

2020



Photo Credit: Kathy Wood



Photo Credit: Chad Montgomery



**WEBER BASIN WATER
CONSERVANCY DISTRICT**

Annual Summary

General Manager's Message



Tage I. Flint, PE
General Manager/CEO

Mr. Flint has worked in the water industry for over 30 years. He is a registered professional engineer and resides in Davis County.

We respectfully submit to you our 2020 summary of operations. All would likely agree that 2020 was a challenging year which we will not soon forget. What is apparent in the briefest of readings is that the Weber Basin Water team remained steadfast in completing its task of delivering uninterrupted and high-quality water service to our 700,000 customers in five counties. Throughout the worldwide COVID-19 pandemic, the vast majority of our employees reported to work every scheduled day. Their work is not that which could be accomplished by telecommuting as we operate, maintain, repair, replace, and analyze the water and infrastructure which is continuously depended upon by our citizens and businesses. In my estimation, this makes our employees heroes in the community, and they have my thanks.

Our Board of Trustees and administration staff deserve our thanks as they have sustained the business side of our District while navigating countless electronic meeting platforms, employee health screenings, physically distanced meetings, contracts, personnel needs, and finances. All accomplished amazing tasks while dealing with a whole new set of circumstances.

The pages that follow also illustrate the many accomplishments of our board and staff in dealing with huge infrastructure projects across five counties. Accompanying those are the countless hours of diligence in operating dams, treatment plants, hydropower plants, wells, pump stations, aqueducts, and an environmental laboratory.

In reporting a very challenging 2020, it is important to note that the Weber Basin family lost an employee's spouse, a retiree, and several parents of employees to the pandemic. While mourning their passing, I hope for a recapture of a previous time and for all the deserved successes in 2021.





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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 Utah State Senate. The Board appoints a General Manager who serves as the Chief Executive Officer of the District.



Dee Alan Waldron

Trustee, Morgan County

The representative from Morgan County, Mr. Waldron is a successful private business owner and farmer. He served as President of the Board in 2020. He is a past Morgan County Commissioner and serves as a director on several local water boards.



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.



Kym O. Buttschardt

Trustee, Weber County

Mrs. Buttschardt was appointed to the Board to represent Weber County. She is a successful restaurateur and entrepreneur and has been a CPA. She is an Ogden native who is very active in the community, serving on several local 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 served as a general authority and Church Historian for the LDS Church. He also serves as a member of the Utah State Board of Regents.



P. Bret Millburn

Trustee, Davis County

Mr. Millburn was appointed to the Board to represent Davis County and has served as a three term Davis County Commissioner. He has always been actively involved in civic and religious affairs, serving in various leadership capacities.



Scott K. Jenkins

Trustee, Weber County

Mr. Jenkins represents Weber County and is currently serving as a Weber County Commissioner. He is a past Utah State Senator where he served as the Majority Leader from 2009 to 2012. He is also a successful business owner and very active in the community.



Randy B. Elliott

Trustee, Davis County

Mr. Elliott was appointed to represent Davis County. He is currently a Davis County Commissioner. He has been in several leadership positions and previously worked with legislative officials in Washington DC. He has spent his career building successful businesses and is very committed to his community.



Angie Osguthorpe

Trustee, Weber County

Appointed to the Board as a representative of Weber County, Ms. Osguthorpe is currently the President/CEO of the Davis Chamber of Commerce. She is involved in many civic organizations and enjoys volunteering and participating in athletic events.

Weber Basin Water • Service Area Map

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 municipal and industrial, and groundwater replacement.



Administration

Executive



Tage I. Flint, PE
General Manager
Chief Executive Officer



Scott W. Paxman, PE
Assistant General Manager
Chief Technical Officer



Darren E. Hess, PE
Assistant General Manager
Chief Operations Officer



Jonathan F. Parry, PE
Assistant General Manager
Strategic Initiatives

Brittney Bateman		Finance & Economics Director
Susan Eppens		Project Specialist
Marissol Martinez		AP/AR Clerk & Administrative Specialist
Kathy Wood, CGFM, SPHR		Human Resources Manager

Administrative

Sherrie Mobley		Administration Manager/CAO
Calysta Bravo		Accounting & Budget Officer
Rebecca Delius		Purchasing Assistant & Records Management Specialist
Deena Harris		Customer Service Specialist
James Rhoads		Courier
Kendall Searle		Customer Service Supervisor & Contract Administrator



Sustainment

Construction & Maintenance

- Samuel Sorensen, PE | Manager, Construction & Maintenance
- Jordan Clontz | Crew Chief Preventative Maintenance
- Kolt Douglas | C&M Worker
- Carson Farrell | C&M Worker, Irrigation Operator
- Russell Fearn | Crew Chief, Work Orders
- Tracy Hess | M&I Distribution Technician
- Jacob Jaques | Crew Chief, Special Projects
- Nolan Kelley | Superintendent Construction & Maintenance
- Paul Kiesz | Construction Mechanic
- Joshua Kite | C&M Worker/ROW
- Layne Leonard | C&M Worker
- Connor Nelson | C&M Worker
- Tanner O Bray | Welder
- Trase Penman | Crew Chief, Right-of-Way
- Robyn Ward | C&M Worker
- Scott Wilson | Crew Chief, Special Projects
- Marci Wood | Inventory & Asset Specialist

Engineering

- Derek Johnson, PE | Manager, Engineering
- Zeke Bardwell | Inspector
- Joshua Hogge, PE | Engineer
- Briant Jacobs, PE | Engineer
- Marc Montgomery | Inspector
- Riley Olsen, PE | Engineer
- Casey Potter, PE | Engineer
- Zachary Wofford | Engineer

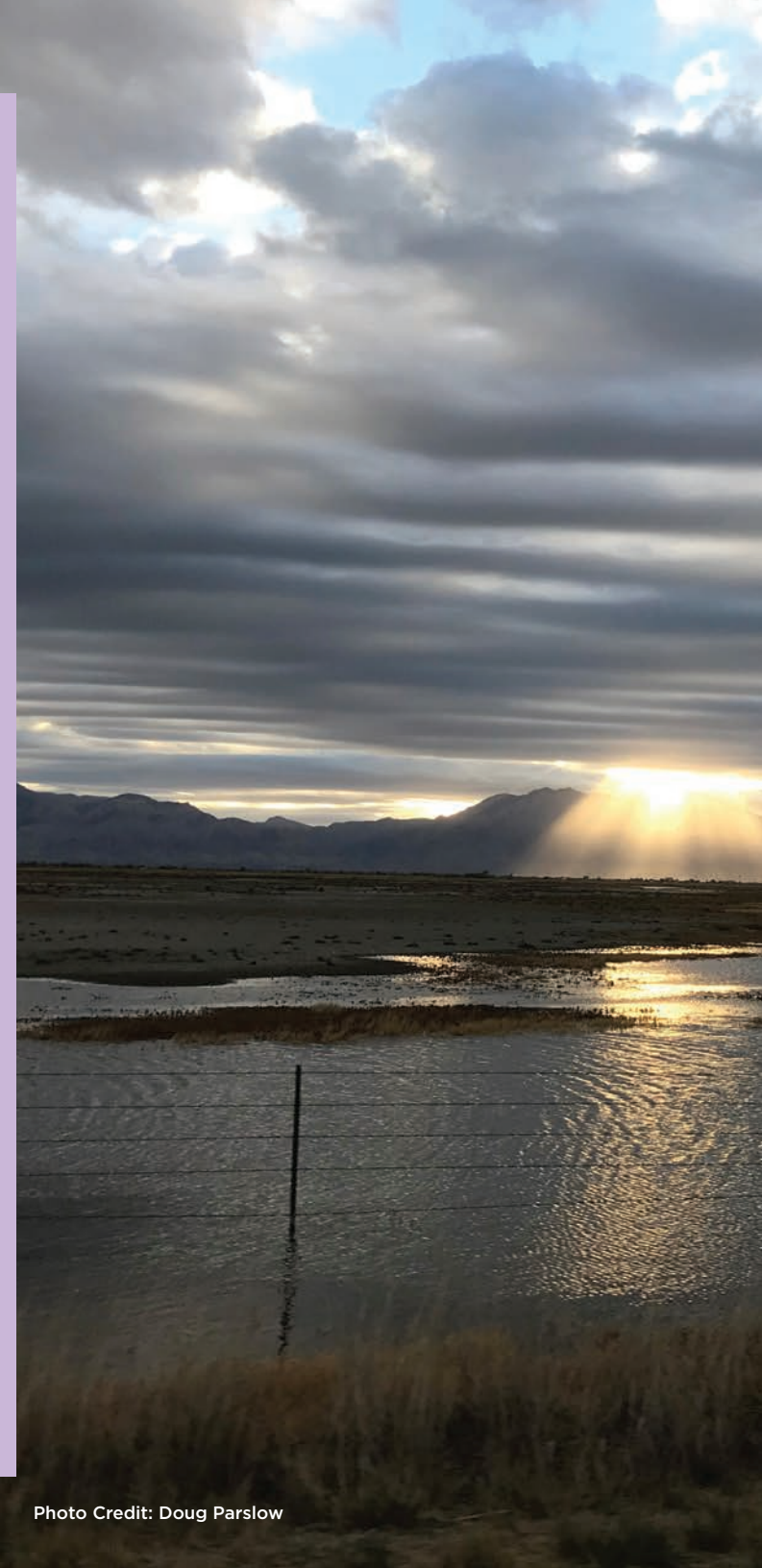
Operations

Municipal & Industrial Water

Brad Nelson, PE	Manager, M&I and Lab	Adam Moulding	Water Treatment
Nathan Allison	Water Treatment		Plant Operator
	Plant Operator	Douglas Parslow	M&I Distribution
Jeff Connor	Plant Manager, DNWTP		Operator Lead
Octavious Dickerson	Water Treatment	Aaron Pearce	Water Treatment
	Plant Operator		Plant Operator
Bart Fearn	Supervisor, Treatment	Auggie Rose	Plant Manager, WSWTP
	Plant Operations	Clay Schmalz	Treatment Plant
Nathan Frew	Plant Manager, DSWTP		Maintenance Foreman
Dean Gifford	Water Treatment	Kenny Schow	M&I Distribution Operator
	Plant Operator	Ian Smith	Water Treatment
Kevin Green	Water Treatment		Plant Operator
	Plant Operator	Mitchell Sorenson	Water Treatment Solids
Thomas Hamblin	Water Treatment		Handling Specialist
	Plant Operator	Paul Spens	M&I Pipeline Operator
Geoffrey Howell	Water Treatment	Chase Tate	Water Treatment
	Plant Operator		Plant Operator
John Jacobson	Water Treatment	Janice Terry	Water Treatment
	Plant Operator		Plant Operator
Tyler Jensen	Water Treatment	Shane Visser	Water Treatment
	Plant Operator		Plant Operator
Lee Jones	Water Treatment	Jeffrey Weyburn	Water Treatment
	Plant Operator		Plant Operator
Brett Kennedy	Water Treatment	Jason Kim	Lab Director
	Plant Maintenance		Water Quality Manager
Rex Lee	Water Treatment	Amanda Delgado	Chemist
	Plant Operator	Kelly Holmes	Chemist
		Blake Newman	Lab Tech

Water Supply & Power

Chris Hogge, PE	Manager,	Alan Hatch	Irrigation Operator
	Water Supply & Power	Jeff King	Irrigation Operator
Casey Folkman	Power Plant Operator	Lee Smith	Irrigation Operator
	& Dam Tender	Benjamin Love	Lead Irrigation Operator
Chad Montgomery	Power Plant Operator	Michael Midgley	Superintendent,
	& Dam Tender		Water Supply & Power
Bobby Waldron	Power Plant Operator	David Giles	Electrician
	& Dam Tender	Jordan Hendrix	Electrician
Gordon Barrow	Irrigation Operator	Jason O Bray	Lead Electrician
	& Dam Tender	Kenneth Turner	Lead Electrician





Strategic Initiatives

Conservation & Research

- HattieAnn Fassold | Conservation Garden & Education Coordinator
- Lucy Gelb | Conservation Program Analyst & GIS Specialist
- Cindy Hellewell | Tour Guide
- Brooke Henderson | Tour Guide
- Corinne Hoffmann | Tour Guide
- Ashley Nay | Water Resource Environmental Analyst
- David Rice | Conservation Program Coordinator
- Abby Smith | Meter Technician

Information Services

- Greg Pierce | Information Services Division Manager
- Gary Allen | SCADA Specialist
- Michael Alverson | Systems Administrator
- Alex Baldwin | Application Developer
- Casey Bitton | SCADA Specialist
- Talon Thurgood | GIS Specialist

Retirement



Todd Pollock

Todd Pollock worked at the District for 26 years. At the time of his retirement he was working at the Davis South Water Treatment Plant as an operator.

Sustainability

Sustainable and efficient use of our limited water supply ensures our ability to meet the present needs of our communities without compromising the ability of future generations to meet their needs. The District continually updates and pursues plans to ensure our ability to deliver reliable, safe, and ample supplies for present and future demands. Efficient use of our water supply facilitates cost savings, environmental benefits, and improved supply reliability.

Conservation By the Numbers



1,744
CLASS ATTENDEES
*(694 Views
of Recorded Classes)*



60,000+
**CUSTOMER
INTERACTIONS**
*(letters, portal
notifications, and
usage statements)*



3,500
**STUDENTS ATTENDED
VIRTUAL AND IN
PERSON SCHOOL
TOURS**



10,742
**TOTAL SECONDARY
METERS INSTALLED**

Watershed Protection

The District began work on the Lower Dalton Creek Culvert Fish Passage. Dalton Creek is a tributary to the Weber River located near the town of Peterson. The culvert is located under the access road for the Gateway Canal. This project will double the culvert size and decrease the slope, bringing the outlet to 9 feet above the streambed. This design will allow migratory fish to pass through and access the spawning habitat and ensure that critical infrastructure is not impacted.

Recreation

The District's reservoirs are the source of extensive recreation for communities in northern Utah and surrounding areas. Recreation is managed by the Forest Service at Pineview, Causey, and Smith & Morehouse reservoirs. The Utah Division of Parks and Recreation oversees recreation at Willard (A.V. Watkins), East Canyon, Lost Creek, and Rockport. Facilities for picnicking, camping, swimming, boating, water skiing, fishing, and hunting, as well as sanitation facilities, are available at the recreation sites.



Photo Credit: Greg Pierce



Information Services Division

After considerable discussion and thought regarding the long-term needs of the District, a new division, the Information Services Division, was formed operating under Strategic Initiatives. Information Technology, Programming and SCADA staff were all placed within this new division. Tasked with developing and maintaining the District's ever-expanding customized applications and programs and ensuring the efficient operation and long-term viability of the District's IT, GIS, and SCADA systems, this division will be busy. This shift will allow the District to be even more responsive to a constantly changing environment. Staff will be provided with opportunities to assume even greater ownership and initiative while continuing to provide support to all aspects of the District's operations.

Flood Control

Due to above normal runoff in 2019, the storage holdover going into water year 2020 was well above normal at the reservoirs on the Weber and Ogden rivers. Snowpack accumulation during the winter was near average up to April 1, 2020. Runoff forecasts varied between 70% and 100% of normal with dry soil moistures in the fall tempering runoff projections. Prior to May, forecasts indicated the expectation of adequate runoff to fill reservoirs, however, with flood control standards requiring the reservation of significant storage space in our reservoirs, the filling process had to be slowed through water release to meet those requirements. April and May brought extremely dry spring weather which resulted in the rapid reduction of snowpack with much of it soaking into the ground before making it to the streams. As the runoff progressed, the rapidly changing conditions resulted in actual runoff for the season falling well below earlier projections resulting in some reservoirs not reaching their full two year capacity.

Earthquake

The global pandemic was not the only earth-shaking event in 2020. On March 18th at 7:09 AM, a 5.7 magnitude earthquake, epicenter in Magna, shook the entirety of the District's service area. This event took the District, and all of Utah, by surprise. Nevertheless, the District responded quickly, inspecting all facilities and infrastructure, once again, ensuring continued service to our customers.

Community Outreach

The Learning Garden is the center of water education and demonstration focused to reach water users and motivate positive change in water use behaviors. As a result of the global pandemic and restrictions on gatherings, the District quickly adapted and transitioned from in-person classes to an online platform. This transition enabled continued interaction between the District and our customers with the ability to record classes for future viewing and increase participation. In future years, the District plans to incorporate several online classes as a result of the success seen this year.

Tapping Into Our People

Core Values

This year the District focused on the core value Mutual Respect. In a work relationship, Mutual Respect is the recognition that two or more individuals have valuable and important contributions to make. We can encourage and strengthen Mutual Respect in the workplace with time, with patience, by listening, by laughing, and with honesty.



WBWCD

Accomplishments

- Updated Emergency Response and Communications Plan
- Updated Continuity of Operations Pandemic Response Plan
- Implemented new online Employee Handbook

WBWCD Awards

- Engineering News Record – Best Green Project 2020 for WERC Building
- Cigna – Certificate of Recognition for Leadership

Hiring Stats

- Processed 464 applications
- Interviewed 99 applicants
- Hired 11 new full-time employees
- Promoted 6 employees to other positions
- Hired 1 intern
- Hired 7 seasonal employees

Pandemic

Throughout the ever-changing regulations and recommendations regarding the pandemic, the District's day to day operations remained undisrupted. Equipment and software were upgraded to facilitate remote work, a rotating schedule was put into effect, and a screening process was implemented. By executing its Pandemic Continuity of Operations Plan, the District was able to continue working on behalf of the residents it serves to deliver reliable, safe, and ample supplies of water

Water Treatment and Distribution Operator Training

Even with the pandemic, the District was still able to provide the free annual training for water system operators throughout the state. This training helps keep qualified, educated operators at the controls of water treatment and water delivery for all our communities. The District had 70 attendees in 2020.





Employee Years of Service Awards

The District is pleased to recognize the dedication of its employees year after year.

5 Years of Service

Adam Moulding
Chad Montgomery
Derek Johnson
Janice Terry

15 Years of Service

Deena Harris
Rebecca Delius
Lee Smith
Michael Alverson

10 Years of Service

Kendall Searle
Greg Pierce
Rex Lee
Dave Ure

25 Years of Service

Benjamin Love

30 Years of Service

Chris Hogge
Scott Paxman

35 Years of Service

Bart Fearn

Employees of the Year



Marc Montgomery



Lee Smith



John Jacobson

Infrastructure Highlights



Hwy 89 Pipeline Installation

- Part of UDOT's \$489 million project to convert Highway 89 to a freeway
- District oversaw the design and relocation of our culinary and irrigation lines
- Relocated pipeline was upsized to meet future demands
- New pipeline consists of 8,800 feet of 30" and 36" cement mortar lined and coated welded steel pipe and 5,395 feet of 24" ductile iron pipe

Secondary Meter Project

- Installed 970 retail secondary meters in Woods Cross
- Project encompassed over half the secondary connections in Woods Cross
- Involved many deep connections to raise up for retrofitting
- 30% of project funded through use of grant monies

Lost Creek Dam

- Prepared and recoated the lower half of the elevator shaft
- Upgraded all hydraulic piping to stainless steel
- Bringing facility up to date and future proofing





Photo Credit: Sam Sorensen

Stoddard Diversion Traveling Water Screen Replacement

- Rehabilitation and update of existing screening system
- System filters out small debris and moss, relieving the treatment process downstream
- New screens were retrofitted to existing foundation and upgraded to include the autonomy to measure the water level differential between screens and automatically cycle, ensuring continued and dependable water flow
- New screens connect to the SCADA system allowing remote monitoring and control

Davis Aqueduct - 78" Slide Gate Installation Project

- Completed in preparation for the UDOT Highway 89 construction project
- Designed and installed slide gate at the 1.9 Vent Structure on the 84" Davis Aqueduct
- Allows operational flexibility to shut down a portion of the aqueduct in case of an emergency while keeping water supplied to the Davis North Water Treatment Plant

12th Street Culinary Pipeline Replacement

- Part of Weber County's roadway project to improve 12th Street
- Replaced existing 16" steel line installed in the 1950's with 24" PVC pipeline which improved hydraulic capacity and allows for future growth in the Little Mountain area
- Starting at Weber River, a steel pipe bridge was installed and ended at approximately 7100 West



Photo credit: Zeke Bardwell



Aqueduct Improvements

- District used the UDOT shutdown to make several improvements along the aqueduct and increase shutdown protection
- Improvements included installation of meters and guard gates

Meter Vaults for M&I and WSP

- Installed meter vaults at 20+ sites
- Part of District wide wholesale meter implementation project
- Installed meter vaults on all major culinary and secondary turnouts
- Each vault is a significant project, complete with isolation valves, meters, access, and either SCADA or radio
- Allows customer agencies and District to access flow information in real time

Secondary Reservoir Cleaning and Dredging

- 18.0 Lower and Upper reservoirs were dredged and cleaned
- Used the District owned long stick excavator and haul equipment
- Results in the reservoirs regaining their full capacity to store water



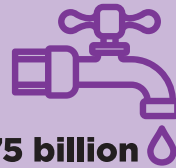
Photo Credit: Zeke Bardwell





Photo Credit: Briant Jacobs

2020 By The Numbers



75 billion
gallons of total water delivered



700,000
people served



4.5 million
gallons of treatment chemicals used



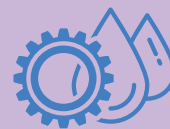
2,100 tons
treatment solids hauled



23,000
water quality tests performed



11,500
lab samples processed



\$3.8 billion
facilities protected and maintained



365 days
facilities were in operation

Planning for the Future

Studies and Plans

Water Conservation Management Plan: This plan will provide the District a forecast of future water demands. It will also offer an evaluation of the water conservation demand management alternatives, general and site-specific conservation programs, and other water efficiency measures in terms of water savings, cost, and cost-effectiveness from various perspectives including public acceptability and ease of implementation. This plan will provide the District with a roadmap to achieve District defined per capita consumption goals within the District's service area.

Climate Variability Study: In conjunction with Utah State University, Western Water Assessment, and the University of Utah, the District is assessing the wide range of potential hydrologic impacts to the Weber drainage that may result due to a changing climate. This study specifically addresses future precipitation, temperatures, annual streamflow, future potential evapotranspiration and water use. While our ability to forecast the exact conditions under which we will be operating in the future is limited and full of uncertainty, this study will provide the District with insight into the range of potential futures we may experience, provide levels of confidence in future projections, and allow for educated planning efforts.

USU Daytime Watering Study: The District currently restricts daytime watering. This conservation strategy was implemented largely based on studies and experience demonstrating decreased efficiencies associated with watering during the hottest, driest and more wind prone times of day. This strategy, as with almost all conservation programs, has unintended impacts to other District operations. The District has partnered with Utah State University, and several other Conservancy Districts within the state, to complete a study with a goal of determining the actual benefits of this conservation strategy in our area. This study will utilize data collected over approximately three irrigation seasons and is currently anticipated to be completed towards the end of 2021.





SMART Controller Effectiveness Study: The District continues to evaluate the efficacy of various conservation programs and technologies. One such effort is the District's evaluation of the water savings resulting from the use of SMART irrigation controllers. This effort now consists of several groups of District customers and allows for comparison of various controller manufacturers, customer historic water use, and impacts of varying weather patterns over an irrigation season.

Bill by the Gallon Study: In an effort to determine the impacts to water usage and staff involvement that the District could reasonably anticipate if a usage billing conservation strategy was pursued, the District created a small pilot group of customers billed based off of their monthly usage. The volumes of water and the payments made by the pilot group are now tracked and analyzed to ensure equity amongst District customers, as well as to determine if this billing structure has meaningful impact to water usage patterns.



PREPARE 60

SECURING UTAH'S ECONOMIC FUTURE

Weber Basin Water Conservancy District partnered with Central Utah Water Conservancy District, Jordan Valley Water Conservancy District, and Washington County Water Conservancy District to establish a center to protect what we have, use it wisely, and provide for the future.

In 2020, Prepare 60 updated and published the SWIP or Statewide Water Infrastructure Plan. This plan is a comprehensive, long-term blueprint of Utah's future water needs. The plan is organized by Utah's 11 river basins, considers municipal and industrial water needs, and incorporates the projected population growth, per capita water use, and conservation achievements.

Finance and Economics

COVID-19 Impacts

The COVID-19 pandemic brought no significant impacts to the District's financials. Increased expenses due to PPE, supply chain issues, enhanced sanitizing, and requirements of the Families First Coronavirus Response Act were counteracted by decreased spending in personnel and travel, public outreach, and other community programs restricted by state and local guidelines. As the District received most of its annual water charges in December and January before the pandemic began, revenues were not adversely affected. The District also expects no shortfalls for FY2021.

State of Utah Secondary Metering Loan

The District contracted with the State of Utah for a \$2.7 million loan for the installation of 2,850 secondary meters in southern Davis County. This 1% interest loan was made available through the 2019 legislation that required the installation of secondary meters and provided low-cost funding for metering projects. The funds, which will be supplemented by WaterSMART grants, are expected to help finance the District's planned secondary metering phases for FY2020 through FY2022.

Financial Audit

The District continues to update some of its accounting practices and categories in its financial statements in order to provide a clearer financial picture. Staff completed an audit of the District's capital assets reported in its financial statements. The most significant change was the addition of capital contributions from third parties to District assets.

The District retired its 2010A bond issue, which funds were originally used for the expansion and upgrade of the Weber South, Davis North, and Davis South water treatment plants in 2002. The 2009B bond issue was called this year with the completion of the 2017 cross-over refunding, which gave the District better rates and more favorable bond terms.

The District collected \$47.3 million in revenues in FY2019, about \$1.3 million less than budgeted. The shortfall primarily came from the timing of reimbursements and grants, which will be received next fiscal year. Expenditures totaled \$71.6 million, which included \$22 million in capital improvement projects and federal facility repair and replacement. The difference between revenues and expenses was made up from the use of unspent bond funds from the 2017 and 2019 bond issues.

STATEMENT OF SOURCES AND USES OF FUNDS

Fiscal Year Ended June 30, 2020

RECEIPTS:

Water Sales	\$31,469,275
Taxes & Fee-in-lieu of taxes	10,925,454
Interest	2,167,676
Miscellaneous	2,722,457
Net Use of Loan/Bond Proceeds	34,944,191

TOTAL RECEIPTS:

\$82,229,053

EXPENDITURES:

Operating Expenses	\$21,245,182
Federal facilities R&R	1,060,429
Interest Expense	4,469,350
Loan & Bond Payments	23,224,250
Capital Improvements	20,481,176
Miscellaneous	1,109,421
Additions to Reserves	10,639,245

TOTAL EXPENDITURES:

\$82,229,053

STATEMENT OF NET POSITION

Fiscal Year Ended June 30, 2020

ASSETS:

Current Assets	\$78,108,952
Sinking Fund & Reserve Assets	36,616,751
Capital Assets (Net)	330,314,381
Deferred pension charge	993,775

TOTAL ASSETS & DEFERRED OUTFLOWS

\$446,033,859

LIABILITIES & NET POSITION:

Current & Other Liabilities	\$17,021,884
Long-Term Liabilities	160,915,200
Deferred Inflow of Resources	11,408,498
Net Position	256,688,277

TOTAL LIABILITIES & NET POSITION

\$446,033,859



Total Water Sales 230,950 AF



Summary of Irrigation Water Contracts - AF

Contracting Entity	Contract Amount	Delivery Loss	Net Useable	Contracting Entity	Contract Amount	Delivery Loss	Net Useable
Benchland Irrigation	4,975	498	4,478	North Round Valley	150	15	135
Bountiful Sub Water District	17,500	1,600	15,900	North Salt Lake (Foxboro)	800	0	800
Centerville Duel Creek	2,891	264	2,627	Oakridge Country Club	500	50	450
Chalk Creek Irrigation	643	64	579	Ogden River Water Users Assoc.	3,705	283	3,422
CO-OP Farms Irrigation	300	30	270	Peterson Irrigation	614	61	553
Croyden Irrigation	450	45	405	Pintail Duck Club	100	10	90
Davis & Weber Counties Canal	985	0	985.0	Roy Water Conservancy District	365	0	365
Downs Creek Irrigation	100	10	90	Salmaho Irrigation	167	17	150
East Porterville Irrigation	200	20	180	So. Davis County Water ID	3,210	321	2,889
East Wanship / Gibbons & Pace	100	10	90	South Morgan Water Company	400	40	360
Eden Irrigation	1,200	120	1,080	South Ogden Conservation District	2,345	234	2,111
Emmertsen Irrigation	100	10	90	South Weber Water ID*	2,223	0	2,223
Felt, Peterson, Slater Irrigation	100	10	90	Sun Hills Golf Course	496	37	459
Haight Creek Irrigation	7,008	692	6,316	Syracuse City	1,146	115	1,031
Hill A.F.B. Golf Course	640	64	576	Uintah Mountain Streams	200	20	180
Hill Field At 193	139	14	125	Valley View Golf Course	370	37	333
Hooper Irrigation	5,663	566	5,097	Warren Irrigation	700	70	630
Huntsville Irrigation	600	60	540	Weber Basin Job Corps	300	30	270
Huntsville So Bench Irrigation	600	60	540	Weber-Box Elder CD	4,254	210	4,044
Kays Creek Irrigation	2,000	200	1,800	Weber Canal Company	200	20	180
Kaysville Irrigation	1,691	178	1,513	Welch Field Ditch	240	24	216
Lagoon Amusement Park	225	23	202	West Bountiful Golf	294	29	265
Layton Canal & Irrigation Co.	5,491	549	4,942	West Hoytsville Irrigation	300	30	270
Littleton-Milton Irrigation	300	30	270	West Wanship Irrigation	150	15	135
Middle Fork Irrigation	830	83	747	Wilson Irrigation	1,500	150	1,350
Mountain Valley Canal Irrigation	1,297	130	1,167	Subtotal	81,069	7,163	73,906
Mountain View Irrigation	153	0	153	Retail Irrigation Water Sales	54,036	5,404	48,632
North Morgan Irrigation	160	16	144	Totals	135,105	12,567	122,539

*Contract is a D&W stock exchange (370.5 D&W shares) D&W issued 6 AF of water per share in 2020.
The following entities added to their contract during 2020: Benchland Irrigation (500) Davis & Weber Counties Canal (34.8)
Mountain View Irrigation (52.8) Syracuse City (33.1) Weber-Box Elder Conservation District (21)

Summary of M&I Water Contracts - 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	38.00
OGDEN CITY	1,500.00
PARK CITY	2,900.00
PARSONS	22.00
SUMMIT WATER DIST. COMPANY	1,150.00
TESORO	5.00
TOTAL UNTREATED	16,995.00

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	7,329.00
MIDA-FALCON HILL	10.00
MUTTON HOLLOW WID	220.00
NORTH SALT LAKE CITY	2,015.00
SOUTH DAVIS COUNTY WID	360.00
SOUTH WEBER CITY	1,097.51
SUNSET CITY	1,400.00
SYRACUSE CITY	1,925.00
TESORO	5.00
WASATCH INTEGRATED WASTE MGMT	10.00
WEBBS CANYON WATER COMPANY	9.00
WEBER BASIN JOB CORP	60.00
WEST BOUNTIFUL CITY	750.00
WEST POINT CITY	700.00
WOODS CROSS CITY	100.00
TOTAL DAVIS COUNTY	31,277.30

TREATED WATER CONT.

CONTRACTING ENTITY	CONTRACT AMOUNT
MORGAN COUNTY	
REPLACEMENT WATER	4,581.65
SUMMIT COUNTY	
REPLACEMENT WATER	12,779.00
WEBER COUNTY	
SILVERLINE	5.00
BONA VISTA WATER IMP. DIST	3,786.00
GREAT SALT LAKE MINERALS	850.00
HOOPER WATER IMP. DISTRICT	101.3
MJK FABRICATION	5.00
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	714.71
UINTAH HIGHLANDS WID	247.00
UINTAH CITY	468.00
WASHINGTON TERRACE CITY	1,000.00
WEBER COUNTY-MOULDING	5.00
WEST WARREN- WARREN WID	518.45
WESTERN BASIN WATER COMPANY	2,380.00
WESTERN ZIRCONIUM	560.00
REPLACEMENT WATER	7,083.50
TOTAL WEBER COUNTY	23,128.46

TOTAL REPLACEMENT WATER	24,444.15
TOTAL TREATED WATER	54,405.76
TOTAL UNTREATED & TREATED	95,844.91

* Amount of Burch Creek water treated for South Ogden City:	640.4 acre-feet
* Amount of Holmes Creek water exchanged for Kaysville City:	331.2 acre-feet
* Amount of share water exchanged for Riverdale City:	53.5 acre-feet

The following entities added to their contracts during 2020: Taylor West Weber (70.76), South Weber City (28.8), West Warren - Warren WID (18.45), Uintah City (20.0), Summit Water Distribution Co (350), Western Basin Water Company (2380)

Project Power Operations

PEAK PROJECT POWER LOAD - KW

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Peak Power Load (KW)	1,618	4,844	3,404	1,645	5,668	6,235	7,471	8,205	7,797	4,759	2,472	2,447

PROJECT POWER GENERATION - KWH

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
*Net Generation													
Causey Plant	-17,300	-18,700	295,800	863,400	1,206,300	367,800	477,600	268,800	149,400	42,200	-16,500	-21,100	3,597,700
Net Generation													
Gateway Plant	-13,200	-21,440	1,899,170	1,657,140	1,186,460	1,685,700	1,577,320	1,125,490	1,071,280	329,910	-12,560	-12,400	10,472,870
Net Generation													
Wanship Plant	-18,800	164,200	938,900	86,000	160,100	1,320,100	1,281,000	1,225,000	1,056,100	418,400	-16,700	-19,700	6,594,600
Total Output	-49,300	124,060	3,133,870	2,606,540	2,552,860	3,373,600	3,335,920	2,619,290	2,276,780	790,510	-45,760	-53,200	20,665,170
Project Use	924,175	1,334,557	1,148,260	862,528	3,030,704	3,544,176	4,824,240	5,677,733	4,340,332	2,412,862	1,281,052	1,228,335	30,608,954
Delivered to CRSP	-956,175	-1,191,797	1,689,810	880,612	-1,684,144	-538,376	-1,965,920	-3,327,243	-2,212,952	-1,664,552	-1,310,312	-1,260,435	-13,541,484

* 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	2,128	6,240	7,974	2,772	3,318	2,028	1,422	600	0	0	26,482
Gateway	0	0	14,472	12,834	9,684	14,002	13,526	9,592	8,926	3,074	0	0	86,110
Wanship	0	2,160	8,876	1,562	1,240	12,090	12,690	12,678	11,626	5,410	0	0	68,332
Total	0	2,160	25,476	20,636	18,898	28,864	29,534	24,298	21,974	9,084	0	0	180,924

Reservoir Operations

Storage Content as of Last Day of Month - AF

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Causey	5,571	6,043	5,555	5,026	6,859	6,851	5,132	3,018	2,110	2,372	2,796	3,321
East Canyon	39,680	41,040	43,490	43,650	47,700	45,550	39,500	32,570	27,925	27,080	27,900	28,600
Echo	52,730	57,990	60,485	65,340	65,900	60,010	43,350	24,720	13,760	14,210	17,960	21,030
Lost Creek	14,762	14,906	15,460	17,680	20,190	18,780	16,507	13,515	12,220	11,895	11,977	11,997
Pineview	70,230	63,300	70,920	91,980	101,070	92,250	77,350	58,850	48,010	44,540	47,640	50,080
Smith-Morehouse	4,818	4,614	4,667	5,942	7,897	7,652	6,053	3,041	1,831	1,750	1,762	1,782
Wanship	49,630	50,300	48,340	50,450	55,110	59,310	49,870	39,500	29,580	26,610	28,720	30,310
Willard	190,630	192,332	199,651	199,652	194,638	183,727	170,838	155,199	142,788	138,523	135,347	134,854
Total	428,051	430,525	448,568	479,720	499,364	474,130	408,600	330,413	278,224	266,980	274,102	281,974

Total Releases - As Of The Last Day Of The Month - AF

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Causey	558	540	2,398	6,240	10,684	3,034	3,318	3,390	2,132	856	480	496	34,126
East Canyon	540	522	2,714	5,719	2,296	5,378	7,351	8,010	5,521	2,794	469	437	41,750
Echo	-	-	10,040	3,626	11,512	22,664	29,698	32,502	24,644	8,582	-	-	143,268
Lost Creek	527	493	527	549	858	2,496	2,812	3,480	1,664	758	480	496	15,140
Pineview	2,380	11,939	4,816	6,464	14,100	14,726	18,064	21,232	13,674	5,870	722	680	114,667
Smith-Morehouse	372	348	343	865	12,780	8,036	2,356	3,374	1,508	434	346	316	31,078
Wanship	1,542	2,764	8,876	2,710	4,604	13,377	14,347	14,390	12,643	6,320	1,509	1,556	84,637
Willard	472	336	436	630	5,264	6,916	8,306	9,080	7,042	1,532	1,356	1,318	42,688
Total	6,391	16,942	30,150	26,803	62,098	76,626	86,253	95,458	68,828	27,145	5,362	5,299	507,355

Net Production of Culinary Water from Treatment Plants & Wells - 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	797.00	26.57%	1319.39	30.68%	265.13	17.10%	2,381.51	55.48	2,436.99
FEB	653.00	21.77%	902.27	20.98%	155.49	10.03%	1,710.76	465.57	2,176.33
MAR	931.00	31.03%	1238.35	28.80%	0.00	0.00%	2,169.35	619.31	2,788.66
APR	1038.00	34.60%	1803.24	41.94%	267.20	17.24%	3,108.43	9.68	3,118.11
MAY	1303.00	43.43%	2369.35	55.10%	625.67	40.37%	4,298.02	950.99	5,249.01
JUN	1045.00	34.83%	2613.41	60.78%	513.39	33.12%	4,171.80	1114.60	5,286.40
JUL	1173.00	39.10%	2980.40	69.31%	598.31	38.60%	4,751.71	1841.71	6,593.42
AUG	890.00	29.67%	3029.41	70.45%	615.85	39.73%	4,535.25	2593.81	7,129.06
SEP	1008.00	33.60%	1927.38	44.82%	571.55	36.87%	3,506.93	1762.62	5,269.55
OCT	1127.00	37.57%	1249.88	29.07%	526.42	33.96%	2,903.30	768.35	3,671.65
NOV	887.00	29.57%	1031.01	23.98%	369.22	23.82%	2,287.23	37.29	2,324.52
DEC	975.00	32.50%	927.07	21.56%	291.80	18.83%	2,193.87	510.71	2,704.58
TOTAL	11,827.00		21,391.14		4,800.02		38,018.16	10,730.12	48,748.28

PERCENT OF INDIVIDUAL PLANT PRODUCTION COMPARED TO TOTAL PLANT PRODUCTION:

	<u>PRODUCTION% OF TOTAL</u>	
WEBER SOUTH PLANT	11,827.00	31.11%
DAVIS NORTH PLANT	21,391.14	56.27%
DAVIS SOUTH PLANT	4,800.02	12.63%
TOTAL	38,018.16	100.00%

PERCENT OF PRODUCTION COMPARED TO TOTAL PLANT AND WELL PRODUCTION:

	<u>PRODUCTION % OF TOTAL</u>	
WEBER SOUTH PLANT	11,827.00	24.26%
DAVIS NORTH PLANT	21,391.14	43.88%
DAVIS SOUTH PLANT	4,800.02	9.85%
WELLS	10,730.12	22.01%
TOTAL	48,748.28	100.00%

MONTHLY CAPACITY:

WEBER SOUTH PLANT	32 MGD	3,000 ACRE-FEET	22,500 GPM
DAVIS NORTH PLANT	46 MGD	4,300 ACRE-FEET	32,000 GPM
DAVIS SOUTH PLANT	16 MGD	1,550 ACRE-FEET	11,250 GPM
WELLS	35.6 MGD	3,387 ACRE-FEET	24,720 GPM
TOTAL CAPACITY	129.6 MGD	12,237 ACRE-FEET	90,470 GPM

Water Pumped from Wells - AF

CULINARY WELLS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
BEN LOMOND	0	0	0	0	0	0	43.07	108.92	31.5	0	0	0	183.49
CLEARFIELD #1	0	0	0	0	0	0	0	0	0	0	0	0	0
CLEARFIELD #2	0	30	0	0	114.73	36.93	0	0	155.11	0	0	8.21	344.98
DISTRICT WELL #2	55.48	73.19	55.68	0	0	0	119.85	404.95	103.62	0	0	0	812.77
DISTRICT WELL #3	0	0	0	0	264.5	493.94	497.21	78.77	0	0	0	0	1,334.42
FAIRFIELD	0	141.44	78.41	0	571.76	415.15	567.1	574.74	553.03	162.48	0	432.7	3,496.81
LAYTONA	0	0	0	0	0	0	127.14	241.96	54.95	0	0	12.48	436.53
NORTH OGDEN	0	0	0	0	0	59.41	92.82	77.24	70.93	33.31	0	0	333.71
ORCHARD DR.	0	0	0	0	0	20.24	28.87	27.99	20.78	0	0	0	97.88
RIVERDALE	0	0	105.05	0	0	0	0	329.72	75.61	0	0	0	510.38
SOUTH DAVIS	0	74.52	292.25	9.68	0	66.22	266.85	296.37	213.36	179.65	0	0	1,398.9
SOUTH WEBER #1	0	88.69	59.9	0	0	0	0	360.93	199.57	0	0	0	709.09
SOUTH WEBER #2	0	26.45	0	0	0	0	0	0	207.4	392.91	37.29	0	664.05
DAVIS BOULEVARD	0	31.28	28.02	0	0	0	0	0	0	0	0	57.32	116.62
NORTH WEBER	0	0	0	0	0	22.71	98.8	92.22	76.76	0	0	0	290.49
TOTAL	55.48	465.57	619.31	9.68	950.99	1,114.6	1,841.71	2,593.81	1,762.62	768.35	37.29	510.71	10,730.12

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	189	71	0	0	0	0	260
Mills Park Well	0	0	0	0	66.4	34.5	58	77.4	17.3	21.8	0	0	275.4
Washington Terrace Well	0	0	0	0	100.4	191.1	246.1	254.1	173.4	96.5	0	0	1,061.6
West Bountiful 5th South	0	0	0	0	0	0	0	29	98.5	41.9	0	0	169.4
West Bountiful Golf Well	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	166.8	225.6	493.1	431.5	289.2	160.2	0	0	1,766.4

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

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/Rockport	Summit County	Earth & Rock	156	62,120	60,000	1954-1957
Willard Bay	Southern Box Elder County	Earth	36	247,189	222,273	1957-1963

AQUIFER STORAGE & RECOVERY

Name	Location	Pond Area (acres)	Capacity (cfs)	Acquisition Dates
ASR	Weber County	7.5	8	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	8	230	2010
Willard #1	West Weber County	500	45	1960
Willard #2	West Weber County	250	20	1960

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, Summit	5.5	2013
Weber South WTP	Ogden, Weber	32	1955

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

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	West Bountiful	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

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