

CORINNE CITY

WATER CONSERVATION PLAN

JUNE 2025

PREPARED FOR:



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TABLE OF CONTENTS

INTRODUCTION.....	1
SECTION 1 SYSTEM PROFILE.....	2
1.1 SERVICE AREA.....	2
1.2 SERVICE CONNECTIONS.....	2
SECTION 2 WATER SOURCES.....	4
2.1 CURRENT WATER SUPPLY AND INFRASTRUCTURE.....	4
2.2 STORAGE FACILITIES	5
2.3 EXISTING TREATMENT FACILITIES.....	6
2.4 EXISTING DISTRIBUTION SYSTEM.....	6
2.5 EXISTING WATER RIGHTS.....	7
SECTION 3 WATER USE.....	8
3.1 CURRENT AND FUTURE WATER USE.....	8
3.2 EQUIVALENT RESIDENTIAL UNITS & EQUIVALENT POPULATION	9
SECTION 4 BILLING.....	14
4.1 WATER MEASUREMENT AND BILLING	14
SECTION 5 SYSTEM WATER LOSS	15
5.1 SYSTEM WATER LOSS	15
SECTION 6 CONSERVATION PRACTICES.....	16
6.1 WATER CONSERVATION GOAL.....	16
6.2 CURRENT CONSERVATION PRACTICES	16
6.3 FUTURE CONSERVATION MEASURES – BEST MANAGEMENT PRACTICES.....	16
6.4 IMPLEMENTATION PLAN.....	17
REFERENCES.....	17
CERTIFICATION OF ADOPTION	18

LIST OF FIGURES

Figure 1. Vicinity Map of Corinne City	2
Figure 2. Corinne City Service Area Map	3
Figure 3. Future Water Supply, Demand, and Use	5
Figure 4. Corinne City Population Growth Projections	12
Figure 5. Existing Monthly Water Usage	13
Figure 6. Historic Water Usage	13

LIST OF TABLES

Table 1. Connection Information.....	2
Table 2.1 Water Source Summary.....	5
Table 2.2 Storage Facilities Summary.....	5
Table 2.4 Distribution System Summary.....	6
Table 2.5 Summary of Existing Water Rights.....	7
Table 3.1 Census Population Data.....	8
Table 3.1.1 Population Projection Data.....	8
Table 3.1.2 2017-2022 Building Permits Issued.....	9
Table 3.2 Existing Conditions and Average Water Demands.....	10
Table 3.2.1 ERU Evaluation.....	10
Table 3.2.2 Existing ERUs.....	11
Table 3.3 ERU Projections.....	11
Table 4.1 Summary User Rates.....	14
Table 4.1.1 Summary of Current Connection Fees and Impact Fees.....	14
Table 5.1 Water Loss Data.....	15

APPENDICES

Appendix A	Regional Conservation Goals
Appendix B	Area Map

INTRODUCTION

The 2025 Water Conservation Plan for Corinne City has been developed to adhere to the requirements of the Utah Water Conservation Plan Act, revised in 2004 by House Bill 71, Section 73-10-32, originally passed in 1998. The legislation mandates that water conservancy districts and suppliers submit their conservation strategies to the Utah Board of Water Resources and update them every five years. This revision details the ongoing water-saving measures of Corinne City and sets forth its updated conservation goal.

Corinne City is becoming increasingly conscious of the imperative need to secure water resources for its users now and in the future. The city's leadership is dedicated to reducing water usage per capita within its service domain and achieving the new regional water conservation target by the year 2030.

Sunrise Engineering has been retained by Corinne City to create a water conservation plan to establish the city's water conservation goals and efforts. This plan will identify current resources and infrastructure, water use and losses, billing structure, and establish a baseline for future conservation efforts. A timeline and evaluation process of these efforts will be provided.

SECTION 1 | SYSTEM PROFILE

1.1 SERVICE AREA

Corinne City (Corinne) is located in Box Elder County, Utah as shown in **Figure 1**. Corinne is north of the Great Salt Lake and Bear River Delta, and west of Brigham City. The city has been growing at a moderate rate since the culinary water system was installed in the early 1900s.

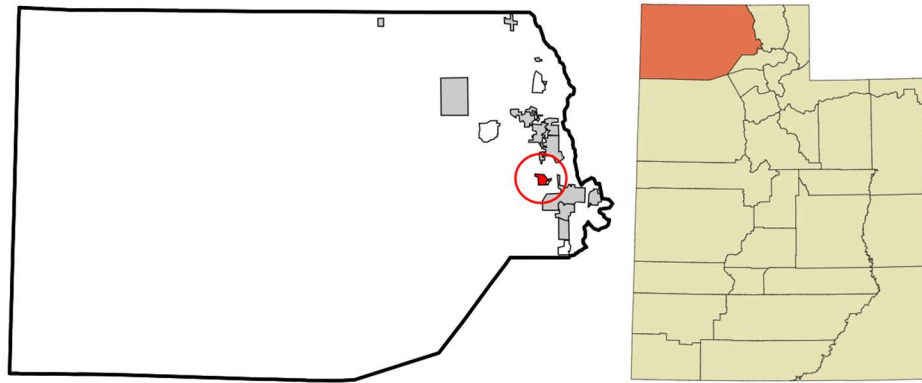


Figure 1. Vicinity Map of Corinne City

1.2 SERVICE CONNECTIONS

Corinne has 368 culinary connections throughout the city's service area consisting of 323 residential connections, 34 commercial connections, and 11 unmetered connections. The different types of connections are broken down in **Table 1**. A map of the system's service area and connection locations is shown in **Figure 2**.

Table 1: Connection Information

Connection Type	Number of Connections
Residential	323
Commercial	34
Unmetered	11
Total	368

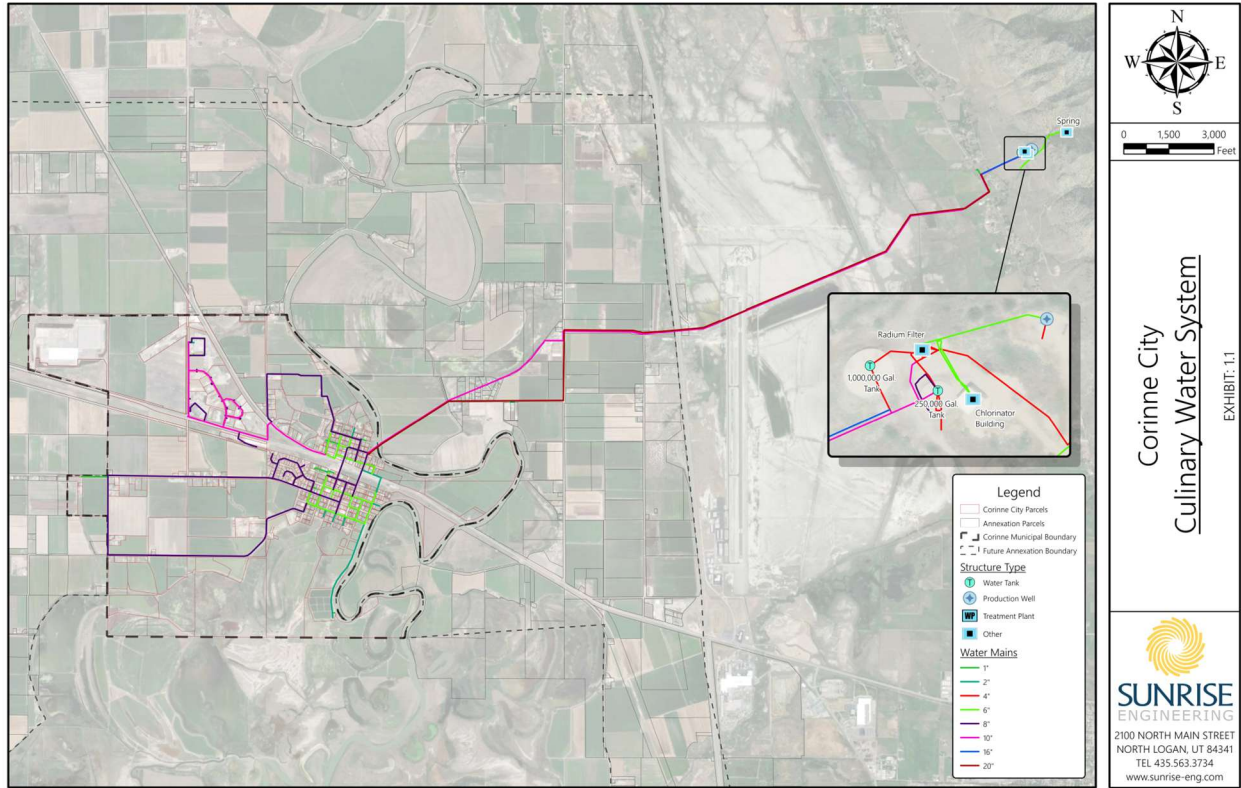


Figure 2. Corinne City Service Area Map

SECTION 2 | WATER SOURCES

2.1 CURRENT WATER SUPPLY AND INFRASTRUCTURE

Corinne's culinary water system is supplied by one well, Cutler Well, and the Batty Spring, located in Yates Canyon. These sources are approximately 4.75 miles northeast of Corinne and about 3.5 miles north of Brigham City to the east of Highway 38.

The primary source of water for Corinne is Batty Spring. The system is designed and operated to use this source preferentially. Because the high-elevation spring can deliver water without pumping, the energy cost of water delivered from the spring is low compared to other sources. The spring has the potential to provide for the whole city during the winter months and is supplemented using well water during late spring, summer, and early fall as well as during drought years.

The spring is approximately 1,500 ft east of the tanks. Batty Spring has an overflow pipe located at the spring collection area. The water is conveyed from the spring collection area in a 6-inch and 4-inch transmission line to the city's tanks. Before the spring water reaches the tank, it passes through a chlorinator building.

A metering station measures the flow conveyed from the spring collection area; However, this value does not represent the full capacity of the spring because only a portion of the full flow is collected, the remainder being discharged into the canyon. Meter data was provided by the city dating back to 2014, and the max flow that was reported was 227 gallons per minute (gpm). The spring can produce a higher flow, but the pipeline is the limiting factor for the flow into the system.

The spring was redeveloped in 2018. For the purposes of this report, a flow from the spring of 35 gpm will be used to be conservative on spring flow and to account for a poor scenario where the spring is running low. The lowest flow that has been seen at the spring over the past 3 years is 35 gpm.

The Cutler Well is used to supplement the spring. The Cutler Well is located near Corinne's two water tanks. The water is pumped from the well, through a radium filter, chlorinator, and into the city's storage tanks. Currently, the well produces 44 gpm on average, including time when the pump is not in use. However, when the pump is operational, the production rate is approximately 200 gpm. The well is 8-inches in diameter, approximately 450 feet deep, and was drilled in 1989. **Table 2.1** provides a summary of the various sources and their key attributes.

Table 2.1 Water Source Summary

Source Name	Source Type	Year Constructed	Max Documented Flow Rate (gpm)	Current Flow Rate (3-Year Average gpm)	Source Capacity (gpm)
Spring	Canyon Spring	2018 (Redeveloped)	227	65	35
Well	Underground Well	1989	109	44	245

2.2 STORAGE FACILITIES

Corinne currently has two operational storage tanks that combine to provide 1.25 million gallons of storage. Both tanks are cylindrical concrete storage tanks; the small 250,000-gallon tank was built in 1976 and the large 1,000,000-gallon tank was built in 2010. **Table 2.2** details storage capacity. These storage tanks provide flexibility for water consumption and are a critical piece of the water system. The storage facilities provide three vital services for Corinne: fire suppression storage, equalization or operational storage, and emergency storage.

Table 2.2 Storage Facilities Summary

Tank Name	Capacity (gallons)	Construction Date	Type	Tank Zone
Small Tank	250,000	1976	Cylindrical Concrete	1
Large Tank	1,000,000	2010	Cylindrical Concrete	1

Figure 3 charts Corinne's reliable water supply, the projected demand, and the projected use with conservation efforts using source information, population data, water use.

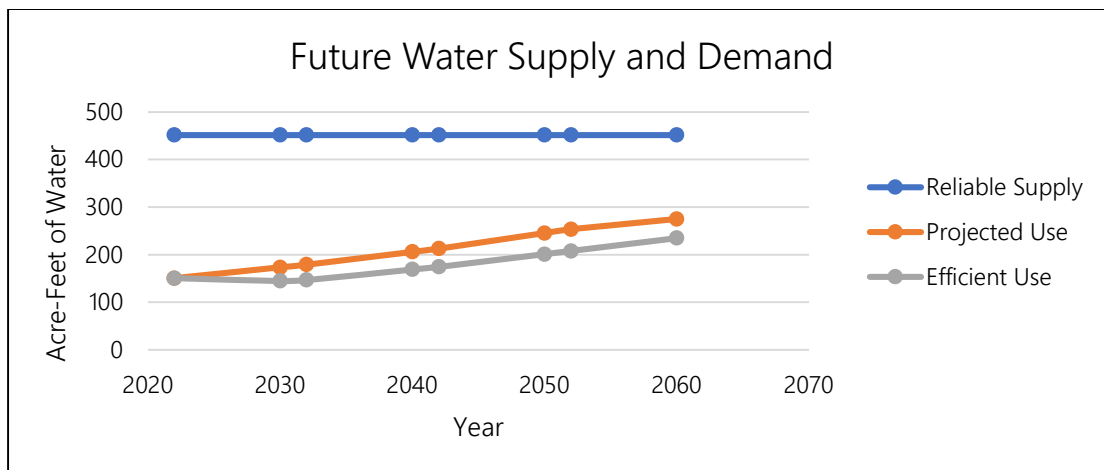


Figure 3. Future Water Supply, Demand, and Use

2.3 EXISTING TREATMENT FACILITIES

Water sourced from Batty Spring is treated with chlorine gas before entering the storage tanks. The water produced from Cutler Well goes through a radium filtration system and then is treated with chlorine gas before being blended with the water from the spring.

The approval for the radium filtration system was given in 2016 due to historically high levels of radium at the Cutler Well. The city installed a treatment facility at the Cutler Well through a WTR's Z-88 Radium Removal System. The maximum contaminant level (MCL) for combined radium 226, 228 is 5.0 pCi/L and the safe target of 3.0 pCi/L was designed for. The minimum recommended flow rate through the filter media according to the manufacturer is 130 gpm. Treated water from the filter is then blended with spring water to further lower the radium levels below the MCL.

2.4 EXISTING DISTRIBUTION SYSTEM

The distribution system serving Corinne was originally installed in the early 1900s. Large sections of the culinary distribution system have been installed or replaced by developers as the city has grown. The current system is made up of a combination of ductile iron pipe and PVC pipe. New additions to the system are PVC. **Table 2.4** provides a summary of the distribution system's pipe sizes and lengths. There are 74 fire hydrants that are part of the Corinne system.

Table 2.4 Distribution System Summary

Pipe Size	Total Length of Pipes in System	Percentage of System
1-inch	2,120	1.6%
2-inch	6,430	4.9%
4-inch	1,300	1.0%
6-inch	16,940	13.0%
8-inch	38,560	29.5%
10-inch	38,180	29.2%
16-inch	1,540	1.2%
20-inch	25,580	19.6%
Total	130,650	

2.5 EXISTING WATER RIGHTS

Presently, Corinne owns five water rights. Presented in **Table 2.5** is a summary overview of those five water rights. The blue text indicates a value that is the documented value on the water right. The red text indicates that value is not documented but is calculated from the documented value. On the Period of Use column, there is an (Y) printed next to the date of usage. This indicates that the right is a Year-Round Right (Y), as opposed to a Summer Right (S) or a Winter Right (W).

Table 2.5 Summary of Existing Water Rights

Water Right	Flow (cfs)	Flow (gpm)	Volume (ac-ft)/year	Assigned Source	Period of Use	Notes
29-986	0.1	44.9	72.40	Batty Spring	1/1 to 12/31 (Y)	
29-985	0.1	44.9	72.40	Batty Spring	1/1 to 12/31 (Y)	
29-3702	0.46	206.5	333.02	Underground Well	1/1 to 12/31 (Y)	
29-2044	0.54	242.4	390.94	Underground Well	1/1 to 12/31 (Y)	
29-1146	0.197	88.4	142.62	Unnamed Springs & Spring	1/1 to 12/31 (Y)	
29-1390	0.45	202.0	325.78	Unnamed Springs		Lapsed in 1980
29-2128	1.5	673.2	1085.95	Underground Water Drain		Disallowed
Total Active	1.397	627.02	1011.38			

In addition to the water rights, Corinne has access to secondary water from the Bear River Canal Company. Corinne has 200 shares in the Bear River Canal Company that is used for irrigation throughout Corinne. Much of the water is conveyed through a series of ditches and small pipes, and landowners use the water primarily through flood irrigation. This water use is managed by the Bear River Canal Company but is not directly metered.

There are two diversion points that Corinne can use to put water into their secondary system. The first diversion point has the headgate name "30B Stream A" and is roughly 1,400 feet west of where the canal crosses 4800 West. The canal water is diverted here to the north under HWY83 and then flows east along the highway to provide irrigation water to the northern half of Corinne. The second diversion point has the headgate name "55B" and is on the northwest corner of the Country Meadows Subdivisions. This diversion takes the water east and south to provide irrigation water to the southern half of Corinne.

Corinne is given 2 turns on the irrigation system. The western diversion is allowed to divert 1.90 cfs and has the water from Thursday at 5:50 PM to Tuesday at 8:21 AM. The eastern diversion is allowed to divert 3.17 cfs and has the water from Monday at 5:56 PM to Thursday at 12:11 PM. The majority of Corinne has access to secondary irrigation except for the Country Meadows subdivision, which has approximately 65 single family residential homes.

SECTION 3 | WATER USE

3.1 CURRENT AND FUTURE WATER USE

The projection of a city's population is an integral part of a water conservation plan. With an appropriately determined growth rate, it is possible to estimate the future population and subsequent culinary water flow rates, supply needs, storage capacities, water right limits, and additional key elements that need to be accommodated by the city's culinary water system.

Historic census data and the Corinne City General Plan were initially used to determine a proper growth rate for Corinne. From 2000 to 2010, the city experienced a 0.99% growth rate. From 2010 to 2020, the city experienced a 1.68% growth rate. After comparing these growth rates to the current trend in building permits of an average growth rate of 3.9% over the last five years, it was recommended that a growth rate of 1.75% be used.

With data from the most recent census, completed in April 2020, it has been estimated that Corinne has an average household size of 2.8 people. According to QuickFacts from the U.S. Census Bureau, the population of Corinne in 2020 was 809. **Table 3.1** provides the census data over the past six decades and their associated growth rates from the previous decade. **Table 3.1.1** illustrates the projected population for Corinne. The population projection data is based on the recommended growth rate from the Corinne City Water Master Plan completed in January 2024.

Table 3.1 Census Population Data

<i>Year</i>	1970	1980	1990	2000	2010	2020
<i>Pop</i>	471	512	639	621	685	809
<i>Growth Rate Forward</i>	-0.79%	0.84%	2.24%	-0.29 %	0.99%	1.68%

Table 3.1.1 Population Projection Data

<i>Year</i>	2020	2022	2027	2032	2037	2042
<i>City Total Pop</i>	809	838	913	996	1087	1185

In addition to the census data, it is important to note the rate at which homes and businesses are being built. The total number of building permits issued between 2017 and 2022 is shown in **Table 3.1.2**.

Table 3.1.2 2017-2022 Building Permits Issued

<i>Year</i>	<i>Residential</i>	<i>Commercial</i>	<i>Total</i>
2017	4	0	4
2018	7	0	7
2019	16	2	18
2020	14	1	15
2021	1	1	2
2022	5	0	5
Total	47	4	51

If the number of projected system connections associated with the projected population is reached earlier or later than projected, the timeline for future improvements to support growth will need to be adjusted accordingly.

3.2 EQUIVALENT RESIDENTIAL UNITS & EQUIVALENT POPULATION

An Equivalent Residential Unit (ERU) is defined as the average monthly culinary water demand by a residential unit or single-family dwelling. This unit is commonly used as an index to compare the water demand of non-residential connections to that of residential connections.

Existing connections in Corinne consist of four classifications of water connections: Residential, ¾" or 1" Commercial, 1 ½" Commercial, and 2" Commercial. **Table 3.2** provides the various classifications of the current existing connections. Corinne also has 11 unmeted connections.

Table 3.2 Existing Connections and Average Water Demands

Water User Type	Water Connection Type	# of Connections	Annual Average (gal/day)	Indoor Average (gal/day)	Outdoor Average (gal/day)
Residential	3/4" or 1" METER	323	328	185	256
Commercial	3/4" or 1" METER	27	280	326	71
Commercial	1 1/2" METER	4	3616	1457	3359
Commercial	2" METER	3	1964	1178	1288
Total		357			

According to the city's most recent culinary water master plan completed in 2024, the typical residential home in Corinne has an average indoor use of 185 gallons/day annually with an average outdoor use of 256 gallons/day in the summer. For comparison, the estimated average indoor usage in the state of Utah is approximately 400 gallons/day and the estimated average for outdoor use is 1,008 gallons /day (assuming a ¼ acre of irrigated ground) per water connection.

With the establishment of the average demand of a typical residential house (ERU), the other types of connections can then be compared to a typical ERU to determine the impact of non-residential water users and larger connections. The annual averages of these connections are used to determine the ERU value for the various connection types. **Table 3.2.1** presents the resulting ERU Evaluation of the various types of connections and their corresponding sizes.

Table 3.2.1 ERU Evaluation

Water User Type	Water Connection Type	Number of Connections	Number of ERUs	ERU Value
Residential	3/4" or 1" METER	323	323	1
Commercial	3/4" or 1" METER	27	24	0.9
Commercial	1 1/2" METER	4	45	11.0
Commercial	2" METER	3	18	6.0
Total		357.00	410.00	

An ERU value equates a non-typical water connection to how many typical residential homes it represents. For example, a Commercial 2-inch water connection will use the same amount of water as 6 typical residential homes on average.

ERU's can be broken down into two categories: residential (single family homes and multi-family units) and commercial (anything non-residential). The existing number of ERUs, average household size, and equivalent population are given in **Table 3.2.2**.

Table 3.2.2 Existing ERUs

Residential	Commercial	Total	Average Household Size	Equivalent Population
323	87	410	2.8	1148

3.3 PROJECTED EQUIVALENT RESIDENTIAL UNITS AND POPULATION

Future culinary water connections are anticipated to closely follow the population growth rate over the next 20 years. Using the respective growth rates determined for Corinne, future ERU totals for the planning period were calculated with exponential growth equations. Equivalent populations for these years were subsequently calculated using the projected ERUs and average household size.

These metrics for projected ERUs and equivalent population for the planning period are summarized in **Table 3.3**. **Figure 4** provides a comparison illustration of the various growth projections for Corinne and their impact on the ERU count for the city. The selected growth project is the 1.75% growth as described in **Section 2.2**.

Table 3.3 ERU Projections

Year	2022	2032	2042
Total Residential	323	384	457
Total Commercial	87	103	123
City Total	410	488	580
Equivalent Population	1148	1359	1608

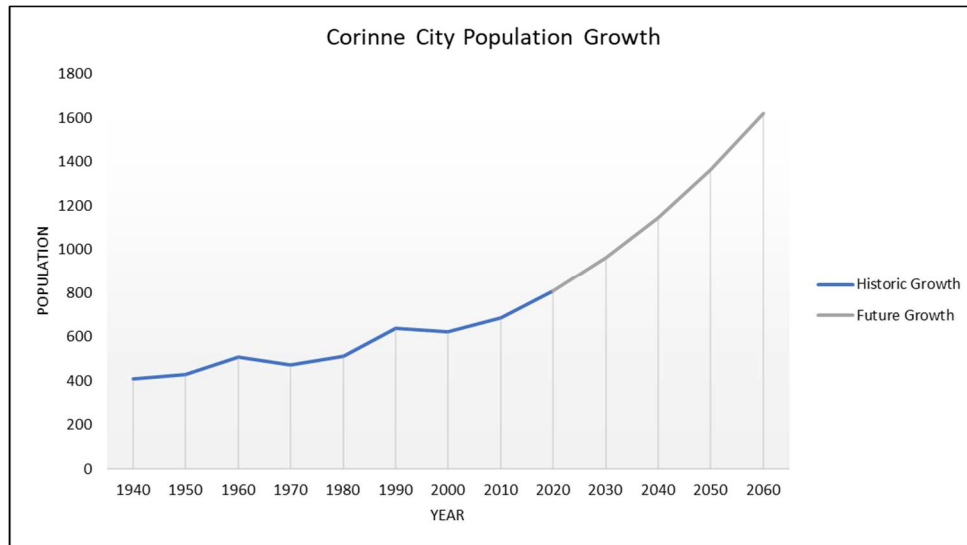


Figure 4. Corinne City Population Growth Projections

An average home in Corinne uses 328 gallons per day throughout the year and represents the water consumption of a single ERU. Corinne currently has 410 ERU's which equates to an average day demand of 134,480 gallons per day. Illustrated in **Figure 5** is the monthly average water consumption in gallons per day. This figure shows data from 2019 to 2022 represented by color-coded vertical bars. The red horizontal line represents the yearly average of 134,480 gallons per day. This figure shows a clear seasonal trend in consumption with high summer peaks attributed to outdoor use, primarily for landscape irrigation.

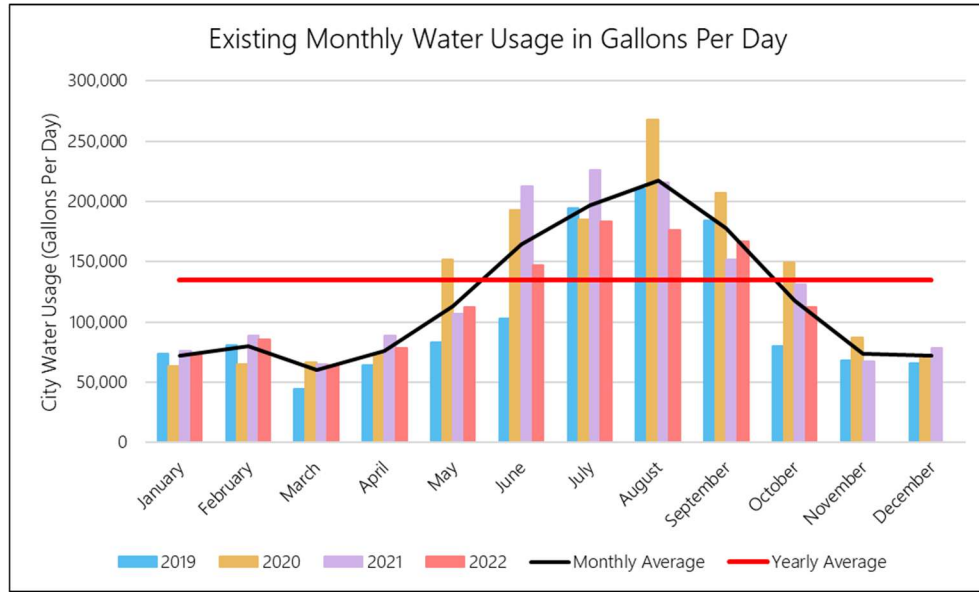


Figure 5. Existing Monthly Water Usage

Based on readings from Corinne’s master water meter, a water use curve was developed as shown in **Figure 5**. Readings showed high use from 2005 to 2011 and lower use in the years proceeding. Before 2012, Corinne would fill their storage tank, and the overflow would continue to be metered. For this reason, early water meter data is higher than in later years. Corinne improved their valve and metering structure in 2012 so overflow would not be metered. The average capita per day use is 256 GPCD.

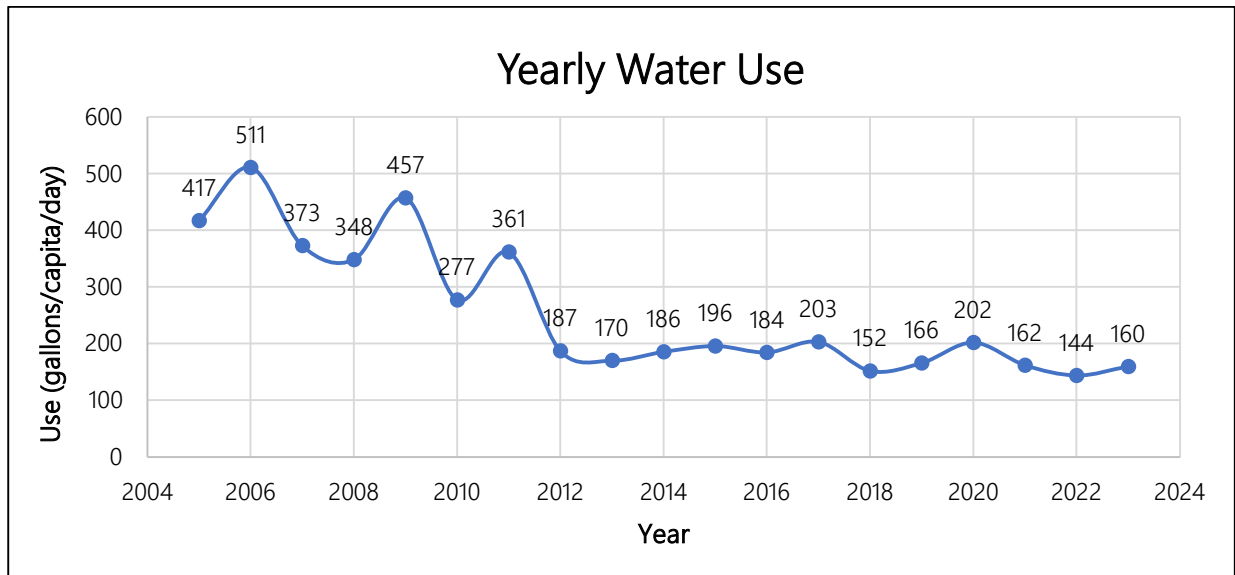


Figure 6. Historic Water Usage

SECTION 4 | BILLING

4.1 WATER MEASUREMENT AND BILLING

Currently Corinne utilizes a tiered user rate structure for billing. Provided in **Table 4.1** is a summary of the current user rates and provided in **Table 4.1.1** is a summary of connection fees. This billing system is designed to encourage water conservation by financially incentivizing reduced consumption. Additionally, the tiered pricing model allows Corinne to ensure the financial stability of its water system while creating a culture of responsible water use.

Table 4.1 Summary User Rates

Connection User Rates					
	Base Rate	1st Excess Tier	2nd Excess Tier	3rd Excess Tier	4th Excess Tier
Rate	\$57.00	\$1.50/1000 gallons	\$3.00/1000 gallons	\$5.00/1000 gallons	\$7.00/1000 gallons
Quantity	15,000 gallons	15,001-20,000 gallons	20,001 - 30,000 gallons	30,001 - 50,000 gallons	50,001 gallons and up

Table 4.1.1 Summary of Current Connection Fees and Impact Fees

Connection Size	Connection Fee	Impact Fee Per ERU
3/4" Connection	\$2,300	\$19,350
1" Connection	\$2,600	\$19,350
1 1/2" Connection	\$5,000	\$29,025
2" Connection	\$5,000	\$38,700

SECTION 5 | SYSTEM WATER LOSS

5.1 SYSTEM WATER LOSS

Table 5.1 below shows the population, total water diverted, total water used, and the estimated percentage loss. This data was drawn from the Utah Division of Water Rights through the public water supplier information. Water loss data from 2009 to 2012 is inaccurate due to the metering of tank overflow as described in Section 3.3. Corinne has attempted to reduce water loss by completing regular system maintenance including prompt leak repairs, flushing and exercising valves and hydrants, and conducting visual inspections of above-ground infrastructure.

Table 5.1 Water Loss Data

Year	Total From Sources (ac-ft)	Total Retail Use (ac-ft)	Total Wholesale (ac-ft)	Total Returns (ac-ft)	Estimated Water Loss (%)
2024	176.65	134.97	0	0	23.6
2023	155.16	127.31	0	0	17.95
2022	137.59	126.28	0	0	8.23
2021	156.06	141.11	0	0	9.58
2020	183.21	148.13	0	0	19.15
2019	140.86	123.68	0	0	12.2
2018	137.51	130.37	0	0	5.2
2017	164.64	119.67	0	0	27.31
2016	145.16	113.55	0	0	21.78
2015	152.63	145.75	0	0	4.51
2014	139.58	136.83	0	0	1.97
2013	109.58	131.56	0	0	-20.06
2012	126.15	169.96	0	0	-34.73
2011	274.47	104.59	0	0	61.89
2010	212.62	126.93	0	0	40.3
2009	364.28	107.94	0	0	70.37

SECTION 6 | CONSERVATION PRACTICES

6.1 WATER CONSERVATION GOAL

Corinne has chosen to adopt the regional water conservation goal as their goal: 18% reduction in GPCD use by 2030. This goal was established by the Utah Department of Natural Resources Water Resources division. This goal would be achieved incrementally over the next five years, with capita water use targets decreasing from the current baseline of 256 GPCD to approximately 246.8 GPCD in 2026, 237.6 GPCD in 2027, 228.4 GPCD in 2028, 219.2 GPCD in 2029, 210 GPCD in 2030. Water conservation progress will be tracked using data from meters.

6.2 CURRENT CONSERVATION PRACTICES

Currently, there are no conservation practices in place other than quick detection of leaks and breaks. Conservation of water is encouraged in meetings and discussions but not planned for. The tiered system for connection user rates brings added financial consequence to increased usage, but no initiatives for water conservation are in place.

6.3 FUTURE CONSERVATION MEASURES – BEST MANAGEMENT PRACTICES

Corinne will implement the following measures to achieve their conservation goal:

- **Public Information Programs:** Engage residents through outreach initiatives that promote water-saving methods and best practices. Utilize messaging through the Slow the Flow Initiative.
- **Conservation Ordinances:** Enforce ordinances requiring the use of water-wise landscaping and secondary water in new developments to minimize culinary water use.
- **Water System Audits:** Conduct systematic audits of the water system, including plans to replace aging infrastructure such as piping, pumps, boosters, and meters. Conduct spot checks for meter leaks and PRV leaks.
- **Water Conservation Coordinator:** Assign a dedicated coordinator within the public works department to oversee the city's conservation efforts.
- **Rebates and Rewards:** Promote rebates for highly efficient landscaping, fixtures, irrigation systems, and landscape conversions within the service area.

6.4 IMPLEMENTATION PLAN

A Water Conservation Committee has been organized in Corinne to be responsible for overseeing the implementation of the Water Conservation Plan. The committee members meet semi-annually. The committee will also oversee the update and re-submittal of the plan as required by the Division of Water Resources. The committee is made up of the public works director and city council member assigned to the water system.

REFERENCES

- Corinne City Culinary Water Master Plan. Corinne City. January 2024.
- https://datacommons.org/tools/timeline#&place=geold/4915830&statsVar=Count_Person
- Corinne Wastewater Master Plan
- https://www.waterrights.utah.gov/asp_apps/viewEditPWS/pwsView.asp?SYSTEM_ID=1175

CERTIFICATION OF ADOPTION

I, Shane Baton, Mayor of Corinne City hereby certify that the Conservation Plan has been established and adopted by our city council members, on _____, 2025.

Name: Shane Baton

Title: City Mayor

Date:

Appendix A

Regional Conservation Goals

Regional Conservation Goals

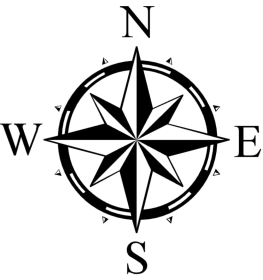
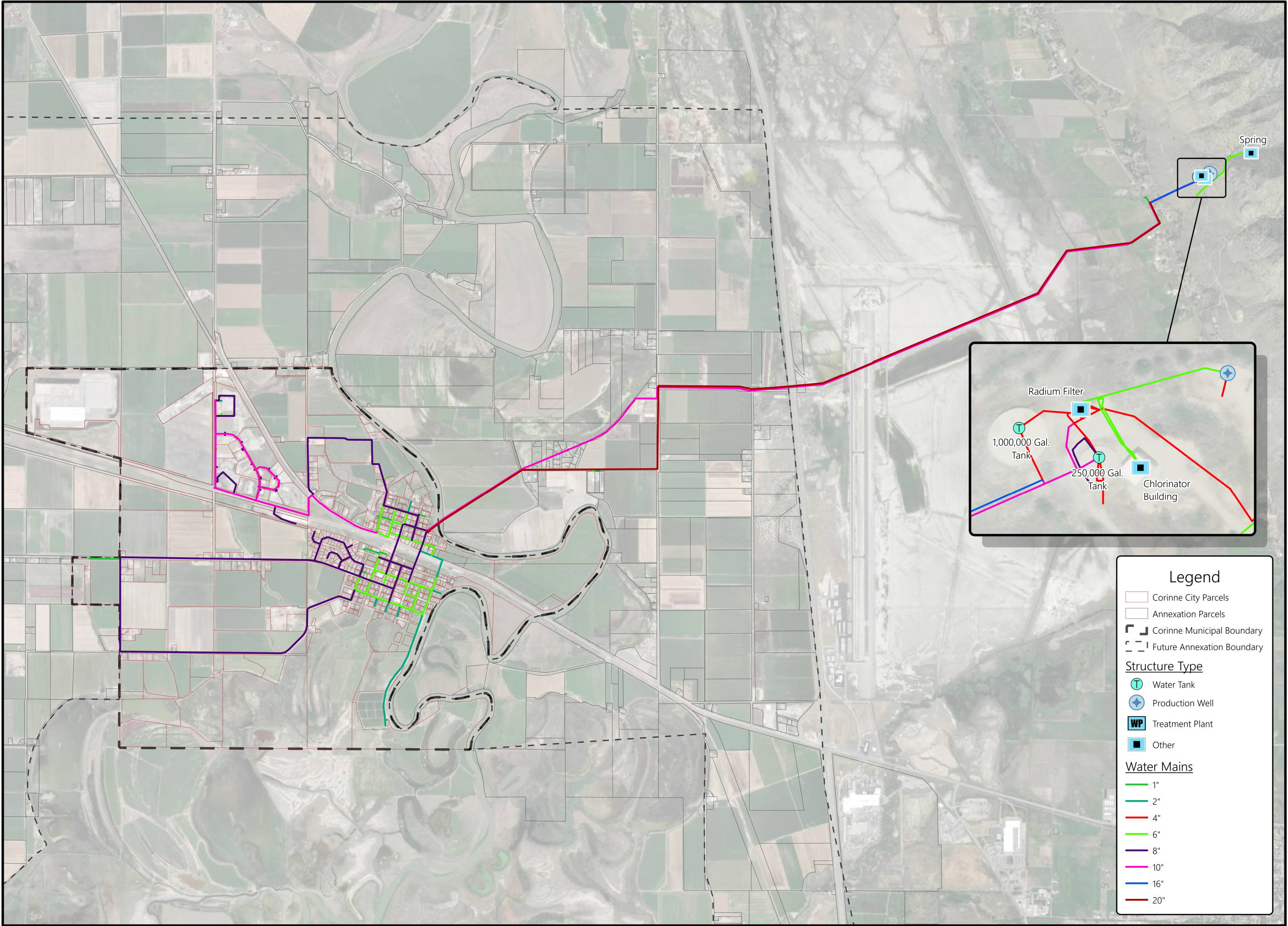
County-Level M&I Water Conservation Data

Regions/ Counties	Baseline (gpcd)	2030	2040	2065	Reduction from Baseline		
	2015	Goal (gpcd)	Projection (gpcd)	Projection (gpcd)	2030	2040	2065
Bear River							
Box Elder	318	266	249	236	17%	22%	26%
Cache	284	233	217	204	18%	24%	28%
Rich	1,275	984	918	909	23%	28%	29%
Green River							
Daggett	423	343	314	307	19%	26%	27%
Duchesne	327	267	254	254	18%	22%	22%
Uintah	256	212	205	206	17%	20%	19%
Lower Colorado River North							
Beaver	553	390	360	356	30%	35%	36%
Garfield	582	463	432	429	20%	26%	26%
Iron	223	193	182	173	13%	19%	23%
Lower Colorado River South							
Kane	358	304	289	282	15%	19%	21%
Washington	302	260	246	236	14%	19%	22%
Provo River							
Juab	373	292	280	284	22%	25%	24%
Utah	214	172	155	145	20%	27%	32%
Wasatch	344	265	249	249	23%	28%	28%
Salt Lake							
Salt Lake	210	186	178	169	11%	15%	19%
Tooele	224	195	184	176	13%	18%	21%
Sevier River							
Millard	522	422	398	397	19%	24%	24%
Piute	391	341	322	325	13%	18%	17%
Sanpete	366	272	250	252	26%	32%	31%
Sevier	363	322	312	317	11%	14%	13%
Wayne	537	412	381	388	23%	29%	28%
Upper Colorado River							
Carbon	267	239	230	230	11%	14%	14%
Emery	569	376	337	333	34%	41%	41%
Grand	309	282	272	267	9%	12%	13%
San Juan	199	180	175	177	11%	14%	13%
Weber River							
Davis	235	188	170	161	20%	28%	32%
Morgan	238	187	179	186	22%	25%	22%
Summit	341	300	290	286	12%	15%	16%
Weber	256	202	184	175	21%	28%	32%
Statewide	240	202	188	179	16%	22%	26%

Note M&I = municipal and industrial; gpcd = gallons per capita per day based on permanent population. Reported per-capita use includes all residential, commercial, institutional, and industrial uses averaged over the permanent population in each region.

Appendix B

Area Map



Corinne City Culinary Water System

EXHIBIT: 1.1

Legend

- Corinne City Parcels
- Annexation Parcels
- Corinne Municipal Boundary
- Future Annexation Boundary

Structure Type

- Water Tank
- Production Well
- Treatment Plant
- Other

Water Mains

- 1"
- 2"
- 4"
- 6"
- 8"
- 10"
- 16"
- 20"



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