



WEBER BASIN WATER
CONSERVANCY DISTRICT

2016 Summary

General Manager's Message

The pages contained herein illustrate the good work of our employees and Board of Trustees on behalf of the communities in five Northern Utah counties. As the regional water supplier within the Ogden and Weber River drainages, we are privileged to provide a wide variety of water supplies ranging from agricultural to culinary drinking water. My thanks to our many expert employees who contribute daily to the reliable and high quality water supplies we provide to a wide variety of customers.

2016 was the fifth year of significant drought conditions in Northern Utah. Despite this, our facilities and practices provided another year of dependable water supply across the spectrum of public need. Further enhancing our reliability were projects such as completion of the A.V. Watkins Dam raise (Willard Bay Reservoir), a project that was 10 years in the approval, design, and construction process. We continue to update and refine water demand projections with careful study as we find new methods for enhancing our current supplies through conservation.

Our Board of Trustees continues to work together creating forward thinking ideas and supporting legislative actions such as the December 2016 U.S. Congressional prepayment approval for federal Weber Basin Project debt. We acknowledge the invaluable input we receive from federal, state, and local agencies, as well as good consultants and advisors.

I hope that a perusal of this annual summary will be indicative of the importance of a good water supply to all facets of our population. We fully intend to only heighten our service going forward.

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Tadge I. Flint, PE
General Manager/CEO
Mr. Flint has worked in the water industry for over 25 years. He is a registered professional engineer and resides in Davis County.

2016 Board of Trustees

The Board of Trustees is the governing body of the District and consists of representatives from Davis, Morgan, Summit and Weber counties. After receiving recommendations from the County Commissions, the Governor of the State of Utah appoints Trustees, who are then confirmed by the Senate. The Board appoints a General Manager who serves as the Chief Executive Officer of the District. The General Manager also serves as the Treasurer and Secretary of the District.

Kyle R. Stephens

Trustee, Davis County

Mr. Stephens was appointed to the Board to represent Davis County. He is the past Deputy Commissioner of Agriculture for the State of Utah and is very active in the community. Mr. Stephens served as President of the Board in 2016.



Dave Ure

Trustee, Summit County

The representative of Summit County, Mr. Ure is a rancher and past dairy farmer. He is currently Director of School and Institutional Trust Lands Administration and served in the Summit County Council and Utah House of Representatives for several years.



Kerry W. Gibson

Trustee, Weber County

Mr. Gibson represents Weber County. He owns and operates a large dairy in West Weber and a local convenience store. He was a three-term State Representative and is currently serving as a Weber County Commissioner.



John Petroff, Jr.

Trustee, Davis County

Mr. Petroff was appointed to represent Davis County. He is a successful private business owner. He also served as Mayor of West Point City and completed two terms of service as a Davis County Commissioner.



Jay V. Christensen

Trustee, Weber County

Appointed to the Board as a representative of Weber County, Mr. Christensen has many years' experience in the water industry and serves on various water boards. He also has a successful career with Great Salt Lake Minerals and is a past Plain City Council Member.



Kym O. Buttschardt

Trustee, Weber County

Mrs. Buttschardt was appointed to the Board to represent Weber County. She owns several successful local restaurants and is a CPA. She is an Ogden native who is very active in the community.



Dee Alan Waldron

Trustee, Morgan County

The representative from Morgan County, Mr. Waldron is a successful private business owner and farmer. He is a past Morgan County Commissioner and serves as a director on several local water boards.



Paul C. Summers

Trustee, Davis County

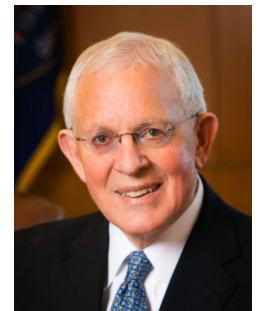
Mr. Summers represents Davis County. Before retirement, he spent 13 years with the Utah Division of Water Resources and 20 years in the engineering consulting business. He is a licensed civil engineer in the State of Utah.



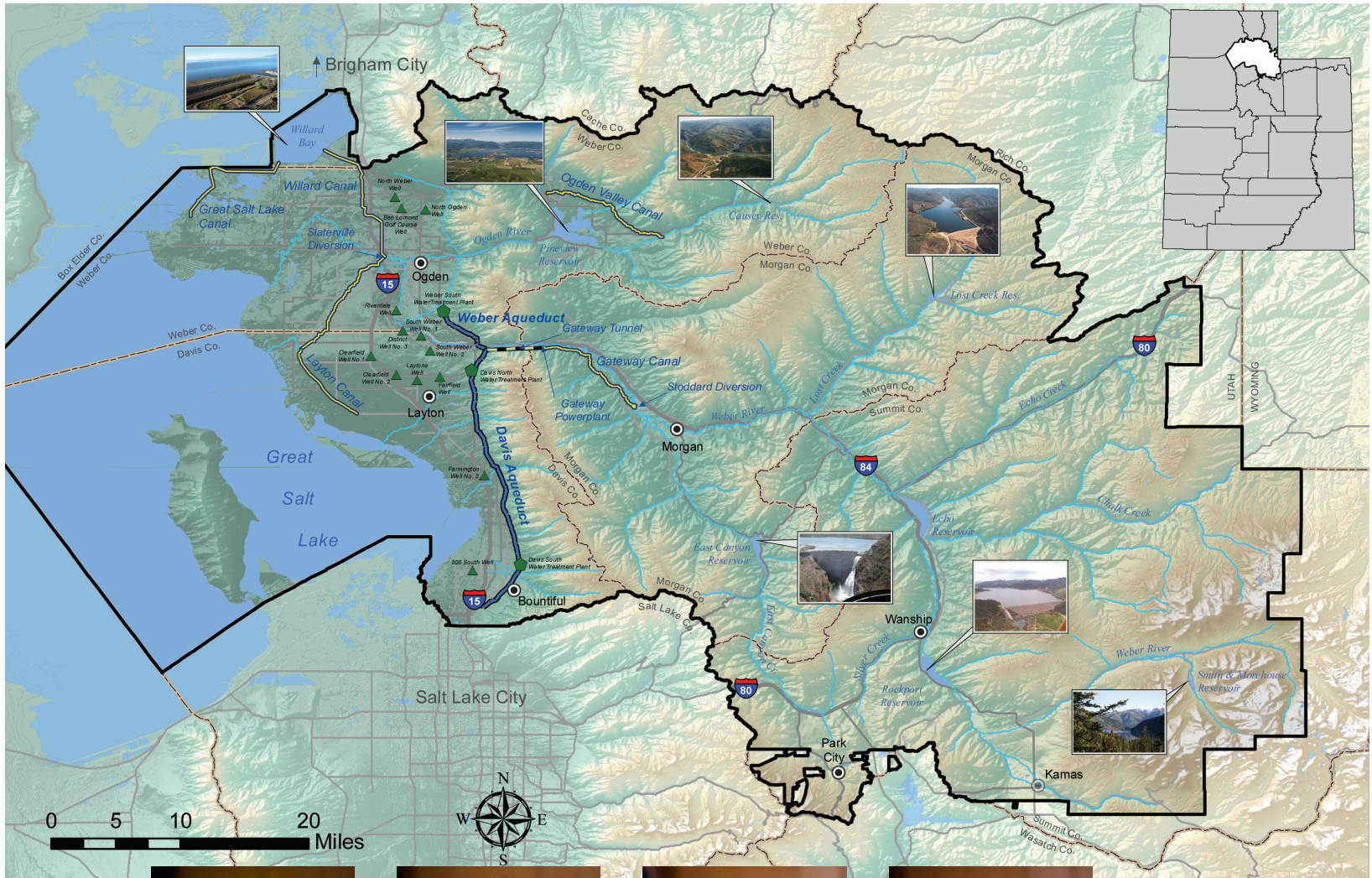
Marlin K. Jensen

Trustee, Weber County

Mr. Jensen represents the Ogden Valley area of Weber County. He is a retired attorney and participates in a family farming enterprise. He also serves as a member of the Utah State Board of Regents.



Weber Basin Water · Service Area Map



Executive Staff



Tage I. Flint, PE
General Manager/CEO



Scott W. Paxman, PE
Assistant General Manager



Mark D. Anderson, PE
Assistant General Manager



Darren E. Hess, PE
Assistant General Manager

Brittney Bateman
Programs Manager

Krysta Countryman
Administrative Specialist



Administration Department

Sherrie A. Mobley, Manager/CAO

Calysta Bravo, Accountant

Becky Delius, Purchasing Asst./RRA Specialist

Deena Harris, Customer Service Specialist

Kendall Searle, Contracts & Purchasing Asst.

The Administration Department is responsible for many District functions and is a key part of the successful operation of the District. It manages thousands of customer service calls each year by utilizing a work order management system that allows for better communication between the departments and has resulted in improved time management. This department oversees the Reclamation Reform Act, which is a federal law administered by the Bureau of Reclamation. The Administration Department continues to perform all accounting duties with precision. It also manages tens of thousands of water purchase contracts and assists other departments as needed.

2016 Water Contract Activity

The District supplies five categories of water to its customers including wholesale and retail agricultural irrigation, wholesale and retail secondary irrigation, treated municipal and industrial, untreated industrial and municipal, and groundwater replacement. During 2016, the District's total water sales reached 225,714 acre-feet. The diagram below shows the quantities sold of each category. The District's customers who purchase this water are listed on the following pages.

Wholesale and Retail Agricultural Irrigation: The District is a source of economical irrigation water purchased by irrigation companies and supplied to individual farmers in Box Elder, Davis, Morgan, Summit, and Weber counties. The District also delivers irrigation water directly to many farmers in those same areas.

Wholesale and Retail Secondary Irrigation: Many residents of Davis and Weber counties enjoy the use of Weber Basin water to irrigate their lawns and gardens. The District provides secondary water directly to many residents from Ogden to Woods Cross and wholesales to various water companies and districts that then retail to customers in their respective service areas.

Treated Municipal and Industrial: The District wholesales drinking water to almost every city and water improvement district in Davis and Weber counties. The District also supplies drinking water in Summit County and directly to some industries. Depending on the entity, either all or a part of their drinking water supply is provided by the District.

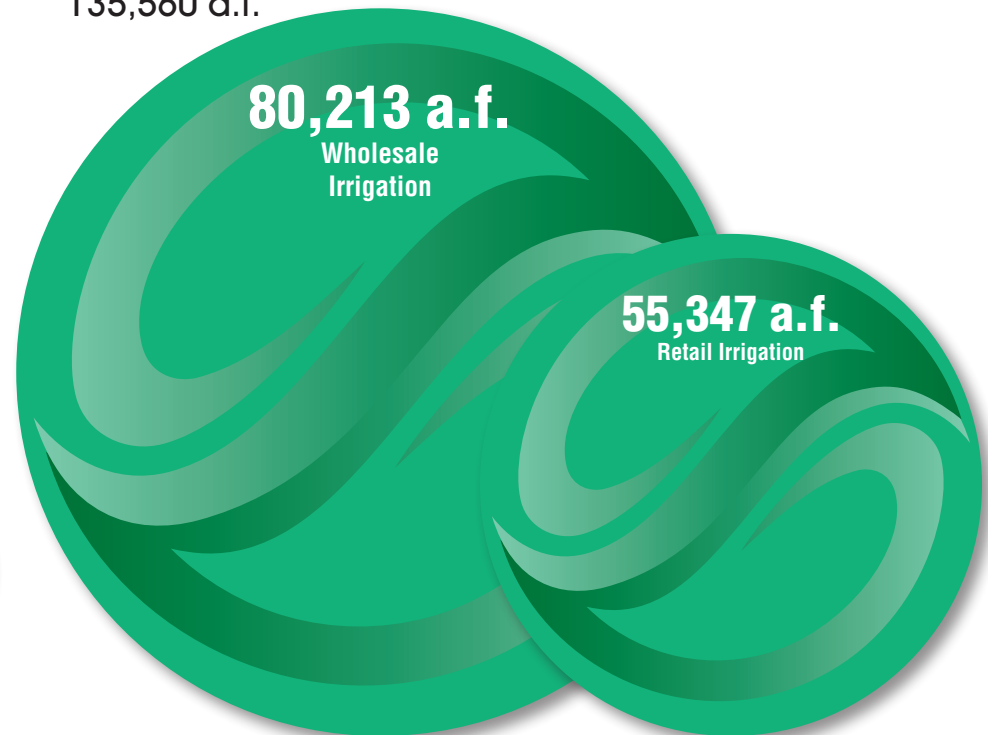
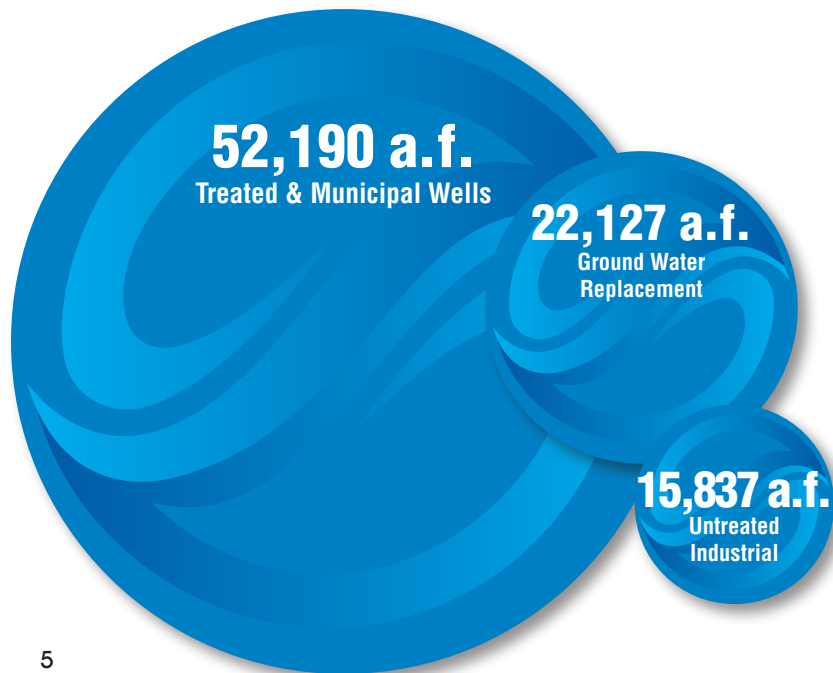
Untreated Municipal and Industrial: Many industries in Davis and Weber counties rely on water supplied by the District for their manufacturing, processing, and other uses. The District supplies water to entities in Summit County to treat for residential use.

Groundwater Replacement: Many residents within the District do not have access to a municipal or community water system and must depend on alternative sources for their domestic water. Additionally, some municipalities and public water systems located away from main waterways require groundwater for which no new appropriations are given. Utilizing District owned reservoir storage rights, drinking water purveyors, and individuals contract with the District for a water supply which, along with an approved exchange application from the State Division of Water Rights, permits drilling of a well to meet their needs.

2016 Water Contracts • 225,714 acre feet

Municipal
90,154 a.f.

Irrigation
135,560 a.f.





Human Resources Department

John K. Davis, Controller/CFO

Kathy Wood, Human Resource Specialist

The District ended the year with 88 full-time and two year-round part-time employees. Ten new employees were hired during the year who replaced employees leaving the District or filled new positions. One of the new positions, Human Resource Specialist, was filled by Kathy Wood who transferred from her Accountant position at the District. Among other things, Kathy was instrumental in implementing a new training program, starting a District recycling program, and enhancing the District's Wellness program.

Financial Information

Fiscal Year (FY) 2016 showed a 4.6% increase in Total Revenues from \$31,237,189 in FY 2015 to \$32,665,768 in FY 2016. The difference was due to an increase in water sales revenue of nearly \$2.4 million. The District expended more than \$12 million on capitol projects during FY 2016 with the bulk (-\$9.1 million) being spent on the two-foot raise of the AV Watkins Dam.

The District did not issue any bonds during FY 2016. All bond and loan obligations were met in a timely matter during the fiscal year, and the District's debt service coverage rate of 1.84 was well above the bond covenant rate of 1.25.

STATEMENT OF SOURCES AND USES OF FUNDS

Fiscal Year Ended June 30, 2016

REVENUE:

Water Sales	\$21,556,063
Taxes & Fee-in-Lieu of Taxes	9,484,366
Interest	587,641
Miscellaneous	1,037,698
Net Use of Loan/Bond Proceeds/Reserves	8,448,759
TOTAL REVENUE AND LOAN/BOND PROCEEDS/RESERVES	\$41,115,527

EXPENDITURES:

Water Payments, Assessments & Water Stock Purchases	\$985,640
Interest Expense	4,165,554
Operating Expenses	15,079,902
Utilities	786,896
Loan & Bond Payments	5,319,540
Capital Improvements	12,032,347
Added Reserves	2,745,648
TOTAL EXPENDITURES	\$41,115,527

STATEMENT OF NET POSITION

Fiscal Year Ended June 30, 2016

ASSETS:

Current Assets	\$51,986,640
Sinking Fund & Reserve Fund Assets	31,073,198
Property & Equipment (less accumulated depreciation)	275,893,961
Bond Interest - Deferred Outflows of Resources	1,524,466
TOTAL ASSETS	\$360,478,265

LIABILITIES & NET ASSETS:

Current & Other Liabilities	\$8,886,595
Long-Term Obligations	137,318,626
Bond Premium-Deferred Inflows of Resources	6,471,575
Pension Credit-Deferred Inflows of Resources	294,191
Refunding Credit-Deferred Inflows of Resources	597,185
Net Position	206,910,093
TOTAL LIABILITIES & NET ASSETS	\$360,478,265





Engineering Department

Jonathan Parry, PE, Manager

Gary Allen, SCADA Specialist

Mike Alverson, GIS & IT Supervisor

Lou Eddy, Inspector

Briant Jacobs, PE, Engineer

Jeff Morgan, Inspector

Riley Olsen, PE, Engineer

Greg Pierce, SCADA/Programming Supervisor

Troy Stout, PE, Engineer

Talon Thurgood, GIS/IT/Properties Mgmt. Specialist

The Engineering Department is responsible for ensuring the District's capability to efficiently meet existing and future water demands throughout the District's service area. This is accomplished through the completion of capital improvement projects involving District and Weber Basin Project facilities, in addition to the rehabilitation and maintenance of existing infrastructure. Additional tasks performed by the Engineering Department include subdivision reviews as new developments require the expansion of the District's existing secondary systems, management of all license agreements which are used any time another entity encroaches upon District or Bureau of Reclamation facilities, assisting in the procuring of federal grants in order to rehabilitate existing facilities and seismically retrofit them as necessary, and providing technical assistance to the other departments within the District as they perform their respective duties.



Photo Credit: Briant Jacobs

Introduction

This year the District continued work on the rehabilitation of District Well No. 2, the seismic retrofitting of District tanks, and the fencing of facilities throughout the District. The District designed and oversaw construction of standpipes along the Davis Aqueduct, the repair of multiple pipelines, the 12th Street Segment 1 pipeline upgrade and replacement, and the completion of Phase 4 of the Willard Canal Lining Project. The District also continued with the installation of new secondary water meters in Farmington City and on the Uintah Bench.

New construction consisted of the completion of the 3300 South and 4700 West pressurized irrigation lines in West Haven and the completion of the A.V. Watkins 2-Foot Dam Raise. The District has continued to work towards greater redundancy to the culinary system through both the rehabilitation and acquisition of new wells. Through an agreement with Sunset City, the District began efforts to rehabilitate one of the city's culinary wells to supplement existing District supplies.

The District has worked with various engineering consultants and contractors, as well as with District M&I, Water Supply & Power, and Maintenance personnel to complete these projects. These projects enable the District to increase water supply and water quality, raise the level of reliability, and improve the District's infrastructure to maintain a high level of service to our customers.



Photo Credit: Gary Allen



Photo Credit: Lou Eddy



District Well No. 2 Rehabilitation Project

This project included demolition of the existing District Well No. 2 building, construction of a new well pump station re-equipping the well and civil, mechanical, HVAC, and electrical improvements. The project also required the installation of a new 20-inch isolation butterfly valve on the main line entering the property, as well as replacement of an existing 24-inch butterfly valve located in an existing vault in South Weber Drive.





Photo Credit: Briant Jacobs



Photo Credit: Briant Jacobs

Seismic Retrofit of Weber South Water Treatment Plant Backwash Tank

The Weber South Water Treatment Plant backwash tank was originally constructed in 1955 and was identified in the District's Hazard Mitigation Plan as requiring seismic retrofits. These retrofits rectified seismic deficiencies with the inlet/outlet piping, inadequate foundation anchoring, and also provided the District an opportunity to have the interior and exterior coatings reapplied in order to extend the life of the tank by preventing corrosion induced failure of the steel. The District was able to obtain FEMA funding to assist in the design and construction costs associated with this project. Once completed these retrofits should provide a seismically resilient structure capable of providing continued service to District operations after a seismic event.

Gateway Canal Fencing Project

A stretch of approximately 2,500 feet of field fencing was installed along the north side of the Gateway Canal above Mountain Green. This fence installation will help protect this critical infrastructure by preventing unnecessary damage to the canal by cattle. It also prevents additional pollutants from entering the water and protects cattle that may otherwise fall into the canal and drown. Due to the difficult terrain in this area, the District's Maintenance Department prepared the site by cutting a shelf into the hillside on which to install the fence.

Davis Aqueduct Standpipe Construction

The District designed and constructed three standpipe structures along the Davis Aqueduct. Historically, air-vacuum valves were located in these locations but were identified as operating inadequately due to low operating pressures and freezing issues. Due to their poor performance, capacity in the aqueduct was reduced due to the entrapment of air within the pipe. This project eliminated the reliance on a mechanical device to release entrapped air and replaced it with a more reliable standpipe structure that does not require minimum pressures to operate effectively.

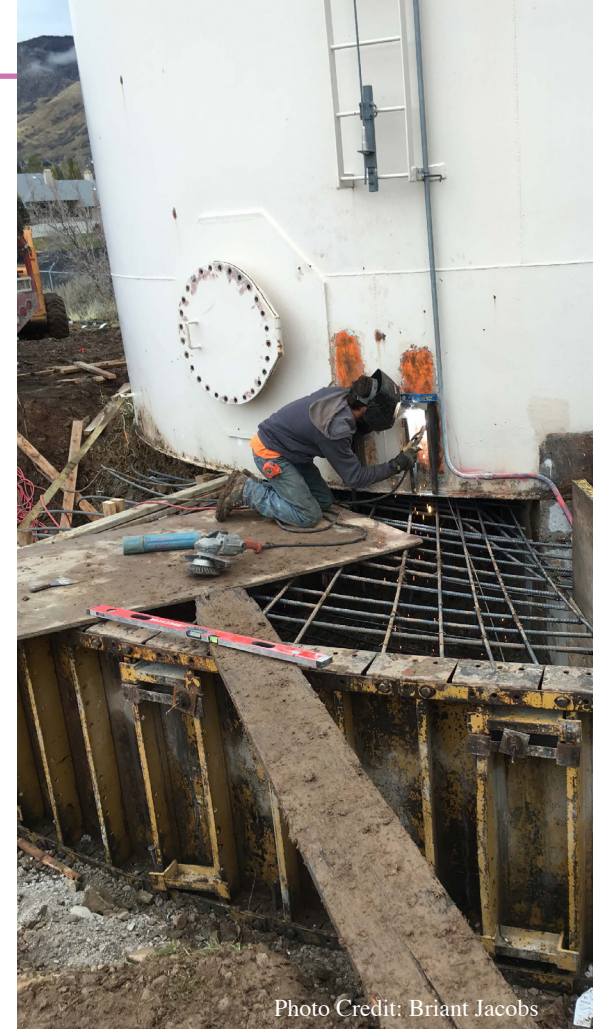


Photo Credit: Briant Jacobs





A.V. Watkins 2-Foot Raise

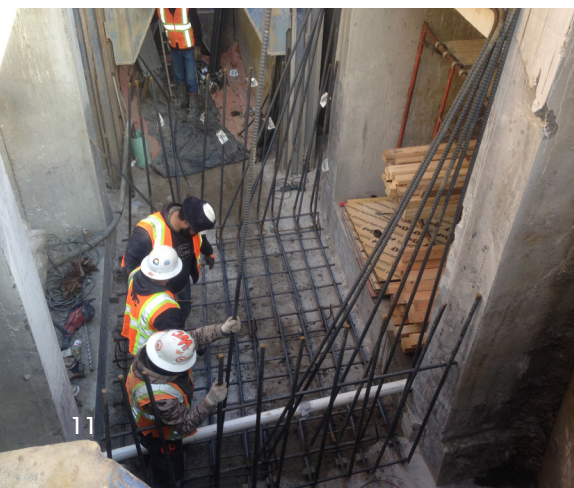
In 2007 the District, in cooperation with the Bureau of Reclamation, successfully prepared federal legislation for authorization to perform a Feasibility Study to Raise A.V. Watkins Dam. By 2014, Reclamation approval to proceed with a 2-Foot raise was obtained with the contingency that the District install a toe drain and construct an outlet filter.

Construction began in May of 2015 and was completed in March 2016. A total of 394,000 cubic yards of zone 2 earthfill was placed, along with 135,000 cubic yards of zone 1 earthfill, 71,400 tons of rip rap, and 6,600 cubic yards of gravel surfacing. All of the material utilized for this project, with the exception of the rip rap and gravel surfacing, was mined from land located on the north side of the dam that had been obtained for operations of A.V. Watkins Dam. The ability to mine both the granular and clay materials from the same 20 acre parcel of land resulted in significant reductions to the construction costs associated with this project as no material had to be hauled in from off site. The 2-foot raise to A.V. Watkins Dam created an additional 20,000 acre-feet of storage in Willard Bay Reservoir, allowing the District to store more water during years of excess.



Phase 4 Willard Canal Lining

The Willard Canal originates at the Slaterville Diversion Dam west of Ogden, extends 10.2 miles through Weber and Box Elder counties, and terminates at Willard Bay. Completed in 1964, the canal is roughly 30-feet wide, with a water depth of nine feet and carries water from the Weber River to Willard Bay at approximately 1,050 cubic feet per second. The District has previously completed three phases of this conservation project to line the canal with reinforced concrete for a total of 1.56 miles. Phase 4 encompasses a 2,054 lineal feet stretch from 200 South to 400 North in Marriot-Slaterville City. The lining of the canal reduces water losses through seepage of the old earthen canal and increases capacities for flood control on the lower Weber River.





West Haven City Pipeline Projects

Due to increased development and overall growth in the West Haven area, demand on the existing secondary service system is increasing and requires additional infrastructure. The City's construction of a new through street on 4700 West provided the District a cost-saving opportunity to install a needed looped connection. This new 3,000 lineal foot pipeline will aid in boosting operating pressures to the rapidly growing area. The District also completed a loop between 3500 West and 4700 West in order to bring a substantial amount of water to the southwest corner of the system and aid in boosting operating pressures. This project specifically installed a 14-inch diameter PVC pipeline over a total length of approximately 6,400 lineal feet and included two jack and bore crossings of existing water conveyance structures.



Segment 1 of the 12th Street Culinary Pipeline

The District pursued the opportunity to upgrade the existing aged line on 12th Street to account for future growth at a fraction of the normal cost by working with Weber County to develop a mutually beneficial cost share agreement. With the County widening the street on the west side of the valley, the District's existing 60-year old culinary line was agreed to be replaced with a new 50% upsized line with the District only responsible for the betterment portion of the cost. Additionally, by coordinating with the road construction, the line replacement costs were further reduced by removing the typical asphalt replacement costs associated with such projects. This new line is now in service providing reliable water to multiple large customers. The improved capacity accounts for future long term growth installed at an optimal price for the District's users.



Wanship 12.47 kV Conversion Project

Hydropower facilities installed on facilities allow the District to operate infrastructure at a fraction of the cost and to generate revenue on years when excess power is produced. The District was provided the opportune occasion to negotiate full replacement of the Wanship Hydroelectric Plant substation with funding 100% from the local electric utility. With the electric utility upgrading their transmission service to the Western Summit County area, the interconnection to the District's 59-year old substation required replacement. As the utility initiated modification, the District approved the substation improvement by agreeing to full return compensation from the utility for all design and construction related costs. This joint project provides the electric utility the opportunity to upsize their line voltage while keeping the District and its facilities whole. The new substation is expected to be placed in service during late summer of 2017 and will provide District users with continued low-cost service.





Sunset Well Rehabilitation Project

The District entered into a unique agreement with Sunset City to rehabilitate a city well in order to deliver water to the District's existing culinary water system. This Agreement allows Weber Basin to renovate and update the well with the most up-to-date technology, in exchange for the right to utilize the City's unused water rights at the well. These type of agreements allow the District to add to its water supply to help meet the Wasatch Front's growing demands. Work completed to date includes brush and bail cleaning of the casing, well development, video inspections, chemical treatment, pump testing, water quality testing, and milling operations to remove an unnecessary concrete collar at a depth of 800 feet. The District is now designing the new well house and equipment.



GIS/IT

The District's Geographic Information System (GIS) and Information Technology (IT) staff provides data and technology that saves time and effort for District employees and customers. In 2016, custom applications were updated with a couple of new applications under construction. GIS staff have supported the secondary metering project and are refining the use of GIS to automate the reallocation of secondary water. The District continues to look for more efficient ways to share District GIS information with employees and provide technology that increases productivity.

New District Employee Portal

The new District Employee Portal allows for increased efficiency by providing District employees the ability to submit timecards online, gain access to District wellness programs, and schedule of conference rooms and resources. All information is now stored in a database for future retrieval and use. Managers can approve time cards and time off requests as well as view employee leave balances online.

Updates are always being made to the highly technical procurement system to ensure new rules and regulations are followed, technology standards are kept current, new features are added, and the outstanding reliability is maintained. This system was launched a year ago and has proved to be a great asset to the District.

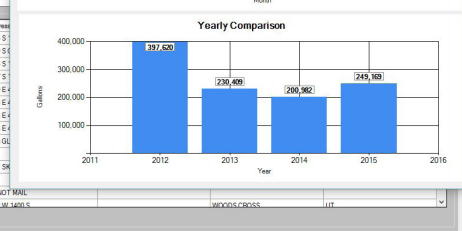
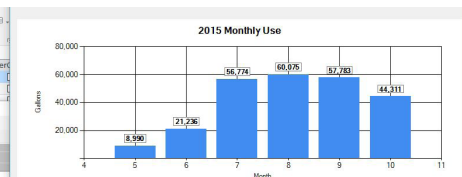
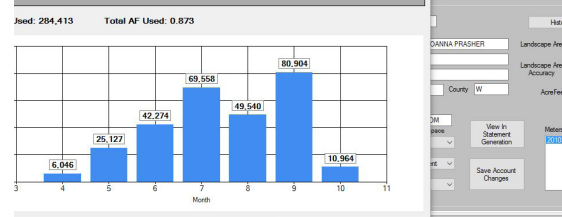
District IT and Programming

A new iOS application was developed and written to allow for easier tracking of meter installation and replacements. The application allows meter personnel to view meter account information from their mobile device, change a meter or radio transmitter in the database, or add new meters to the system. Once saved in the iOS app, this information is instantly available. This in-house development saves staff weeks of data entry time each year with new meter retrofit projects and ensures accuracy when entering meters in the system by utilizing a Bluetooth bar code scanner that is synced with the application.

With the vast number of rebates being submitted each year, a new website was developed to save staff time in processing the rebates and scheduling water audits. The online site now allows for rebate information submission, receipt uploading, and water audit day and time scheduling all completed by the customer and then verified by staff. This process is anticipated to save staff hundreds of man hours this year in manually transcribing the rebate information from paper to our online system.

ContractID	MeterID	MeterDs	MeterTypeCd	Meter
01-001-0061	81274069	0	0	
06-012-0006	80112476	274803	0	
06-012-0008	13070508			
06-012-0008	80112470			
06-012-0016	78647289			
06-012-0024	80112468			
06-012-0026	80112472			
06-012-0057	78647050			
06-012-0062	80112477			

ReadID	Read	EndRead	UsageGal	UsageAF
03-20-2016	1334032	1340078	6046	0.919
05-16-2016	1340078	1362206	25127	0.877
06-14-2016	1362206	1407479	42274	0.13
07-14-2016	1407479	1427007	19528	0.213
08-16-2016	1427007	1526577	48540	0.152
09-14-2016	1526577	1607481	80904	0.248
10-18-2016	1607481	1618445	10564	0.034



Service Address: 4645 GLASSMANN WY
Service City/State/Zip: OGDEN UT 84403
Customer Info: [View / Edit Reads] [Copy / Deactivate]
Meter Info: Meter Category: [I] Meter Status: [A] Meter Location: [Unknown] Meter Read Type: [Normal]
Meter Location: [Unknown] Number of Dials: [07] Number of Decimals: [00]

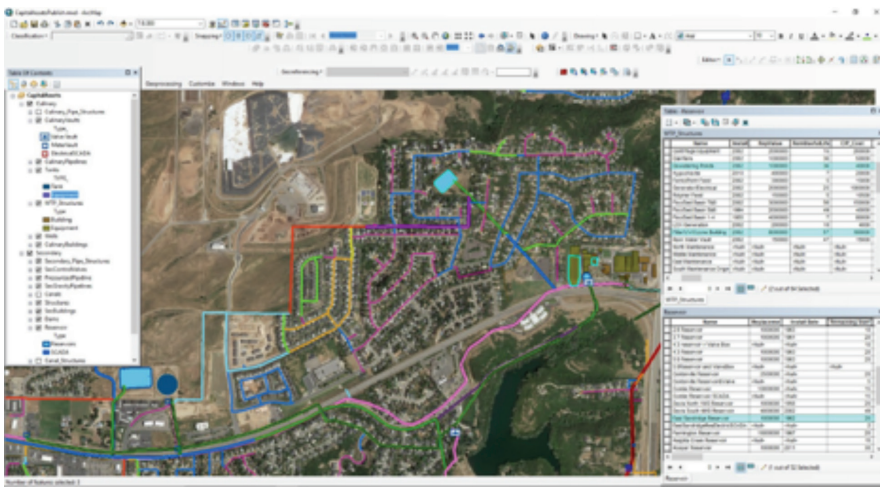


Photo Credit: Briant Jacobs



GIS

A new Capital Asset GIS database was created this year providing data to support management decisions regarding the District's Capital Assets. The data included many of the existing features in the GIS database such as pipelines, canals, reservoirs and valves and added capital asset data such as useful life of the features, estimated replacement costs, and its condition. This data will continue to grow and be enhanced as features are quantified.

Global Positioning System (GPS) data continues to enhance the existing GIS data as our inspectors collect readings when repairs and new construction takes place.

SCADA

The District continues to maintain over 116 remote sites on SCADA which allows monitoring and the collection of historical data, along with remotely controlling the system from a centralized computer network at each treatment plant. Thousands of data points have been extracted from the SCADA historian for grant application and water conservation planning. Solar panels have been constructed at several remote sites allowing the District the capability of receiving SCADA from these sites; whereas historically the data has been gathered monthly through site visits.

Drone

In 2016 the District purchased an aerial drone to be used for documenting construction progress through video and photo, preconstruction surveys, and generating 3D models of areas of interest. All data gathered can be georeferenced and placed into our AutoCAD and GIS software for better decision making and analysis. This information has been very beneficial, and we anticipate increased use of this valuable tool. The District is fully compliant with FAA regulations and has an FAA Part 107 licensed drone operator on staff.



Maintenance and Construction Department

Mark H. Clark, Manager

Brent Briggs, Mechanic

Jordan Clontz, Crew Chief, Preventative Maintenance

Russell Fearn, Crew Chief, Work Orders

David Fisher, Shop Worker

Davis Hanson, Seasonal Worker

Tracy Hess, Seasonal Worker

Stan James, Seasonal Worker

Jacob Jaques, Crew Chief, Special Projects

Nolan Kelley, Maintenance Superintendent

Christopher Kendall, Maintenance Worker

Damon Knechtel, Seasonal Worker

Bruce McDonald, Maintenance Worker

Kasey Monson, Warehouse Inventory Control

Trase Penman, Crew Chief, Rights-of-Way

Kenny Schow, Maintenance Worker

Tristian Trussell, Maintenance Worker

Kaden Vernon, Maintenance Worker

Scott Wilson, Crew Chief, Special Projects

Jared Woolsey, Welder

The Maintenance and Construction Department is responsible for maintaining and preserving all District facilities and provides assistance to all District departments. The Maintenance Department has five specific divisions: Work Orders, Special Projects, Preventative Maintenance, Mechanical Maintenance, and Right of Way & Facility Maintenance. This department participates in pipeline repairs, new pipeline construction, remodeling of facilities, building construction, and facility upgrades.





Special Projects

The Special Projects Division responds to and makes repairs to all leaks and emergency conditions that occur throughout the District. This Division also performs new construction and remodeling projects, which require extensive coordination with customer entities and federal, local, and state agencies. A list of projects that were completed in 2015 by the Special Project Division include:

- Causey Reservoir spillway repairs
- Smith & Morehouse spillway repairs
- New secondary services and meter installation in West Bountiful
- Willard and Layton canals cleaning and inspections
- Routine cleaning and maintenance of regulating reservoirs
- Storm drain installation along Gateway Canal
- Conservation modular unit set and underground utilities installation



Photo Credit: Jacob Jaques

Preventive Maintenance

The Preventive Maintenance Division continues to inspect, clean, upgrade, and rehabilitate M&I and irrigation structures throughout the District to maintain optimal security and operator safety. In addition to several major rehabilitations of culinary vaults, the Division completed upgrades to the interior buildings of the Fairfield and District 3 wells and replaced many ladders and hatches throughout the District.

Work Orders

The Work Orders Division works with the various departments within the District to complete numerous work orders each year. As retail operations are outsourced to local agencies, the Division is transitioning from retail repair projects to larger regionalized projects and pipeline repairs. On the Gateway Canal, this Division performed ongoing projects such as concrete and caulking replacement and the dredging of settling areas on the canal. Inspections, repairs, and coatings were also applied to key dam facilities. This Division continued the installation and replacement of secondary water meters throughout the District's region. Additionally, the Work Orders Division removed thousands of tons of treatment solids from the District's three water treatment plants and deposited them into the District's private landfill site.



Photo Credit: Marci Wood



Photo Credit: Doug Parslow



Photo Credit: Briant Jacobs



Photo Credit: Jason Obray



Right of Way and Facilities Maintenance

The Right of Way and Facilities Maintenance Division is responsible for mowing and noxious weed control of 400 acres throughout the District. This work includes mowing and vegetation control of all District reservoirs, pipeline rights-of-way, and canal properties including the Wasatch Front Regional Alignment in Davis and Weber counties and landscaping duties at the District's urban facilities. This Division also performs snow removal, beautification of District sites, and inspection for encroachment of rights-of-way.



Photo Credit: Noke Kelly



Mechanical Maintenance Division

The Mechanical Maintenance Division is responsible for the maintenance and upkeep of the District's fleet of service vehicles and heavy equipment including body repairs and the painting and repair of utility truck beds. This Division also maintains, repairs, and services pumps and miscellaneous small engines, tools, and equipment. Standby emergency generators throughout the District are also regularly serviced and maintained to insure reliability.



Photo Credit: Doug Parslow



Photo Credit: Michelle Deras



Water Supply and Power Department

Chris C. Hogge, PE, Manager

Gordon Barrow, Irrigation Operator/Damtender

Casey Bitton, Electrician

Britt DeJong, Power Plant Operator/Damtender

Casey Folkman, Power Plant Operator/Damtender

David Giles, Electrician

Alan Hatch, Irrigation Operator

Jeff King, Irrigation Operator

Ben Love, Irrigation Operator, Lead

Michael Midgley, Superintendent

Jason Obray, Electrician, Lead

Abby Smith, Irrigation Operator, Lead

Lee Smith, Irrigation Operator

Ken Turner, Electrician, Lead

Bob Waldron, Power Plant Operator/Damtender

The Water Supply and Power Department operates facilities which control the storage and conveyance of all raw water supplied to District customers within its boundaries. These operations include operation of all storage and diversion dams for water storage and flood control purposes, canals, aqueducts, irrigation trunklines, laterals, and pumpstations. Department personnel also operate and maintain hydropower generation facilities at Wanship and Causey Dams and at the terminal of the Gateway Canal. The hydroplants provide the majority of the power needs of the District. Electricians within the department troubleshoot and maintain all electrical facilities throughout the District.



The snowpack accumulation for the Weber and Ogden River drainages experienced another year of below average snowpack and runoff for the Winter and Spring of 2016 with snow water equivalents (SWE) averaging near 85% of normal on April 1. The April 1st projections for runoff during the April through July time period ranged between 60% and 85% of normal with the Ogden River drainage on the high end of the projected runoff.

The above described conditions allowed for the filling of Pineview, Echo, Smith and Morehouse, and Causey reservoirs. The filling of Echo also allowed the District to fully retain the holdover water acquired from the Weber River Water Users Association at the end of the 2015 irrigation season.

The District was able to provide a full allocation of contracted water available to its customers with no contract restrictions or shortening of the irrigation season. The District storage facilities ended the irrigation season with approximately 56% holdover.

In 2016 the combined power generation of the Wanship, Gateway, and Causey hydropower plants totaled 19.2 million kWh (approximately 24% more than in 2015) while the District's power demand was approximately 28.6 million kWh (approximately 3% more than 2015). Overall, the power picture was somewhat improved although total power use remained on the higher side with the necessary pumping to move delivery and exchange water as needed.

In addition to normal in-season operations, maintenance and facility inspections, the District's system operators were heavily involved in the training of Benchland Irrigation staff to take on the retail secondary system operations in the District's West Farmington and northern Centerville service areas. This transition is similar to the transfer of retail operations to Roy Water and Bountiful Irrigation in the District's West Haven and Woods Cross-West Bountiful secondary systems. In addition to the cost-savings for both agencies, these transfers of retail operations allow the District to focus on large core infrastructure projects and operations while still providing customer service to its retail connections.



Photo Credit: Jason Obroy

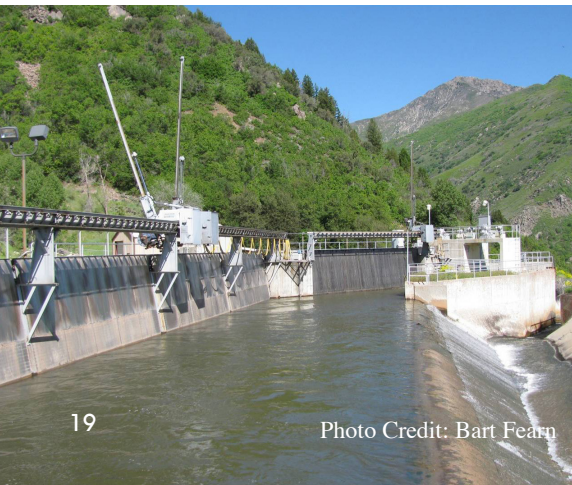


Photo Credit: Bart Fearn



Off-season efforts focused on assisting in the coordination with contractors and inspection of hundreds of end user meters in the West Farmington and Uintah Bench secondary systems along with maintenance and rehabilitation of pumps, PRV's, and other operational facilities.

The diversion facilities at the Rockport Pumping Plant at the inlet of Rockport Reservoir were upgraded this past year to add natural gas heaters in the diversion screen house. These betterments along with added ice handling efforts by District personnel and equipment, improved the District's water delivery to the Snyderville Basin in extreme winter weather conditions.

Annual work continued on the rehabilitation and sealing of the concrete lining of the Gateway Canal and many other facility condition assessments and rehabilitation projects. This work extends the life of this critical infrastructure that supplies water to both the Wasatch Front and Wasatch Back for municipal and agricultural purposes. A central part of the successful completion of various maintenance and betterment projects is the considerable coordination and cooperation between all District employees, contractors, and consultants. This effort is much appreciated.



Photo Credit: Mike Midgley



Photo Credit: Bob Waldron



Irrigation Water Contracts 2016 (AF)

Contracting Entity	Contract Amount	Delivery Loss	Net Useable	Contracting Entity	Contract Amount	Delivery Loss	Net Useable
Benchland Irrigation	4,475	448	4,027	North Morgan Irrigation	160	16	144
Bountiful Sub Water District	17,500	1,600	15,900	North Round Valley	150	15	135
Centerville Duel Creek	2,891	264	2,627	North Salt Lake	800	0	800
Chalk Creek Irrigation	643	64	579	Oakridge Country Club	500	50	450
CO-OP Farms Irrigation	300	30	270	Ogden River Water Users Association	3,705	283	3,422
Croyden Irrigation	450	45	405	Peterson Irrigation	614	61	553
Davis & Weber Counties Canal	819	0	819	Roy Water Conservancy District	365	0	365
Downs Creek Irrigation	100	10	90	Pintail Duck Club	100	10	90
East Porterville Irrigation	200	20	180	Salmaho Irrigation	167	17	150
East Wanship / Gibbons & Pace	100	10	90	So. Davis County Water Improvement District	3,210	321	2,889
Eden Irrigation	1,200	120	1,080	South Morgan Water Company	400	40	360
Emmertsen Irrigation	100	10	90	South Ogden Conservation District	2,345	234	2,111
Felt, Peterson, Slater Irrigation	100	10	90	South Weber Water Improvement District*	2,223	0	2,223
Haight's Creek Irrigation	7,008	692	6,316	Sun Hills Golf Course	496	37	459
Hill A.F.B. Golf Course	640	64	576	Syracuse City	1,113	111	1,002
Hill Field At 193	139	14	125	Uintah Mountain Streams	200	20	180
Hooper Irrigation	5,663	566	5,097	Valley View Golf Course	373	37	336
Huntsville Irrigation	600	60	540	Warren Irrigation	700	70	630
Huntsville So Bench Irrigation	600	60	540	Weber Basin Job Corps	300	30	270
Kays Creek Irrigation	2,000	200	1,800	Weber-Box Elder Conservation District	4,147	199	3,948
Kaysville Irrigation	1,691	178	1,513	Weber Canal Company	200	20	180
Lagoon Amusement Park	225	23	202	Welch Field Ditch	240	24	216
Layton Canal & Irrigation Co.	5,491	549	4,942	West Bountiful Golf	294	29	265
Littleton-Milton Irrigation	300	30	270	West Hoytsville Irrigation	300	30	270
Middle Fork Irrigation	830	83	747	West Wanship Irrigation	150	15	135
Mountain Valley Canal Irrigation	1,297	130	1,167	Wilson Irrigation	1,500	150	1,350
Mountain View Irrigation	100	0	100	Subtotal	80,213	7,099	73,114
				Retail Irrigation Water Sales	55,347	0	55,347
				Totals	135,560	7,099	128,461

*Contract is a D&W stock exchange (370.5 D&W Shares)
D&W issued 6 AF of water per share in 2016.

2016 Project Power Operations

PEAK PROJECT POWER LOAD - KW

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Peak Power Load (KW)	1,857	2,550	1,006	2,195	2,603	7,132	8,789	8,862	8,146	3,541	2,722	1,824

PROJECT POWER GENERATION - KWH

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
*Net Generation													
Causey Plant	-18,400	-14,200	110,600	1,053,800	1,377,800	747,200	506,700	447,300	293,900	57,400	-11,500	-18,900	4,531,700
Net Generation													
Gateway Plant	-16,400	-12,240	107,800	1,142,520	1,412,970	1,471,180	1,684,260	1,660,330	1,419,580	234,080	-14,880	-17,760	9,071,440
Net Generation													
Wanship Plant	-14,480	-7,280	60,360	307,340	552,970	1,135,250	1,247,990	1,085,430	870,470	338,980	-10,960	-11,200	5,554,870
Total Output	-49,280	-33,720	278,760	2,503,660	3,343,740	3,353,630	3,438,950	3,193,060	2,583,950	630,460	-37,340	-47,860	19,158,010
Project Use	1,156,132	1,070,451	773,586	961,864	1,476,815	3,857,445	5,413,310	5,843,621	3,703,492	2,018,197	1,425,956	919,663	28,620,532
Delivered to CRSP	-1,187,012	-1,089,971	-605,426	487,996	489,125	-1,251,015	-2,481,060	-3,097,861	-1,413,442	-1,445,137	-1,451,796	-948,623	-13,994,222

* Not Added to CRSP

WATER USED FOR POWER GENERATION - AF

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Causey	0	0	860	7,182	9,000	4,994	3,508	3,358	2,698	692	0	0	32,292
Gateway	0	0	900	9,346	10,628	10,776	14,428	14,888	10,744	2,042	0	0	73,752
Wanship	0	0	958	3,966	5,862	9,730	11,238	10,870	10,268	4,748	0	0	57,640
Total	0	0	2,718	20,494	25,490	25,500	29,174	29,116	23,710	7,482	0	0	163,684

2016 Reservoir Operations

Storage Content as of Last Day of Month (AF)

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Causey	4,079	4,520	5,142	6,864	6,892	6,789	5,298	3,542	2,314	2,730	3,403	4,054
East Canyon	21,820	23,770	26,870	30,810	36,170	34,910	28,150	22,080	18,820	19,510	20,670	22,000
Echo	29,400	33,150	38,450	48,770	66,530	58,020	37,660	20,170	13,890	18,110	21,470	25,580
Lost Creek	8,530	8,980	9,860	13,810	18,200	17,335	15,300	12,760	11,560	11,670	11,800	12,020
Pineview	53,770	59,880	77,590	103,040	111,310	104,160	84,870	67,270	57,200	58,220	60,310	67,500
Smith-Morehouse	3,580	3,678	4,057	5,634	7,718	7,601	5,933	4,286	4,236	4,473	4,776	4,911
Wanship	36,460	41,380	44,830	45,190	48,060	51,030	41,460	30,610	23,060	22,500	25,230	28,290
Willard	90,999	98,357	113,204	146,457	182,125	176,528	158,983	146,157	140,995	139,115	138,023	140,003
Total	248,638	273,715	320,003	400,575	477,005	456,373	377,654	306,875	272,075	276,328	285,682	304,358

Monthly Releases (AF)

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Causey	682	638	1,322	7,508	16,186	4,994	3,508	3,358	2,698	956	420	434	42,704
East Canyon	372	290	310	352	372	3,526	7,316	6,566	3,986	610	360	372	24,432
Echo	0	0	0	0	2,890	22,486	32,400	29,540	19,860	4,868	0	0	112,044
Lost Creek	496	464	496	480	496	2,232	3,136	2,642	1,866	544	480	496	13,828
Pineview	496	468	248	15,121	32,293	18,025	22,468	19,743	13,887	1,805	582	680	125,816
Smith-Morehouse	434	406	434	1,464	11,052	11,096	2,690	2,136	533	465	450	465	31,625
Wanship	1,612	1,508	2,180	3,976	6,333	11,321	13,097	12,536	11,164	5,809	1,556	1,550	72,642
Willard	288	314	198	300	370	4,995	7,935	8,036	5,204	1,280	1,210	756	30,886
Total	4,380	4,088	5,188	29,201	69,992	78,675	92,550	84,557	59,198	16,337	5,058	4,753	453,977



Municipal and Industrial Water Department

Brad D. Nelson, PE, Manager

Nate Allison, Water Treatment Plant Operator
Zeke Bardwell, Laboratory Technician
Jeff Connor, Water Treatment Plant Manager
Michelle Deras, Water Quality Specialist/Environmental Analyst
Bart Fearn, Supervisor/Water Treatment Plant Operations
Nate Frew, Water Treatment Plant Manager
Spencer Gatten, Chemist
Dean Gifford, Water Treatment Plant Operator
Kevin Green, Water Treatment Plant Operator
Thomas Hamblin, Water Treatment Plant Operator
Kelly Holmes, Chemist
Geoffrey Howell, Water Treatment Plant Operator
John Jacobson, Water Treatment Plant Operator
Tyler Jensen, Water Treatment Plant Operator
Brett Kennedy, Water Treatment Plant Maintenance
Rex Lee, Water Treatment Plant Operator
Chad Montgomery, Water Treatment Plant Operator
Marc Montgomery, M&I Distribution Operator
Adam Moulding, Water Treatment Plant Operator
Douglas Parslow, M&I Distribution Operator, Lead
Aaron Pearce, Water Treatment Plant Operator
Todd Pollock, Water Treatment Plant Operator
Scott Rackham, Water Treatment Plant Operator
Auggie Rose, Water Treatment Plant Manager
Clay Schmalz, Foreman/Treatment Plant Maintenance
Ian Smith, Water Treatment Plant Operator
Mitch Sorenson, Water Treatment Plant Operator
Paul Spens, Solids Handling Specialist
Shane Visser, Water Treatment Plant Operator
Jeff Weyburn, Water Treatment Plant Operator

The Municipal and Industrial Water Department is responsible for all water treatment, distribution, and laboratory functions of the District. The department oversees four water treatment plants, nineteen deep groundwater wells, a state-certified water quality laboratory, and a distribution system consisting of pump stations, fluoride feed buildings, and eighty-six miles of pipeline.

The department is also responsible for staying current on all regulations and conducting all compliance sampling.



Photo Credit: Auggie Rose

The M&I Department works tirelessly to ensure the highest quality drinking water is provided to our customer agencies 24 hours a day, 365 days a year. The plants treat water primarily from the Weber River system and have a current combined treatment capacity of 94 million gallons per day. All plants use both chlorine as hypochlorite and ultraviolet (UV) light to ensure thorough disinfection to our customer agencies. In addition to meeting and exceeding all state and federal drinking standards 100% of the time, the District was awarded for the best tasting treated surface water by the Intermountain section of AWWA, which includes all of Utah and Southeast Idaho.

This year the District replaced its older technology ozone monitors (the first of its kind installed in Utah). This upgrade will allow District staff to do all annual calibrations in house, resulting in significant cost savings.

The 2016 water year for the M&I Department showed a slight decrease, around 6%, in overall demand of treated drinking water from the previous year. The daily peak production was approximately 82 million gallons per day. Groundwater wells comprised approximately 26% of the District's total deliveries for the year with the remainder coming from the District's water treatment plants.



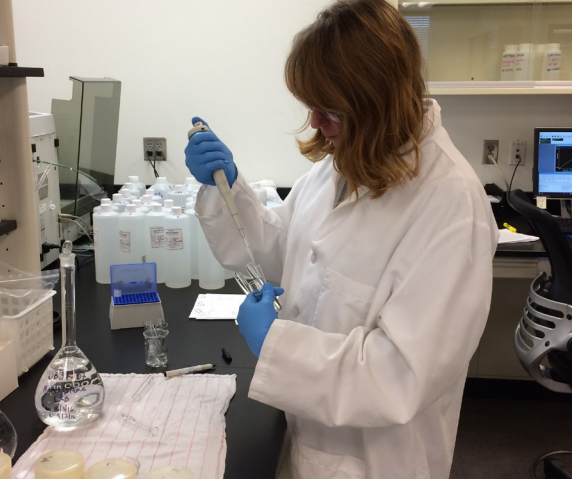
Photo Credit: Gary Allen



Photo Credit: Marc Montgomery



Photo Credit: Zeke Barkwell



Weber Basin Water Quality Laboratory

The Weber Basin Water Quality Laboratory (WBWQL) is an integral part of District operations and supports the District's overall scope of delivering the highest quality drinking water while sustaining and protecting the Weber Basin watershed. The WBWQL is a State of Utah certified laboratory meeting all National Environmental Laboratory Accreditation Conference (NELAC) requirements. The laboratory uses certified methods to produce scientifically defensible analytical data on drinking and source waters for the District, Weber Basin Water Quality Council, stakeholders, federal, state, public water systems, and private citizens.

The District employs a complete laboratory staff comprised of a laboratory director, a quality assurance officer, two chemists, and a lab technician. Lab personnel have the necessary education, training, technical knowledge, and experience for their assigned functions, and all personnel are responsible for complying with the numerous quality assurance requirements that pertain to their responsibilities.

The WBWQL conducts over 20 certified methods and procedures for all environmental tests and calibrations. In 2016, the lab analyzed a combined total of 9,621 source, treatment, and distribution samples. Approximately 20 analysis are conducted for each sample including: organic, inorganic, metals and bacteriological testing. In 2016, the laboratory implemented routine monitoring for the presence of microcystin, a cyanotoxin produced by certain algae species, at the head waters to our treatment facilities. Generally, the predominate risk to cyanotoxins is through direct exposure from swimming or ingesting lake water of microcystin were found, the District will algal toxins.



All laboratory methods incorporate sampling, handling, storage, preparation, analysis, and statistical calculation procedures. While all instructions, standards, manuals, and reference data relevant to the methods are developed as Standard Operation Procedures (SOP). Each staff member is trained and participate in both watershed and water treatment sampling and analysis which has proven to be advantageous in obtaining the best data quality. Our chemists not only maintain the ability to collect samples as needed, but experience first-hand visual and analytical assessments that allow them to comprehend the data and quickly recognize concerns.

The WBWQL actively supports the community and public water systems the District serves by conducting certified drinking water analysis required by state regulations for various state and local agencies. Moreover, the lab supports non-regulated community members that have concerns about the water quality of their private wells. The lab staff will briefly discuss water quality concerns and recommend the best analysis. The staff actively participates in public education events and laboratory tours to express how much we enjoy doing interesting, important, and exciting research.



Weber Basin Water Conservancy District

The Weber Basin Water Conservancy District (District) diverts water from the Weber River to serve Davis, Weber, Summit, Morgan, and Box Elder counties. Due to the increasing concerns of harmful algae blooms and what we are doing to protect our drinking water, we would like to inform you of the health risks, what you should do, and Department of Environmental Quality and Utah's Division of Drinking Water, we strive to provide the best water quality to our customers.

What is the risk?

Blue-green algae, also referred to as cyanobacteria, naturally grow in rivers, ponds, lakes, and canals. These algae are capable of rapid overgrowth, characterized as an algae bloom. These blooms often form a visible scum on the surface of the water and typically occur in the late summer to early fall. Some species of cyanobacteria can produce toxins that pose a risk to you or your pet through direct contact or ingesting the water. Possible side effects of cyanotoxin exposure include: fever, stomach pain, diarrhea, vomiting, muscle weakness, rash, irritated eyes and skin. Small children and animals can experience severe symptoms.

What should I do?

You can reduce your risk by limiting recreational activities in affected areas and avoid direct contact with algae blooms. Do not boil the water for drinking. This can potentially increase the toxin levels. Cyanotoxin contaminants in drinking water can only be removed using advanced water treatment technology. Residents that use secondary water for farming, ranching, and irrigation purposes should avoid exposure and consider alternative sources until the algae blooms dissipate.

What is being done?

The District routinely monitors our drinking water and source water supply for the presence of microcystin, a cyanotoxin produced by certain algae species. If a bloom is present in the Weber River, the District has many options to protect our drinking water. First and foremost, we will increase the frequency of water testing to determine if toxins are present. The District can increase pumping from local wells to reduce the use of river water and implement advanced treatment techniques at our drinking water facilities. On a case-by-case basis the District will evaluate the benefit of source treatment and/or advanced water treatment to remove these contaminants.

Not all algae are toxic, however the District continues to work closely with the Department of Environmental Quality and Utah's Division of Drinking Water to monitor water supplies and research options to address the problem. This collaboration delivers an early warning system which allows the District to respond to the risk and implement steps to protect the public and ensure our drinking water is safe.

Summary of M&I Water Contracts-2016 (AF)

UNTREATED WATER

CONTRACTING ENTITY	CONTRACT AMOUNT
BIG WEST OIL	100.00
CHEVRON, USA	1,200.00
GREAT SALT LAKE MINERALS	7,980.00
MOUNTAIN REGIONAL SSD	2,100.00
NORTH SALT LAKE CITY	30.00
OGDEN CITY	1,500.00
PARK CITY	2,900.00
PARSONS	22.00
TESORO	5.00
TOTAL UNTREATED	15,837.00

TREATED WATER

CONTRACTING ENTITY	CONTRACT AMOUNT
DAVIS COUNTY	
BOUNTIFUL CITY	1,000.00
CENTERVILLE CITY	500.00
CHEVRON, USA	2,000.00
CLEARFIELD CITY	5,348.00
CLINTON CITY	1,630.00
FARMINGTON CITY	501.00
FRUIT HEIGHTS CITY	745.00
GENEVA ROCK	44.00
HILL AIR FORCE BASE	1,018.79
KAYSVILLE CITY	2,500.00
LAYTON CITY	6,873.00
MIDA-FALCON HILL	5.00
MUTTON HOLLOW WID	220.00
NORTH SALT LAKE CITY	2,015.00
SOUTH DAVIS COUNTY WID	360.00
SOUTH WEBER CITY	950.00
SUNSET CITY	1,400.00
SYRACUSE CITY	1,925.00
TESORO	5.00
WASATCH ENERGY SYSTEMS	353.00
WEBBS CANYON WATER COMPANY	9.00
WEBER BASIN JOB CORP.	60.00
WEST BOUNTIFUL CITY	750.00

TREATED WATER CONT.

CONTRACTING ENTITY	CONTRACT AMOUNT
WEST POINT CITY	700.00
WOODS CROSS CITY	100.00
TOTAL DAVIS COUNTY	31,011.79
MORGAN COUNTY	
REPLACEMENT WATER	2,003.00
SUMMIT COUNTY	
COALVILLE CITY	110.00
SUMMIT WATER DIST. COMPANY	700.00
REPLACEMENT WATER	12,941.50
TOTAL SUMMIT COUNTY	13,641.50
WEBER COUNTY	
ADVANCED FLUID CONTAINMENT	10.00
BONA VISTA WATER IMP. DIST	3,786.00
GREAT SALT LAKE MINERALS	850.00
HOOPER WATER IMP. DISTRICT	101.35
OGDEN CITY	7,000.00
PLEASANT VIEW CITY	275.00
RIVERDALE CITY	1,165.00
ROY CITY	3,263.00
SOUTH OGDEN CITY*	785.00
TAYLOR-WEST WEBER WID	482.40
UINTAH HIGHLANDS WID	247.00
UNITAH TOWN	448.00
WASHINGTON TERRACE CITY	1,000.00
WEBER COUNTY-MOULDING	5.00
WEST WARREN-WARREN WID	500.00
WESTERN ZIRCONIUM	560.00
REPLACEMENT WATER	7,072.50
TOTAL WEBER COUNTY	27,550.25
TOTAL REPLACEMENT WATER	22,127.00
TOTAL TREATED WATER	52,079.54
TOTAL UNTREATED & TREATED	90,043.54

*Amount of Burch Creek water treated for South Ogden City: 797.81 acre-feet

The following entities added to their contracts during 2016: North Salt Lake (110), Pleasant View (275), Summit Water Dist. Company (300)

Net Production of Culinary Water from Treatment Plants & Wells for Weber Basin Water Conservancy District 2016 (AF)

MONTH	WEBER SOUTH PLANT		DAVIS NORTH PLANT		DAVIS SOUTH PLANT		PRODUCTION TOTAL OF ALL TREATMENT PLANTS	PRODUCTION TOTAL OF ALL WELLS	GROSS TOTAL PRODUCTION OF WELLS & TREATMENT PLANTS
	TOTAL MONTHLY PRODUCTION	% OF PLANT CAPACITY	TOTAL MONTHLY PRODUCTION	% OF PLANT CAPACITY	TOTAL MONTHLY PRODUCTION	% OF PLANT CAPACITY			
JAN	267.00	8.90%	1069.28	24.75%	277.88	17.93%	1,614.16	415.70	2,029.86
FEB	503.00	16.77%	1090.31	25.24%	272.82	17.60%	1,866.13	260.50	2,126.63
MAR	585.00	19.50%	1263.41	29.25%	292.10	18.85%	2,140.51	0.00	2,140.51
APR	536.00	17.87%	1172.44	27.14%	497.86	32.12%	2,206.30	145.64	2,351.94
MAY	589.00	19.63%	1273.39	29.48%	563.31	36.34%	2,425.70	458.20	2,883.90
JUN	1035.00	34.50%	1890.46	43.76%	519.79	33.53%	3,445.25	1628.03	5,073.28
JUL	1397.00	46.57%	1964.35	45.47%	587.33	37.89%	3,948.68	2211.37	6,160.05
AUG	941.00	31.37%	1806.14	41.81%	549.18	35.43%	3,296.32	2643.52	5,939.84
SEP	675.00	22.50%	1481.64	34.30%	445.10	28.72%	2,601.74	1549.21	4,150.95
OCT	474.00	15.80%	954.13	22.09%	485.39	31.32%	1,913.52	774.66	2,688.18
NOV	491.00	16.37%	929.91	21.53%	414.84	26.76%	1,835.75	497.52	2,333.27
DEC	611.00	20.37%	1271.61	29.44%	348.91	22.51%	2,231.52	14.64	2,246.16
TOTAL	8,104.00		16,167.07		5,254.51		29,525.58	10598.99	40,124.57

PERCENT OF INDIVIDUAL PLANT PRODUCTION COMPARED TO TOTAL PLANT PRODUCTION:

	PRODUCTION	% OF TOTAL
WEBER SOUTH PLANT	8,104.00	27.45%
DAVIS NORTH PLANT	16,167.07	57.76%
DAVIS SOUTH PLANT	5,254.51	17.80%
TOTAL	29,525.58	100.00%

PERCENT OF PRODUCTION COMPARED TO TOTAL PLANT AND WELL PRODUCTION:

	PRODUCTION	% OF TOTAL
WEBER SOUTH PLANT	8,104.00	20.20%
DAVIS NORTH PLANT	16,167.07	40.29%
DAVIS SOUTH PLANT	5,254.51	13.10%
WELLS	10,598.99	26.42%
TOTAL	40,124.57	100.00%

MONTHLY CAPACITY:

WEBER SOUTH PLANT	32.0 MGD	3,000 ACRE-FEET	22,500 GPM
DAVIS NORTH PLANT	46.0 MGD	4,320 ACRE-FEET	32,000 GPM
DAVIS SOUTH PLANT	16.0 MGD	1,550 ACRE-FEET	11,250 GPM
WELLS	35.6 MGD	3,387 ACRE-FEET	24,720 GPM
TOTAL	129.6 MGD	12,257 ACRE-FEET	90,470 GPM

Daily peak production - 76.0 MGD • Population served - 550,000

Water Pumped from Weber Basin Wells-2016 (AF)

CULINARY WELLS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
BEN LOMOND	0	0	0	0	0	28.0	84.0	85.6	61.5	0	0	0	259.1
CLEARFIELD #1	0	0	0	0	0	0	0	0	0	0	0	0	0
CLEARFIELD #2	200.7	121.4	0	0	0	299.3	338.0	339.6	23.9	0	0	0	1322.9
DISTRICT WELL #2	0	0	0	0	0	0	0	0	0	0	0	0	0
DISTRICT WELL #3	0	0	0	0	0	119.4	0	0	0	0	0	0	119.4
FAIRFIELD	0	0	0	145.6	375.3	253.5	549.2	410.7	442.4	552.2	480.9	14.6	3224.4
LAYTONA	0	0	0	0	0	0	94.8	327.1	28.6	0	0	0	450.5
NORTH OGDEN	0	0	0	0	82.9	79.7	81.0	81.2	72.8	0	0	0	397.6
ORCHARD DR.	0	0	0	0	0	0	0	23.3	29.8	30.7	16.6	0	100.4
RIVERDALE	0	0	0	0	0	121.7	203.8	191.1	9.2	0	0	0	525.8
SOUTH DAVIS	0	0	0	0	0	190.2	276.0	270.9	114.6	0	0	0	851.7
SOUTH WEBER #1	103.5	46.4	0	0	0	445.8	434.9	425.3	327.9	0	0	0	1783.8
SOUTH WEBER #2	0	0	0	0	0	0	66.1	405.2	406.0	191.8	0	0	1069.1
DAVIS BLVD.	111.5	92.6	0	0	0	0	0	0	0	0	0	0	204.1
NORTH WEBER	0	0	0	0	0	90.5	83.5	83.5	32.5	0	0	0	290
TOTAL	415.7	260.4	0	145.6	458.2	1628.1	2211.3	2643.5	1549.2	774.7	497.5	14.6	10598.8
ACCUM. TOTAL	415.7	676.1	676.1	821.7	1279.9	2908.0	5119.3	7762.8	9312.0	10086.7	10584.2	10598.8	10598.8

IRRIGATION WELLS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Farmington Well #1	0	0	0	0	0	0	0	0	0	0	0	0	0
Farmington Well #2	0	0	0	0	0	0	171.1	105	0	0	0	0	276.1
Washington Terrace Well	0	0	0	0	0	216	246.2	259.4	171.2	0	0	0	892.8
West Bountiful Golf Well	0	0	0	0	0	0	0	22.1	0	0	0	0	22.1
West Bountiful 5th South	0	0	0	0	0	0	0	0	0	0	0	0	0
Mills Park Well	0	0	0	0	0	35.3	54	23.6	0.1	0	0	0	113
TOTAL	0.00	0.00	0.00	0.00	0.00	251.3	471.3	410.1	171.3	0	0	0	1304

These wells are some of the facilities which are operated by project generated power.



Strategic Initiatives

David Rice, Coordinator, Water Conservation Programs Coordinator

Amy Derrick, Tour Guide

Liberty Hamilton, Tour Guide

Sabrina Poth, Water Conservation Analyst

Janice Terry, Assistant Coordinator, Water Conservation Programs

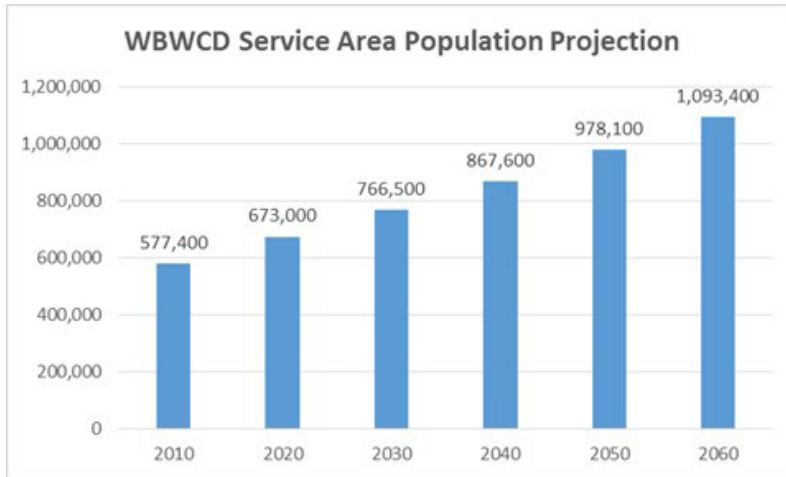
Marci Wood, Conservation Garden, Lead

Derek Johnson, PE, Water Resource/Environmental Analyst

The District is continually developing new strategies to conserve water and extend existing water supplies. Effective planning is essential in order to create programs that will extend limited water supplies and defer costly new infrastructure. These new programs must educate the public and help them understand that water is a limited resource in the mountain west and that individual water conservation plays a large role to meet future water demands. The District continues to develop new ideas and education programs in order to allow the District to meet future water needs. The District also works with professionals and agencies throughout the state to develop new initiatives that will increase the public's awareness of critical water issues and develop new strategies to solve them.

WBWCD Supply and Demand Study 2016

The WBWCD Supply and Demand Study was prepared by District staff to better understand future water demand and water supply within the District. Population within the District's service area is expected to nearly double by the year 2060. Existing water use information was collected from water providers within the District to determine current per capita water use and provide projections of future water demands. Existing and future water supplies were compared to projected demands in the study to estimate the timing of future water supply projects. Supply and Demand was evaluated for potable (culinary) water, secondary water, agricultural irrigation water, & replacement contracts.



Raw Water Conveyance Master Plan

The Davis and Weber Aqueducts are critical raw water conveyance components that convey approximately 100,000 acre-feet of water annually to the Wasatch Front area within the District. The Raw Water Conveyance Master Plan is the culmination of several studies on the Weber and Davis Aqueducts. These studies assessed the physical condition of the aqueducts, analyzed hydraulic capacity and potential risks to the aqueducts. The Raw Water Conveyance Master Plan provides a summary of the findings, rehabilitation options, and recommended improvements for the Aqueducts to provide conveyance capacity to meet future demands.

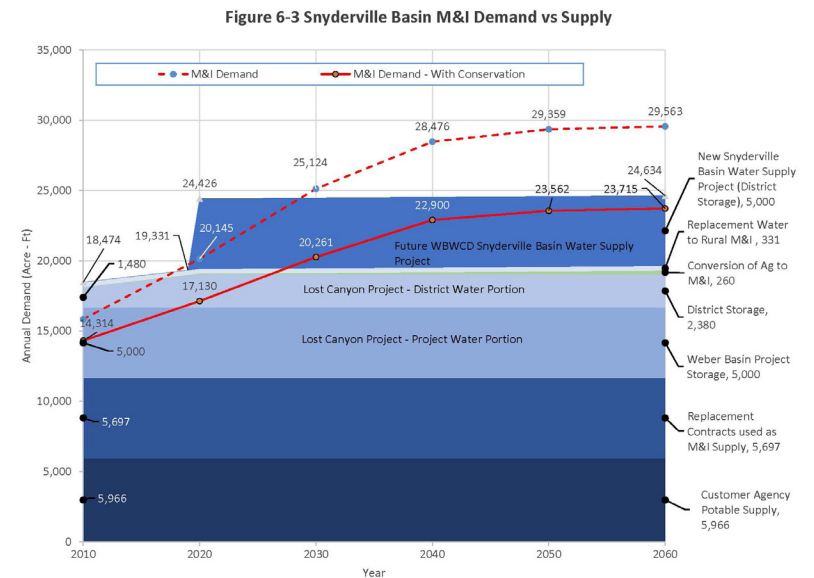


Photo Credit: Briant Jacobs



Photo Credit: Briant Jacobs



Water Conservation

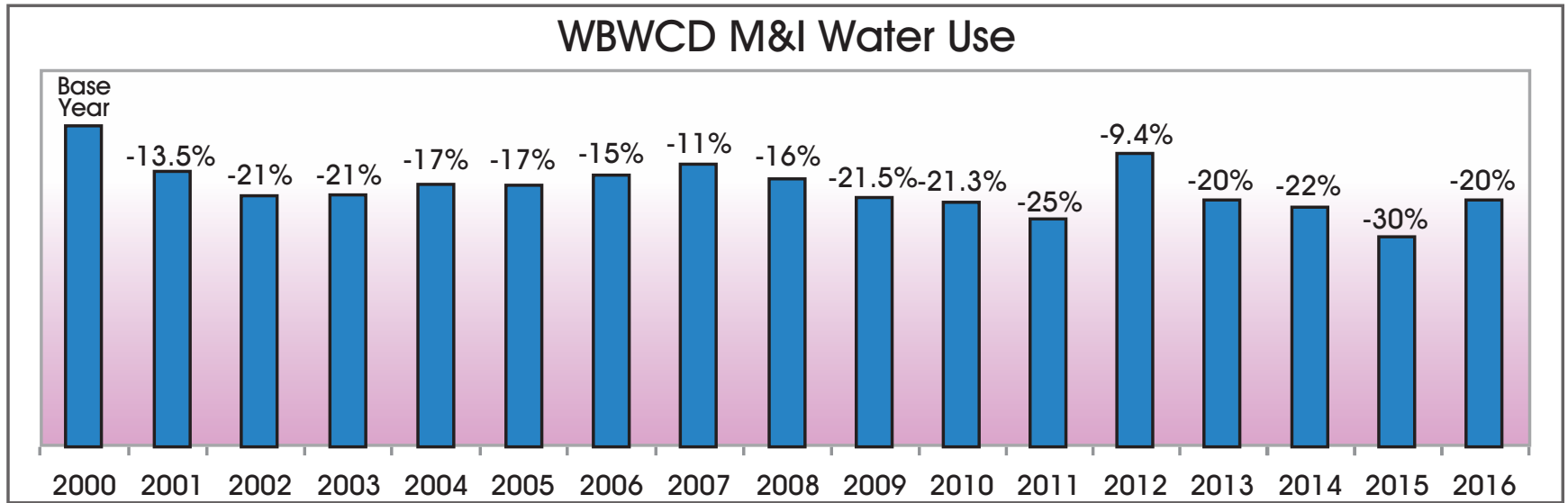
As one of the largest water purveyors in the State of Utah, the District is very concerned about future water supply for all the varied needs. Water conservation plays an important role in meeting long term water needs in our communities and extending supplies, all while deferring costly new development projects. The District is a participating member of the Governor’s Water Conservation Team, with a goal to reduce water use 25% by the year 2025, using the year 2000 as the base comparison year. In addition, the District has its own conservation program to educate and encourage water use efficiency and reduce waste. The following are some of the elements of the District’s Conservation efforts:

- Ongoing public education and information campaign, including involves print and digital
 - Billboards and UTA Bus advertising
 - Deseret Digital online advertising
 - Social media and District website messaging
 - Print ads in local direct mail ads
 - Booths and community events
 - Brochures and landscaping guides
- Ongoing implementation and enforcement of time of day watering practices
- The use of ordinances and rate structures to encourage conservation within each of the cities
- Studies on the accuracy and effectiveness of “smart” irrigation controllers
- Rebates for various smart irrigation controllers
- The Water Check program for Davis, Morgan, Summit, and Weber County residents.
- Metering secondary irrigation water to increase end user accountability and education
- The Learning Garden, a free water conservation demonstration garden
- Free landscape classes and Garden Fairs
- Participation with other large water Districts in the Localscapes program

2016 Activities	Number Participating
Visitors to the Learning Garden (Estimated)	9,000+
Free Landscape Class Attendance	534
Garden Fair Participation (Estimated)	1,700
Residential Water Audits Completed	653
Secondary Water Metering (Installed to Date)	3,370
Smart Controller Rebates	875
Davis School District Tours (Visitors)	3,500
Special Group Tours or Group Events (Scouts, Women’s, Other)	500+
Other Booths or Events in Community	3,000+
Total	23,000+

Over the last several years, the District has seen significant reductions in water use, despite population growth and several drier than normal years. Figure 1. below shows the reduction in deliveries since 2000. The District's conservation programs play a large role in future water supply and providing water for anticipated growth and additional demands over the next several decades. Conservation education along with technology will provide needed reductions with the end goal of changing the behavior and attitudes of water users and having a water supply that meets all the needs.

Figure 1



*Not adjusted for population growth for this time period





Weber Basin's Water Conservation Learning Garden

The District's Learning Garden is two and a half acres of landscaped gardens that showcase water-wise plants and landscaping principles. The largest potential for water savings exists in landscape water use, and the demonstrations help educate the public in water conservation practices in their landscapes with proper plant selection and proper irrigation. The Garden is located at the District headquarters site in Layton, and each year draws several thousand visitors. The garden is free to the public and is typically open from 8:00 AM to 8:00 PM April to October and 8:00 AM to 5:00 PM during winter months.

Visit the District website at www.weberbasin.com/conservation for the current garden schedules and activities.



Photo Credit: Mike Alverson

Secondary Water Metering

The District provides secondary water to over 18,000 connections in Davis and Weber Counties. The District began metering connections in 2008 and has installed 3,370 meters including the 400 connections retrofitted in 2016. The goal is to meter all secondary connections on the District system. As part of the metering of secondary water, each metered user receives a usage report each month that shows them how much water they have used in comparison to what they should have used based on their parcel size, proper watering practices and normal weather patterns. The information provided helps users to adjust their irrigation scheduling to better meet landscape needs while reducing excess irrigation waste.

The District has seen very positive results from the metering projects with metered users using 34% less than their unmetered neighbors. The District will continue to move forward with secondary water metering by installing additional meters each year.



Education and Outreach Programs

Weber Basin Water Conservancy District is committed to education with regards to water resources, conservation, and the ongoing work of delivering water to communities. Great effort is given to ongoing training and teaching of employees and the community as a whole.





Water Treatment and Distribution Operator Training

The District provides annual training for water system operators throughout the District. The classes and materials are free of charge and run twice a week through February and March. The attendees are given study materials, presentations, and training to prepare them for the State of Utah's certification exam or for Continuing Educations Credits (CEUs). The instructors for the class include District staff, Utah Division of Drinking Water staff, county health officials, equipment and material vendors, and other experts in the field of water treatment and distribution. Over 100 attendees participate from many cities each year, which helps keep qualified, educated operators at the controls of water treatment and water delivery.



Photo courtesy of Trout Unlimited

Community Events

The District actively participates in community events such as home and garden shows, county fairs, and emergency preparedness, Earth Day, and conservation events. The purpose of the District's participation has been to educate the public about conservation, education programs offered, where drinking water comes from, and how to treat and store water during and for future emergencies for their household. These events also give opportunity to talk one on one with customers about questions or concerns they may have in regards to conservation, water quality, landscaping, or their service connections.

Strawberry Creek Restoration

In the fall of 2016, the District participated in a partnership with Trout Unlimited and other entities to reduce trout habitat fragmentation in the Strawberry Creek on the Weber River system. This was achieved by installing a fish ladder in the creek to eliminate the 385-ft. culvert that had blocked the cutthroat trout from historical spawning areas. After testing the fish ladder upon completion, it is confirmed that for the first time in 50 years, the Bonneville cutthroat trout are now able to return to their historical spawning areas.



Photo courtesy of Trout Unlimited



WEBER BASIN WATER CONSERVANCY DISTRICT

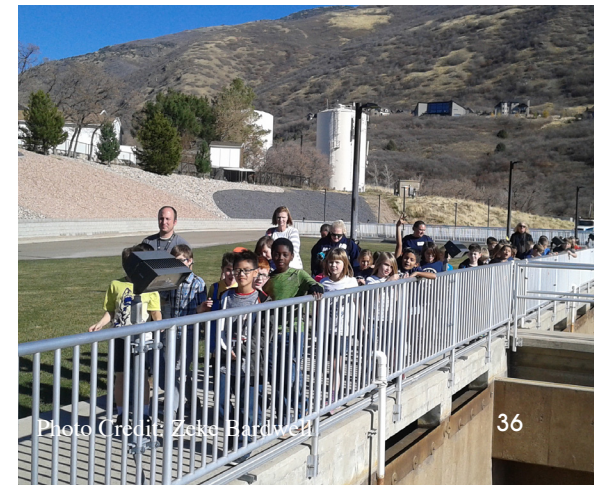


Photo Credit: Zane Barlowen



Photo Credit: Noke Kelly

Watershed Protection

Water quality in the watershed, especially as a drinking water source, is a very important issue. The District organized the Watershed Protection Coalition for the Weber River Watershed, which includes many federal, state and local government agencies involved, as well as private organizations and individuals. The Coalition is active in monitoring projects that may impact the water quality, and promoting projects that improve water quality. The District is also very involved with other water quality groups, such as the East Canyon Watershed Committee, the Echo and Wanship TMDL Committee, the Ogden River Restoration Group, and the Summit County Water Quality Advisory Committee.



Photo Credit: Zeke Bardwell



Photo Credit: Michelle Deras

Water Fairs

The District's conservation, laboratory, and treatment plant personnel regularly participate in educational and public outreach activities throughout the year. Davis, Weber, Summit, and Cache counties, as well as various school districts, host water fairs annually for fourth graders to provide hands-on educational activities for the local elementary schools and student's parents. These fairs typically have thousands of attendees, and allow employees to demonstrate a model of a water treatment plant that takes muddy water through the different stages of water treatment to make clean drinking water. District staff also participate in STEM career fairs and science fair judging for schools within the District.



Photo Credit: Michelle Deras

Conservation Classes

The District offers free landscaping and garden classes at the Learning Garden throughout the summer. These classes range from vegetable gardening to landscape design and focus on plant material, irrigation, and maintenance. Each year there are hundreds of participants that take advantage of well-planned and up to date information taught by highly qualified professionals. Classes are available to anyone that wants to attend and a new schedule is available each spring at www.weberbasin.com/conservation.





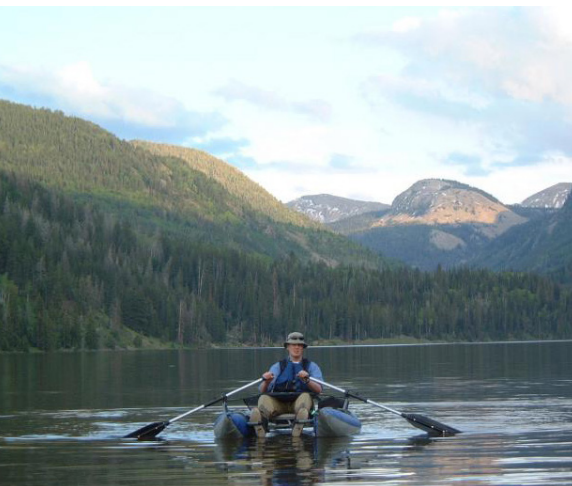
District Facilities Tours

The District hosted a tour this year for local leaders and state legislators to show them a behind the scenes look at the technology and infrastructure required to bring drinking and irrigation water to their cities and constituents. Every week, District staff conduct tours of the water treatment plants for many different school groups, scout troops, university classes, and individuals. Each group continues to express their amazement of the complexities of the water treatment process and cleanliness of the facilities. Tours are usually available by appointment during the day or early evening.

Promotion of Recreation

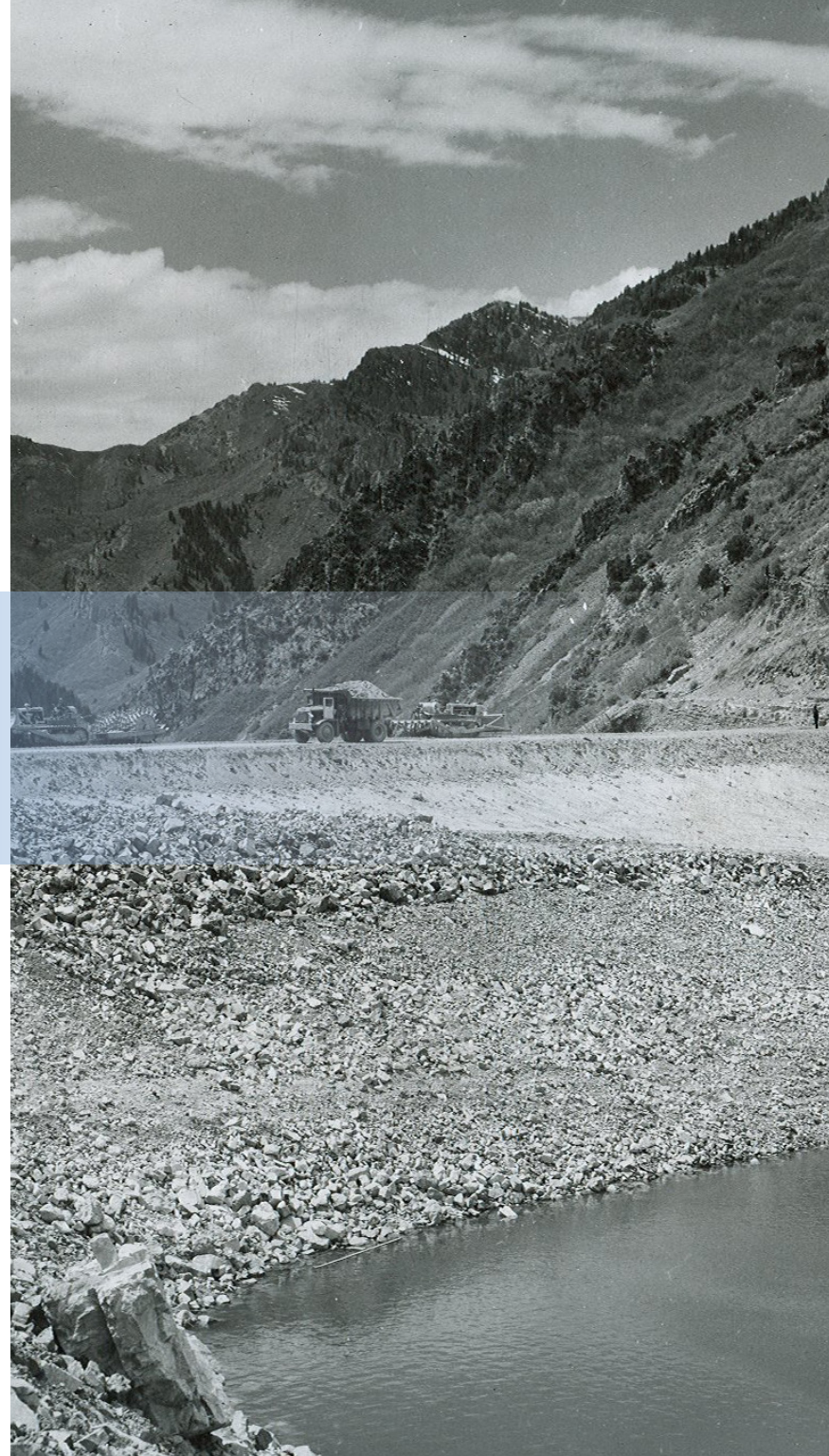
The District works with several entities to provide recreation opportunities for the state including the National Forest Service, the Bureau of Reclamation, State Parks, and various cities and counties. After the completion of the 2-foot raise of the A.V. Watkins Dam, parts of the recreation areas within the state park were below the new high water level including several camp sites, a vehicular bridge, pedestrian bridges, roadways, and utility appurtenances. The District worked in cooperation with Utah State Parks and the Bureau of Reclamation to raise these facilities above the new high water level in time for Memorial Day weekend.

The health and viability of the fisheries within the river basin is also a concern of the District, and the District has been involved with the Division of Wildlife Resources and other stakeholders along the river to promote minimum flow levels as well as better water quality. Recreation such boating, water sports, kayaking, fishing, and camping as well as water supplied for snowmaking are made possible in part to the reservoirs and river flows managed by the District.



The History of Weber Basin Water Conservancy District

The District has the regional water supply responsibilities for Davis, Weber, Morgan, Summit, and Box Elder counties. The District wholesales water to and develops additional supplies for cities, districts, and companies within those counties. Those agencies in turn distribute and retail to their respective customers. Within the District's boundaries, there are over 2,500 square miles of land. The District is unique in that it provides many categories of water including drinking water, agricultural water, urban secondary water, industrial water, and replacement water. Weber Basin delivers more than 225,000 acre-feet of water annually: 90,000 acre-feet for municipal and industrial uses and 135,000 acre-feet for irrigation, which includes secondary pressure irrigation systems.





The District is governed by a nine member Board of Trustees: three from Davis County, three from Weber County, one from Ogden Valley, one from Morgan County, and one from Summit County. The General Manager for the District is Tage I. Flint. Under his direction, there are three Assistant General Managers, Mark Anderson, Scott Paxman, and Darren Hess; John Davis, the Controller and Human Resource Manager; and five Department Managers: Sherrie Mobley, Administration Manager; Mark Clark, Maintenance Manager; Chris Hogge, Water Supply and Power Manager; Brad Nelson, Municipal & Industrial Water Manager; and Jon Parry, Engineering Manager.

The United States Bureau of Reclamation began planning for the Weber Basin Project in 1942, and Congressional authorization of the Project was received in 1949. The Weber Basin Water Conservancy District was created on June 26, 1950, by a decree of the Second District Court of Utah, under the guidelines of the Utah Water Conservancy Act. The District was formed to act as the local sponsor of the federal project and to further supply water resources to the population within its boundaries.

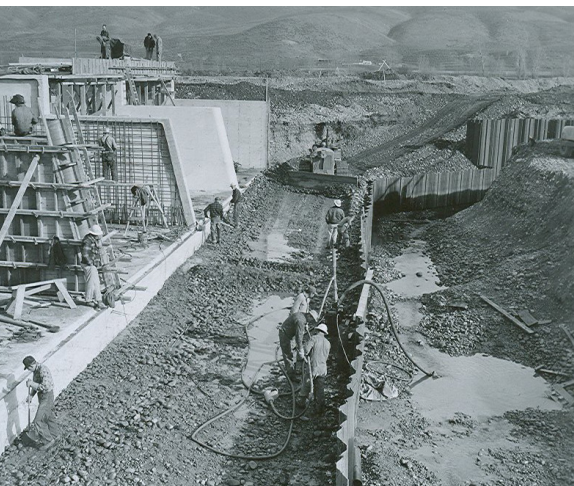
The original Weber Basin Project was constructed by the Bureau of Reclamation from 1952 through 1969 and includes canals, power plants, irrigation and drainage systems, and six major reservoirs on the Ogden and Weber rivers. Three of the six reservoirs—Wanship, Lost Creek, and East Canyon along with the non-District Echo Reservoir—regulate the flow of the Weber River before it emerges from its mountain watershed to the Wasatch Front. Causey and Pineview reservoirs regulate the flow of the Ogden River before it emerges from its watershed and joins the Weber River. Willard Bay, the largest reservoir, is an off-stream project that stores water from the lower reaches of both the Ogden and Weber rivers for uses and exchanges on the Wasatch Front. Subsequent to the original Project, the District constructed a seventh dam, Smith and Morehouse, on the upper reach of the Weber River in Summit County.

The complex transmission system that was constructed as part of the Project includes facilities such as Gateway Canal and Tunnel, the Weber and Davis aqueducts, Ogden Valley Canal and Diversion Dam, Slaterville Diversion Dam, and Stoddard Diversion Dam as well as dozens of secondary reservoirs and many miles of canals, pipelines, and other laterals. Hydropower stations located at Causey Dam, Wanship Dam, and Gateway Canal generate power for District consumption and excess power sales.

In order to repay all of the original Project costs and operate and maintain (O&M) all Project facilities, the District entered into several contracts with the United States. Funding for repayment and O&M of the federal project and the development and O&M of other water sources and facilities is generated from water sales and the original ad valorem tax on properties within District boundaries that was approved by voters in 1952 and again in 1961.

In addition to supplying water, the District also provides other District-wide and statewide services. District facilities are used for flood control during wet seasons, recreation, stream flow management, and watershed protection. Thousands of recreation visitor-days are logged every year at the reservoirs for camping, fishing, boating, and assorted water sports. River releases for fishery management and kayaking are made annually by the District, and water supplies are also used to maintain several wildlife management areas.

Future issues for the District center around development of sufficient water supplies and facilities to meet the needs of the growing population within its boundaries. Water conservation plays an increasingly important role as new sources are likely to be difficult and expensive to develop. Water demands on the District are projected to double in the next 50 years even with the assumption that the existing per capita use will reduce significantly. These projections, along with the constant need to upgrade and rehabilitate existing infrastructure, push the financial needs projections to more than six billion dollars over the next 50 years. Beyond conservation, new projects will include completion of groundwater drilling, change of use of local river supplies, and probably a large regional importation project.



Weber Basin Water Principal Infrastructure

DAMS & RESERVOIRS

Name	Location	Type of Dam	Height (ft)	Total Capacity (AF)	Usable District Capacity (AF)	Acquisition Dates
Causey	Eastern Weber County	Earth & Rock	200	7,870	6,870	1962-1964
East Canyon	Southern Morgan County	Concrete Arch	245	51,200	20,100	1965-1967
Lost Creek	Eastern Morgan County	Earth & Rock	220	22,500	20,010	1964-1966
Pineview	Ogden Valley, Weber County	Earth & Rock	91	110,150	66,228	1955-1957
Smith & Morehouse	South-eastern Summit County	Earth & Rock	82	8,350	6,560	1984-1988
Wanship	Summit County	Earth & Rock	156	62,120	60,860	1954-1957
Willard	Southern Box Elder County	Earth	36	227,189	202,160	1957-1963

AQUIFER STORAGE & RECOVERY

Name	Location	Pond Area (acres)	Capacity (cfs)	Acquisition Dates
ASR	Weber County	7.5	10	2002

DIVERSIONS

Name	Location	Pass-Through	
		Capacity (cfs)	Acquisition Dates
Ogden Valley	South Fork of Ogden River	2,000	1962-1964
Slaterville	Weber River west of Ogden	9,000	1956-1957
Stoddard	Weber River north of Morgan	6,000	1955-1956

HYDRO GENERATION POWER PLANTS

Name	Location	Type	Capacity (kw)	Acquisition Dates
Causey	Eastern Weber County	2 unit	2,100	1999-2000
Gateway	Mountain Green	1 unit	4,275	1957-1958
Wanship	Wanship	1 unit	1,950	1957-1958

CANALS, TUNNELS & PIPELINES

Name	Location	Type	Capacity (cfs)	Length (miles)	Acquisition Dates
Davis Aqueduct	Davis County	Concrete pipe	355	23.0	1954-1957
Gateway Canal	Morgan County	Concrete-lined	700	8.5	1954-1956
Gateway Tunnel	Morgan and Davis County	Concrete-lined	435	3.3	1952-1954
Layton Canal	Davis County	Earth-lined/concrete-lined/pipe	260	18.0	1962-1964
M&I Pipelines	Davis and Weber County	Varies 6"-48"	varies	80.0	1955-2012
Ogden Valley Canal	Weber County	Part earth-lined	35	9.2	1962-1964
Secondary Pipelines	Davis and Weber County	Varies 2"-36"	varies	325.0	1955-2012
Weber Aqueduct	Weber County	Concrete pipe	80	5.0	1954-1956
Western Summit County	Summit County	Ductile Iron	8.9	9.0	2013*
Willard Canal	West Weber County	Earth-lined/concrete-lined	1,050	11.0	1961-1963

Weber Basin Water Principal Infrastructure

PUMPING PLANTS

Name	Location	Capacity (cfs)	Height of Lift (ft)	Acquisition Dates
Antelope Booster	Layton	22	50	1978
East Bountiful	Bountiful	18	475	1955
East Layton	Layton	9	65	1955
Gateway	Mountain Green	150	150	1995
Kanesville #1	West Haven	3	218	2000
Kanesville #2	West Haven	10	315	2001
Layton Canal	West Haven	260	23	1955
Old Post Rd Booster	Ogden	6	200	1960
Rockport	Wanship	25	45	2009
Roy Drought Relief	Roy	150	340	1981
Sand Ridge East	Layton	9	92	1955
Sand Ridge West	Layton	15	138	1955
South Davis	Bountiful	18	530	1955
Unitah Bench	South Ogden	18	365	1955
Val Verda	Bountiful	6	240	1955
West Haven #1	West Haven	10	218	2003
West Haven #2	West Haven	3	230	2010
Willard No. 1	West Weber County	500	45	1960
Willard No.2	West Weber County	250	20	1960

UNDERGROUND WATER WELLS

Name	Location	Type	Capacity (cfs)	Acquisition Dates
Ben Lomond	Harrisville	M&I	1.8	2001
Clearfield #1	Clearfield	M&I	5.0	1961
Clearfield #2	Clearfield	M&I	5.0	1961
Davis Boulevard	Bountiful	M&I	2.2	2003
District Well #2	South Weber	M&I	11.0	1985
District Well #3	South Weber	M&I	10.0	1990
Fairfield	Layton	M&I	10.0	1992
Farmington #1	Farmington	Irrigation	5.0	1995
Farmington #2	Farmington	Irrigation	5.0	1996
Laytona	Layton	M&I	5.0	1958
Mills Park	Woods Cross	Irrigation	2.2	2011
North Ogden	North Ogden	M&I	1.8	1967
North Weber	Harrisville	M&I	1.6	2006
Orchard Dr. Well	Bountiful	M&I	0.8	1991
Riverdale	Riverdale	M&I	6.6	1960
South Davis	Woods Cross	M&I	5.2	1961
South Weber #1	South Weber	M&I	10.0	1962
South Weber #2	South Weber	M&I	10.0	1962
Washington Terrace	Washington Ter.	Irrigation	4.0	2013
West Bountiful 5th South	West Bountiful	Irrigation	4.0	1992
West Bountiful Golf	West Bountiful	Irrigation	2.0	1993

WATER TREATMENT PLANTS

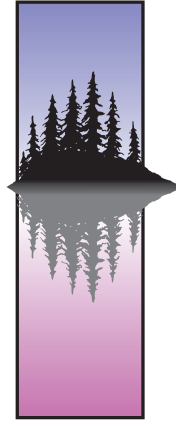
Name	Location	Capacity (MGD)	Acquisition Dates
Davis North WTP	Layton, Davis	46	1955
Davis South WTP	Bountiful, Davis	16	1955
East Canyon WTP	Jeremy Ranch, Summit	5.5	2013*
Weber South WTP	Ogden, Weber	32	1955

*Infrastructure acquired by the District

AF=Acre Feet • CFS=Cubic Feet per Second • MGD= Million Gallons per Day



Photo Credit: Gordon Barrow



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