



Water Management and Conservation Plan

Prepared for: Washington City, UT

Prepared by: Alliance Consulting

November 9, 2015

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Section 1 : Introduction

Objective

State of Utah House Bill 71, The Water Conservation Plan Act, requires water providers to develop a Water Conservation Plan. Washington City first developed and submitted a Water Management and Conservation Plan in May of 1999. As directed by Utah Code 73-10-32, updates to these plans are required every five years. An Updated plan was submitted in May of 2004 and 2010. This 2015 update fulfills that obligation and is designed to be a working document that both defines Washington City's approach to water conservation and is a management tool for measuring, tracking, and reporting the effectiveness of conservation measures.

Increasingly, Washington City has used a regional approach to development. The Washington County Water Conservancy District (WCWCD) is a vital partner in the planning for future growth needs and implementation of best management practices to ensure that programs effectively meet water use requirements.

Washington City has continued to grow rapidly. In order to enjoy and preserve these surroundings, Washington City is dedicated to the stewardship of not only the natural beauties of the land, but the water as well. The Washington City Water Management and Conservation Plan consists of seven sections.

- Section 1 introduces the goals for the Conservation Plan.
- The Washington City water system is described in Section 2.
- Section 3 identifies present and future water needs.
- Water problems and conservation goals within Washington City are described in Section 4.
- Section 5 describes the current water conservation practices.
- Section 6 describes the current water pricing structure.
- Additional Conservation measures are outlined in Section 7.
- The process for plan implementation, monitoring, and evaluation is described in Section 8.
- Appendix A is the ordinance adopting the water conservation plan.



Washington City

Washington City was established April 15, 1857. It is located in Washington County, which is in the southwest corner of Utah in what is commonly known as Utah's Dixie. Situated within the St. George Basin, to the north are sandstone hills and the Pine Valley Mountains. The Virgin River traverses the southern portion of the community and separates the agricultural region know as the Washington fields from the established town site. Washington City believes in the preservation of its heritage. Located in the fastest growing county in Utah, the City is still primarily agricultural in nature but moving towards a town site community. Washington City is progressing as a well planned community that provides a variety of housing types and amenities to residents. A blend of rugged terrain and irrigated fields creates a wide variety of elevation changes requiring nine pressure zones within the system.

Section 2: Inventory of Water Resources

City Owned Water Rights

The existing Washington City water rights are identified in the following table.

Table 2.1 City Owned Water Rights

WR #	Source	Culinary (af)	Secondary (af)
81-666	Underground Water, Well	151.4	
81-1087, a23880	Underground Water, Well	535.7	
81-1610, 81-4313	Underground Water, Well	213	
81-1674	Underground Water, Well	724	
81-1719	Underground Water, Well	434.4	
81-1747	Underground Water, Well	11.8	
81-2412	Underground Water, Well	1737.5	
81-1150	Spring Area		253
81-1151	Spring Area		22
81-207	Price Spring		12
81-222	Prisbrey Spring		5
81-266	Mascrow, Iron Bush Spring		101
81-3667	Green & Calving Hall Spring		441
81-4077	Westover and Sproul Springs		50
81-4078	Adair and Warm Springs		65
81-4079	War, Adair, Unnamed Spring		362
Total Acre Feet		3,807.8	1,311.0

Annual Water Supply from City Owned Water Resources

The annual water supply from City owned resources is identified in the following table.

Table 2.2 Annual Water Supply from City Owned Water Resources

WR #	Source	Type	Culinary (af)	Secondary (af)
81-1747, 81-2412, 81-666, a19389, a35583	Grapevine Well No. 1	Well	156.45	
81-242, a35583	Grapevine Well No. 2	Well	135.17	
81-2412, a35583	Grapevine Well No. 3	Well	-	
81-710	Mill Creek Tanner Ditch	Ditch		720.00
81-207	Price and Pierce Springs	Spring		77.28
81-222	Prisbrey Westover Spring	Spring		72.00
	Sproul Spring	Spring		128.88
81-2412, a35583	Sullivan Well Existing	Well	-	
81-242, a35583	Sullivan Well Replacement	Well		49.20
81-1747, a35583, 81-666, 81-1087	Well No. 1	Well		72.32
81-2412, 81-1674, 81-1747, a35583	Well No. 2	Well	271.30	
81-2412, 81-1747, 81-1719, a35583	Well No. 3	Well	163.25	
81-1747, 81-2412, a35583	Well No. 4	Well	749.04	
a35583, 81-2412, 81-1747	Well No. 5	Well	916.57	
81-242, 81-1747, a35583	Well No. 6	Well	658.94	
Total (acre feet)			3,050.72	1,119.68

Annual Water Supply from City Contracted Water Resources

Washington City's annual water supply from contracted water resources are identified in the following table.

Table 2.3 Annual Water Supply from City Contracted Water Resources

Source Name	Culinary (kgal)	Secondary (kgal)	\$/kgal	Total
WCWCD Coral Canyon Golf Course		136,984.00	\$0.59	\$80,820.56
WCWCD Treatment Plant	272,210.00		\$0.59	\$160,603.90
WCWCD Heritage Fields Connection	491,513.00		\$0.87	\$427,616.31
WCWCD Washington Dam Booster	251,480.00		\$0.87	\$218,787.60
Hurricane City Telegraph	0.00		\$1.00	\$0.00
Hurricane City Town Center	0.00		\$1.00	\$0.00
Total	1,015,203	136,984		\$887,828.37

Intersystem Agreements

Washington City is part of a coordinated effort of neighboring communities and the Washington County Water Conservancy District (the District) to combine resources to efficiently develop new water resources. The City has joined the Regional Water Supply Agreement to allow the District to provide water for future growth. In accordance with the agreement, the District will be actively pursuing water resources for future growth.

Distribution and Treatment System

Washington City's distribution and treatment system are adequate for at least 15 more years. The system is in excellent shape with few leaks. The distribution system maintains a minimum of 20 psi under peak and fire flow conditions. Several projects have been recently completed and others are anticipated for construction in the near future. Construction was completed on the East Regional and Waterline Booster Station that added facilities to accommodate the normal growth of the community. The project was funded from cash on hand. In 2016 -17, the Red Cliffs Storage Tank will add additional storage capacity to the system. The project will also be funded from cash on hand.

System Deficiencies

Washington City's secondary system is small and inefficient. As part of water master planning, the City is considering upgrading the secondary irrigation system and reducing real water loss.



Financial Resources

The Washington City water budget is in excellent condition. Significant funds are collected and held in reserve for future improvements and upgrades to the system.

Section 3: Present Water Use and Future Needs

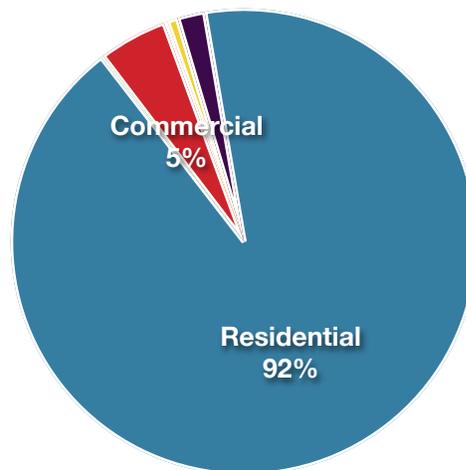
Current Use

Washington City currently has a total of 8,681 connections. These connections are 92% residential, 5% commercial, with the remaining 3% consisting of agricultural, industrial, institutional, wholesale, and other connections.

Table 3.1 City Connections by Type

Type	Connections
Agricultural	7
Residential	8,154
Industrial	12
Commercial	421
Institutional	22
Other	64
Wholesale	1
Total	8,681

Figure 3.1 City Connections by Type

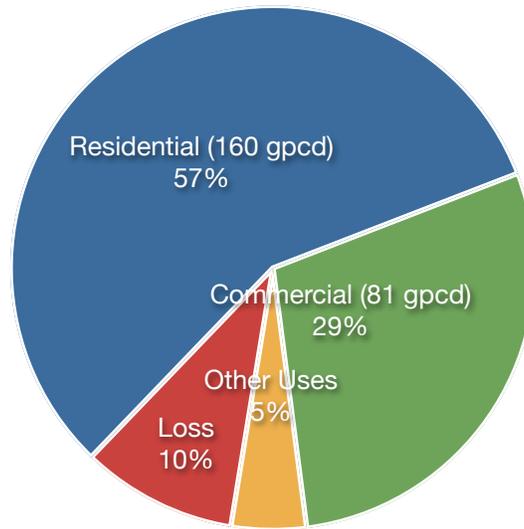


Per Capita Consumption

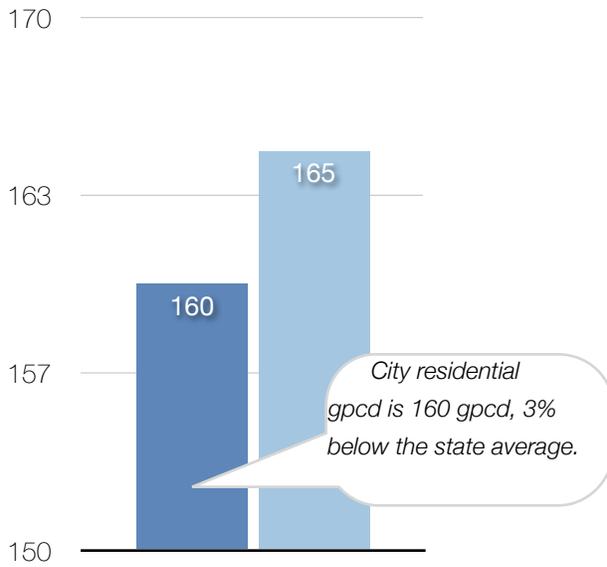
Washington City's per capita consumption including secondary water is 281 gpcd. This use is primarily residential at 160 gpcd. Commercial use is 81 gpcd. All other uses comprise the remaining 22 gpcd. Secondary water uses in Washington City are 43 gpcd included in the commercial category. The current estimated system loss is 10%.

Table 3.2 Breakdown of Water Use Including Secondary Water

Type	No.	Use (kgal)	GPCD	Formula for Calculation
Agricultural	7	1,409	0	(agricultural usage x 1000) / 365 / current population
Residential	8,154	1,359,277	160	(residential usage x 1000) / 365 / current population
Industrial	12	1,143	0	(industrial usage x 1000) / 365 / current population
Commercial	421	692,922	81	[(commercial usage + landscape meter usage+ secondary water usage) x 1000] / 365 / current population
Institutional	22	53,072	6	(institutional usage x 1000) / 365 / current population
Other	64	60,897	7	(other usage x 1000) / 365 / current population
Wholesale	1	3	0	(wholesale usage x 1000) / 365 / current population
Total	8,681	2,168,723	255	(total usage x 1000) / 365 / current population
10.23% Estimated System Loss		221,860	26	(estimated system loss x 1000) / 365 / current population
		2,390,583	281	Total gpcd + estimated system loss gpcd



■ City Residential gpcd
■ 2010 State Residential Average gpcd



■ City Total GPCD
■ 2010 State Average GPCD

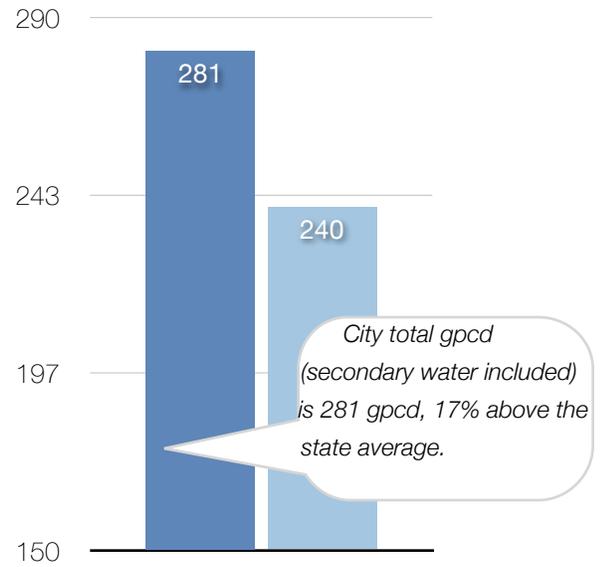


Figure 3.2 GPCD by use category

Figure 3.3 Comparison of City and State Residential GPCD Averages

Figure 3.4 Comparison of City and State Total GPCD Averages

Population

Using the 2012 Baseline City Population Projections published by the Governors Office of Planning and Budget, Washington City has projected their population through 2045. The Washington City general plan predicts the population build-out is approximately 80,000 for the current City area. Additionally, the potential annexation areas could add 40,000 people for a total build-out of 120,000.

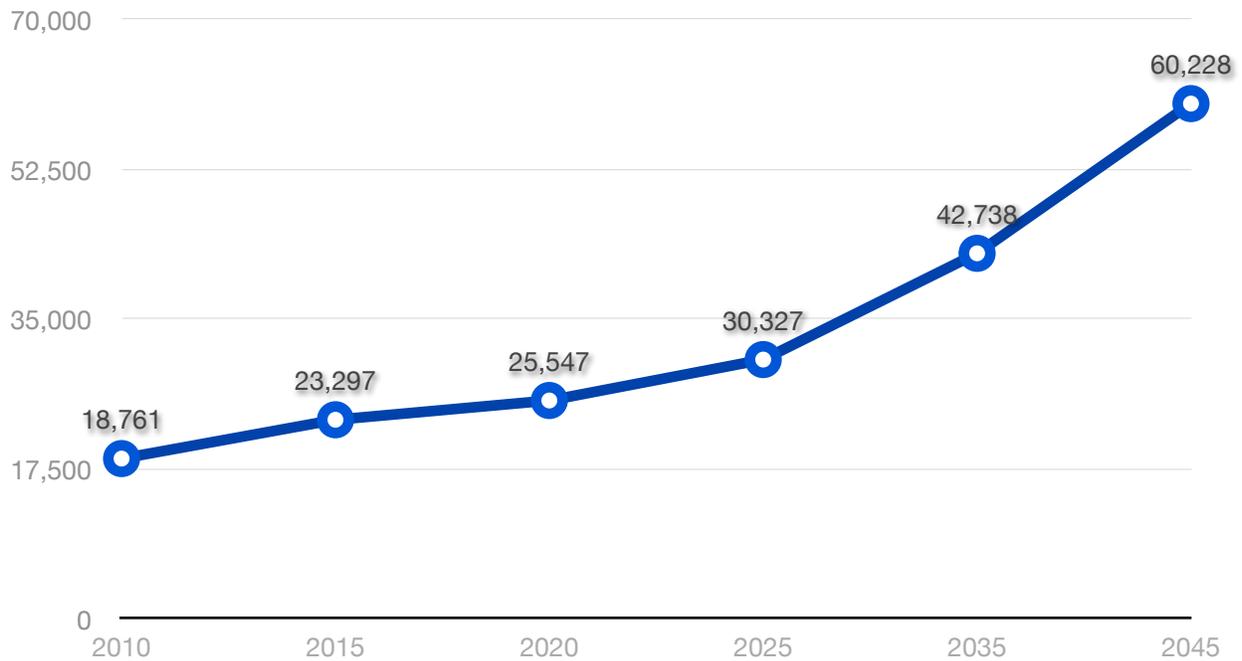


Figure 3.5 Population Projections

Table 3.3 Population Projections

Year	Projection
2015	23,297
2020	25,547
2025	30,327
2035	42,738
2045	60,228

Projected Potential Water Demand

Washington City’s potential water demands were calculated using the 2014 GPCD and population numbers published by the Governor’s Office of Management and Budget.

Table 3.4 Projected Potential Water Demand

Year	Projected Population	GPCD	Projected Demand (kgal)	Projected Demand (ac ft)
2020	25,547	281	2620228055	8,041
2025	30,327	281	3110488755	9,546
2035	42,738	281	4383422970	13,452
2045	60,228	281	6177284820	18,957

Secondary Water Use

Washington City operates a small low-pressure or flood irrigation secondary irrigation system that serves older portions of the community. These systems flow from several different sources and are conveyed to the end user via network of ditches, pipes, gates, valves, etc. The sub-systems that make up the secondary irrigation system are distinguished as irrigation districts.

Starting in 2005, new developments have been required to install irrigation distribution lines and metering infrastructure in anticipation of developing a pressurized irrigation system. Currently, this infrastructure is “dry” and not in use.

Table 3.5 Percent of Customers with Access to the Secondary System by Category

Type	Connections	Secondary Connections	% of Type with Access
Agricultural	7	0	0
Residential	8,154	160	2%
Industrial	12	0	0%
Commercial	421	0	0%
Institutional	22	0	0%
Other	64	0	0%
Wholesale	1	0	0%
Total	8,681	160	2%

Section 4: Water Problems, Conservation Measures, and Goals

Identified Problems

Washington City has carefully managed new growth, through both ordinance and staff review, to include water conservation principles. In conjunction with these efforts old water infrastructure has been upgraded to a technologically current system that effectively manages water delivery. The City has also cultivated regional partnerships to more effectively develop City resources. These conservation strategies have succeeded in achieving significant reduction in water usage. However, the City needs to achieve additional future reductions to continue to demonstrate not only regulatory compliance, but good stewardship of City resources. In the process of updating the Water Conservation Plan, three key areas were identified to achieve additional reductions in the next five years:

1. Maintaining support for and extending current conservation measures.
2. Consideration of a new pressurized secondary irrigation system.
3. Improving the City's utility operations to reduce real water loss.

Water Conservation Goals

The following goals have been identified by Washington City:

1. Washington City has, according to state estimates, achieved a 24% reduction in total per capita usage in 2010 from 2000 baseline levels. Total per capita usage is comprised of all category uses, including both indoor and outdoor usages, secondary water and estimated loss. In line with the WCWCD regional goal, Washington City is committed to achieving an additional 11% reduction in total per capita usage, for a total 35% reduction, by 2060.

2. Continue to support current conservation measures. Primary focuses will be:

- improving data collection strategies,
- increasing the frequency of effectiveness reviews of best management practices for existing and new conservation measures, and
- improving public outreach to improve customer awareness and access to conservation measures.

3. Assess the desirability, costs, and effectiveness of replacing the old secondary system with a new pressurized irrigation system.

4. Expand the City's real water loss reduction strategies.

Water Conservation Plan

Washington City's conservation measures are designed to meet regulatory requirements, demonstrate stewardship, decrease operating costs, avoid capital costs, and extend available water supplies. The updated plan consists of 17 conservation practices divided into four categories. Utility operations practices are intended to address an efficiently designed operating system and increase water supply. Education and incentives categories are intended to encourage the use of water saving devices and wise water use. The mandates category is intended to ensure that water conservation policies are active and enforceable. Each category has one more measure components.

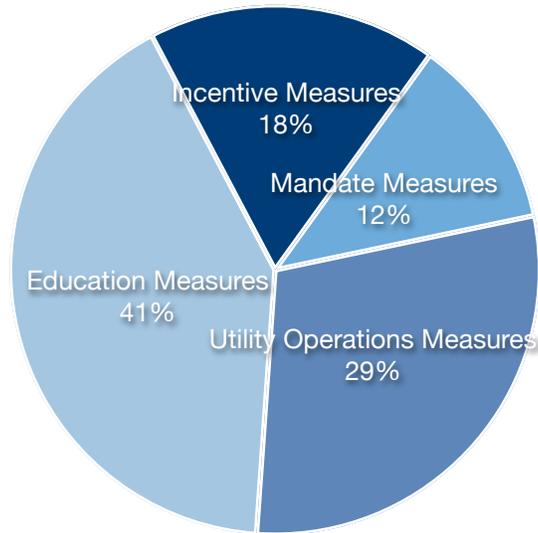


Figure 4.1 Measures category distribution within the Water Conservation Plan

Section 5: Current Conservation Measures

Utility Operations Measures

The current utility operations conservation measures provide broad customer targeting and water use reduction strategies through operations and infrastructure upgrades.

Table 5.1 Current Utility Operations Measures

Utility Operations Management Measure	Customer Target			Water Use	
	<i>RSF</i>	<i>RMF</i>	<i>CII</i>	<i>Indoor</i>	<i>Outdoor</i>
Conservation Pricing					
Continue drought management pricing structure	x	x	x	x	x
Continue assessing needed changes and updates to regular and drought stages utility pricing structure	x	x	x	x	x
Universal Metering					
Continue installing meters on all connections	x	x	x		x
Continue maintenance and replacement program for existing meters	x	x	x		x
Comprehensive Water Conservation Plan					
Update the water management and conservation plan and submit to the Utah Division of Water Resources	x	x	x	x	x

RSF-Residential Single Family; RMF-Residential Multi Family; CII-Commercial, Industrial, Institutional

Education Measures

Current education measures are targeted primarily to educating single family residential customers about wise outdoor water use.

Table 5.2 Current Education Measures

Education Management Measure	Customer Target			Water Use	
	<i>RSF</i>	<i>RMF</i>	<i>CII</i>	<i>Indoor</i>	<i>Outdoor</i>
Billing Report Education Tool					
Provide customers with data designed to increase awareness of use patterns and promote conservation	x	x	x		x
Single Family Water Surveys					
Provide customized report to the homeowner regarding how to save water in their home	x				x
Public Information Program					
Public Education used to raise awareness of other conservation measures available to customers.	x	x	x	x	x
Irrigation Water Surveys					
Provide free landscape water surveys upon request.			x		x
Xeriscape Demonstration Gardens					
A demonstration garden displaying living examples of low-water usage gardens and landscaping.	x	x			x
Train Landscape Maintenance Workers					
Training for managers and workers in landscape maintenance methods that will save irrigation water.	x	x	x		x
Efficient Outdoor Use Education and Training Program					
Educational workshops for homeowners in efficient landscaping and irrigation principles.	x				x

Incentive Measures

Current incentive measures are primarily targeted toward single family residential outdoor water saving devices.

Table 5.3 Current Incentive Measures

Conservation Management Measure	Customer Target			Water Use	
	<i>RSF</i>	<i>RMF</i>	<i>CII</i>	<i>Indoor</i>	<i>Outdoor</i>
Smart Irrigation Controller Rebates					
Provides a 50% cost share for the purchase of a SMART irrigation controller. Requires customer to have a "water check" and education.	x				x
High Efficiency Toilet (HET) Rebates					
Provide a \$75 rebate or voucher for the installation of a high efficiency toilet (HET). HETs are defined as any toilet that flushes 20% less than an ultra-low flow toilet (ULFT) and include dual flush technology. Rebate amounts reflect incremental purchase cost. This program will be eliminated as 1.28 gpf toilets are mandated by state or federal law.	x	x	x	x	
Replace Spray Nozzles					
Rebate for upgrading to a rotating nozzle for single family properties.	x				x

Mandated Measures

Current mandated measures have broad customer and water use targets.

Table 5.4 Current Incentive Measures

Conservation Management Measure	Customer Target			Water Use	
	<i>RSF</i>	<i>RMF</i>	<i>CII</i>	<i>Indoor</i>	<i>Outdoor</i>
Incentive Water Conservation Pricing					
Continue implementing water pricing policies that promote water conservation.	x	x	x	x	x
Water Conservation Ordinances					
Continue implementing an incentive water rate structure.	x	x	x	x	x
Continue implementing a time of day watering ordinance.	x	x	x		x

Section 6: Current Pricing Structure

Current Rates

Washington City raised culinary base and consumptive water billing rates in 2014. The current rate structure is as follows.

Table 6.1 Current Culinary Water Rates

Culinary Water Rates	Tier	Cost
Monthly Base Charge (3/4" meter)		\$18.25
Consumptive Use Blocks (kgallons)		
0-5,000	1	\$1.00
5,001-10,000	2	\$1.10
10,001-15,000	3	\$1.20
15,001-20,000	4	\$1.30
20,001-25,000	5	\$1.40
25,001-30,000	6	\$1.50
30,001-35,000	7	\$1.65
35,001-40,000	8	\$1.80
40,001 and above	9	\$1.95

Drought Management Rates

In 2009, Washington City adopted a drought management ordinance to promote conservation during times of water shortages. Stage 1 is normal usage and normal culinary water rates apply. In stage 2, rates increase

10 percent for a reduction goal of 5%-10% of peak use. The stage 3 reduction goal is 10%-25% of peak use and rates increase 25%. Stage 4, is a 50% rate increase for a reduction goal of 25%-60%.

Table 6.2 Current Drought Management Rates

Culinary Water Rates	Stage 1	Stage 2	Stage 3	Stage 4
	Normal	10% Increase	25 % Increase	50% Increase
Monthly Base Charge (3/4" meter)	\$18.25			
<i>Consumptive Use Blocks (cost/1,000 gallons)</i>				
0-5,000	\$1.00	\$1.10	\$1.25	\$1.50
5,001-10,000	\$1.10	\$1.21	\$1.38	\$1.65
10,001-15,000	\$1.20	\$1.32	\$1.50	\$1.80
15,001-20,000	\$1.30	\$1.43	\$1.63	\$1.95
20,001-25,000	\$1.40	\$1.54	\$1.75	\$2.10
25,001-30,000	\$1.50	\$1.65	\$1.88	\$2.25
30,001-35,000	\$1.65	\$1.82	\$2.06	\$2.48
35,001-40,000	\$1.80	\$1.98	\$2.25	\$2.70
40,001 and above	\$1.95	\$2.15	\$2.44	\$2.93

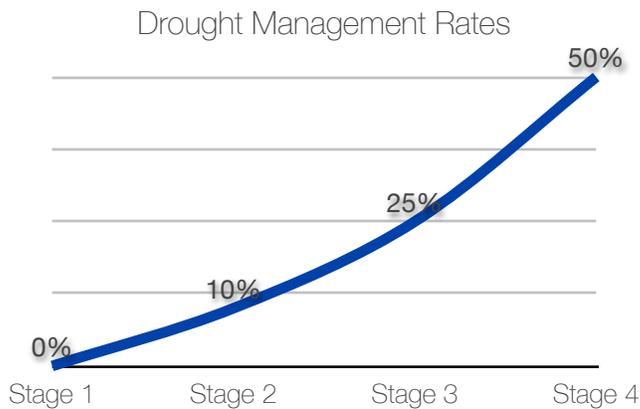


Figure 6.1 Drought Management Stage Rate Increases



Anticipated Rate Changes

Although Washington City conducts yearly reviews to assess the necessity of annual adjustments, changes are not anticipated until 2018.

Section 7: Additional Conservation Measures

Utility Operation Measures

New utility operation measures target a broad customer base and both indoor and outdoor use. The goal for new utility operation measures is a gpcd reduction of 1.75% by 2020.

Table 7.1 New Utility Operation Measures

Conservation Management Measure	Time	Customer Target			Water Use	
	Year	RSF	RMF	CI	Indoor	Outdoor
Real Water Loss Reduction						
Conduct an initial situational analysis to assess non-revenue water in accordance with the water balance of the International Water Association (IWA). Formulate clear objectives and targets for the water distribution network. Devise an action plan using the IWA Water Loss Task Force four principal methods for combating real water losses.	2016	x	x	x	x	x
Implement Phase I of Real Water Loss Reduction Action Plan.	2017	x	x	x	x	x
Implement Phase II of Real Water Loss Reduction Action Plan.	2018	x	x	x	x	x
Implement Phase III of Real Water Loss Reduction Action Plan.	2019	x	x	x	x	x
Universal Metering						
Upgrade secondary water metering	2016	x	x	x		x
Comprehensive Water Conservation Plan						
Assess and update the water management and conservation plan measures annually	2016	x	x	x	x	x
Pressurized Irrigation System						
Assess the development of a pressurized irrigation system to replace the old secondary system currently in operation and to take advantage of a "dry" landscape irrigation network.	2016	x	x	x		x

Education Measures

The new education measure is designed to increase awareness of conservation programs to primarily single family residential customers.

Table 7.2 New Education Measures

Conservation Management Measure	Customer Target			Water Use	
	<i>RSF</i>	<i>RMF</i>	<i>CII</i>	<i>Indoor</i>	<i>Outdoor</i>
Public Information Program					
Update City website	x				x

Incentive Measures

No new incentive measures are planned.

Mandated Measures

The potential mandated measure is targeted toward new development and would affect all customers outdoor usage. Pending feasibility analysis, no specific reduction targets are designated for this category. However, Washington City anticipates that the adoption of new building codes will generate a passive saving.

Table 7.3 New Mandated Measures

Conservation Management Measure	Customer Target			Water Use	
	<i>RSF</i>	<i>RMF</i>	<i>CII</i>	<i>Indoor</i>	<i>Outdoor</i>
Water Conservation Ordinances					
Explore feasibility of adopting an ordinance requiring water-efficient landscaping in new development	x	x	x		x

Section 8: Implementing and Updating the Water Conservation Plan

Implementation of the Water Conservation Plan

The Washington City Water Superintendent will be responsible for implementation of the Water Conservation Plan. Responsibilities will include projecting and incorporating anticipated program costs into the department budget.

Monitoring and Evaluation

Data for monitoring and evaluating the Water Conservation Plan will be gathered monthly by the water billing department and reviewed by the Water Superintendent. This data and other program data will be evaluated for overall gpcd reduction targets at semi-annual meetings by the Water Superintendent and Public Works Director.

Updating the Water Conservation Plan

Prior to the second semi-annual meeting of the Water Superintendent and Public Works Director, the Water Conservation Plan monitoring data will be incorporated into a memorandum of findings. This and prior memorandums will be reviewed at the meeting and appropriate updates to the Conservation Plan will be authorized.

Public Involvement

A public hearing will be held to solicit public involvement in the Water Conservation Plan prior to its adoption by the Washington City Council.

Appendix A: Resolution Adopting A Water Management and Conservation Plan

RESOLUTION R2015-17

**A RESOLUTION ADOPTING A WATER MANAGEMENT AND
CONSERVATION PLAN FOR WASHINGTON CITY**

WHEREAS, Washington City is required by the State of Utah to file a Water Management and Conservation Plan; and

WHEREAS, the City Council has been provided with general information from City personnel on impacts of water resources limitations on the City, and the Water Management and Conservation Plan provides a guide to improve the City's water resources; and

WHEREAS, it is recognized that our water supply serves as an essential resource for health and safety of our citizens, local fire protection, agricultural needs, residential and commercial landscaping support, and is a critical link in economic development for our community; and

WHEREAS, specific water conservation measures and strategies as identified in The Water Management and Conservation Plan must be adopted at this time, to comply with the State of Utah requirements.

NOW THEREFORE, BE IT HEREBY RESOLVED by the City Council of Washington City, State of Utah, as follows:

1. **Adoption.** The City Council hereby adopts the Water Management and Conservation Plan.
2. **Effective Date.** This Resolution shall become effective immediately upon its passage.

PASSED AND APPROVED, on this 9th day of December 2015.

WASHINGTON CITY



Kenneth F. Neilson
Kenneth F. Neilson, Mayor

ATTEST:

Danice B. Bulloch
Danice B. Bulloch, CMC, City Recorder