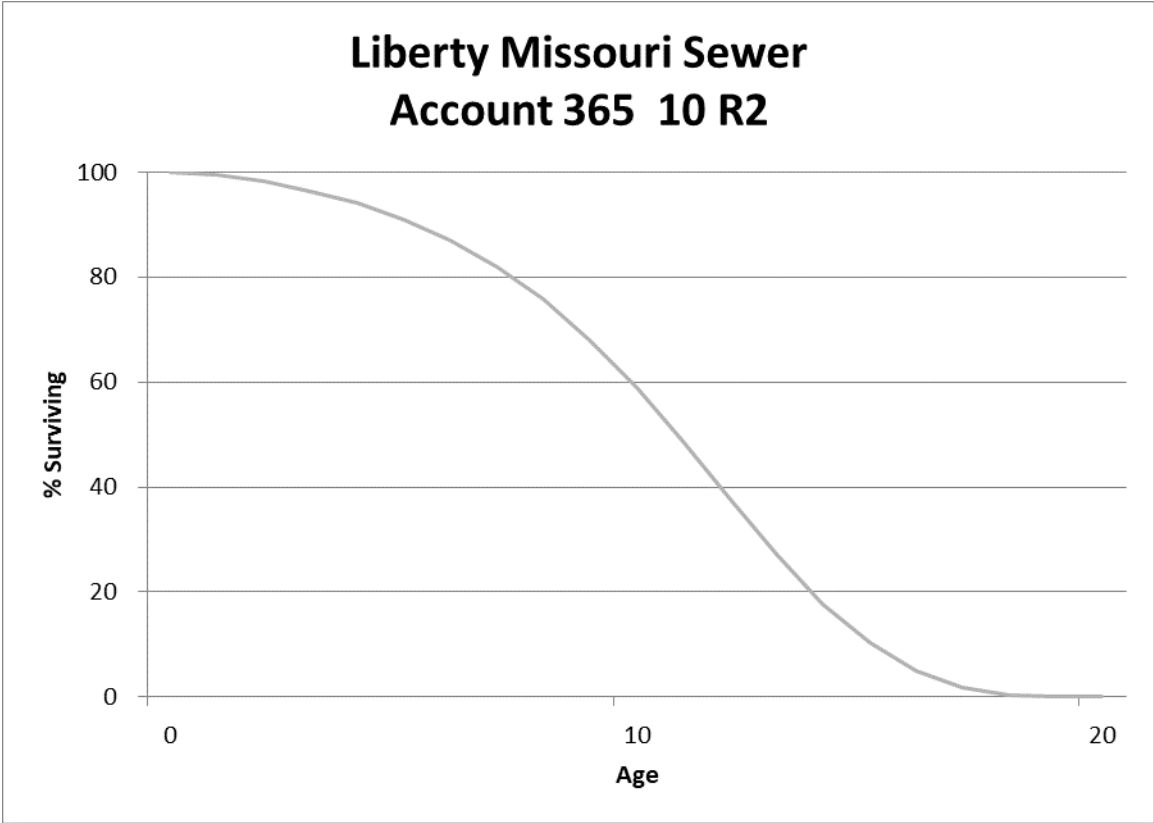
**LIFE ANALYSIS (10 R2)**

The account balance is \$23 thousand for this account. The approved life characteristic is 10 years. Company personnel report that RD Sewer contains troll equipment. The assets are related to monitoring Equipment. Company SMEs consider that the electronics will be discarded, not repaired, and that 10 years would be the maximum life they could attain. Based on interviews with Company SMEs and judgment, this study recommends a 10 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			10 R2
Ozark Mountain			10 R2
KMB			10 R2
Valley Woods			10 R2
Savers Farm			10 R2
R D Sewer	23,476.31	10	10 R2
Bolivar			10 R2

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	0%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%

**WASTEWATER Account 371 Wastewater Structures and Improvements Treatment**

This account consists of structures and improvements such as electric panels, roofs, sprinklers, and other building components.

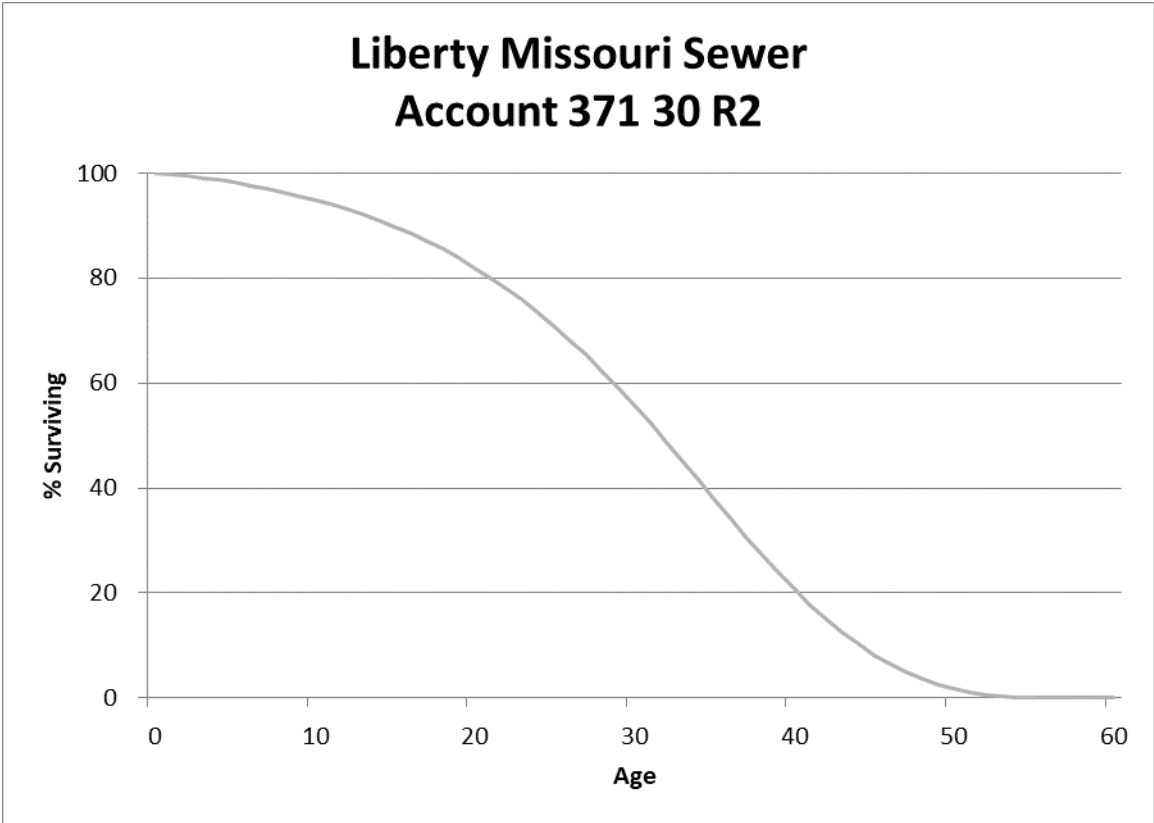
**LIFE ANALYSIS (30 R2)**

The account balance is \$558 thousand for this account. The approved life characteristic is 27 years. Company SMEs would expect a 30 year operational life for this group. Based on interviews with Company SMEs and judgment, this study recommends a 30 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	15,118.50	27	30 R2
Ozark Mountain	68,658.96	27	30 R2
KMB	131,299.76	27	30 R2
Valley Woods			30 R2
Savers Farm	78,192.14	27	30 R2
R D Sewer			30 R2
Bolivar	265,137.60	27	30 R2

A generic curve shape is shown below.





**NET SALVAGE (0%)**

The existing net salvage parameter varies between 0 and positive 10 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	10%	0%
Ozark Mountain	10%	0%
KMB	10%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%

**WASTEWATER Account 372 Wastewater Treatment and Disposal Equipment**

This account consists of apparatus equipment and other facilities used for the treatment of wastewater, disposal of sewage wastes and the treatment of effluent for reuse.

**LIFE ANALYSIS (30 R2)**

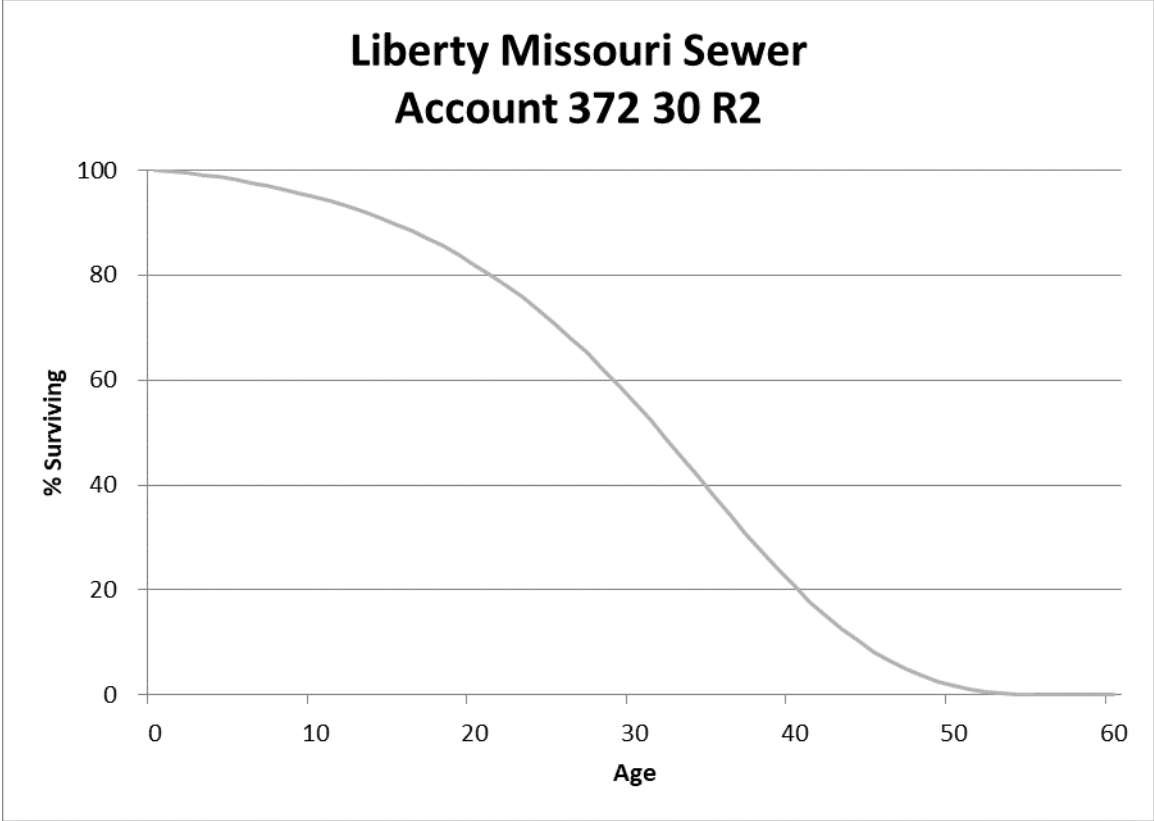
The account balance is \$10.7 million for this account. The approved life characteristic is 20 years. The Timber Creek and Ozark Mountain districts have mechanical plant. Company SMEs state that their operational life expectation is longer than the existing 20 years. Mechanical devices are above the flow. Like lift stations, the structure would live longer than the equipment. Company SMEs would recommend a 30 year life as a reasonable operational average for this group. Based on interviews with Company SMEs and judgment, this study recommends a 30 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	414,017.93	20	30 R2
Ozark Mountain	272,181.62	20	30 R2

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
KMB	435,632.21	20	30 R2
Valley Woods	53,593.63		30 R2
Savers Farm	32,342.83		30 R2
R D Sewer	74,281.07	25	30 R2
Bolivar	9,428,373.32	25	30 R2

A generic curve shape is shown below.



**NET SALVAGE (-20%)**

The existing net salvage parameter varies between 0 and positive 10 percent. The Company's engineering consultant recommends negative 20 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	10%	-20%
Ozark Mountain	10%	-20%
KMB	10%	-20%
Valley Woods	0%	-20%
Savers Farm	0%	-20%
R D Sewer	0%	-20%
Bolivar	0%	-20%

**WASTEWATER Account 373 Wastewater Treatment and Disposal Plant Sewers**

This account consists of plant yard piping and appurtenances, and facilities required to dispose of treatment plant liquid effluent into the outfall sewer line.

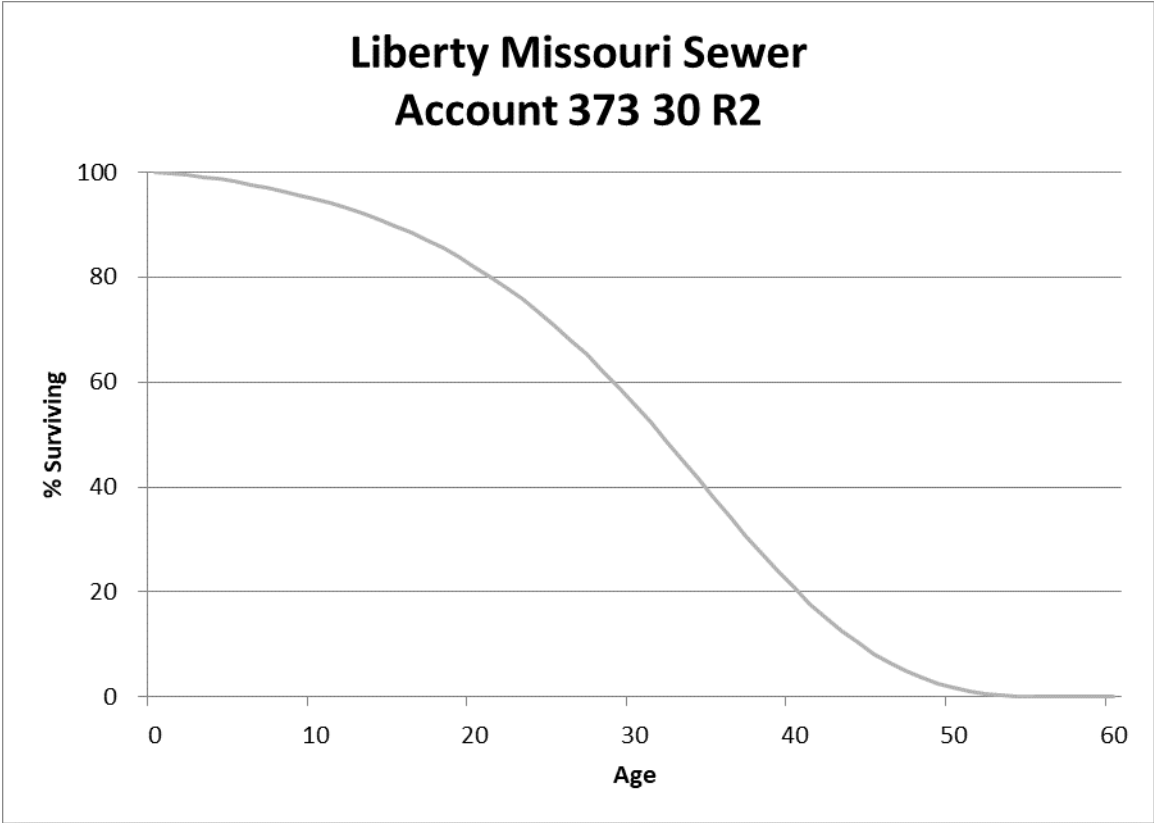
**LIFE ANALYSIS (30 R2)**

The account balance is \$138 thousand for this account. The approved life characteristic ranges between 20 and 40 years. Company SMEs would expect an operational life of around 30 years for this group. Based on interviews with Company SMEs and judgment, this study recommends a 30 year life with an R2 dispersion.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	23,784.24	40	30 R2
Ozark Mountain	4,017.67	40	30 R2
KMB			30 R2
Valley Woods	75,054.00	20	30 R2
Savers Farm			30 R2
R D Sewer	35,039.26	20	30 R2
Bolivar			30 R2

A generic curve shape is shown below.



**NET SALVAGE (-5%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends negative 5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
KMB	0%	-5%
Valley Woods	0%	-5%
Savers Farm	0%	-5%
R D Sewer	0%	-5%
Bolivar	0%	-5%



**WASTEWATER Account 374 Wastewater Treatment and Disposal Outfall Sewer Lines**

This account consists of sewer line carrying effluent from treatment facility to point of discharge, including headwall or outlet. The account balance is \$2.3 million for this account.

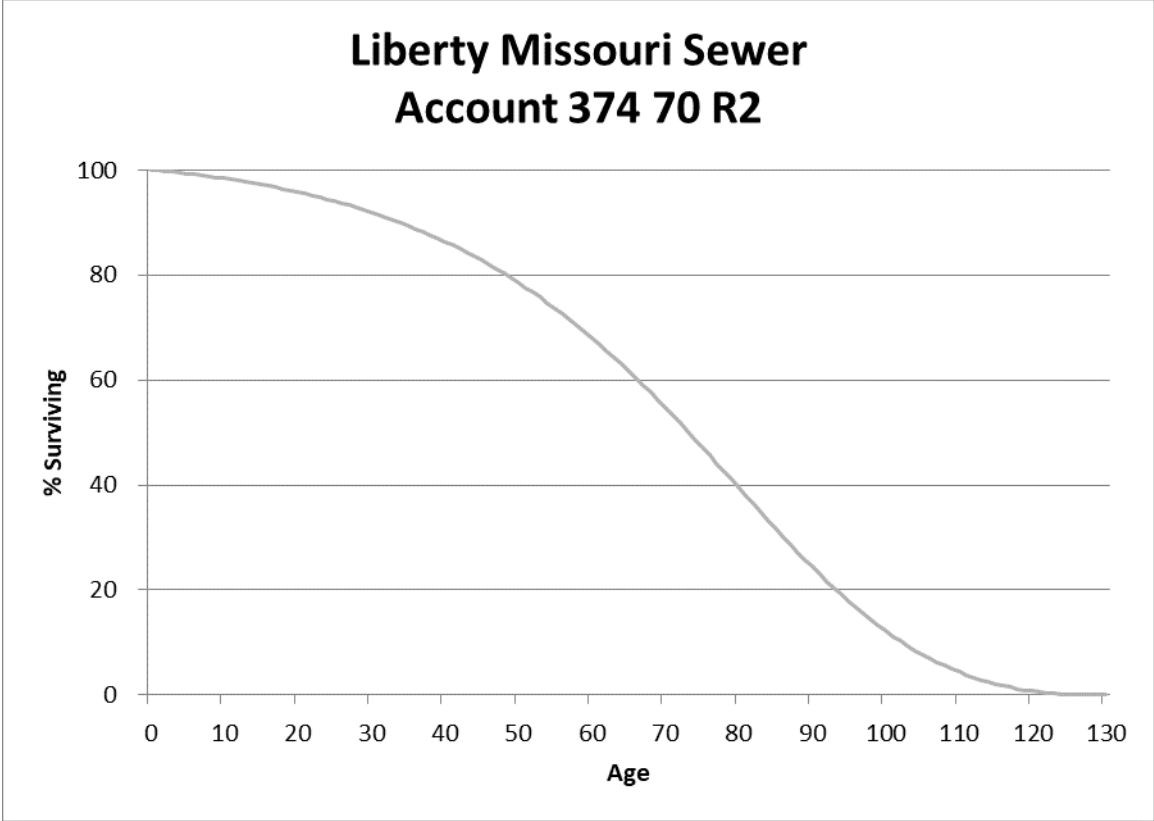
**LIFE ANALYSIS (70 R2)**

The account balance is \$99 thousand for this account. The approved life characteristic is 50 years. Company SMEs would model these assets as similar to that of Water Account 343, 70 years. Based on information from Company SMEs and judgment, this depreciation study recommends a 70 R2 dispersion curve for this account.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	4,323.56	50	70 R2
Ozark Mountain	3,892.00	50	70 R2
KMB	16,132.56		70 R2
Valley Woods			70 R2
Savers Farm			70 R2
R D Sewer			70 R2
Bolivar	\$75,109.00	50	70 R2

A generic curve shape is shown below.



**NET SALVAGE (-5%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends negative 5 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	-5%
Ozark Mountain	0%	-5%
KMB	0%	-5%
Valley Woods	0%	-5%
Savers Farm	0%	-5%
R D Sewer	0%	-5%
Bolivar	0%	-5%

**WASTEWATER Account 390 Wastewater Structures and Improvements**

This account consists of structures and improvements used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment, and distribution and general plant operations.

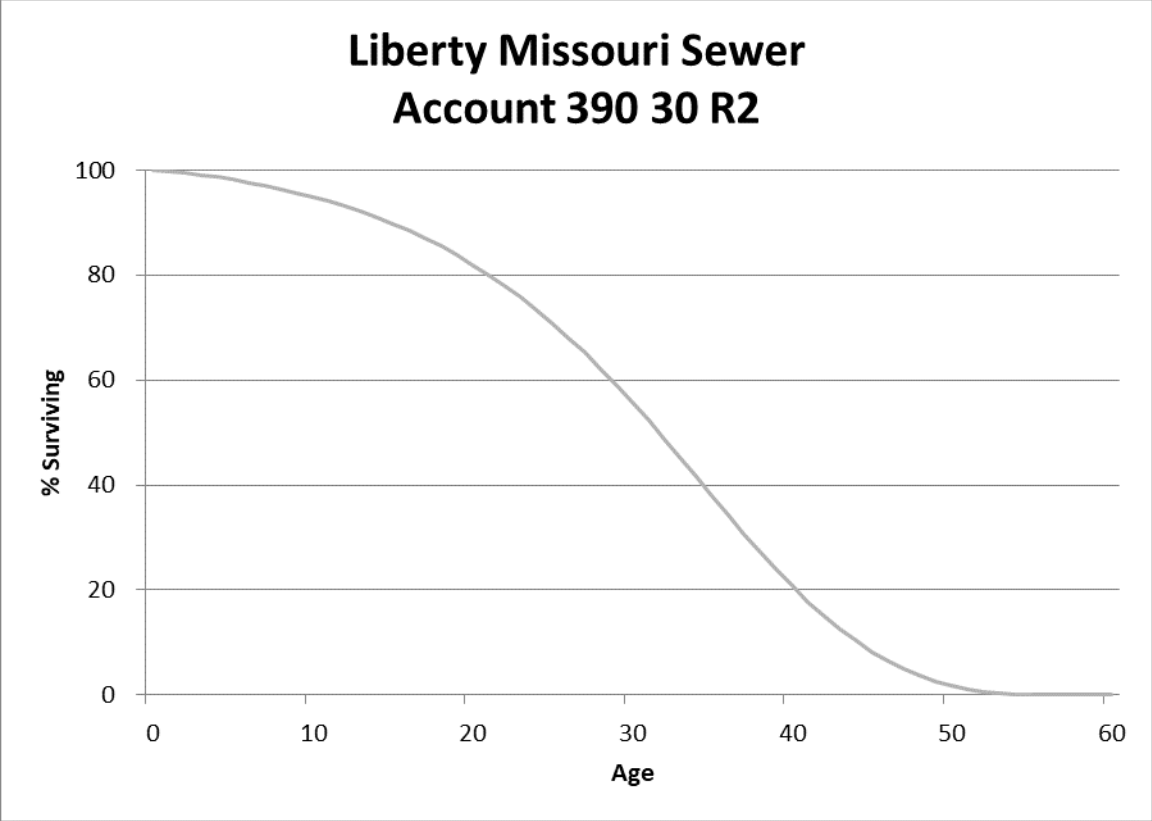
**LIFE ANALYSIS (30 R2)**

The account balance is \$244 thousand for this account. The approved life characteristic ranges between 33 and 40 years. Assets in this account are similar to Water Account 390. Based on the recommendation for Water Account 390, this depreciation study recommends a 30 R2 dispersion curve for this account.

The table below shows the parameters for each district.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			30 R2
Ozark Mountain	8,063.95	40	30 R2
KMB			30 R2
Valley Woods			30 R2
Savers Farm			30 R2
R D Sewer	531.55	33	30 R2
Bolivar	235,841.00	33	30 R2

A generic curve shape is shown below.



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	10%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%

**WASTEWATER Account 391 Wastewater Office Furniture**

This account consists of office furniture and similar equipment used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment, and distribution and general plant operations.

**LIFE ANALYSIS (20 SQ)**

The account balance is \$21 thousand for this account. The approved life characteristic is 20 years. Assets in this account are similar to Water Account 391. Based on the recommendation for Water Account 391, this depreciation study recommends a 20 SQ dispersion curve for this account.

A table showing the parameters by district is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	555.79	20	20 SQ
Ozark Mountain	2,600.99	20	20 SQ
KMB	18,077.34	20	20 SQ
Valley Woods			20 SQ
Savers Farm			20 SQ
R D Sewer			20 SQ
Bolivar			20 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	0%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%



**WASTEWATER Account 391.1 Wastewater Computer Equipment**

This account consists of computer equipment used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment, and distribution and general plant operations.

**LIFE ANALYSIS (5 SQ)**

The account balance is \$2 thousand for this account. Assets in this account are similar to Water Account 391.1. Based on the recommendation for Water Account 391.1, this depreciation study recommends a 5 SQ dispersion curve for this account.

A table showing the parameters by district is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			5 SQ
Ozark Mountain			5 SQ
KMB	1,585.00	6	5 SQ
Valley Woods			5 SQ
Savers Farm			5 SQ
R D Sewer			5 SQ
Bolivar			5 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	0%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%

**WASTEWATER Account 392 Wastewater Transportation Equipment**

This account consists of transportation equipment used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment, and distribution and general plant operations.

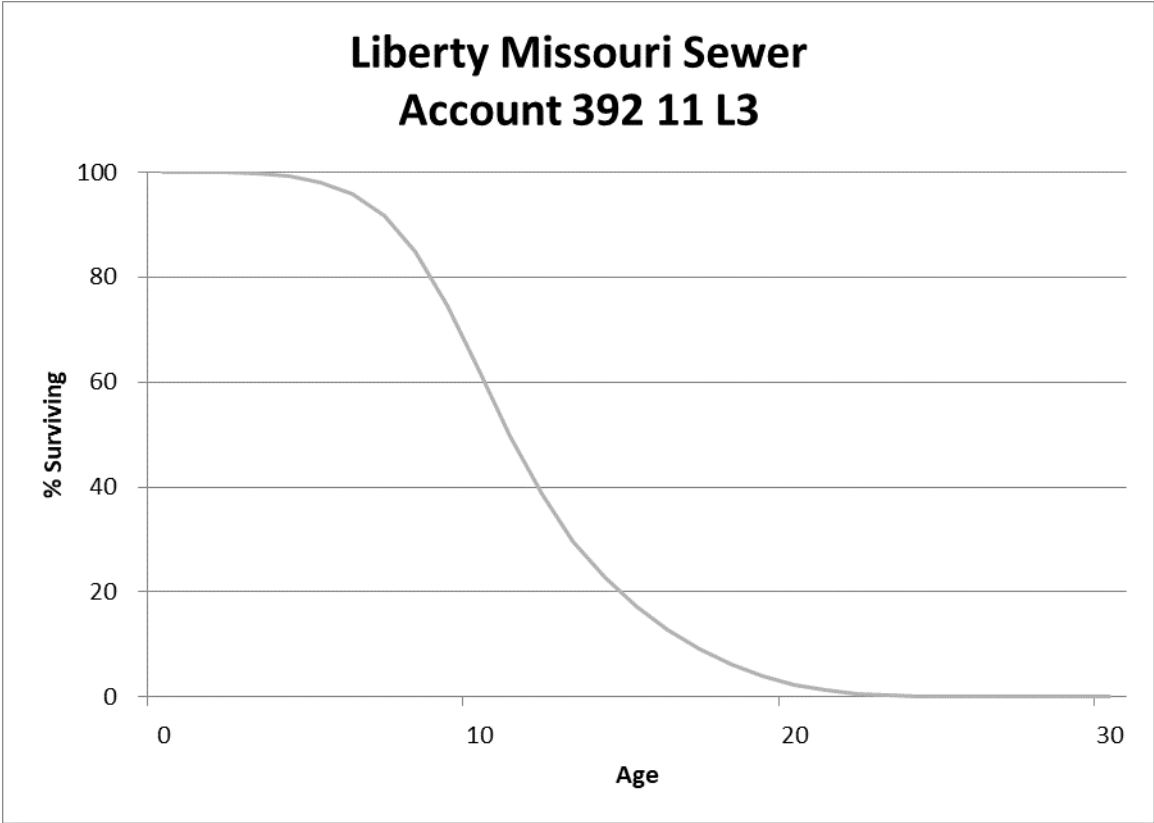
**LIFE ANALYSIS (11 L3)**

The account balance is \$507 thousand for this account. The approved life characteristic is 7 years. Assets in this account are similar to Water Account 392. Based on the recommendation for Water Account 392, this depreciation study recommends a 11 L3 dispersion curve for this account.

A table showing the parameters by district is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			11 L3
Ozark Mountain			11 L3
KMB			11 L3
Valley Woods	718.95	7	11 L3
Savers Farm			11 L3
R D Sewer			11 L3
Bolivar	506,515.50	7	11 L3

. A generic curve shape is shown below.



**NET SALVAGE (6%)**

The existing net salvage parameter for all districts is 0 percent. As with Water Account 392, a 6% net salvage factor is recommended.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	6%
Ozark Mountain	0%	6%
KMB	0%	6%
Valley Woods	0%	6%
Savers Farm	0%	6%
R D Sewer	0%	6%
Bolivar	0%	6%

**WASTEWATER Account 393 Wastewater Stores Equipment**

This account consists of stores equipment such as shelving.

**LIFE ANALYSIS (20 SQ)**

The account balance is \$15.2 thousand for this account. The approved life characteristic is 25 years. Assets in this account are similar to Water Account 393. Based on the recommendation for Water Account 393, this depreciation study recommends a 20 SQ dispersion curve for this account.

A table showing the parameters by district is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	930.00	25	20 SQ
Ozark Mountain			20 SQ
KMB			20 SQ
Valley Woods			20 SQ
Savers Farm			20 SQ
R D Sewer			20 SQ
Bolivar	14,269.50		20 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	0%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%

**WASTEWATER Account 394 Tools, Shop and Garage Equipment**

This account consists of tools, shop and garage equipment used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment, and distribution and general plant operations.

**LIFE ANALYSIS (10 SQ)**

The account balance is \$4.6 thousand for this account. The approved life characteristic ranges between 10 and 25 years. Assets in this account are similar to Water Account 394. Based on the recommendation for Water Account 394, this depreciation study recommends a 10 SQ dispersion curve for this account.

A table showing the parameters by district is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek	620.41	25	10 SQ
Ozark Mountain	791.05	20	10 SQ
KMB	2,444.56	20	10 SQ
Valley Woods			10 SQ
Savers Farm	762.63	10	10 SQ
R D Sewer			10 SQ
Bolivar			10 SQ



**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	10%	0%
Ozark Mountain	10%	0%
KMB	10%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	10%	0%
Bolivar	0%	0%

**WASTEWATER Account 395 Wastewater Laboratory Equipment**

This account consists of laboratory equipment used for wastewater operations.

**LIFE ANALYSIS (5 SQ)**

The account balance is \$1 thousand for this account. The approved life characteristic is 10 years. Assets in this account are similar to Water Account 395. Based on the recommendation for Water Account 395, this depreciation study recommends a 5 SQ dispersion curve for this account.

A table showing the parameters by district is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			5 SQ
Ozark Mountain			5 SQ
KMB			5 SQ
Valley Woods			5 SQ
Savers Farm			5 SQ
R D Sewer	1,093.15	10	5 SQ
Bolivar			5 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	0%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%

**WASTEWATER Account 396 Wastewater Power Operated Equipment**

This account consists of power operated equipment used for wastewater operations. Such assets might be backhoes or mowers.

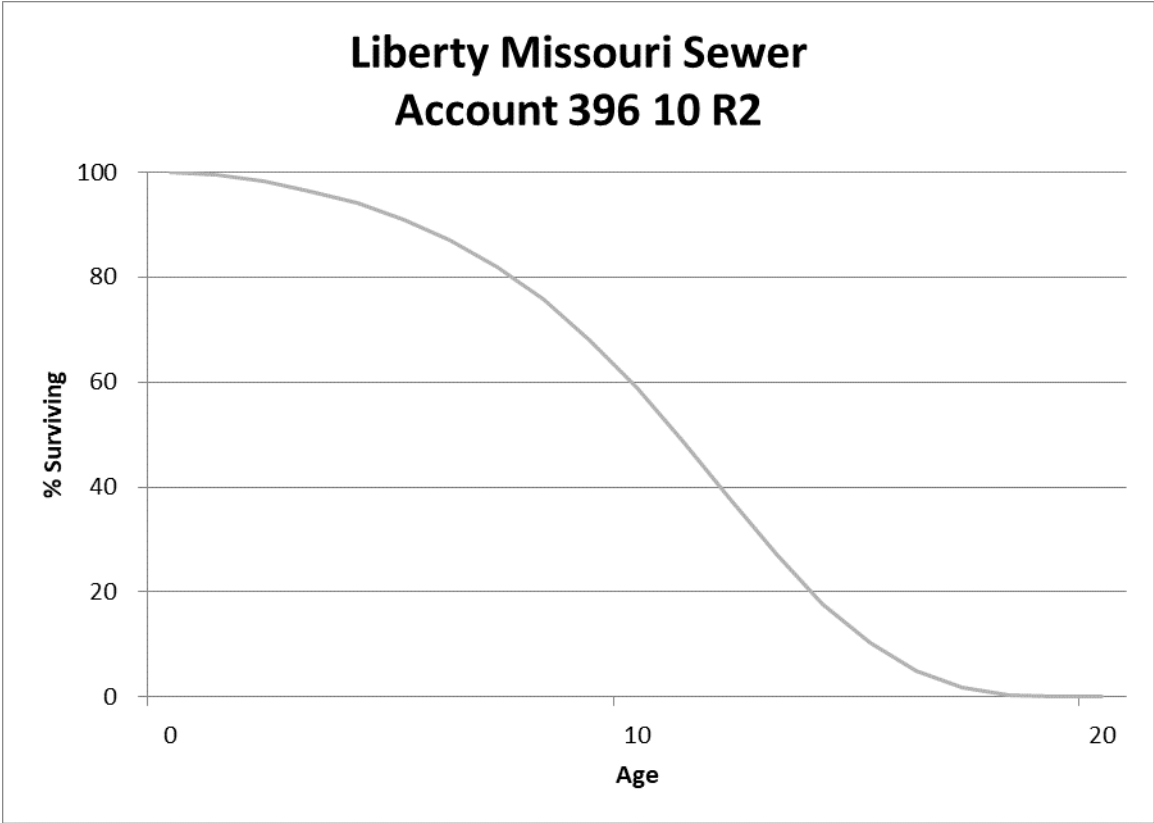
**LIFE ANALYSIS (10 R2)**

The account balance is \$700 thousand for this account. The approved life characteristic is ranges from 10 to 14 years. Assets in this account are similar to Water Account 396. Based on the recommendation for Water Account 396, this depreciation study recommends a 10 R2 dispersion curve for this account.

A table showing the parameters by district is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			10 R2
Ozark Mountain			10 R2
KMB			10 R2
Valley Woods	1,750.00	14	10 R2
Savers Farm			10 R2
R D Sewer	174.56	10	10 R2
Bolivar	698,217.15	10	10 R2

A generic curve shape is shown below.



**NET SALVAGE (6%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	6%
Ozark Mountain	0%	6%
KMB	0%	6%
Valley Woods	0%	6%
Savers Farm	0%	6%
R D Sewer	0%	6%
Bolivar	0%	6%

**WASTEWATER Account 397 Wastewater Communication Equipment**

This account consists of communication equipment used in wastewater operations.

**LIFE ANALYSIS (10 SQ)**

The account balance is \$154.2 thousand for this account. The approved life characteristic is 5 years. The assets in this account are similar to Water Account 397. Based on the recommendation for Water Account 397, this depreciation study recommends a 10 SQ dispersion curve for this account.

A table showing the parameters by district is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			10 SQ
Ozark Mountain			10 SQ
KMB			10 SQ
Valley Woods			10 SQ
Savers Farm			10 SQ
R D Sewer	160.97	5	10 SQ
Bolivar	154,007.68	5	10 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	0%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%



**WASTEWATER Account 399 General Other Intangible Plant**

This account includes other tangible property used for wastewater operations.

**LIFE ANALYSIS (10 SQ)**

The account balance is \$4 thousand for this account. The approved life characteristic ranges from 10 to 20 years. The assets in this account are similar to Water Account 399. Based on the recommendation for Water Account 399, this depreciation study recommends a 10 SQ dispersion curve for this account.

A table showing the parameters by district is shown below.

District	Plant Balance	Approved Life Characteristic	Proposed Life Characteristic
Timber Creek			10 SQ
Ozark Mountain	2,321.49	20	10 SQ
KMB			10 SQ
Valley Woods			10 SQ
Savers Farm			10 SQ
R D Sewer	1,751.33	10	10 SQ
Bolivar			10 SQ

**NET SALVAGE (0%)**

The existing net salvage parameter for all districts is 0 percent. The Company's engineering consultant recommends 0 percent net salvage for these assets.

The table below shows the parameters for each district.

District	Approved Net Salvage Percentage	Proposed Net Salvage Percentage
Timber Creek	0%	0%
Ozark Mountain	0%	0%
KMB	0%	0%
Valley Woods	0%	0%
Savers Farm	0%	0%
R D Sewer	0%	0%
Bolivar	0%	0%

**APPENDIX A**  
**Comparison of Existing vs Proposed Depreciation Rates**

LIBERTY MISSOURI WATER  
COMPUTATION OF WATER DEPRECIATION RATES  
AT DECEMBER 31, 2022

	Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %	
Division:	8118 Holiday Hills								
3110	Supply - Structures and Improvements	285,246	44,037	0.00%	0.00	241,209.06	18.74	12,871.93	4.51%
3140	Supply - Wells and Springs	107,225	90,154	-15.00%	(16,083.75)	33,154.67	58.15	570.15	0.53%
3160	Supply - Mains	34,756	28,175	-5.00%	(1,737.81)	8,319.04	67.27	123.66	0.36%
3252	Pumping - High Service or Booster Pumps	401,348	254,015	0.00%	0.00	147,332.57	3.00	49,110.86	12.24% A
3320	Water Treatment - Equipment	136,062	14,135	0.00%	0.00	121,926.72	6.07	20,098.34	14.77%
3420	T & D - Distribution Reservoirs and Standpipes	327,782	131,950	-5.00%	(16,389.10)	212,221.00	45.67	4,647.26	1.42%
3430	T & D - Transmission and Distribution Mains	869,270	296,904	-5.00%	(43,463.49)	615,829.69	56.74	10,854.14	1.25%
3450	T & D - Services	58,797	157,081	-5.00%	(2,939.83)	0.00	18.44	0.00	0.00%
3460	T & D - Meters	430,791	111,596	-7.50%	(32,309.31)	351,504.26	5.80	60,580.15	14.06%
3480	T & D - Hydrants	21,113	14,681	-5.00%	(1,055.65)	7,487.95	35.81	209.11	0.99%
3910	General - Office Furniture & Equipment	33,696	33,696	0.00%	0.00	0.00	3.50	0.00	0.00%
3911	General - Office Computer and Electronic Equipment	2,705	1,895	0.00%	0.00	810.33	3.00	270.11	9.99% A
3940	General - Tools, Shop And Garage Equip	9,740	3,420	0.00%	0.00	6,319.41	4.45	1,419.53	14.57%
		2,718,530	1,181,738		(113,979)	1,746,115		160,755	
Division:	8120 Timber Creek								
3110	Supply - Structures and Improvements	171,411	241,965	0.00%	0.00	(70,554.33)	18.79	0.00	0.00%
3140	Supply - Wells and Springs	138,676	59,472	-15.00%	(20,801.40)	100,005.02	65.96	1,516.24	1.09%
3252	Pumping - High Service or Booster Pumps	227,318	227,318	0.00%	0.00	(0.01)	3.00	(0.00)	0.00% A
3320	Water Treatment - Equipment	23,532	10,222	0.00%	0.00	13,309.54	3.00	4,436.51	18.85% A
3420	T & D - Distribution Reservoirs and Standpipes	271,384	140,649	-5.00%	(13,569.20)	144,304.07	55.96	2,578.59	0.95%
3430	T & D - Transmission and Distribution Mains	299,771	119,884	-5.00%	(14,988.54)	194,875.33	61.25	3,181.81	1.06%
3450	T & D - Services	8,194	2,035	-5.00%	(409.69)	6,568.74	19.31	340.15	4.15%
3460	T & D - Meters	53,967	7	-7.50%	(4,047.52)	58,007.39	5.52	10,509.58	19.47%
3480	T & D - Hydrants	9,366	2,221	-5.00%	(468.32)	7,613.37	36.62	207.91	2.22%
3910	General - Office Furniture & Equipment	381	381	0.00%	0.00	0.00	9.69	0.00	0.00%
3911	General - Office Computer and Electronic Equipment	1,270	821	0.00%	0.00	448.40	3.00	149.47	11.77% A
3940	General - Tools, Shop And Garage Equip	2,871	1,424	0.00%	0.00	1,447.56	3.00	482.52	16.80% A
3970	General - Communication Equipment	931	125	0.00%	0.00	806.60	3.00	268.87	28.87% A
3990	General - Other Tangible Plant	2,903	633	0.00%	0.00	2,269.73	5.50	412.68	14.22%
		1,211,973	807,157		(54,284.67)	459,101.41		24,084.31	
Division:	8122 Ozark Mountain								
3110	Supply - Structures and Improvements	120,796	40,017	0.00%	0.00	80,779.58	18.90	4,273.20	3.54%
3140	Supply - Wells and Springs	118,836	54,839	-15.00%	(17,825.39)	81,821.90	66.72	1,226.27	1.03%
3160	Supply - Mains	5,451	218	-5.00%	(272.55)	5,505.57	67.21	81.92	1.50%
3252	Pumping - High Service or Booster Pumps	107,056	34,488	0.00%	0.00	72,568.45	7.36	9,857.53	9.21%
3320	Water Treatment - Equipment	119,045	11,909	0.00%	0.00	107,135.20	6.69	16,010.43	13.45%
3420	T & D - Distribution Reservoirs and Standpipes	51,331	42,254	-5.00%	(2,566.55)	11,643.27	55.08	211.40	0.41%
3430	T & D - Transmission and Distribution Mains	432,752	93,262	-5.00%	(21,637.59)	361,127.80	62.41	5,786.32	1.34%
3450	T & D - Services	57,046	(6,114)	-5.00%	(2,852.28)	66,012.04	28.37	2,327.10	4.08%
3460	T & D - Meters	128,265	(37,709)	-7.50%	(9,619.84)	175,593.70	5.74	30,587.53	23.85%
3480	T & D - Hydrants	17,857	4,235	-5.00%	(892.86)	14,515.39	36.62	396.34	2.22%
3911	General - Office Computer and Electronic Equipment	2,427	694	0.00%	0.00	1,733.19	3.00	577.73	23.80% A
3940	General - Tools, Shop And Garage Equip	5,753	575	0.00%	0.00	5,177.84	3.00	1,725.95	30.00% A
3990	General - Other Tangible Plant	8,446	1,779	0.00%	0.00	6,667.47	5.50	1,212.27	14.35%
		1,175,061	240,446		(55,667.07)	990,281.41		74,273.98	
Division:	8149 Noel								
3100	Supply - Land	10,656					0.00	0.00	0.00%
3110	Supply - Structures and Improvements	400,412	47,798	0.00%	0.00	352,613.56	22.89	15,406.95	3.85%
3140	Supply - Wells and Springs	417,269	74,535	-15.00%	(62,590.31)	405,324.56	62.75	6,459.39	1.55%
3251	Pumping - Submersible Electric Pumping Equipment	374,792	161,043	0.00%	0.00	213,748.34	4.57	46,781.90	12.48%
3252	Pumping - High Service or Booster Pumps	347,300	156,387	0.00%	0.00	190,913.35	6.17	30,947.48	8.91%
3320	Water Treatment - Equipment	97,248	3,480	0.00%	0.00	93,767.79	6.86	13,673.91	14.06%
3322	Water Treatment - Chemical Feeders	2,179	2,000	0.00%	0.00	179.27	3.00	59.76	2.74% A
3420	T & D - Distribution Reservoirs and Standpipes	344,489	251,976	-5.00%	(17,224.44)	109,737.28	39.52	2,776.50	0.81%

LIBERTY MISSOURI WATER  
COMPUTATION OF WATER DEPRECIATION RATES  
AT DECEMBER 31, 2022

		Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %
3430	T & D - Transmission and Distribution Mains	658,670	329,745	-5.00%	(32,933.48)	361,857.74	47.10	7,682.46	1.17%
3450	T & D - Services	80,695	1,681	-5.00%	(4,034.77)	83,048.72	28.79	2,885.08	3.58%
3460	T & D - Meters	265,390	(74,462)	-7.50%	(19,904.27)	359,756.87	5.98	60,169.99	22.67%
3480	T & D - Hydrants	48,356	17,210	-5.00%	(2,417.81)	33,563.59	35.29	951.19	1.97%
3910	General - Office Furniture & Equipment	96,441	12,923	0.00%	0.00	83,517.94	15.67	5,330.23	5.53%
3911	General - Office Computer and Electronic Equipment	3,290	2,314	0.00%	0.00	975.94	3.00	325.31	9.89% A
3920	General - Transportation Equipment	5,416	(13,918)	6.00%	324.93	19,008.22	3.00	6,336.07	117.00% A
3940	General - Tools, Shop And Garage Equip	53,599	5,360	0.00%	0.00	48,239.36	5.58	8,652.03	16.14%
3960	General - Power-Operated Equipment	25,717	9,781	6.00%	1,543.01	14,392.96	3.00	4,797.65	18.66% A
3970	General - Communication Equipment	5,386	(17,294)	0.00%	0.00	22,680.54	3.00	7,560.18	140.36% A
		<u>3,237,304</u>	<u>970,560</u>		<u>(137,237.15)</u>	<u>2,393,326.04</u>		<u>220,796.08</u>	

Division:

		Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %
8152 KMB									
3010	Intangible - Organization	35,409							0.00%
3020	Franchises and Consents	4,109							0.00%
3100	Supply - Land	50,757							0.00%
3110	Supply - Structures and Improvements	246,507	40,728	0.00%	0.00	205,779.32	23.11	8,902.49	3.61%
3140	Supply - Wells and Springs	159,530	9,761	-15.00%	(23,929.47)	173,698.10	65.74	2,642.20	1.66%
3252	Pumping - High Service or Booster Pumps	170,505	153,309	0.00%	0.00	17,195.41	3.00	5,731.80	3.36% A
3320	Water Treatment - Equipment	29,442	5,053	0.00%	0.00	24,388.66	4.82	5,062.52	17.20%
3420	T & D - Distribution Reservoirs and Standpipes	32,618	31,700	-5.00%	(1,630.90)	2,548.96	3.00	849.65	2.60% A
3430	T & D - Transmission and Distribution Mains	469,071	154,335	-5.00%	(23,453.54)	338,189.44	29.73	11,375.78	2.43%
3450	T & D - Services	111,182	3,400	-5.00%	(5,559.12)	113,341.59	28.97	3,912.32	3.52%
3460	T & D - Meters	290,667	119,186	-7.50%	(21,800.05)	193,281.19	6.75	28,648.66	9.86%
3470	T & D - Meter Installations	31,674	70,321	-7.50%	(2,375.55)	0.00	35.11	0.00	0.00%
3480	T & D - Hydrants	16,900	15,952	-5.00%	(845.00)	1,792.80	32.64	54.93	0.33%
3910	General - Office Furniture & Equipment	4,746	475	0.00%	0.00	4,270.98	3.50	1,220.28	25.71%
3911	General - Office Computer and Electronic Equipment	3,799	3,799	0.00%	0.00	0.00	3.00	0.00	0.00% A
3940	General - Tools, Shop And Garage Equip	714	71	0.00%	0.00	642.90	3.00	214.30	30.00% A
3970	General - Communication Equipment	2,915	391	0.00%	0.00	2,524.80	3.00	841.60	28.87% A
3990	General - Other Tangible Plant	17,256	13,497	0.00%	0.00	3,759.32	3.00	1,253.11	7.26% A
		<u>1,677,802</u>	<u>621,979</u>		<u>(79,593.62)</u>	<u>1,081,413.46</u>		<u>70,709.64</u>	

Division:

		Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %
8640 Shared Location									
3031	Misc Intangible Plant	1,089	249	0.00%	0.00	840.31	9.50	88.45	8.12%
3033	Misc Intangible Plant	157,620	154,679	0.00%	0.00	2,940.96	2.50 Fully Accrue 2023	Retain Rate	
3034	Misc Intangible Plant	13,839	6,953	0.00%	0.00	6,886.09	3.50	1,967.45	14.22%
3035	Misc Intangible Plant	49,559	29,575	0.00%	0.00	19,983.81	4.50	4,440.85	8.96%
3036	Misc Intangible Plant	7,951	1,802	0.00%	0.00	6,148.85	5.50	1,117.97	14.06%
3037	Misc Intangible Plant	56,763	9,807	0.00%	0.00	46,956.50	6.50	7,224.08	12.73%
3910	General - Office Furniture & Equipment	2,986	199	0.00%	0.00	2,787.16	18.50	150.66	5.05%
3920	General - Transportation Equipment	26,560	18,976	6.00%	1,593.58	5,989.66	7.56	792.41	2.98%
		<u>316,366</u>	<u>222,239</u>		<u>1,594</u>	<u>92,533</u>		<u>15,782</u>	

Division:

		Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %
8641 Midland County									
3100	Supply - Land	2,106					0.00	0.00	0.00%
3110	Supply - Structures and Improvements	2,311	1,436	0.00%	0.00	875.20	26.01	33.65	1.46%
3140	Supply - Wells and Springs	12,072	7,484	-15.00%	(1,810.80)	6,398.79	66.69	95.95	0.79%
3251	Pumping - Submersible Electric Pumping Equipment	13,689	6,919	0.00%	0.00	6,769.48	7.20	940.65	6.87%
3252	Pumping - High Service or Booster Pumps	50,113	17,621	0.00%	0.00	32,491.79	6.86	4,739.77	9.46%
3320	Water Treatment - Equipment	17,631	864	0.00%	0.00	16,766.83	9.11	1,840.09	10.44%
3420	T & D - Distribution Reservoirs and Standpipes	7,075	5,345	-5.00%	(353.75)	2,083.85	55.96	37.24	0.53%
3430	T & D - Transmission and Distribution Mains	65,948	30,626	-5.00%	(3,297.41)	38,619.27	4.99	7,740.83	11.74%
3450	T & D - Services	1,313	663	-5.00%	(65.64)	715.67	28.89	24.77	1.89%
3461	T & D - Meters	33,135	10,562	-7.50%	(2,485.15)	25,058.64	5.53	4,529.44	13.67%
3470	Meter & Meter Install	6,560	4,916	-7.50%	(492.00)	2,136.40	26.01	82.14	1.25%
3920	General - Transportation Equipment	3,335	3,335	6.00%	200.10	(200.10)	6.65	0.00	0.00%
3960	General - Power-Operated Equipment	3,111	2,605	6.00%	186.66	318.86	6.22	51.24	1.65%

LIBERTY MISSOURI WATER  
COMPUTATION OF WATER DEPRECIATION RATES  
AT DECEMBER 31, 2022

	Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %
3970 General - Communication Equipment	3,087	2,379	0.00%	0.00	708.47	5.50	128.81	4.17%
	<u>221,486</u>	<u>94,755</u>		<u>(8,117.98)</u>	<u>132,743.14</u>		<u>20,244.59</u>	

Division: 8642 Bilyeu

3100 Supply - Land	1,000							
3110 Supply - Structures and Improvements	5,141	3,984	0.00%	0.00	1,156.71	26.01	44.48	0.87%
3140 Supply - Wells and Springs	15,884	7,152	-15.00%	(2,382.57)	11,114.26	66.98	165.93	1.04%
3251 Pumping - Submersible Electric Pumping Equipment	11,046	14,818	0.00%	0.00	(3,772.24)	6.86	0.00	0.00%
3252 Pumping - High Service or Booster Pumps	25,563	9,917	0.00%	0.00	15,645.73	7.38	2,119.32	8.29%
3320 Water Treatment - Equipment	19,492	928	0.00%	0.00	18,564.08	9.13	2,033.82	10.43%
3420 T & D - Distribution Reservoirs and Standpipes	12,891	8,881	-5.00%	(644.55)	4,654.37	55.96	83.17	0.65%
3430 T & D - Transmission and Distribution Mains	61,278	36,226	-5.00%	(3,063.88)	28,115.97	65.96	426.28	0.70%
3450 T & D - Services	640	44	-5.00%	(32.02)	628.52	28.16	22.32	3.48%
3461 T & D - Meters	14,429	10,830	-7.50%	(1,082.17)	4,681.01	3.65	1,281.87	8.88%
3480 T & D - Hydrants	9,375	5,388	-5.00%	(468.75)	4,456.25	45.97	96.94	1.03%
3920 General - Transportation Equipment	0	2,189						
	<u>176,738</u>	<u>100,356</u>		<u>(7,674)</u>	<u>85,245</u>		<u>6,274</u>	

Division: 8643 Moore Bend

3100 Supply - Land	21,512					0.00	0.00	0.00%
3140 Supply - Wells and Springs	41,908	1,711	-15.00%	(6,286.19)	46,482.91	66.69	697.03	1.66%
3210 Pumping - Structures & Improvements	8,987	8,987	0.00%	0.00	0.00	26.01	0.00	0.00%
3252 Pumping - High Service or Booster Pumps	9,610	12,570	0.00%	0.00	(2,959.64)	6.86	0.00	0.00%
3320 Water Treatment - Equipment	5,208	2,449	0.00%	0.00	2,758.76	5.58	494.15	9.49%
3420 T & D - Distribution Reservoirs and Standpipes	5,430	4,449	-5.00%	(271.50)	1,252.50	55.96	22.38	0.41%
3430 T & D - Transmission and Distribution Mains	101,524	2,657	-5.00%	(5,076.21)	103,942.98	68.26	1,522.85	1.50%
3450 T & D - Services	18,460	118	-5.00%	(923.00)	19,265.04	29.63	650.20	3.52%
3460 T & D - Meters	10,908	1,321	-5.00%	(545.39)	10,132.69	7.35	1,379.48	12.65%
3461 T & D - Meters	72,324	6,760	-7.50%	(5,424.28)	70,987.99	5.68	12,499.03	17.28%
3470 T & D - Meter Installations	5,968	5,589	-7.50%	(447.60)	827.00	26.01	31.80	0.53%
3920 General - Transportation Equipment	3,120	3,120	6.00%	187.18	(187.18)	6.65	0.00	0.00%
	<u>304,959</u>	<u>49,731</u>		<u>(18,786.99)</u>	<u>252,503.05</u>		<u>17,296.93</u>	

Division: 8644 Riverfork County

3010 Intangible - Organization	3,466					0.00		
3100 Supply - Land	3,940					0.00		
3110 Supply - Structures and Improvements	193,910	12,940	0.00%	0.00	180,969.33	29.39	6,158.31	3.18%
3140 Supply - Wells and Springs	23,509	10,518	-15.00%	(3,526.37)	16,517.32	67.66	244.11	1.04%
3250 Pumping - Electric Pumping Equipment	81,967	43,012	0.00%	0.00	38,955.45	8.40	4,636.10	5.66%
3320 Water Treatment - Equipment	20,858	1,733	0.00%	0.00	19,125.56	8.86	2,157.54	10.34%
3420 T & D - Distribution Reservoirs and Standpipes	97,054	44,741	-5.00%	(4,852.69)	57,165.34	57.59	992.57	1.02%
3430 T & D - Transmission and Distribution Mains	113,842	63,240	-5.00%	(5,692.12)	56,294.86	66.17	850.79	0.75%
3450 T & D - Services	7,172	147	-5.00%	(358.58)	7,383.73	24.30	303.82	4.24%
3461 Meter & Meter Install	72,324	74,290	-7.50%	(5,424.28)	3,457.79	6.87	502.95	0.70%
3480 T & D - Hydrants	31,826	530	-5.00%	(1,591.28)	32,886.49	49.55	663.74	2.09%
3920 General - Transportation Equipment	5,166	5,166	6.00%	309.94	(309.94)	6.65	0.00	0.00%
3970 General - Communication Equipment	2,998	2,310	0.00%	0.00	688.02	5.50	125.09	4.17%
	<u>658,031</u>	<u>258,627</u>		<u>(21,135.39)</u>	<u>413,133.96</u>		<u>16,635.01</u>	

Division: 8645 Taney County

3010 Intangible - Organization	2,098							
3100 Supply - Land	9,703							
3140 Supply - Wells and Springs	261,745	5,235	-15.00%	(39,261.80)	295,772.24	68.70	4,305.23	1.64%
3160 Supply - Mains	55,436	2,522	-5.00%	(2,771.79)	55,686.08	65.96	844.29	1.52%
3210 Pumping - Structures & Improvements	5,069	3,145	0.00%	0.00	1,924.43	26.01	73.99	1.46%
3251 Pumping - Submersible Electric Pumping Equipment	38,065	43,420	0.00%	0.00	(5,355.26)	7.02	0.00	0.00%
3252 Pumping - High Service or Booster Pumps	25,318	7,359	0.00%	0.00	17,959.56	7.67	2,342.07	9.25%

LIBERTY MISSOURI WATER  
COMPUTATION OF WATER DEPRECIATION RATES  
AT DECEMBER 31, 2022

	Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %	
3320	Water Treatment - Equipment	117,378	6,003	0.00%	0.00	111,374.86	8.38	13,296.45	11.33%
3420	T & D - Distribution Reservoirs and Standpipes	52,225	42,116	-5.00%	(2,611.25)	12,720.14	55.96	227.30	0.44%
3430	T & D - Transmission and Distribution Mains	473,477	75,948	-5.00%	(23,673.87)	421,203.40	67.89	6,204.64	1.31%
3450	T & D - Services	198,005	3,533	-5.00%	(9,900.27)	204,372.64	28.90	7,071.13	3.57%
3460	T & D - Meters	124,835	22,935	-7.50%	(9,362.63)	111,262.31	7.50	14,833.77	11.88%
3461	T & D - Meters	266,690	19,500	-7.50%	(20,001.74)	267,191.53	6.35	42,060.08	15.77%
3470	Meter & Meter Install	43,716	27,160	-7.50%	(3,278.71)	19,835.23	26.01	762.66	1.74%
3910	General - Office Furniture & Equipment	258	148	0.00%	0.00	109.73	15.50	7.08	2.74%
3911	General - Office Computer and Electronic Equipment	12,231	12,249	0.00%	0.00	(17.46)	3.00	0.00	0.00% A
3920	General - Transportation Equipment	16,428	16,428	6.00%	985.70	(985.70)	6.65	0.00	0.00%
3970	General - Communication Equipment	12,152	7,594	0.00%	0.00	4,557.73	5.50	828.68	6.82%
		1,714,830	295,294		(109,876.36)	1,517,611.46		92,857.35	

Division: 8646 Valley Woods

3010	Intangible - Organization	5,086					0.00	0.00	0.00%
3100	Supply - Land	250					0.00	0.00	0.00%
3140	Supply - Wells and Springs	52,923	9,068	-15.00%	(7,938.46)	51,793.49	69.15	749.04	1.42%
3210	Pumping - Structures & Improvements	8,950	5,395	0.00%	0.00	3,555.24	26.01	136.70	1.53%
3251	Pumping - Submersible Electric Pumping Equipment	10,449	10,449	0.00%	0.00	0.00	6.86	0.00	0.00%
3252	Pumping - High Service or Booster Pumps	20,059	(10,354)	0.00%	0.00	30,412.50	9.18	3,312.19	16.51%
3320	Water Treatment - Equipment	18,557	947	0.00%	0.00	17,610.04	9.26	1,902.08	10.25%
3420	T & D - Distribution Reservoirs and Standpipes	6,519	4,481	-5.00%	(325.95)	2,363.52	55.96	42.23	0.65%
3430	T & D - Transmission and Distribution Mains	40,417	18,225	-5.00%	(2,020.85)	24,213.09	65.96	367.11	0.91%
3450	T & D - Services	8,941	2,890	-5.00%	(447.07)	6,498.22	27.11	239.68	2.68%
3461	T & D - Meters	2,488	2,488	-7.50%	(186.58)	186.58	3.65	51.09	2.05%
3470	Meter & Meter Install	9,826	5,083	-7.50%	(736.95)	5,479.75	35.98	152.28	1.55%
3480	T & D - Hydrants	300	175	-5.00%	(15.00)	140.25	45.97	3.05	1.02%
3920	General - Transportation Equipment	719	719	6.00%	43.14	(43.14)	6.65	0.00	0.00%
3950	General - Laboratory Equipment	466	296	0.00%	0.00	170.44	3.00	56.81	12.19% A
3960	General - Power-Operated Equipment	1,750	1,231	6.00%	105.00	413.88	6.22	66.51	3.80%
		187,700	51,093		(11,522.72)	142,793.86		7,078.78	

Division: 8647 Franklin County

3010	Intangible - Organization	125,624	11,168						
3110	Supply - Structures and Improvements	3,718	3,824	0.00%	0.00	(106.00)	3.00	0.00	0.00% A
3140	Supply - Wells and Springs	16,674	17,074	-15.00%	(2,501.10)	2,101.10	36.12	58.16	0.35%
3160	Supply Mains	30,696	1,228	-5.00%	(1,534.78)	31,002.58	66.70	464.81	1.51%
3251	Pumping - Submersible Electric Pumping Equipment	45,158	45,351	0.00%	0.00	(193.00)	0.00	0.00	0.00% A
3320	Water Treatment - Equipment	12,148	705	0.00%	0.00	11,443.62	7.51	1,523.28	12.54%
3400	T&D Land & Land Rights	2,500	2,500						
3420	T & D - Distribution Reservoirs and Standpipes	38,497	39,605	-5.00%	(1,924.85)	816.85	56.85	14.37	0.04%
3430	T & D - Transmission and Distribution Mains	141,379	51,919	-5.00%	(7,068.97)	96,528.81	55.64	1,735.00	1.23%
3450	T & D - Services	19,956	20,731	-5.00%	(997.80)	223.04	6.54	34.13	0.17%
3460	T & D - Meters	170,256	53,466	-7.50%	(12,769.22)	129,559.19	5.51	23,528.07	13.82%
3470	T & D - Meter Installations	8,404	8,440	-7.50%	(630.30)	594.30	1.42	419.16	4.99%
3480	T & D - Hydrants	10,728	215	-5.00%	(536.41)	11,049.98	49.55	223.02	2.08%
3970	General - Communication Equipment	339	339	0.00%	0.00	0.00	6.50	0.00	0.00%
		626,077	256,564		(27,963.42)	283,020.46		28,000.00	

Division: 8649 Empire Water

3100	Src of Sup - Land/Land Rights	63,747							
3110	Supply - Structures and Improvements	477,513	250,470	0.00%	0.00	227,043.03	11.22	20,237.84	4.24%
3140	Supply - Wells and Springs	265,598	131,029	-15.00%	(39,839.73)	174,409.25	47.68	3,658.20	1.38%
3251	Pumping - Submersible Electric Pumping Equipment	781,921	705,811	0.00%	0.00	76,110.29	3.72	20,477.63	2.62%
3320	Water Treatment - Equipment	138,778	(21,753)	0.00%	0.00	160,531.44	8.83	18,180.86	13.10%
3400	T&D - Land & Land Rights	1,732	0		0.00	1,732.12			
3420	T & D - Distribution Reservoirs and Standpipes	349,214	315,688	-5.00%	(17,460.72)	50,987.28	27.27	1,869.70	0.54%
3430	T & D - Transmission and Distribution Mains	6,765,049	2,567,675	-5.00%	(338,252.45)	4,535,626.80	51.69	87,748.51	1.30%

LIBERTY MISSOURI WATER  
COMPUTATION OF WATER DEPRECIATION RATES  
AT DECEMBER 31, 2022

		Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %
3450	T & D - Services	5,842,232	1,852,415	-5.00%	(292,111.61)	4,281,928.76	19.70	217,362.97	3.72%
3460	T & D - Meters	2,562,143	(3,195)	-7.50%	(192,160.75)	2,757,499.20	5.36	514,126.11	20.07%
3480	T & D - Hydrants	539,339	233,918	-5.00%	(26,966.94)	332,387.24	31.82	10,444.44	1.94%
3910	General - Office Furniture & Equipment	567	567	0.00%	0.00	0.00	3.00	0.00	0.00%
3911	General - Office Computer and Electronic Equipment	8,024	8,024	0.00%	0.00	0.00	3.00	0.00	0.00%
3920	General - Transportation Equipment	405,943	116,039	6.00%	24,356.59	265,547.89	7.92	33,513.81	8.26%
3930	GEN - Stores Equip	7,146	4,476	0.00%	0.00	2,670.16	8.62	309.77	4.33%
3940	General - Tools, Shop And Garage Equip	82,356	76,784	0.00%	0.00	5,571.36	3.00	1,857.12	2.26% A
3950	General - Laboratory Equipment	3,677	2,442	0.00%	0.00	1,235.14	3.00	411.71	11.20% A
3980	General - Miscellaneous Equipment	116,016	58,185	0.00%	0.00	57,830.77	4.89	11,815.26	10.18%
		18,410,995	6,298,574		(882,435.60)	12,931,110.72		942,013.93	

Division: 8650 Lakeland Heights

3110	Supply - Structures and Improvements	230	46	0.00%	0.00	183.17	27.76	6.60	2.87%
3140	Supply - Wells and Springs	21,414	19,089	-15.00%	(3,212.16)	5,537.94	68.53	0.00	0.00%
3210	Pumping - Structures & Improvements	331	569	0.00%	0.00	(237.68)	27.76	0.00	0.00%
3251	Pumping - Submersible Electric Pumping Equipment	14,128	18,819	0.00%	0.00	(4,691.16)	8.21	0.00	0.00%
3320	Water Treatment - Equipment	23,230	827	0.00%	0.00	22,402.31	8.42	2,659.71	11.45%
3410	T&D Structures and Improvements	11,103	1,776	0.00%	0.00	9,326.54	27.76	335.98	3.03%
3420	T & D - Distribution Reservoirs and Standpipes	19,185	26,367	-5.00%	(959.26)	(6,222.88)	57.75	0.00	0.00%
3430	T & D - Transmission and Distribution Mains	4,988	1,035	-5.00%	(249.39)	4,202.50	69.29	0.00	0.00%
3450	T & D - Services	26,597	2,623	-5.00%	(1,329.84)	25,303.83	29.36	861.90	3.24%
3460	T & D - Meters	140,658	43,095	-7.50%	(10,549.33)	108,112.40	6.68	16,177.41	11.50%
3890	General - Land	552	783						0.00%
3900	General - Structures and Improvements	5,219	2,949	0.00%	0.00	2,269.95	27.76	81.77	1.57%
3940	General - Tools, Shop And Garage Equip	1,290	863	0.00%	0.00	427.37	7.50	56.98	4.42%
3970	General - Communication Equipment	79	74	0.00%	0.00	5.20	7.50	0.69	0.87%
		269,003	118,915		(16,299.98)	166,619.49		20,181.05	

Division: 8652 Whispering Hills

3110	Supply - Structures and Improvements	89	17	0.00%	0.00	71.72	27.76	2.58	2.91%
3140	Supply - Wells and Springs	11,075	914	-15.00%	(1,661.27)	11,822.35	68.83	171.76	1.55%
3210	Pumping - Structures & Improvements	2,061	2,670	0.00%	0.00	(608.30)	27.76	0.00	0.00%
3251	Pumping - Submersible Electric Pumping Equipment	4,105	4,479	0.00%	0.00	(373.82)	8.21	0.00	0.00%
3320	Water Treatment - Equipment	25,870	2,257	0.00%	0.00	23,612.80	9.15	2,580.00	9.97%
3420	T & D - Distribution Reservoirs and Standpipes	21,360	1,929	-5.00%	(1,068.01)	20,499.09	57.75	354.99	1.66%
3430	T & D - Transmission and Distribution Mains	10,320	2,311	-5.00%	(516.01)	8,524.93	68.71	124.08	1.20%
3450	T & D - Services	2,992	1,392	-5.00%	(149.61)	1,750.28	28.69	61.02	2.04%
3460	T & D - Meters	43,290	21,800	-7.50%	(3,246.72)	24,736.44	6.76	0.00	0.00%
3900	General - Structures and Improvements	3,173	1,341	0.00%	0.00	1,831.84	27.76	65.99	2.08%
3940	General - Tools, Shop And Garage Equip	1,952	3,375	0.00%	0.00	(1,422.90)	7.50	0.00	0.00%
3970	General - Communication Equipment	23	23	0.00%	0.00	0.00	7.50	0.00	0.00%
		126,311	42,508		(6,641.61)	90,444.42		3,360.42	

Division: 8653 Oakbrier

3035	Intangible Plant	520	243	0.00%	0.00	277.53	2.50	111.01	21.33%
3110	Supply - Structures and Improvements	1,957	885	0.00%	0.00	1,072.57	27.76	38.64	1.97%
3140	Supply - Wells and Springs	9,897	5,946	-15.00%	(1,484.51)	5,435.37	68.15	79.75	0.81%
3160	Supply - Mains	1,488	1,576	-5.00%	(74.41)	(13.22)	67.74	0.00	0.00%
3210	Pumping - Structures & Improvements	86	29	0.00%	0.00	56.36	27.76	2.03	2.37%
3251	Pumping - Submersible Electric Pumping Equipment	8,467	10,167	0.00%	0.00	(1,699.64)	8.21	0.00	0.00%
3320	Water Treatment - Equipment	16,403	950	0.00%	0.00	15,453.05	9.37	1,649.42	10.06%
3420	T & D - Distribution Reservoirs and Standpipes	895	191	-5.00%	(44.76)	748.75	57.75	12.97	1.45%
3430	T & D - Transmission and Distribution Mains	26,541	21,321	-5.00%	(1,327.05)	6,546.98	68.93	0.00	0.00%
3460	T & D - Meters	109,118	10,893	-7.50%	(8,183.82)	106,408.30	6.69	15,910.38	14.58%
3900	General - Structures and Improvements	4,404	1,885	0.00%	0.00	2,518.41	7.50	335.79	7.63%
3940	General - Tools, Shop And Garage Equip	1,346	799	0.00%	0.00	546.77	7.50	72.90	5.42%
3950	General - Laboratory Equipment	723	557	0.00%	0.00	165.74	3.00	55.25	7.64% A



LIBERTY MISSOURI WATER  
COMPUTATION OF WATER DEPRECIATION RATES  
AT DECEMBER 31, 2022

	Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %
3970 General - Communication Equipment	31	31	0.00%	0.00	0.00	7.50	0.00	0.00%
3980 General - Misc Equipment	137	1,828	0.00%	0.00	(1,690.83)	7.50	0.00	0.00%
	182,012	57,301		(11,114.54)	135,826.13		18,268.14	
Division:								
8656 Bolivar Water Company								
3140 Supply - Wells and Springs	1,114,285	205,339	-5.00%	(55,714.25)	964,660.61	63.19	15,266.83	1.37%
3251 Pumping - Submersible Electric Pumping Equipment	109,186	109,186	0.00%	0.00	0.00	2.13	0.00	0.00% A
3320 Water Treatment - Equipment	389,595	111,985	0.00%	0.00	277,610.40	3.13	88,666.94	22.76%
3420 T & D - Distribution Reservoirs and Standpipes	1,926,957	1,028,755	-5.00%	(96,347.83)	994,549.80	41.68	23,861.06	1.24%
3430 T & D - Transmission and Distribution Mains	395,954	332,143	-5.00%	(19,797.72)	83,608.97	36.19	2,310.35	0.58%
3450 T & D - Services	4,763,886	2,165,639	-5.00%	(238,194.31)	2,836,441.35	18.34	154,639.78	3.25%
3460 T & D - Meters	732,663	328,730	-7.50%	(54,949.73)	458,883.07	4.26	107,727.00	14.70%
3470 T & D - Meter Installations	3,663	2,694	-7.50%	(274.73)	1,243.87	8.54	145.58	3.97%
3480 T & D - Hydrants	63,526	36,594	-5.00%	(3,176.29)	30,107.77	26.38	1,141.11	1.80%
3890 General - Land	66,116	0		0.00	66,115.50			
3900 General - Struct & Improvements	23,439	12,902	0.00%	0.00	10,537.36	12.69	830.50	3.54%
3911 General - Office Computer and Electronic Equipment	59,740	7,119	0.00%	0.00	52,621.40	4.50	11,693.64	19.57%
3920 General - Transportation Equipment	529,242	451,758	6.00%	31,754.50	45,729.28	3.71	12,320.55	2.33% A
3930 GEN - Stores Equip	12,656	10,842	0.00%	0.00	1,813.95	3.00	604.65	4.78% A
3940 General - Tools, Shop And Garage Equip	4,394	107	0.00%	0.00	4,287.35	9.50	451.30	10.27%
3960 General - Power-Operated Equipment	375,008	316,329	6.00%	22,500.47	36,178.01	3.00	12,059.34	3.22% A
3970 General - Communication Equipment	161,929	137,713	0.00%	0.00	24,215.50	3.00	8,071.83	4.98% A
	10,732,239	5,257,835		(414,200)	5,888,604		439,790	

Note : A = Used 3 yr remaining Life since RL is < 3 years

LIBERTY MISSOURI WATER  
COMPUTATION OF SEWER DEPRECIATION RATES  
AT DECEMBER 31, 2022

	Plant Balance	Depreciation Reserve	Net Salvage %	Future Net Salvage	Unrecovered Balance	Remaining Life	Annual Accrual \$	Annual Accrual %	
Division: 8120 Timber Creek									
3510	Collection - Structures and Improvements	276,586	57,665	0.00%	0.00	218,921.55	17.67	12,390.89	4.48%
3521	Collection - Sewers Forced	206,322	64,304	-5.00%	(10,316.10)	152,334.41	69.55	2,190.37	1.06%
3522	Collection - Sewers Gravity	67,356	21,187	-5.00%	(3,367.82)	49,537.44	60.44	819.63	1.22%
3610	Pumping - Structures and Improvements	106,386	98,533	0.00%	0.00	7,852.67	18.14	432.85	0.41%
3630	Electric Pumping	14,144	1,061	-5.00%	(707.22)	13,790.85	19.55	705.48	4.99%
3710	T&D Structures & Improvements	15,119	1,578	0.00%	0.00	13,540.29	25.35	534.15	3.53%
3720	Treatment & Disposal - Equipment	414,018	351,846	-20.00%	(82,803.58)	144,975.38	17.54	8,264.64	2.00%
3730	Treatment & Disposal - Plant Sewers	23,784	10,432	0.00%	0.00	13,351.97	21.28	627.59	2.64%
3740	Treatment & Disposal - Outfall Sewer Lines	4,324	399	-20.00%	(864.71)	4,789.61	69.55	68.87	1.59%
3910	General - Office Furniture & Equipment	556	56	0.00%	0.00	500.21	9.60	52.09	9.37%
3930	General - Stores Equipment	930	408	0.00%	0.00	522.22	15.50	33.69	3.62%
3940	General - Tools, Shop And Garage Equip	620	62	0.00%	0.00	558.37	3.00	186.12	30.00% A
		1,130,146	607,530		(98,059.43)	620,674.97		26,306.37	
Division: 8122 Ozark Mountain									
3510	Collection - Structures and Improvements	14,457	22,127	0.00%	0.00	(7,669.75)	17.67	(434.11)	-3.00%
3521	Collection - Sewers Forced	59,937	20,683	-5.00%	(2,996.85)	42,250.79	55.79	757.28	1.26%
3522	Collection - Sewers Gravity	204,673	93,508	-5.00%	(10,233.64)	121,398.19	55.71	2,178.94	1.06%
3530	Collection - Services	107,081	4,618	-5.00%	(5,354.05)	107,817.49	36.87	2,924.63	2.73%
3540	Collection - Flow Measuring Devices	5,845	776	0.00%	0.00	5,069.76	17.70	286.35	4.90%
3610	Pumping - Structures and Improvements	190,652	224,367	0.00%	0.00	(33,715.92)	17.71	0.00	0.00%
3620	Pumping - Receiving Wells	10,661	8,973	0.00%	0.00	1,687.98	21.03	80.28	0.75%
3710	T&D Structures & Improvements	68,659	7,522	0.00%	0.00	61,136.59	27.83	2,196.54	3.20%
3720	Treatment & Disposal - Equipment	272,182	425	-20.00%	(54,436.32)	326,192.79	24.42	13,356.56	4.91%
3730	Treatment & Disposal - Plant Sewers	4,018	435	0.00%	0.00	3,582.43	26.01	137.74	3.43%
3740	Treatment & Disposal - Outfall Sewer Lines	3,892	3,675	-20.00%	(778.40)	995.58	56.41	17.65	0.45%
3900	General - Struct & Improvements	8,064	622	-5.00%	(403.20)	7,845.55	26.88	291.88	3.62%
3910	General - Office Furniture & Equipment	2,601	2,601	0.00%	0.00	0.00	9.59	0.00	0.00%
3940	General - Tools, Shop And Garage Equip	791	79	0.00%	0.00	711.95	3.00	237.32	30.00% A
3990	General - Other Tangible Plant	2,321	232	0.00%	0.00	2,089.35	5.50	379.88	16.36%
		955,834	390,643		(74,202.47)	639,392.79		22,410.95	
Division: 8152 KMB									
3010	Intangible - Organization	3,000	0	0.00%	0.00	3,000.00	0.00	0.00	0.00%
3500	Collection - Land & Land Rights	8,800	0	0.00%	0.00	8,800.00	0.00	0.00	0.00%
3510	Collection - Structures and Improvements	4,701	8,471	0.00%	0.00	0.00	16.13	0.00	0.00%
3521	Collection - Sewers Forced	7,341	0	-5.00%	(367.06)	7,707.79	69.55	110.83	1.51%
3522	Collection - Sewers Gravity	188,214	5,372	-5.00%	(9,410.70)	192,253.00	67.42	2,851.62	1.52%
3540	Collection - Flow Measuring Devices	13,136	867	0.00%	0.00	12,269.22	23.46	523.08	3.98%
3610	Pumping - Structures and Improvements	414,986	31,493	0.00%	0.00	383,493.60	22.71	16,883.86	4.07%
3701	Treatment & Disposal - Oxidation Lagoon Lai	105,032	65,179	0.00%	0.00	39,853.02	16.36	2,435.72	2.32%
3710	T&D Structures & Improvements	131,300	7,581	0.00%	0.00	123,719.12	28.44	4,350.39	3.31%
3720	Treatment & Disposal - Equipment	435,632	31,256	-20.00%	(87,126.45)	491,502.32	29.05	16,916.40	3.88%
3740	Treatment & Disposal - Outfall Sewer Lines	16,133	242	-5.00%	(806.63)	16,697.20	69.55	240.08	1.49%
3910	General - Office Furniture & Equipment	18,077	6,031	0.00%	0.00	12,045.88	9.50	1,267.71	7.01%
3911	General - Office Computer and Electronic Eq	1,585	453	0.00%	0.00	1,131.68	3.00	377.23	23.80% A
3940	General - Tools, Shop And Garage Equip	2,445	244	0.00%	0.00	2,200.10	3.00	733.37	30.00% A
		1,350,382	157,190		(97,710.83)	1,294,672.92		46,690.28	

**LIBERTY MISSOURI WATER  
COMPUTATION OF SEWER DEPRECIATION RATES  
AT DECEMBER 31, 2022**

	<b>Plant Balance</b>	<b>Depreciation Reserve</b>	<b>Net Salvage %</b>	<b>Future Net Salvage</b>	<b>Unrecovered Balance</b>	<b>Remaining Life</b>	<b>Annual Accrual \$</b>	<b>Annual Accrual %</b>	
Division:		8646 Valley Woods							
3500	Collection - Land & Land Rights	350		0	0.00	350.00	0.00		
3510	Collection - Structures and Improvements	2,446	1,070	0.00%	0.00	1,375.88	24.55	56.05 2.29%	
3522	Collection - Sewers Gravity	60,582	21,336	-5.00%	(3,029.10)	42,275.16	65.96	640.96 1.06%	
3530	Collection - Services	55,985	20,048	-5.00%	(2,799.25)	38,736.26	35.98	1,076.46 1.92%	
3630	Electric Pumping	22,429	5,623	-20.00%	(4,485.72)	21,291.46	36.87	577.55 2.58%	
3720	Treatment & Disposal - Equipment	53,594	75,054	-20.00%	(10,718.73)	(10,741.64)	27.18	0.00 0.00%	
3730	Treatment & Disposal - Plant Sewers	75,054	713	0.00%	0.00	74,341.01	27.76	2,678.03 3.57%	
3920	General - Transportation Equipment	719	1,231	6.00%	43.14	(555.31)	6.65		
3960	General - Power-Operated Equipment	1,750	5,794	6.00%	105.00	(4,149.06)	6.22		
		<b>272,908</b>	<b>130,869</b>		<b>(20,884.66)</b>	<b>162,923.76</b>		<b>5,029.05</b>	
Division:		8648 Savers Farm							
3010	Intangible Plant – Organization	19,599		0	0.00	19,598.94	0.00		
3510	Collection - Structures and Improvements	101,175	19,539	0.00%	0.00	81,635.89	19.89	4,105.32 4.06%	
3521	Collection - Sewers Forced	6,077	1,143	-5.00%	(303.86)	5,237.79	66.05	79.31 1.30%	
3522	Collection - Sewers Gravity	51,426	9,674	-5.00%	(2,571.31)	44,323.36	65.36	678.14 1.32%	
3530	Collection - Services	16,801	3,160	-5.00%	(840.03)	14,480.15	35.31	410.14 2.44%	
3540	Collection - Flow Measuring Devices	17,914	3,991	0.00%	0.00	13,923.06	27.76	501.56 2.80%	
3610	Pumping - Structures and Improvements	3,065	740	0.00%	0.00	2,325.29	21.50	108.16 3.53%	
3620	Pumping – Receiving Wells	24,635	5,948	-20.00%	(4,927.05)	23,614.10	14.41	1,639.30 6.65%	
3710	T&D - Structures and Improvements	78,192	6,589	0.00%	0.00	71,602.98	28.37	2,524.00 3.23%	
3720	Treatment & Disposal - Equipment	32,343	1,916	-20.00%	(6,468.57)	36,895.04	28.65	1,287.82 3.98%	
		<b>351,227</b>	<b>52,701</b>		<b>(15,111)</b>	<b>276,741.56</b>		<b>10,045.92</b>	
Division:		8651 R D Sewer							
3020	Intangible-franchise and Consents	874	518	0	0.00	355.79	0.00		
3035	Intangible-Miscellaneous Intangible plant	65	30	0	0.00	34.72	2.50	13.89 21.33%	
3500	Collection - Land & Land Rights	5,849	3,467						
3510	Collection - Structures and Improvements	10,470	1,622	0.00%	0.00	8,848.29	22.77	388.68 3.71%	
3521	Collection - Sewers Forced	133,977	47,738	-5.00%	(6,698.85)	92,937.69	67.91	1,368.64 1.02%	
3530	Collection - Services	17,548	12,972	-5.00%	(877.42)	5,453.33	37.75	144.45 0.82%	
3540	Collection - Flow Measuring Devices	1,537	342	0.00%	0.00	1,195.66	27.76	43.07 2.80%	
3630	Electric Pumping	58,611	16	-20.00%	(11,722.16)	70,316.68	18	3,956.23 6.75%	
3650	Pumping - Other Pumping Equipment	23,476	11,310	0.00%	0.00	12,166.63	27.76	438.29 1.87%	
3720	Treatment & Disposal - Equipment	74,281	34,673	-20.00%	(14,856.21)	54,464.53	28.47	1,913.06 2.58%	
3730	Treatment & Disposal - Plant Sewers	35,039	2,021	0.00%	0.00	33,018.24	28.50	1,158.64 3.31%	
3900	General - Struct & Improvements	532	104	-5.00%	(26.58)	454.04	27.76	16.36 3.08%	
3940	General - Tools, Shop And Garage Equip	763	451	0.00%	0.00	311.79	8.50	36.68 4.81%	
3950	General - Laboratory Equipment	1,093	672	0.00%	0.00	421.57	3.50	120.45 11.02%	
3960	General - Power-Operated Equipment	175	139	6.00%	10.47	25.55	7.82	3.27 1.87%	
3970	General - Communication Equipment	161	99	0.00%	0.00	61.92	7.50	8.26 5.13%	
3990	General - Other Tangible Plant	1,751	1,751	0.00%	0.00	0.00	7.50	0.00 0.00%	
		<b>366,202</b>	<b>117,924</b>		<b>(34,170.74)</b>	<b>280,066.42</b>		<b>9,609.94</b>	
Division:		8656 Bolivar Water Company							
3500	Collection - Land & Land Rights	66,116				66,115.50		0.00	
3510	Collection - Structures and Improvements	111,379	108,852	0.00%	0.00	2,526.84	3.71	682.00 0.61%	
3521	Collection - Sewers Forced	50,828	260	-5.00%	(2,541.39)	53,109.41	69.55	763.64 1.50%	

**LIBERTY MISSOURI WATER  
COMPUTATION OF SEWER DEPRECIATION RATES  
AT DECEMBER 31, 2022**

	<b>Plant Balance</b>	<b>Depreciation Reserve</b>	<b>Net Salvage %</b>	<b>Future Net Salvage</b>	<b>Unrecovered Balance</b>	<b>Remaining Life</b>	<b>Annual Accrual \$</b>	<b>Annual Accrual %</b>	
3522	Collection - Sewers Gravity	1,594,598	1,594,598	-5.00%	(79,729.90)	79,729.90	30.89	2,581.37	0.16%
3530	Collection - Services	3,337,213	908,702	-5.00%	(166,860.67)	2,595,371.96	29.94	86,676.71	2.60%
3540	Collection - Flow Measuring Devices	28,383	14,718	0.00%	0.00	13,664.17	16.65	820.56	2.89%
3620	Pumping – Receiving Wells	2,387	2,069	0.00%	0.00	318.26	8.18	38.89	1.63%
3630	Electric Pumping	86,935	86,935	-20.00%	(17,386.99)	17,386.99	8.09	2,149.43	2.47%
3710	T&D Structures & Improvements	265,138	257,815	0.00%	0.00	7,322.61	9.51	770.36	0.29%
3720	Treatment & Disposal - Equipment	9,428,373	5,710,321	-20.00%	(1,885,674.66)	5,603,727.28	18.66	300,374.59	3.19%
3740	Treatment & Disposal - Outfall Sewer Lines	75,109	31,045	-5.00%	(3,755.45)	47,819.39	51.43	929.79	1.24%
3900	General - Struct & Improvements	235,841	180,364	0.00%	0.00	55,477.49	7.86	7,057.98	2.99%
3920	General - Transportation Equipment	506,516	506,516	6.00%	30,390.93	(30,390.93)	3.00	0.00	0.00% A
3930	General - Stores Equipment	14,270	12,264	0.00%	0.00	2,005.32	3.00	668.44	4.68% A
3960	General - Power-Operated Equipment	698,217	558,231	6.00%	41,893.03	98,092.94	3.00	32,697.65	4.68% A
3970	General - Communication Equipment	154,008	123,167	0.00%	0.00	30,841.12	3.00	10,280.37	6.68% A
		<u>16,655,309</u>	<u>10,095,856</u>		<u>(2,083,665)</u>	<u>8,643,118</u>		<u>446,491.81</u>	

Note: A=Used 3 yr remaining life since RL is < 3 years

**APPENDIX B**  
**Computation of Annual Depreciation Accrual Rate**

LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 1 of 12

Table with columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows are categorized by Division: 8118 Holiday Hills, 8120 Timber Creek, and 8122 Ozark Mountain. Includes sub-totals for each division.

LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 2 of 12

Table with 8 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include categories like Supply - Mains, Pumping - High Service or Booster Pumps, Water Treatment - Equipment, etc.

Division: 8149 Noel

Table with 8 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include categories like Supply - Land, Supply - Structures and Improvements, Supply - Wells and Springs, etc.

Division: 8152 KMB

Table with 8 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include Intangible - Organization, Franchises and Consents.

LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 3 of 12

Table with columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include various plant categories like Supply - Land, Pumping - High Service or Booster Pumps, and General - Office Furniture & Equipment, with sub-sections for Division: 8640 Shared Location and Division: 8641 Midland County.



LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 4 of 12

Table with 8 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include T & D - Transmission and Distribution Mains, T & D - Services, T & D - Meters, Meter & Meter Install, General - Transportation Equipment, General - Power-Operated Equipment, General - Communication Equipment.

Division: 8642 Bilyeu

Table with 8 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include Supply - Structures and Improvements, Supply - Wells and Springs, Pumping - Submersible Electric Pumping Equipr, Pumping - High Service or Booster Pumps, Water Treatment - Equipment, T & D - Distribution Reservoirs and Standpipes, T & D - Transmission and Distribution Mains, T & D - Services, T & D - Meters, T & D - Hydrants, General - Transportation Equipment.

Division: 8643 Moore Bend

Table with 8 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include Supply - Land, Supply - Wells and Springs, Pumping - Structures & Improvements, Pumping - High Service or Booster Pumps, Water Treatment - Equipment, T & D - Distribution Reservoirs and Standpipes, T & D - Transmission and Distribution Mains, T & D - Services, T & D - Meters, T & D - Meter Installations, General - Transportation Equipment.

LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 5 of 12

Table with 7 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. It lists two divisions: 8644 Riverfork County and 8645 Taney County, with various asset categories and their depreciation rates and values.

LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 6 of 12

Table with 7 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. It lists two divisions: 8646 Valley Woods and 8647 Franklin County, with various asset categories and their depreciation rates and amounts.

**LIBERTY MISSOURI WATER**  
**COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES**  
**AT DECEMBER 31, 2022**

Appendix B  
Page 7 of 12

	Plant	Current Accrual Rate	Current Accrual \$	Proposed Accrual %	Proposed Accrual \$	Difference	
Division: 8649 Empire Water							
3100	Src of Sup - Land/Land Rights	63,746.75	0.00%	0.00	0.00%	0.00	0.00
3110	Supply - Structures and Improvements	477,513.28	2.50%	11,937.83	4.24%	20,237.84	8,300.00
3140	Supply - Wells and Springs	265,598.21	2.00%	5,311.96	1.38%	3,658.20	(1,653.76)
3251	Pumping - Submersible Electric Pumping Equipr	781,921.18	10.00%	78,192.12	2.62%	20,477.63	(57,714.48)
3320	Water Treatment - Equipment	138,778.44	2.90%	4,024.57	13.10%	18,180.86	14,156.28
3400	T&D - Land & Land Rights	1,732.12	0.00%	0.00	0.00%	0.00	0.00 (1)
3420	T & D - Distribution Reservoirs and Standpipes	349,214.34	2.50%	8,730.36	0.54%	1,869.70	(6,860.66)
3430	T & D - Transmission and Distribution Mains	6,765,048.93	2.00%	135,300.98	1.30%	87,748.51	(47,552.47)
3450	T & D - Services	5,842,232.13	2.50%	146,055.80	3.72%	217,362.97	71,307.16
3460	T & D - Meters	2,562,143.30	3.30%	84,550.73	20.07%	514,126.11	429,575.38
3480	T & D - Hydrants	539,338.75	2.00%	10,786.78	1.94%	10,444.44	(342.33)
3910	General - Office Furniture & Equipment	566.80	5.00%	28.34	0.00%	0.00	(28.34) (1)
3911	General - Office Computer and Electronic Equipr	8,023.51	20.00%	1,604.70	0.00%	0.00	(1,604.70) (1)
3920	General - Transportation Equipment	405,943.12	6.43%	26,102.14	8.26%	33,513.81	7,411.66
3930	GEN - Stores Equip	7,145.89	4.00%	285.84	4.33%	309.77	23.94
3940	General - Tools, Shop And Garage Equip	82,355.54	5.00%	4,117.78	2.26%	1,857.12	(2,260.66)
3950	General - Laboratory Equipment	3,677.29	5.00%	183.86	11.20%	411.71	227.85
3980	General - Miscellaneous Equipment	116,015.84	6.43%	7,459.82	10.18%	11,815.26	4,355.45
		18,410,995.42		524,673.61		942,013.93	417,340.32
Division: 8650 Lakeland Heights							
3110	Supply - Structures and Improvements	229.54	3.00%	6.89	2.87%	6.60	(0.29)
3140	Supply - Wells and Springs	21,414.42	2.00%	428.29	0.00%	0.00	(428.29) (1)
3210	Pumping - Structures & Improvements	331.06	3.00%	9.93	0.00%	0.00	(9.93) (1)
3251	Pumping - Submersible Electric Pumping Equipr	14,127.59	1.00%	141.28	0.00%	0.00	(141.28) (1)
3320	Water Treatment - Equipment	23,229.70	2.90%	673.66	11.45%	2,659.71	1,986.05
3410	T&D Structures and Improvements	11,102.77	1.00%	111.03	3.03%	335.98	224.95
3420	T & D - Distribution Reservoirs and Standpipes	19,185.14	1.00%	191.85	0.00%	0.00	(191.85) (1)
3430	T & D - Transmission and Distribution Mains	4,987.88	1.00%	49.88	0.00%	0.00	(49.88) (1)
3450	T & D - Services	26,596.74	2.50%	664.92	3.24%	861.90	196.98
3460	T & D - Meters	140,657.76	10.00%	14,065.78	11.50%	16,177.41	2,111.64
3890	General - Land	551.77	0.00%	0.00	0.00%	0.00	0.00 (1)
3900	General - Structures and Improvements	5,218.67	3.00%	156.56	1.57%	81.77	(74.79)
3940	General - Tools, Shop And Garage Equip	1,290.04	10.00%	129.00	4.42%	56.98	(72.02)
3970	General - Communication Equipment	79.46	20.00%	15.89	0.87%	0.69	(15.20)
		269,002.54		16,644.95		20,181.05	3,536.10

**LIBERTY MISSOURI WATER  
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES  
AT DECEMBER 31, 2022**

Appendix B  
Page 8 of 12

	Plant	Current Accrual Rate	Current Accrual \$	Proposed Accrual %	Proposed Accrual \$	Difference	
Division: 8652 Whispering Hills							
3110	Supply - Structures and Improvements	88.71	3.00%	2.66	2.91%	2.58	(0.08)
3140	Supply - Wells and Springs	11,075.10	2.00%	221.50	1.55%	171.76	(49.74)
3210	Pumping - Structures & Improvements	2,061.30	3.00%	61.84	0.00%	0.00	(61.84) (1)
3251	Pumping - Submersible Electric Pumping Equipr	4,105.03	0.00%	0.00	0.00%	0.00	0.00 (1)
3320	Water Treatment - Equipment	25,869.88	2.90%	750.23	9.97%	2,580.00	1,829.78
3420	T & D - Distribution Reservoirs and Standpipes	21,360.22	2.50%	534.01	1.66%	354.99	(179.02)
3430	T & D - Transmission and Distribution Mains	10,320.13	2.00%	206.40	1.20%	124.08	(82.33)
3450	T & D - Services	2,992.18	2.50%	74.80	2.04%	61.02	(13.79)
3460	T & D - Meters	43,289.62	10.00%	4,328.96	0.00%	0.00	(4,328.96) (1)
3900	General - Structures and Improvements	3,173.18	3.00%	95.20	2.08%	65.99	(29.21)
3940	General - Tools, Shop And Garage Equip	1,952.39	10.00%	195.24	0.00%	0.00	(195.24) (1)
3970	General - Communication Equipment	22.83	20.00%	4.57	0.00%	0.00	(4.57) (1)
		<u>126,310.57</u>		<u>6,475.40</u>		<u>3,360.42</u>	<u>(3,114.99)</u>
Division: 8653 Oakbrier							
3035	Intangible Plant	520.36	0.00%	0.00	21.33%	111.01	111.01
3110	Supply - Structures and Improvements	1,957.23	3.00%	58.72	1.97%	38.64	(20.08)
3140	Supply - Wells and Springs	9,896.71	2.00%	197.93	0.81%	79.75	(118.18)
3160	Supply - Mains	1,488.26	2.00%	29.77	0.00%	0.00	(29.77) (1)
3210	Pumping - Structures & Improvements	85.66	3.00%	2.57	2.37%	2.03	(0.54)
3251	Pumping - Submersible Electric Pumping Equipr	8,467.04	10.00%	846.70	0.00%	0.00	(846.70) (1)
3320	Water Treatment - Equipment	16,403.00	2.90%	475.69	10.06%	1,649.42	1,173.73
3420	T & D - Distribution Reservoirs and Standpipes	895.10	2.50%	22.38	1.45%	12.97	(9.41)
3430	T & D - Transmission and Distribution Mains	26,541.02	2.00%	530.82	0.00%	0.00	(530.82) (1)
3460	T & D - Meters	109,117.54	10.00%	10,911.75	14.58%	15,910.38	4,998.63
3900	General - Structures and Improvements	4,403.76	3.00%	132.11	7.63%	335.79	203.68
3940	General - Tools, Shop And Garage Equip	1,345.86	10.00%	134.59	5.42%	72.90	(61.68)
3950	General - Laboratory Equipment	722.72	10.00%	72.27	7.64%	55.25	(17.03)
3970	General - Communication Equipment	31.05	20.00%	6.21	0.00%	0.00	(6.21) (1)
3980	General - Misc Equipment	137.04	10.00%	13.70	0.00%	0.00	(13.70) (1)
	Total	<u>182,012.35</u>		<u>13,435.21</u>		<u>18,268.14</u>	<u>4,832.92</u>
Division: 8656 Bolivar Water Company							
3140	Supply - Wells and Springs	1,114,285.00	2.00%	22,285.70	1.37%	15,266.83	(7,018.87)
3251	Pumping - Submersible Electric Pumping Equipr	109,186.34	0.00%	0.00	0.00%	0.00	0.00 (1)

LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 9 of 12

Table with 8 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include various equipment categories like Water Treatment, T & D, and General equipment, ending with a Total Water summary row.

SEWER

Division: 8120 Timber Creek

Table with 8 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include Sewer collection, pumping, and treatment equipment, ending with a summary row.

LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 10 of 12

Table with 7 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Includes sub-header 'Division: 8122 Ozark Mountain' and rows for various collection and treatment assets.

Table with 7 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Includes sub-header 'Division: 8152 KMB' and rows for intangible and collection assets.

Table with 7 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Includes sub-header 'Division: 8646 Valley Woods' and one row for collection assets.

LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 11 of 12

Table with 7 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include Collection - Structures and Improvements, Sewers Gravity, Services, Electric Pumping, Treatment & Disposal - Equipment, Plant Sewers, General - Transportation Equipment, and General - Power-Operated Equipment.

Division: 8648 Savers Farm

Table with 7 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include Intangible Plant - Organization, Collection - Structures and Improvements, Sewers Forced, Sewers Gravity, Services, Flow Measuring Devices, Pumping - Structures and Improvements, Receiving Wells, T&D - Structures and Improvements, and Treatment & Disposal - Equipment.

Division: 8651 R D Sewer

Table with 7 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include Intangible-franchise and Consents, Intangible-Miscellaneous Intangible plant, Collection - Land & Land Rights, Structures and Improvements, Sewers Forced, Services, Flow Measuring Devices, Electric Pumping, Other Pumping Equipment, Treatment & Disposal - Equipment, Plant Sewers, General - Struct & Improvements, and General - Tools, Shop And Garage Equip.



LIBERTY MISSOURI WATER
COMPARISON OF EXISTING AND PROPOSED DEPRECIATION RATES
AT DECEMBER 31, 2022

Appendix B
Page 12 of 12

Table with 7 columns: Plant, Current Accrual Rate, Current Accrual \$, Proposed Accrual %, Proposed Accrual \$, Difference. Rows include equipment categories like Laboratory Equipment, Power-Operated Equipment, etc., and summary rows for Total Liberty MO Sewer and Total Liberty MO Water.

Notes: (1) Account is fully accrued. Propose whole life rate when new additions occur.
(2) Account will be fully accrued in 2023. Retain current rate until account is fully accrued.

**APPENDIX C**  
**Summary of Existing & Proposed Depreciation Parameters**

**LIBERTY MISSOURI WATER  
PROPOSED DEPRECIATION PARAMETERS  
AT DECEMBER 31, 2022**

Appendix C

Page 1 of 2

	<b>Life</b>	<b>Curve</b>	<b>Net Salvage</b>
<b>SEWER</b>			
3010 Intangible - Organization			0.00%
3020 Intangible-franchise and Consents			0.00%
3030 Intangible-Miscellaneous Intangible plant			0.00%
3500 Collection - Land & Land Rights	NA	NA	NA
3510 Collection - Structures and Improvements	25	R2	0.00%
3521 Collection - Sewers Forced	70	R2	-5.00%
3522 Collection - Sewers Gravity	70	R2	-5.00%
3530 Collection - Services	40	R2	-5.00%
3540 Collection - Flow Measuring Devices	30	R2	0.00%
3610 Pumping - Structures and Improvements	25	R2	0.00%
3620 Pumping – Receiving Wells	25	R2	-20.00%
3630 Electric Pumping	20	R2	-20.00%
3650 Pumping - Other Pumping Equipment	10	R2	0.00%
3701 Treatment & Disposal - Oxidation Lagoon Land	NA	NA	NA
3710 T&D Structures & Improvements	30	R2	0.00%
3720 Treatment & Disposal - Equipment	30	R2	-20.00%
3730 Treatment & Disposal - Plant Sewers	30	R2	-5.00%
3740 Treatment & Disposal - Outfall Sewer Lines	70	R2	-5.00%
3900 General - Struct & Improvements	30	R2	0.00%
3910 General - Office Furniture & Equipment	20	SQ	0.00%
3911 General - Office Computer and Electronic Equipmen	5	SQ	0.00%
3920 General - Transportation Equipment	11	L3	6.00%
3930 General - Stores Equipment	20	SQ	0.00%
3940 General - Tools, Shop And Garage Equip	10	SQ	0.00%
3950 General - Laboratory Equipment	5	SQ	0.00%
3960 General - Power-Operated Equipment	10	R2	6.00%
3970 General - Communication Equipment	10	SQ	0.00%
3990 General - Other Tangible Plant	10	SQ	0.00%

Current district parameters vary. See body of report.

**WATER**

3010 Intangible - Organization			
3020 Franchises and Consents			
3030 Intangible-Miscellaneous Intangible plant			
3031 Misc Intangible 10 Yr	10	SQ	0.00%
3033 Misc Intangible	3	SQ	0.00%
3034 Misc Intangible 4 Yr	4	SQ	0.00%

**LIBERTY MISSOURI WATER  
PROPOSED DEPRECIATION PARAMETERS  
AT DECEMBER 31, 2022**

Appendix C

Page 2 of 2

	<b>Life</b>	<b>Curve</b>	<b>Net Salvage</b>
3035 Misc Intangible	5	SQ	0.00%
3036 Misc Intangible	6	SQ	0.00%
3100 Supply - Land	NA	NA	NA
3110 Supply - Structures and Improvements	30	R2	0.00%
3120 Supply- Collect & Impound Reservoirs	60	R2	-5.00%
3140 Supply - Wells and Springs	70	R1	-15.00%
3160 Supply - Mains	70	R2	-5.00%
3210 Pumping - Structures & Improvements	30	R2	0.00%
3230 Pumping - Other Production Equipment	10	R1	0.00%
3250 Pumping - Electric Pumping Equipment	10	R1	0.00%
3251 Pumping - Submersible Electric Pumping Equipmen	10	R1	0.00%
3252 Pumping - High Service or Booster Pumps	10	R1	0.00%
3320 Water Treatment - Equipment	10	R4	0.00%
3322 Water Treatment - Chemical Feeders	5	R5	0.00%
3400 Transmission and Distribuion Land	NA	NA	NA
3410 T&D Structures and Improvements	30	R2	0.00%
3420 T & D - Distribution Reservoirs and Standpipes	60	R2	-5.00%
3430 T & D - Transmission and Distribution Mains	70	R2	-5.00%
3450 T & D - Services	30	R1	-5.00%
3460 T & D - Meters	8	R4	-7.50%
3461 Plastic Meters	8	R4	-7.50%
3470 T & D - Meter Installations	40	R2	-7.50%
3480 T & D - Hydrants	50	R2	-5.00%
3890 General - Land	NA	NA	NA
3900 General - Struct & Improvements	30	R2	0.00%
3910 General - Office Furniture & Equipment	20	SQ	0.00%
3911 General - Office Computer and Electronic Equipmen	5	SQ	0.00%
3920 General - Transportation Equipment	11	L3	6.00%
3930 GEN - Stores Equip	20	SQ	0.00%
3940 General - Tools, Shop And Garage Equip	10	SQ	0.00%
3950 General - Laboratory Equipment	5	SQ	0.00%
3960 General - Power-Operated Equipment	10	R2	6.00%
3970 General - Communication Equipment	10	SQ	0.00%
3980 General - Miscellaneous Equipment	10	SQ	0.00%
3990 General - Other Tangible Plant	10	SQ	0.00%

Current district parameters vary. See body of report.

**APPENDIX D**  
**Net Salvage History**



LIBERTY MISSOURI WATER- EMPIRE DIVISION  
RETIREMENTS REMOVAL COST AND NET SALVAGE ANALYSIS

ERC Account	Year	Activity	Retirements	Salvage	Removal Cost	Net Salvage	Net Salv. %	2-yr Net Salv. %	3-yr Net Salv. %	4-yr Net Salv. %	5-yr Net Salv. %	6-yr Net Salv. %	7-yr Net Salv. %	8-yr Net Salv. %	9-yr Net Salv. %	10-yr Net Salv. %
3320 WATER TREATMENT EQUIPMENT																
	2010		0	0	0	0	NA									
	2011		0	0	(23,800)	23,800	238000500.00%	238000500.00%								
	2012		0	0	0	0	NA	238000500.00%	238000500.00%							
	2013	14,237	0	121	(121)		-0.85%	-0.85%	166.32%	166.32%						
	2014	0	0	0	0		NA	-0.85%	-0.85%	166.32%	166.32%					
	2015	1,537	0	274	(274)		-17.83%	-17.83%	-2.50%	-2.50%	148.38%	148.38%				
	2016	0	0	0	0		NA	-17.83%	-17.83%	-2.50%	-2.50%	148.38%	148.38%			
	2017	0	0	0	0		NA	NA	-17.83%	-17.83%	-2.50%	-2.50%	148.38%	148.38%		
	2018	4,925	0	0	0		0.00%	0.00%	-1.91%	-1.91%	-4.24%	-4.24%	-1.91%	113.07%	113.07%	
	2019	0	0	31	(31)		NA	-0.63%	-0.63%	-0.63%	-4.72%	-4.72%	-2.06%	-2.06%	112.92%	112.92%
	2020	0	0	0	0		NA	NA	-0.63%	-0.63%	-4.72%	-4.72%	-2.06%	-2.06%	112.92%	112.92%
	2021	0	0	0	0		NA	NA	NA	-0.63%	-0.63%	-4.72%	-4.72%	-2.06%	-2.06%	-2.06%
	2022	0	0	0	0		NA	NA	NA	NA	-0.63%	-0.63%	-0.63%	-4.72%	-4.72%	-2.06%
3340 Meter and Meter Install																
	2,022		1055.14	0	0	0	0.00%									
LAND WATER TREATMENT EQUIP																
	2010		0	0	0	0	NA									
	2011		0	0	0	0	NA	NA								
	2012		0	0	0	0	NA	NA	NA							
	2013		0	0	0	0	NA	NA	NA	NA						
	2014		0	0	0	0	NA	NA	NA	NA						
	2015		0	0	0	0	NA	NA	NA	NA						
	2016		0	0	0	0	NA	NA	NA	NA						
	2017		0	0	0	0	NA	NA	NA	NA						
	2018		0	0	0	0	NA	NA	NA	NA						
	2019		0	0	0	0	NA	NA	NA	NA						
	2020		0	0	0	0	NA	NA	NA	NA						
	2021		0	0	0	0	NA	NA	NA	NA						
	2022		0	0	0	0	NA	NA	NA	NA						
3420 RESERVOIRS																
	2010		0	0	0	0	NA									
	2011		0	0	0	0	NA	NA								
	2012		0	0	0	0	NA	NA	NA							
	2013		0	0	0	0	NA	NA	NA	NA						
	2014		0	0	0	0	NA	NA	NA	NA						
	2015		0	0	0	0	NA	NA	NA	NA						
	2016		0	0	0	0	NA	NA	NA	NA						
	2017		0	0	0	0	NA	NA	NA	NA						
	2018		0	0	0	0	NA	NA	NA	NA						
	2019		0	0	0	0	NA	NA	NA	NA						
	2020		0	0	0	0	NA	NA	NA	NA						
	2021		0	0	1257.57	(1,258)	NA	NA	NA	NA						
	2022		0	0	3,289	0	NA	NA	NA	NA						
3430 WATER MAINS																
	2010		0	0	0	0	NA									
	2011		0	0	0	0	NA	NA								
	2012		90	0	9,877	(9,877)	-10934.12%	-10934.12%	-10934.12%							
	2013	5,987	1,253	40,834	(39,581)		-661.15%	-813.85%	-813.85%	-813.85%						
	2014	2,110	0	4,461	(4,461)		-211.38%	-543.92%	-658.56%	-658.56%	-658.56%					
	2015	1,099	0	18,360	(18,360)		-1670.07%	-710.99%	-678.54%	-778.30%	-778.30%	-778.30%				
	2016	0	0	0	0		NA	-1670.07%	-710.99%	-678.54%	-778.30%	-778.30%	-778.30%			
	2017	293	(4,647)	0	(4,647)		-1588.47%	-1588.47%	-1652.92%	-784.29%	-706.60%	-803.04%	-803.04%	-803.04%		
	2018	18,199	0	967	(967)		-5.31%	-30.36%	-30.36%	-122.37%	-131.03%	-245.65%	-280.41%	-280.41%	-280.41%	
	2019	(5,367)	0	37,098	(37,098)		691.27%	-296.63%	-325.43%	-325.43%	-429.35%	-401.19%	-470.91%	-513.08%	-513.08%	-513.08%
	2020	(8)	0	6,231	(6,231)		75168.28%	806.13%	-345.41%	-373.14%	-373.14%	-473.43%	-439.56%	-499.01%	-541.09%	-541.09%
	2021	0	0	0	0		NA	75168.28%	806.13%	-345.41%	-373.14%	-373.14%	-473.43%	-439.56%	-499.01%	-541.09%
	2022	24,670	5,700	0	5,700		23.10%	23.10%	-2.15%	-195.02%	-102.94%	-114.44%	-114.44%	-158.42%	-161.15%	-224.86%

LIBERTY MISSOURI WATER- EMPIRE DIVISION  
RETIREMENTS REMOVAL COST AND NET SALVAGE ANALYSIS

ERC Account	Year	Activity	Retirements	Salvage	Removal Cost	Net Salvage	Net Salv. %	2-yr Net Salv. %	3-yr Net Salv. %	4-yr Net Salv. %	5-yr Net Salv. %	6-yr Net Salv. %	7-yr Net Salv. %	8-yr Net Salv. %	9-yr Net Salv. %	10-yr Net Salv. %
<b>3450 SERVICES</b>																
	2010		0	0	0	0	NA									
	2011		0	0	1,623	(1,623)	-8115750.00%	-8115750.00%								
	2012		0	0	488	(488)	-4879500.00%	-7037000.00%	-7037000.00%							
	2013	466	0	0	11,431	(11,431)	-2451.68%	-2556.28%	-2904.29%	-2904.29%						
	2014	489	0	0	890	(890)	-182.18%	-1290.14%	-1341.21%	-1511.14%	-1511.14%					
	2015	85,583	0	0	14,327	(14,327)	-16.74%	-17.68%	-30.79%	-31.36%	-33.23%	-33.23%				
	2016	30,589	0	0	7,199	(7,199)	-23.54%	-18.53%	-19.21%	-28.90%	-29.31%	-30.70%	-30.70%			
	2017	0	0	0	0	0	NA	-23.54%	-18.53%	-19.21%	-28.90%	-29.31%	-30.70%	-30.70%		
	2018	61,357	0	0	70,968	(70,968)	-115.66%	-115.66%	-85.01%	-52.10%	-52.46%	-58.72%	-59.00%	-59.91%	-59.91%	
	2019	8,275	0	0	123,338	(123,338)	-1490.50%	-279.05%	-279.05%	-201.06%	-116.16%	-116.33%	-122.16%	-122.43%	-123.29%	-123.29%
	2020	0	0	0	0	0	NA	-1490.50%	-279.05%	-279.05%	-201.06%	-116.16%	-116.33%	-122.16%	-122.43%	-123.29%
	2021	0	0	0	0	0	NA	NA	-1490.50%	-279.05%	-279.05%	-201.06%	-116.16%	-116.33%	-122.16%	-122.43%
	2022	87,044	0	0	0	0	0.00%	0.00%	0.00%	-129.40%	-124.02%	-124.02%	-107.60%	-79.10%	-79.29%	-83.33%
<b>3460 METERS</b>																
	2010		0	0	0	0	NA									
	2011	11,937	0	0	0	0	0.00%	0.00%								
	2012	58	0	0	0	0	0.00%	0.00%	0.00%							
	2013	28,092	0	0	0	0	0.00%	0.00%	0.00%	0.00%						
	2014	24	0	0	1,133	(1,133)		-4.03%	-4.02%	-2.82%	-2.82%					
	2015	38,753	0	0	8,536	(8,536)	-4719.17%	-24.93%	-14.46%	-14.45%	-12.26%	-12.26%				
	2016	14,574	0	0	1,767	(1,767)	-12.13%	-19.32%	-21.43%	-14.04%	-14.03%	-12.24%	-12.24%			
	2017	0	0	0	0	0	NA	-12.13%	-19.32%	-21.43%	-14.04%	-14.03%	-12.24%	-12.24%		
	2018	62,249	0	0	11,523	(11,523)	-18.51%	-18.51%	-17.30%	-18.88%	-19.86%	-15.98%	-15.97%	-14.75%	-14.75%	
	2019	4,073	0	0	9,714	(9,714)	-238.50%	-32.02%	-32.02%	-28.44%	-26.36%	-27.30%	-22.11%	-22.10%	-20.45%	-20.45%
	2020	0	0	0	0	0	NA	-238.50%	-32.02%	-32.02%	-28.44%	-26.36%	-27.30%	-22.11%	-22.10%	-20.45%
	2021	0	0	0	0	0	NA	NA	-238.50%	-32.02%	-32.02%	-28.44%	-26.36%	-27.30%	-22.11%	-22.10%
	2022	10,888	0	0	0	0	0.00%	0.00%	0.00%	-64.93%	-27.51%	-27.51%	-25.06%	-24.16%	-25.02%	-20.59%
<b>3480 HYDRANTS</b>																
	2010		0	0	0	0	NA									
	2011		0	0	0	0	NA	NA								
	2012	128	0	0	0	0	0.00%	0.00%	0.00%							
	2013	64	0	0	1,722	(1,722)	-2689.51%	-896.50%	-896.50%	-896.50%						
	2014	64	0	0	252	(252)	-393.54%	-1541.52%	-770.76%	-770.76%						
	2015	320	0	0	6,809	(6,809)	-2126.47%	-1837.65%	-1959.34%	-1523.93%	-1523.93%	-1523.93%				
	2016	0	0	0	0	0	NA	-2126.47%	-1837.65%	-1959.34%	-1523.93%	-1523.93%	-1523.93%			
	2017	0	0	0	0	0	NA	NA	-2126.47%	-1837.65%	-1959.34%	-1523.93%	-1523.93%	-1523.93%		
	2018	642	0	0	667	(667)	-103.84%	-103.84%	-103.84%	-777.03%	-753.09%	-866.85%	-775.71%	-775.71%	-775.71%	
	2019	0	0	0	1,300	(1,300)	NA	-306.45%	-306.45%	-306.45%	-912.20%	-879.83%	-986.14%	-882.46%	-882.46%	-882.46%
	2020	2,065	0	0	1,015	(1,015)	-49.14%	-112.13%	-110.16%	-110.16%	-110.16%	-323.47%	-324.92%	-372.92%	-358.37%	-358.37%
	2021	0	0	0	0	0	NA	-49.14%	-112.13%	-110.16%	-110.16%	-323.47%	-324.92%	-372.92%	-358.37%	-358.37%
	2022	0	0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3910 FURNITURE</b>																
	2010		0	0	0	0	NA									
	2011		0	0	0	0	NA	NA								
	2012		0	0	0	0	NA	NA	NA							
	2013		0	0	0	0	NA	NA	NA	NA						
	2014		0	0	0	0	NA	NA	NA	NA	NA					
	2015		0	0	0	0	NA	NA	NA	NA	NA	NA				
	2016		0	0	0	0	NA	NA	NA	NA	NA	NA	NA			
	2017		0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA		
	2018		0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2019		0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2020		0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2021		0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2022		0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3911 COMPUTER EQUIPMENT</b>																
	2010		0	0	0	0	NA									
	2011		0	0	0	0	NA	NA								
	2012		0	0	0	0	NA	NA	NA							







**APPENDIX E**  
**Recommended Rates for New Acquisitions**

**LIBERTY MISSOURI WATER  
PROPOSED RATES NEW DIVISIONS  
AND ACCOUNTS THAT BECOME FULLY ACCRUED  
AT DECEMBER 31, 2022**

Appendix E

Page 1 of 2

	Life	Curve	Net Salvage	Whole Life Rate
<b>SEWER</b>				
3010 Intangible - Organization			0.00%	
3020 Intangible-franchise and Consents			0.00%	
3030 Intangible-Miscellaneous Intangible plant			0.00%	
3500 Collection - Land & Land Rights	NA	NA	NA	0.00%
3510 Collection - Structures and Improvements	25	R2	0.00%	4.00%
3521 Collection - Sewers Forced	70	R2	-5.00%	1.50%
3522 Collection - Sewers Gravity	70	R2	-5.00%	1.50%
3530 Collection - Services	40	R2	-5.00%	2.63%
3540 Collection - Flow Measuring Devices	30	R2	0.00%	3.33%
3610 Pumping - Structures and Improvements	25	R2	0.00%	4.00%
3620 Pumping – Receiving Wells	25	R2	-20.00%	4.80%
3630 Electric Pumping	20	R2	-20.00%	6.00%
3650 Pumping - Other Pumping Equipment	10	R2	0.00%	10.00%
3701 Treatment & Disposal - Oxidation Lagoon Land	NA	NA	NA	0.00%
3710 T&D Structures & Improvements	30	R2	0.00%	3.33%
3720 Treatment & Disposal - Equipment	30	R2	-20.00%	4.00%
3730 Treatment & Disposal - Plant Sewers	30	R2	-5.00%	3.50%
3740 Treatment & Disposal - Outfall Sewer Lines	70	R2	-5.00%	1.50%
3900 General - Struct & Improvements	30	R2	0.00%	3.33%
3910 General - Office Furniture & Equipment	20	SQ	0.00%	5.00%
3911 General - Office Computer and Electronic Equipme	5	SQ	0.00%	20.00%
3920 General - Transportation Equipment	11	L3	6.00%	8.55%
3930 General - Stores Equipment	20	SQ	0.00%	5.00%
3940 General - Tools, Shop And Garage Equip	10	SQ	0.00%	10.00%
3950 General - Laboratory Equipment	5	SQ	0.00%	20.00%
3960 General - Power-Operated Equipment	10	R2	6.00%	9.40%
3970 General - Communication Equipment	10	SQ	0.00%	10.00%
3990 General - Other Tangible Plant	10	SQ	0.00%	10.00%
<b>WATER</b>				
3010 Intangible - Organization				
3020 Franchises and Consents				
3030 Intangible-Miscellaneous Intangible plant				
3031 Misc Intangible 10 Yr	10	SQ	0.00%	10.00%
3033 Misc Intangible	3	SQ	0.00%	33.33%
3034 Misc Intangible 4 Yr	4	SQ	0.00%	25.00%
3035 Misc Intangible	5	SQ	0.00%	20.00%
3036 Misc Intangible	6	SQ	0.00%	16.67%
3100 Supply - Land	NA	NA	NA	0.00%
3110 Supply - Structures and Improvements	30	R2	0.00%	3.33%
3120 Supply - Collect & Impound Reservoirs	60	R2	-5.00%	1.75%
3140 Supply - Wells and Springs	70	R1	-15.00%	1.64%

**LIBERTY MISSOURI WATER  
PROPOSED RATES NEW DIVISIONS  
AND ACCOUNTS THAT BECOME FULLY ACCRUED  
AT DECEMBER 31, 2022**

Appendix E

Page 2 of 2

	<b>Life</b>	<b>Curve</b>	<b>Net Salvage</b>	<b>Whole Life Rate</b>
3160 Supply - Mains	70	R2	-5.00%	1.50%
3210 Pumping - Structures & Improvements	30	R2	0.00%	3.33%
3230 Pumping- Other Production Equipment	10	R1	0.00%	10.00%
3250 Pumping - Electric Pumping Equipment	10	R1	0.00%	10.00%
3251 Pumping - Submersible Electric Pumping Equipme	10	R1	0.00%	10.00%
3252 Pumping - High Service or Booster Pumps	10	R1	0.00%	10.00%
3320 Water Treatment - Equipment	10	R4	0.00%	10.00%
3322 Water Treatment - Chemical Feeders	5	R5	0.00%	20.00%
3400 Transmission and Distribuion Land	NA	NA	NA	0.00%
3410 T&D Structures and Improvements	30	R2	0.00%	3.33%
3420 T & D - Distribution Reservoirs and Standpipes	60	R2	-5.00%	1.75%
3430 T & D - Transmission and Distribution Mains	70	R2	-5.00%	1.50%
3450 T & D - Services	30	R1	-5.00%	3.50%
3460 T & D - Meters	8	R4	-7.50%	13.44%
3461 Plastic Meters	8	R4	-7.50%	13.44%
3470 T & D - Meter Installations	40	R2	-7.50%	2.69%
3480 T & D - Hydrants	50	R2	-5.00%	2.10%
3890 General - Land	NA	NA	NA	0.00%
3900 General - Struct & Improvements	30	R2	0.00%	3.33%
3910 General - Office Furniture & Equipment	20	SQ	0.00%	5.00%
3911 General - Office Computer and Electronic Equipme	5	SQ	0.00%	20.00%
3920 General - Transportation Equipment	11	L3	6.00%	8.55%
3930 GEN - Stores Equip	20	SQ	0.00%	5.00%
3940 General - Tools, Shop And Garage Equip	10	SQ	0.00%	10.00%
3950 General - Laboratory Equipment	5	SQ	0.00%	20.00%
3960 General - Power-Operated Equipment	10	R2	6.00%	9.40%
3970 General - Communication Equipment	10	SQ	0.00%	10.00%
3980 General - Miscellaneous Equipment	10	SQ	0.00%	10.00%
3990 General - Other Tangible Plant	10	SQ	0.00%	10.00%