

2019



**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.

The following pages represent a brief summary of 2019 water deliveries in five Utah counties which sustain community health and fuels our economy. As our population now approaches 700,000, our Board of Trustees and staff remain dedicated to the efficient and reliable supply of our most precious of natural resources.

Even though the summer months were hot and dry, the spring runoff brought above average inflows to our seven major reservoirs and each was filled. Additionally, those same reservoirs contained a higher than average holdover ensuring ample water preparatory for 2020.

We are experiencing changes in our communities to include more agricultural land converting to residential and commercial uses as well as a densification of our urban communities. Each have an effect on how water in the future will be used. We continue to study and adjust to the changing landscape within the basin. Water use efficiency remains our top priority as a means to meet future demands, and we continue to dedicate more resources to that effort.

As I have done many times in the past, I congratulate our employees for their dedication to our profession and specifically for their great accomplishments in 2019. I thank the Board of Trustees for the guidance and experience shared with us throughout that year. We remain prepared for continued and reliable water service.



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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.



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 and served as President of the Board in 2019.



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. A lifetime dairy farmer from West Weber, he has been a three term State Representative, a two term County Commissioner, and the Utah Commissioner of Agriculture and Food.



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 Councilmember.



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.



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.



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.

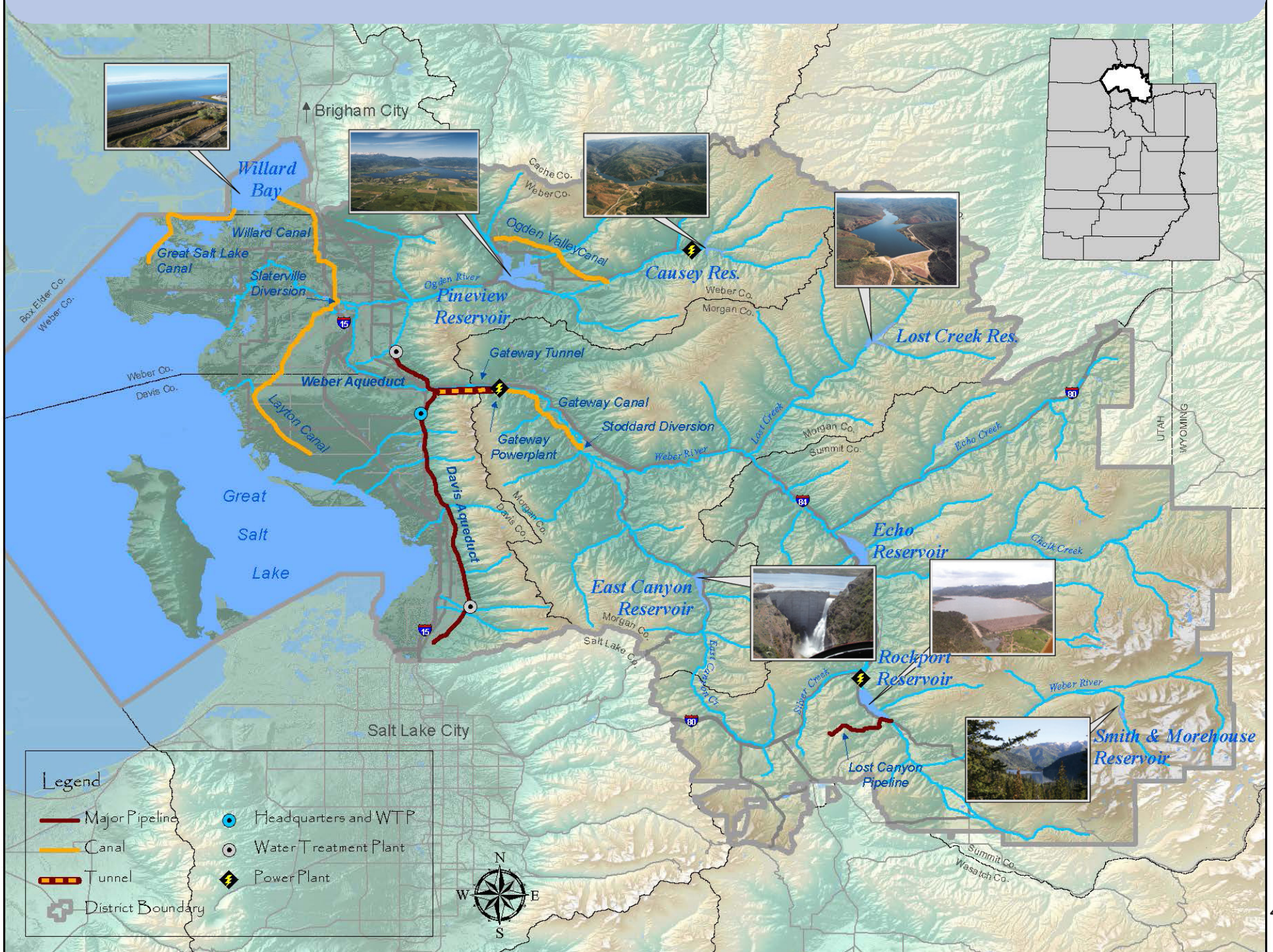


P. Bret Millburn

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.

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/CEO



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



Darren Hess, PE
*Assistant General Manager
Chief Operations Officer*



Jonathan Parry, PE
*Assistant General Manager
Strategic Initiatives*

Brittney Bateman | Finance and Economics Director
Krysta Countryman | Administrative Specialist
Kathy Wood, CGFM, SPHR | Human Resources Manager

Administrative

Sherrie Mobley | Administration Manager/CAO
Calysta Bravo | Accountant & 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

Troy Stout, PE | Manager,
Construction & Maintenance
Cole Bailey | C&M Worker II
Jack Bussberg | C&M Worker II
Jordan Clontz | Crew Chief
Preventative Maintenance
Carson Farrell | C&M Worker, Irrigation Operator
Russell Fearn | Crew Chief, Work Orders
Tracy Hess | M&I Distribution Technician II
Jacob Jaques | Crew Chief, Special Projects
Nolan Kelley | Superintendent, C&M
Joshua Kite | C&M Worker/ROW
Layne Leonard | C&M Worker II
Kasey Monson | Construction Mechanic
Connor Nelson | C&M Worker I
Tanner Obray | C&M Worker I
Trase Penman | Crew Chief, Right-Of-Way
Scott Wilson | Crew Chief, Special Projects
Marci Wood | Inventory and Asset Specialist

Engineering & IT

Derek Johnson, PE | Manager, Engineering & IT
Gary Allen | Scada Specialist
Michael Alverson | Supervisor, GIS & IT
Zeke Bardwell | Inspector
Briant Jacobs, PE | Engineer
Marc Montgomery | Inspector
Riley Olsen, PE | Engineer
Greg Pierce | Supervisor,
Scada Programming
Casey Potter | Engineer
Samuel Sorensen, PE | Engineer
Talon Thurgood | GIS / IT &
Property Mgt Specialist
Austin Wilcox | Programmer
Zachary Wofford | Engineer

Operations

Municipal & Industrial Water

Brad Nelson, PE		Manager, M&I and Lab	Douglas Parslow		M&I Distribution
Nathan Allison		Water Treatment			Operator Lead
		Plant Operator	Aaron Pearce		Water Treatment
Jeff Connor		Plant Manager, Dnwwtp			Plant Operator
Octavious Dickerson		Water Treatment	Todd Pollock		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	Ian Smith		Water Treatment
		Plant Operator			Plant Operator
Kevin Green		Water Treatment	Kenny Schow		M&I Distribution Operator
		Plant Operator	Mitchell Sorenson		Water Treatment Solids
Geoffrey Howell		Water Treatment			Handling Specialist
		Plant Operator	Paul Spens		M&I Pipeline Operator
John Jacobson		Water Treatment	Chase Tate		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	Amanda Delgado		Chemist II
		Plant Maintenance	Kelly Holmes		Chemist II
Rex Lee		Water Treatment	Blake Newman		Lab Tech
		Plant Operator	Jason Kim		Lab Director
Adam Moulding		Water Treatment			Water Quality Mgr
		Plant Operator			

Water Supply & Power

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



Strategic Initiatives

Conservation & Research

Lucy Gelb		Conservation Program Analyst & GIS Specialist
Liberty Hamilton		Tour Guide
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
Brody Tait		Event Planner, Social Media Specialist
Janice Terry		Assistant Conservation Program Coordinator

Retirement



Jared Woolsey

Jared Woolsey worked at the District for 27 years. He retired after a successful career as the District Welder for the Construction and Maintenance Department.

Sustainability

Sustainable and efficient use of our 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.

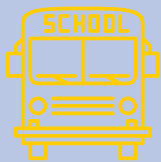
Conservation by the Numbers



1,385
CLASS ATTENDEES



15,000
GARDEN VISITS



5,197
STUDENTS ATTENDED
SCHOOL TOURS



9,806
TOTAL SECONDARY
METERS INSTALLED

Watershed Protection

The District continues its partnership with the Weber River Watershed Coalition, which consists of federal, state, and local government agencies. The District remains active in monitoring projects that may impact water quality and promoting projects that improve water quality.

Recreation

Willard Bay Reservoir is in the top three most visited state parks in Utah with a total of 517,000 visitors in 2019. The District works in partnership with multiple state and federal entities to provide various types of recreation on all its reservoirs including campsites, beaches, boat docks, archery ranges, disc golf courses, and fishing. The year-round releases made by the District allow for continuous flows in the rivers to keep fisheries healthy and activities such as kayaking and tubing possible all summer long.



Photo Credit: Derek Johnson



Water Efficiency Research Center

In 2019, the District completed construction of the Water Efficiency Research Center in Layton. With this expansion, the District increased its conservation class capacity by three-fold and enhanced its school educational tour program. In addition to expanding public education resources, the WERC building will serve as the epicenter for conservation research in Northern Utah, including:

- Constant review and updating of detailed demand forecasts
- Evaluation of conservation program effectiveness
- Identification of new conservation and enhanced programs
- Research feasibility of conservation programs
- Evaluation of potential savings
- Public education

Flood Control

Spring runoff projections were above average this year. The combined total inflow to the Weber River peaked at about 5,550 cfs. 1,350 cfs was stored in upstream reservoirs and 1,000 cfs was diverted at the Slaterville Diversion into Willard Bay and released into the Great Salt Lake from mid-April through mid-May. This alleviated the above normal high flow pressure off the lower Weber River.

Community Outreach

The Learning Garden is the center of water education and demonstration focused to reach water users and motivate positive change in water behaviors. The Learning Garden added new classes bringing the number of classes offered from 21 to 29 and had almost 400 more participants in 2019 compared to 2018. The District also participated in several community events including a STEM night and several emergency preparedness events.

Tapping Into Our People

Core Values

C.O.M.P.A.S.S. core values: Collaboration, Ownership, Mutual Respect, Professionalism, Appreciation, Safety, and Sustainability

This year, our employees focused on the Collaboration and Ownership core values. We learned success is dependent on challenging assumptions, developing new ideas, and working together. Taking ownership means taking initiative, doing our best, and delivering as promised, on-time, and within budget. Several employees were recognized by their peers and leaders for taking ownership in their jobs.

WBWCD

Accomplishments

- Received the Guard and Reserve Patriot Award for its support of active duty employees
- Implemented a comprehensive training program resulting in over 1,200 hours of employee training
- Employees donated 236 pounds of food to the Bountiful Food Pantry

Hiring Stats

- Processed 282 applications
- Interviewed 68 applicants
- Added 4 new positions
- Hired 11 new full-time employees
- Promoted 5 employees to other positions
- Hired 1 intern
- Hired 9 seasonal employees

Water Treatment and Distribution Operator Training

The District provides free annual training for water system operators throughout the state, which helps keep qualified, educated operators at the controls of water treatment and water delivery for all of our communities. The District had 70 attendees in 2019.



C.O.M.P.A.S.S.

Our Values Guide Our Success



Employee/Trustee Years of Service Awards

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

5 Years of Service

Nathan Allison
Shane Visser
Ian Smith
Kasey Monson
Casey Folkman
Paul Summers
Dee Waldron

15 Years of Service

Kenneth Turner
David Giles
Abby Smith

20 Years of Service

Darren Hess
Jeff Connor

10 Years of Service

Jeff King
Thomas Hamblin

25 Years of Service

Jeffrey Weyburn

30 Years of Service

Auggie Rose

Employees of the Year



Calysta Bravo



Paul Spens



Layne Leonard

Infrastructure Highlights



East Layton Slipline Project

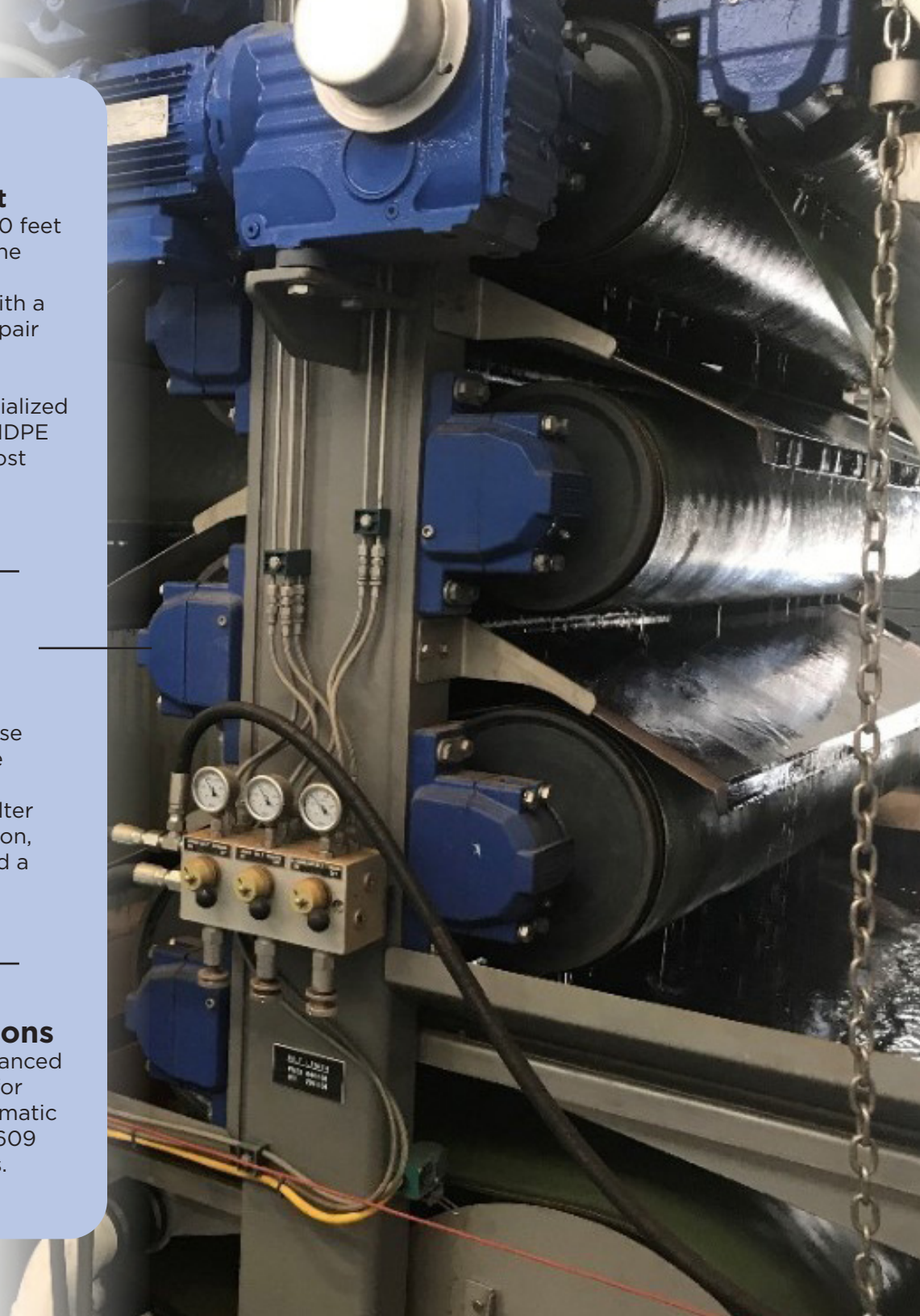
- Replaced approximately 5,500 feet of 27" and 30" culinary pipeline originally installed in 1955
- The existing pipe was lined with a tight-fit HDPE pipe liner to repair leaks
- The project used right-fit installation method with specialized equipment to compress the HDPE pipe so it would fit into the host pipe

DSWTP Mechanical Dewatering Project

- Replaced existing dry beds with belt filter press to increase efficiency and capacity of the solids handling process
- Construction also included Filter Waste Washwater pump station, 30,000 gallon solids tank, and a new solids handling building

Customer Portal Additions

- The Customer Portal was enhanced to include alert notifications for retail customers such as automatic alerts for overuse or leaks. 1,609 alerts were sent to customers.





East Canyon Dam Walkway and Turnaround

- Coordinated with Davis and Weber Counties Canal Co.
- Helicopter flew in two sections of a bridge and placed them at the toe of the dam to provide safer access to the outlet
- Turnaround retaining wall was constructed to provide an area large enough for a truck to turn around
- Greatly enhancing safety and accessibility to East Canyon Dam

Fruit Heights Pipeline

- Installed 960 feet of 18-inch C900 PVC in utility congested road
- Completed in two weeks with no safety incidents and no customer complaints
- Successful coordination with all stakeholders
- Successful Bac-T tests on first attempts

AMI Network Expansion

- The District entered into agreements with four partnering agencies to utilize in-house built Meter Account Management Software, iOS Meter Management Application, and AMI network
- Each entity received a customized version of the software for their use
- This low-cost solution for these entities will help facilitate further secondary metering within the District's service area boundaries

Riverdale Well and 5th South Well Repairs

- Part of the District's Capital Assets Plan to replace and rehabilitate original project construction.
- The pumps, shafts, and column pipe at both wells were replaced and reinstalled



Planning for the Future

North Bench Watershed Plan Environmental Assessment:

The District is sponsoring a Watershed Plan EA for the Upper Weber River Watershed Work Plan Project in Summit County. The District is working with North Bench Irrigation Company to rehabilitate seven irrigation reservoirs in the Uinta Mountain Range as well as piping two open channel canals.

Water Reuse Feasibility Study: The District completed and submitted the Water Reuse Feasibility Study for Title XVI review. In order to help receive funding to carry out the necessary projects, the District will continue pursuing Title XVI funding from the Bureau of Reclamation.

Climate Vulnerability Assessment: In conjunction with Utah State University, Western Water Assessment, and University of Utah, the District is completing a Climate Variability Study to learn how climate variability will affect watersheds within the District and seek recommendations to better prepare for the future.



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 with three main goals:



Protect what we have

- Repair and replacement of existing infrastructure
- Watershed and water source protection



Use it wisely

- Water conservation – efficient use of a precious resource



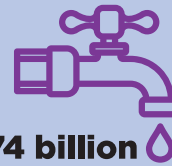
Provide for the future

- New water sources and development of new infrastructure





2019 By The Numbers



74 billion
gallons of total water delivered



700,000
people served



5.3 million
gallons of treatment chemicals used



72,000 tons
of material and solids hauled



12,000
water quality tests performed



\$6.6 million
spent in conservation



\$3.8 billion
of facilities protected and maintained



365 days
facilities were in operation

Finance and Economics

Bill by the Gallon Pilot Study

In 2019, the District completed a study to create a bill by the gallon rate structure for retail secondary connections. Research shows that this type of rate structure encourages conservation in outdoor watering. As a second phase of this study, the District created a pilot group of homeowners that will be billed on the new rate structure during the 2020 irrigation season.

2019A Bonding

The District successfully issued tax-exempt bonds which netted \$30 million in proceeds. These funds will be used in various new supply and repair and replacement projects including upgrades and replacements of existing pipelines, wells, and canals; upgrades to treatment facilities; and the construction of new wells, pipelines, and a water efficiency research center. The District also maintained its AAA and AA+ bond credit rating for 2019.

Financial Audit

In accordance with its procurement policies, the District completed an RFP process and awarded the contract for its FY2019 financial audit to a new firm. The District also updated some of its accounting practices and recategorized expenses and revenues on its financial statements in order to provide a clearer financial picture of the District.

The District collected \$45.4 million in revenues in FY2019, about \$6 million more than budgeted and primarily due to greater than expected water sales and interest rates. Expenditures totaled \$47.8 million, which included \$14.8 million in capital improvement projects of District and federal facilities. The difference between revenues and expenses was made up from the use of unspent bond funds from the 2017 bond issue.

STATEMENT OF SOURCES AND USES OF FUNDS

Fiscal Year Ended June 30, 2019

RECEIPTS:

Water Sales	\$28,884,888
Taxes & Fee-in-lieu of taxes	10,553,687
Interest	2,419,082
Miscellaneous	3,523,225
Net Use of Loan/Bond Proceeds	2,420,866

TOTAL RECEIPTS:

\$47,801,748

EXPENDITURES:

Operating Expenses	\$22,241,668
Federal facilities R&R	3,099,166
Interest Expense	4,394,580
Loan & Bond Payments	6,036,281
Capital Improvements	11,740,799
Miscellaneous	289,254
Additions to Reserves	-

TOTAL EXPENDITURES:

\$47,801,748

STATEMENT OF NET POSITION

Fiscal Year Ended June 30, 2019

ASSETS:

Current Assets	\$69,645,464
Sinking Fund & Reserve Assets	36,126,274
Capital Assets (Net)*	247,452,181
Deferred pension charge	2,010,443

TOTAL ASSETS & DEFERRED OUTFLOWS

\$355,234,362

LIABILITIES & NET POSITION:

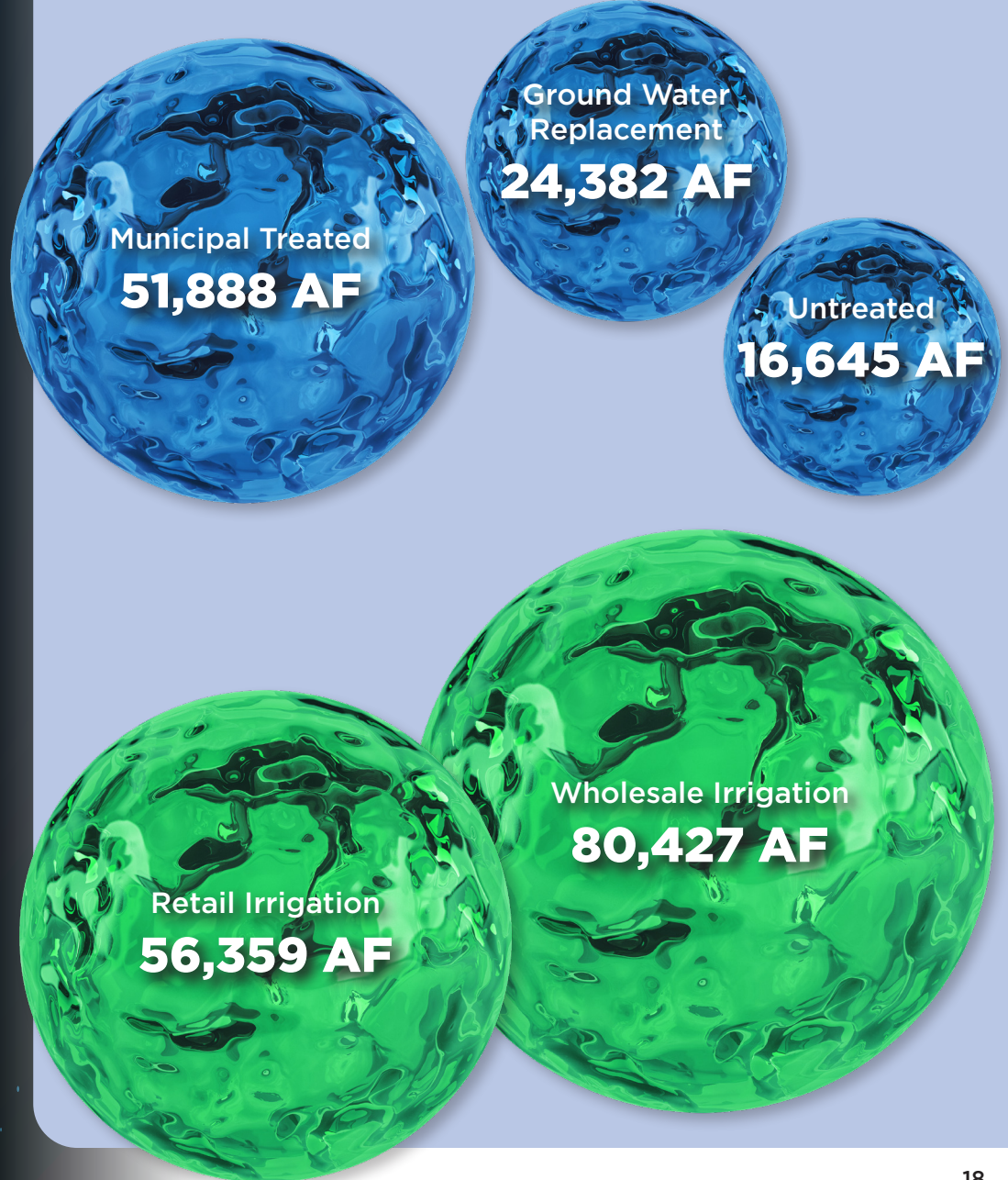
Current & Other Liabilities	\$25,109,673
Long-Term Liabilities	147,590,609
Deferred Inflow of Resources	10,087,540
Net Position	172,446,540

TOTAL LIABILITIES & NET POSITION

\$355,234,362



Total Water Sales 229,701 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	4,475	448	4,027	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 Association	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	950	0	950.0	Roy WCD	365	0	365
Downs Creek Irrigation	100	10	90	Salmaho Irrigation	167	17	150
East Porterville Irrigation	200	20	180	So. Davis County WCD	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 WID*	2,223	0	2,223
Felt, Peterson, Slater Irrigation	100	10	90	Sun Hills Golf Course	496	37	459
Hights Creek Irrigation	7,008	692	6,316	Syracuse City	1,113	111	1,002
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 Conservation District	4,233	208	4,025
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	80,427	7,108	73,319
Mountain View Irrigation	100	0	100	Retail Irrigation Water Sales	56,359	5,636	50,723
North Morgan Irrigation	160	16	144	Totals	136,786	12,744	124,042

*Contract is a D&W stock exchange (370.5 D&W shares) D&W issued 6 AF of water per share in 2019.
The following entity added to their contract during 2019: Davis & Weber Counties Canal (50)

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	800.00
TESORO	5.00
TOTAL UNTREATED	16,645.00

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	1,068.71
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	31,248.50

TREATED WATER CONT.

CONTRACTING ENTITY	CONTRACT AMOUNT
MORGAN COUNTY	
REPLACEMENT WATER	4,572.65
SUMMIT COUNTY	
REPLACEMENT WATER	12,746.00
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	643.95
UINTAH HIGHLANDS WID	247.00
UINTAH CITY	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	7,063.00
TOTAL WEBER COUNTY	20,639.25

TOTAL REPLACEMENT WATER	24,381.65
TOTAL TREATED WATER	51,887.75
TOTAL UNTREATED & TREATED	92,914.40

* Amount of Burch Creek water treated for South Ogden City: 619.85 acre-feet

The following entities added to their contracts during 2019: Taylor West Weber (47.7), South Weber City (59.4), Layton City (113.0), North Salt Lake City (8.0)

Project Power Operations

PEAK PROJECT POWER LOAD - KW

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Peak Power Load (KW)	2,135	1,894	1,039	1,659	2,405	5,004	6,745	6,324	6,009	2,983	3,164	1,575

PROJECT POWER GENERATION - KWH

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
*Net Generation													
Causey Plant	-17,700	-15,100	529,900	940,700	1,369,100	1,166,600	455,800	449,000	401,900	263,400	-15,100	-17,300	5,511,200
Net Generation													
Gateway Plant	-14,960	-12,480	288,420	2,316,800	2,903,840	2,690,110	2,082,090	1,792,500	1,375,980	368,690	-17,040	-16,080	13,757,870
Net Generation													
Wanship Plant	-12,400	-11,400	-12,400	621,600	627,300	1,026,800	1,152,700	1,181,400	1,069,600	597,800	-16,000	-18,822	6,206,178
Total Output	-45,060	-38,980	805,920	3,879,100	4,900,240	4,883,510	3,690,590	3,422,900	2,847,480	1,229,890	-48,140	-52,202	25,475,248
Project Use	891,351	792,314	840,846	913,696	2,441,292	4,230,767	5,170,230	5,258,750	4,318,870	2,325,647	1,331,525	1,049,816	29,565,104
Delivered to CRSP	-918,711	-816,194	-564,826	2,024,704	1,089,848	-513,857	-1,935,440	-2,284,850	-1,873,290	-1,359,157	-1,364,565	-1,084,718	-9,601,056

* 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	3,796	7,632	9,424	7,408	3,110	3,216	3,042	2,004	0	0	39,632
Gateway	0	0	2,318	17,214	21,864	20,510	16,858	15,624	10,712	3,364	0	0	108,464
Wanship	0	0	0	6,696	7,274	8,814	11,070	11,664	10,646	6,450	0	0	62,614
Total	0	0	6,114	31,542	38,562	36,732	31,038	30,504	24,400	11,818	0	0	210,710

Reservoir Operations

Storage Content as of Last Day of Month - AF

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Causey	4,766	5,408	3,214	6,266	6,947	6,842	6,508	5,135	3,723	3,043	3,989	4,821
East Canyon	26,870	28,350	31,180	40,370	48,320	48,485	45,220	39,070	35,530	35,820	37,160	38,710
Echo	22,310	26,360	31,460	49,990	66,040	79,390	59,210	42,440	36,310	41,440	44,610	48,890
Lost Creek	11,880	12,170	12,760	18,920	20,560	20,190	18,078	15,340	14,200	14,225	14,330	14,518
Pineview	50,660	55,170	69,770	80,810	111,020	109,580	98,280	83,840	74,930	69,770	63,950	67,950
Smith-Morehouse	1,844	1,721	1,650	3,285	3,645	7,877	7,580	6,280	5,490	5,244	5,125	5,014
Wanship	27,380	29,880	36,460	41,860	46,010	61,290	57,160	48,720	43,300	42,690	45,100	47,520
Willard	132,478	140,203	166,552	197,344	221,165	220,458	194,838	179,623	176,428	182,125	188,328	191,230
Total	278,188	299,262	353,046	438,845	523,707	554,112	486,874	420,448	389,911	394,357	402,592	418,653

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	372	336	3,880	7,632	19,755	10,300	3,110	3,216	3,042	2,310	540	558	55,051
East Canyon	310	280	310	5,682	3,324	8,526	6,372	7,594	5,579	1,535	420	514	40,446
Echo	-	-	-	4,488	11,994	38,638	30,100	27,636	17,286	4,166	-	-	134,308
Lost Creek	403	410	532	842	6,662	3,130	3,088	3,218	1,822	530	510	527	21,674
Pineview	682	6,112	8,081	61,044	33,444	30,504	16,275	17,729	12,906	10,316	9,348	348	206,789
Smith-Morehouse	312	502	537	2,158	9,988	20,296	4,076	1,665	1,132	506	288	340	41,800
Wanship	1,924	1,400	1,550	6,916	7,572	27,791	14,994	12,985	11,252	7,124	1,508	1,550	96,566
Willard	588	372	76	22,286	30,936	568	18,882	8,668	2,216	806	1,234	1,270	87,902
Total	4,591	9,412	14,966	111,048	123,675	139,753	96,897	82,711	55,235	27,293	13,848	5,107	684,536

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	808.00	26.93%	1,155.17	26.74%	287.00	18.52%	2,250.17	40.99	2,291.16
FEB	834.00	27.80%	1,066.62	24.69%	343.00	22.13%	2,243.62	236.43	2,480.05
MAR	942.00	31.40%	1,287.93	29.81%	292.00	18.84%	2,521.93	0.96	2,522.89
APR	840.00	28.00%	1,517.53	35.13%	321.00	20.71%	2,678.53	72.97	2,751.50
MAY	829.00	27.63%	1,913.31	44.29%	475.00	30.65%	3,217.31	264.32	3,481.63
JUN	1,234.00	41.13%	2,986.85	69.14%	621.00	40.06%	4,841.85	155.00	4,996.85
JUL	1,282.00	42.73%	3,237.75	74.95%	927.00	59.81%	5,446.75	1,400.72	6,847.47
AUG	1,194.00	39.80%	3,222.55	74.60%	941.00	60.71%	5,357.55	1,211.69	6,569.24
SEP	866.00	28.87%	2,487.24	57.58%	682.00	44.00%	4,035.24	974.29	5,009.53
OCT	768.00	25.60%	1,708.32	39.54%	698.00	45.03%	3,174.32	492.10	3,666.42
NOV	742.00	24.73%	1,677.87	38.84%	502.00	32.39%	2,921.87	335.50	3,257.37
DEC	954.00	31.80%	1,162.16	26.90%	354.00	22.84%	2,470.16	0.00	2,470.16
TOTAL	11,293.00		23,423.33		6,443.00		41,159.33	5184.97	46,344.30

PERCENT OF INDIVIDUAL PLANT PRODUCTION COMPARED TO TOTAL PLANT PRODUCTION:

	<u>PRODUCTION% OF TOTAL</u>	
WEBER SOUTH PLANT	11,293.00	27.44%
DAVIS NORTH PLANT	23,423.33	56.91%
DAVIS SOUTH PLANT	6,443.00	15.65%
TOTAL	41,159.33	100.00%

PERCENT OF PRODUCTION COMPARED TO TOTAL PLANT AND WELL PRODUCTION:

	<u>PRODUCTION % OF TOTAL</u>	
WEBER SOUTH PLANT	11,293.00	24.37%
DAVIS NORTH PLANT	23,423.33	50.54%
DAVIS SOUTH PLANT	6,443.00	13.90%
WELLS	5,184.97	11.19%
TOTAL	46,344.30	100.00%

MONTHLY CAPACITY:

WEBER SOUTH PLANT	32MGD	3,000 ACRE-FEET	22,500 GPM
DAVIS NORTH PLANT	46 MGD	4,320 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	12,257 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	75.49	108.94	29.46	0	0	0	213.89
CLEARFIELD #1	0	0	0	0	0	0	0	0	0	0	0	0	0
CLEARFIELD #2	0	0	0	0	0	0	0	289.36	55.45	0	0	0	344.81
DISTRICT WELL #2	0	0	0	0	0	0	0	149.67	356.85	0	0	0	506.52
DISTRICT WELL #3	0	0	0	0	0	0	0	0	0	0	0	0	0
FAIRFIELD	18.07	0	0	0	0	0	570.85	0	0	0	0	0	588.92
LAYTONA	22.92	236.43	0	0	0	0	0	0	0	0	0	0	259.35
NORTH OGDEN	0	0	0	0	0	50.44	97.54	80.26	75.76	24.98	0	0	328.98
ORCHARD DR.	0	0	0	0	0	0	28.81	28.32	29.04	13.26	0	0	99.43
RIVERDALE	0	0	0	72.97	264.32	0	0	0	0	0	0	0	337.29
SOUTH DAVIS	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH WEBER #1	0	0	0	0	0	104.56	535.7	459.57	360.23	453.86	326.78	0	2,240.7
SOUTH WEBER #2	0	0	0	0	0	0	0	0	0	0	0	0	0
DAVIS BOULEVARD	0	0	0.96	0	0	0	0	0	0	0	8.72	0	9.68
NORTH WEBER	0	0	0	0	0	0	92.33	95.57	67.5	0	0	0	255.4
TOTAL	40.99	236.43	0.96	72.97	264.32	155	1,400.72	1211.69	974.29	492.1	335.5	0	5,184.97

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	157.8	67.6	0	0	0	0	225.4
Washington Terrace Well	0	0	0	0	0	29.7	125.6	47.8	0	0	0	0	203.1
West Bountiful Golf Well	0	0	0	0	0	0	0	0	0	0	0	0	0
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	21.7	92.7	81.2	34.7	0	0	0	230.3
TOTAL	0	0	0	0	0	51.4	376.1	196.6	34.7	0	0	0	658.8

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	60,860	1954-1957
Willard Bay	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	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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