



Kaysville City Public Works
721 W Old Mill Ln
Kaysville, UT 84037

Mayor: Katie Witt
Director: Josh Belnap
Water Manager: Jared Tubbs
Water Conservation Coordinator: Gary Garner

Water Conservation Plan - 2019

System and Usage Information

Kaysville City Water (ID 06006) is a division of Kaysville City Public Works. As a retail water provider, it supplies drinking (culinary) water to a population of approximately 31,117 people, by way of 8,207 domestic metered connections (residential), 451 commercial metered connections and 68 institutional metered connections (schools, churches etc.). In total, Kaysville maintains 8,726 metered connections over a service area of over 11 square miles.

Current projections show a build-out date for Kaysville City of 2040, with an estimated population of 39,121 people. Based on those projections and current usage patterns, that would equate to a total annual consumption of 3,196 acre-feet of water per year, the equivalent of 26,618 gallons per person, per year.

Historically, Kaysville City consumes less water than what the State requires for minimum supply and capacity in R309-510 of the Utah Administrative Code. The following table outlines usage for 2008-2018 for the City.

Year	Total Yearly Usage (acre-feet)
2008	2,518
2009	2,331 (↓ 187)
2010	2,273 (↓ 58)
2011	2,286 (↑ 13)
2012	2,257 (↓ 29)

2013	2,605 (↑ 348)
2014	2,320 (↓ 285)
2015	2,303 (↓ 17)
2016	2,491 (↑ 188)
2017	3,050 (↑ 559)
2018	2,228 (↓ 822)
Average Annual Use	2,423
Average Annual Increase/Reduction	↓ 29

This table shows an average annual consumption of 2,423 acre-feet per year, in that period. Although there were a few significant increases in usage from one year to the next, those increases seem to be an anomaly, or at least not directly correlated with growth, as there has been an average decrease in total annual usage of 29 acre-feet, over the last 10 years – as compared to a population increase of roughly 20% in that same time. These anomalies could be related to construction, leisure, system leaks, system flushing etc.

Currently, treated water purchased from the Weber Basin Water Conservancy District (Weber Basin) is the sole source for all Kaysville City culinary water. The City has three metered connections along Weber Basin’s culinary aqueduct, which the City draws from for delivery into its system. The City’s current contract with Weber Basin is for 2,786 acre-feet per year, with an ability to peak at a rate of 3,100 gallons per minute, which has typically been sufficient. The City also receives a water credit from Weber Basin in exchange for water diverted to Weber Basin from Holmes Creek.

Level of Service and Future Supply

The existing source level of service for Kaysville City is the average of the used Weber Basin contract, including the water credit received from Holmes Creek, divided by the total number of current equivalent residential connections (ERCs) for Kaysville City.

By using this approach, the level of service for source water is multiplied by the projected number of ERCs at build-out to determine the future source needed, which is an estimated future consumption of 3,196 acre-feet per year.

Water Conservation Measures and Impact

With concern for the limited and precious resource that is water, Kaysville has utilized various measures to encourage conservation and increase awareness amongst its customers. Combining the information in the table above, with continued emphasis on water conservation, as detailed below, it is estimated that total annual usage at build-out could possibly be reduced to as much as 2,800 acre-feet, the equivalent of 23,320

gallons per person, per year. This decrease would be a significant reduction, and would also help in Kaysville City's goal to support the Governor's efforts of a 25% statewide reduction by 2025.

The measures below are meant to help increase awareness and eliminate or limit excessive use. It should be noted that while conservation and reduction are extremely important and beneficial, reductions can also have potential detrimental effects as well. For example, pipe diameters are sized based in part on the state minimum requirements mentioned above, as well as population size and density, intended use, topography and geographic location. If usage is too high, storage volumes and/or pressures may be insufficient. However, if usage is too low, water may flow at lower velocities through the pipes or stay in the piping for longer periods of time, potentially decreasing water quality.

The following measures and practices will help to educate the City and its water users on how to decrease, or even eliminate, wasteful practices or inefficiencies:

- (A) The installation of water efficient fixtures and appliances in new or re-construction (Section 604 of the International Plumbing Code) is required. These fixtures use mechanical means to help use less water for the same previous applications.
- (B) The vast majority of irrigation is provided by secondary irrigation companies (non-treated water). The City does have some users or locations, though, where culinary water is used (under the requirements of State and City code) for irrigation purposes. In these instances, the City will encourage any new or existing users to avoid overwatering by making changes to irrigation devices, frequency and duration etc. In addition the City will encourage these users to adopt water conservation techniques for landscaping, such as xeriscape, planting drought tolerant or native plant varieties or limiting the amount of turf etc. There is an abundance of resources and information available from Weber Basin Water Conservancy District, Jordan Valley Water Conservancy District, the USU extension and others. The City will inform, educate and share these sources with these users, as well as the general population. Benefits of conservation will not only apply to City Water usage, but to that of the secondary irrigation companies as well.
- (C) The City shall continue to support the local secondary irrigation companies in their ongoing pursuit of grants for, and efforts to install, meters on their service connections. These meters help to not only more accurately detail and track individual usage, but to also locate inefficiencies in their systems.
- (D) In 2018, Kaysville City Water initiated the install of newer, more accurate digital water meters at all service connections. This AMI project has not only drastically improved efficiencies, but has also allowed for a more accurate account of water usage, including the potential to identify and eliminate system inefficiencies. The City will continue to require these devices on all new construction, and replace meters as they approach the end of their service life.

- (E) The City will require separate meters for new multiple user commercial and residential sites, to better identify and eliminate inefficient processes or excessive use. When multiple homes or businesses utilize a shared meter, it is difficult to determine where excess or inefficiency may be coming from.
- (F) The City will use less water in its internal processes. For example, designated sites within the City will be evaluated for the careful and approved use of culinary water for irrigation to assist with water circulation and quality efforts. This way, the landscaping needs are met, the flushing needs are assisted, and there can be less water lost in the storm drains from flushing fire hydrants (flushing helps to increase circulation and/or reduce the amount of time water spends in the pipes).
- (G) Demand and usage of City water can be decreased for users like the pasta mill and the sewer plant, by encouraging the reuse of both potable and non-potable water for their processes.
- (H) Early detection of distribution system leaks and/or making timely repairs will reduce water losses. Making upgrades to the system or replacing aging infrastructure not only safeguards water quality, but it also conserves water and can save money in the long run.
- (I) The City will continue to disseminate public information regarding conservation resources and more efficient uses via City newsletters, social media and the City web site. In addition, the City will continue to utilizing more face to face educational opportunities. Public Works currently visits elementary schools throughout town every year to talk about the importance conservation and water quality. Opportunities like "Kaysville University" allow attendees to see various City operations first-hand, and to ask questions.
- (J) Continue the use flat and increasing block rate structures to encourage more efficient use of water. The City works with industry professionals, consultants and elected officials to help ensure that rates are adequate for the durability of the system and its delivery.
- (K) Update standards, construction and development requirements, and codes/ordinances, where applicable, to reflect the measures above.

Adopted December 5th, 2019 by the Kaysville City Council



Katie Witt, Mayor



MEETING NOTICE AND AGENDA

Notice is hereby given that the Kaysville City Council will hold a regular council meeting on Thursday, December 5, 2019, starting at 7:00 p.m. in the **Business Resource Center of the Davis Technical College, 450 South Simmons Way, Kaysville, UT.**

CITY COUNCIL MEETING – 7:00 P.M.

The agenda shall be as follows:

1. OPENING
 - a. Provided by Council Member DeCaire.
2. DECLARATION OF ANY CONFLICTS OF INTEREST
3. CONSENT ITEMS
 - a. Approval of the Minutes of the October 30, 2019 meeting.
 - b. Approval of the Minutes of the November 7, 2019 meeting.
 - c. Approval of the Minutes of the November 14, 2019 meeting.
 - d. Approval of crew truck purchase for the Public Works Department.
4. ACTION ITEMS
 - a. Adoption of Kaysville City Water Conservation Plan.
5. CALL TO THE PUBLIC (3 MINUTE LIMIT, MUST SIGN UP IN PERSON)
6. COUNCIL MEMBER REPORTS
7. CITY MANAGER REPORT
8. ADJOURNMENT

Kaysville City is dedicated to a policy of non-discrimination in admission to, access to, or operations of its programs, services or activities. If you need special assistance due to a disability, please contact the Kaysville City Offices at (801) 546-1235.

I hereby certify that I posted a copy of the foregoing Notice and Agenda at City Hall (80 North Main Street) and emailed copies to media representatives on November 27, 2019.

Annemarie Plaizier
City Recorder

KAYSVILLE CITY COUNCIL

December 5, 2019

Minutes of a regular Kaysville City Council meeting held on December 5, 2019 at 7:00 p.m. in the Business Resource Center of the Davis Technical College at 450 South Simmons Way, Kaysville, UT.

Council Members present: Mayor Katie Witt, Council Member Dave Adams, Council Member Larry Page, Council Member Jake Garn, Council Member Michelle Barber, and Council Member Stroh DeCaire.

Others Present: City Manager Shayne Scott, City Attorney Nic Mills, Deputy City Recorder Maria Devereux, Information Systems Manager Ryan Judd, Police Chief Sol Oberg, Monte DeBerry and Dean Wall.

OPENING

Council Member DeCaire led the audience in reciting the Pledge of Allegiance and gave the opening prayer.

DECLARATION OF ANY CONFLICTS OF INTEREST

No conflicts were disclosed.

CONSENT ITEMS

Council Member DeCaire made a motion to accept the following consent items: Approval of items a., b., and c., the Minutes for the October 30th, November 7th, and November 14th, 2019 City Council Meetings and item d. Approval of the crew truck purchase for the Public Works Department, second by Council Member Page.

Council Member Adams made a substitute motion to remove item d. Approval of the crew truck purchase for the Public Works Department, and to discuss and vote on that item separately, second by Council Member Barber.

The vote on the substitute motion for Items a., b., and c., was as follows:

Council Member Adams, yea
Council Member Page, yea
Council Member Garn, yea
Council Member Barber, yea

Council Member DeCaire, yea

The motion passed unanimously.

Council Member Adams questioned the validity of the F350 truck purchase, he noted that he is concerned with the financing since he does not see that the vehicle was in the budget.

Shayne Scott, City Manager noted that the vehicle purchase line item is in the budget. He explained that the Finance Director can give details and the Council may make a motion to approve the purchase or table the item for additional information.

Council Member Adams made a motion to table item d., until the next City Council meeting when questions about the Public Works vehicle purchase, including budget details, can be answered fully, second by Council Member DeCaire.

The vote on the substitute motion for consent item d., was as follows:

Council Member Adams, yea
Council Member Page, yea
Council Member Garn, nay
Council Member Barber, yea
Council Member DeCaire, yea

The motion passed four to one.

ACTION ITEMS

ADOPTION OF KAYSVILLE CITY WATER CONSERVATION PLAN

Council Member DeCaire made a motion to adopt the Kaysville City Water Conservation Plan as presented, second by Council Member Page.

The vote on the motion was as follows:

Council Member Adams, yea
Council Member Page, yea
Council Member Garn, yea
Council Member Barber, yea
Council Member DeCaire, yea

The motion passes unanimously.

CALL TO THE PUBLIC

Dean Wall noted that he appreciates Council Member Adams and his concern for fiscal responsibility.

Monte DeBerry explained that fiscal responsibility is important and appreciates the council being aware.

COUNCIL MEMBER REPORTS

Collectively the City Council Members Adams, DeCaire, Page and Garn expressed their appreciation for the City, and being able to serve the residents of Kaysville.

Mayor Witt expressed appreciation for working with Council Members Adams, DeCaire, Page and Garn and thanked them for their years of service to the City. She noted that the new council will take the oath of office in January.

ADJOURNMENT

Council Member DeCaire made a motion to adjourn the meeting at 7:40 p.m., second by Council Member Page and passed unanimously.