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Provo River Water Users Association  
ANNUAL REPORT 2020

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The Association delivers Provo River Project water in a safe, efficient, and economical manner for the benefit of its shareholders and those they serve.

With integrity, the Association preserves and protects the quality of its resources through knowledgeable, dedicated, and innovative employees.



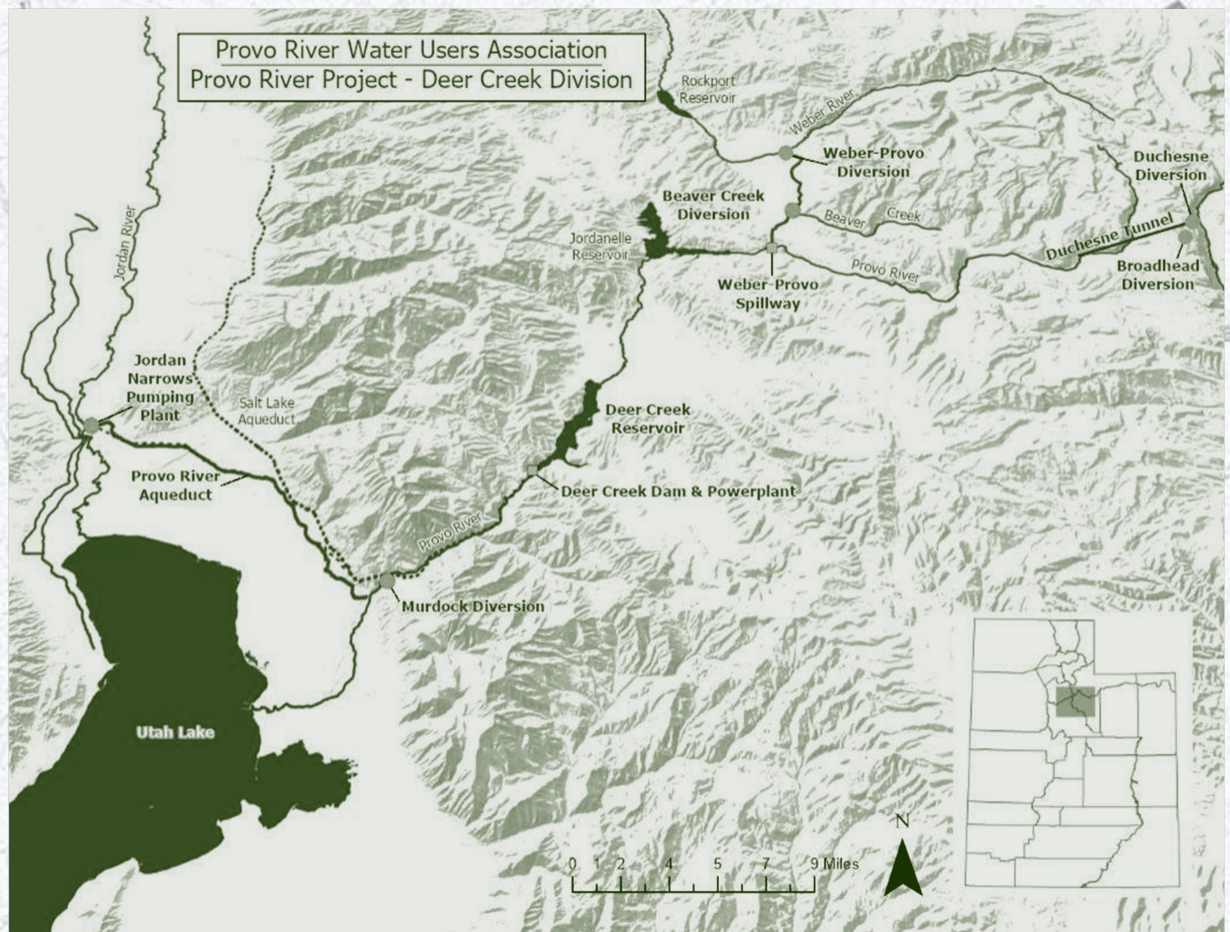
# Administration

## BOARD OF DIRECTORS

Tom Godfrey	President
Christopher R. Tschirki	Vice-President
Laura Briefer	Bart Forsyth
Patricia Comarell	Dan Johnson
Jeffrey J. Bryant	John Kirkham
Joan Degiorgio	Donald Y. Milne
Michael J. DeVries	Tom Ward

## EMPLOYEES

Scott Brockbank	Shawna Orlando
Jeffrey D. Budge	Malorie Pennie
Steven H. Cain	Travis Pool
G. Keith Denos	Jeffrey Purser
David Faux	Mark Rawle
Roger Ford	TJ Shepherd
Jerry Fox	Casey Snyder
Jeremy Gruber	Devin Stratton
Troy Heap	John Whiting
Brad Jorgensen	





# The Association

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Provo River Water Users Association is a private non-profit corporation organized in 1935 for the purpose of sponsoring the Deer Creek Division of the Provo River Project, a US Bureau of Reclamation water project. The Project extends over five counties and diverts water from three river basins. Deer Creek Dam and Reservoir, with a capacity of over 153,000 acre-feet, is the primary Project feature. Other main features of the Project include the Duchesne Tunnel, the Weber-Provo Diversion and Canal, and the Provo River Aqueduct. The Association also operates and maintains many miles of river dikes as well as numerous diversions, checks, flumes and turnout structures as part of the Project.

The Project supplies a significant portion of the drinking water supply for approximately one million people along the Wasatch Front in north-central Utah. Project water is also used for supplemental irrigation of over 53,000 acres of agricultural land in Summit, Wasatch, Utah and Salt Lake Counties.

The Association is governed by an eleven-member Board of Directors, elected by its shareholders. Association shareholders include metropolitan water districts, irrigation companies, mutual water companies, two municipalities and a conservation district.

## Shareholders

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American Fork Metropolitan Water District  
Bar X Mutual Water Users Company  
Beaver & Shingle Creek  
Diamond Bar X  
Dixon Irrigation Company  
Highland Conservation District  
Lehi City  
Lindon City  
Metropolitan Water District of Salt Lake & Sandy  
MSH Corporation

Nobletts Creek Mutual Water  
& Diamond Bar X Ranch  
Orem Metropolitan Water District  
Pleasant Grove Irrigation  
Pleasant Grove Metropolitan Water District  
Provo Bench Canal and Irrigation Company  
Provo Metropolitan Water District  
Provo Reservoir Water Users Company  
South Kamas Irrigation  
Washington Irrigation





North Fork Duchesne River



# General Manager's Message

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In February 2020, Katherine Johnson, the last of the three pioneering black women mathematicians featured in the movie "Hidden Figures", passed away quietly at the age of 101. The universe lost an amazing woman that day. The life stories of Johnson and her brilliant NASA colleagues Dorothy Vaughan and Mary W. Jackson inspire women and men of every age and every color. Yes, these women were blessed with great intellect, but they also worked hard, persevered through the difficult racial inequalities of their day, and set standards of excellence and achievement worthy of emulation. My wife and I were so inspired by the movie we recommended it to our children, friends, and extended family. Certainly, there are multiple takeaways from the film, but the message that resonated with me is that talent and perseverance together are a can't-lose combination. Despite their intellectual gifts, these three bright scientists wouldn't have been successful had they not paired hard work and determination with their natural talents. The combination was unstoppable, and they changed the world. More specifically and impressively, they directly influenced mankind's imprint on the solar system.

For the past two years and for the first time in history, three women are concurrently serving on the Association Board of Directors. Laura Briefer, Joan Degiorgio, and Pat Comarell bring a wealth of professional

experience and perspective to the Board. All three have melded their unique talents with hard work in achieving success.

Judy Bell was the first woman to serve on the Association Board of Directors. Judy was known as a feisty individual and tough negotiator who didn't back down to anyone. I admired Judy for her leadership as the chair of the Association's Architectural Committee. The committee was charged with designing a replacement for the 1930s-era Civilian Conservation Corps buildings that were inadequate for maintenance of the Project's fleet and heavy equipment. Judy's influence helped modernize the Association's administration and maintenance facilities but without extravagance. Judy served seven years on the Board, and the Pleasant Grove facilities in use since 2003 are a testament to her vision and determination.

Genevieve Atwood was an influential Association Director for over 12 years until her retirement from the Board in 2018. I'm grateful that Genevieve shared often from her fountain of knowledge in science, politics, academia and many other disciplines. One profound lesson among many Genevieve taught me was to ask regarding a proposed solution to a problem: 1) is there actually a problem? 2) does the proposed solution solve the problem? and 3) does the proposed solution cause unintended consequences? Genevieve's counsel on myriad topics was routinely





North Fork Duchesne River

sought by her fellow Board members because of her intelligence and experience. She was secure in the things she knew but didn't hesitate to admit what she didn't know, and she was eager to learn from others. I learned a lot by watching and listening to Genevieve.

I find great joy in seeing women who have worked for the Association achieve success, whether that success is found here or elsewhere. Some have pursued further education to advance in their chosen field; others have moved on to become successful business owners. One common thread is that all discovered their talent or passion and then worked diligently to achieve heights previously only imagined. Some of these women were inspired by strong, successful women who were examples and mentors to them. I know for certain that among those mentors are the

Association Board members mentioned above.

The extent of the positive impact of women role models such as Association Directors – past and present, and pioneering black NASA scientists, may not be calculable, but it is inarguably profound. With four daughters and four granddaughters of my own, I'm grateful for positive women role models that exemplify these principles – recognize and develop your innate gifts and then persevere. It's my observation that this is the formula for success.

G. Keith Denos, P.E.



# Staff

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Roger Ford retired from the Association in April 2020 after 20 years as a System Operator at Deer Creek Dam and Power Plant. Roger would say he was just one of the “dam guys”, but he was also actively involved in many concurrent pursuits. Roger has been a big game guide and volunteer emergency medical technician and firefighter for decades, and he has owned and operated a dental lab for over 45 years. He and his wife Jill plan to enjoy retirement with their five daughters and seven grandchildren.



Former Facilities & Lands Manager Steve Cain retired in July 2020 after 20 years with the Association. Steve performed a critical role in the successful Provo Reservoir Canal Enclosure Project and was integral to countless other projects large and small during his tenure. Steve’s leadership benefited the Association greatly over the years, and his positive influence has been felt by every shareholder, Director, employee, and member of the public with whom he has associated. As the parents of four and grandparents of 14, Steve and his wife Elaine will remain very busy in retirement.

In 2020 three new hires were welcomed into the Association family. Devin Stratton was hired in February as a System Operator at Deer Creek Dam and Power Plant. Devin is a successful small business owner and is quickly learning the nuances of SCADA system and power plant operation. He has a degree in Emergency Service Management and is an avid outdoorsman.

Brad Jorgensen was hired in April as the Assistant Operations & Engineering Manager after almost four years with Lindon City as Public Works Director. He has experience as a consulting engineer and worked 15 years for Provo City Public Works. Brad is a professional engineer with a degree in Civil Engineering and is overseeing the Deer Creek Intake Project as the project manager.

Malorie Pennie was hired in June as the Lands Technician to assist with the management of Association lands and facilities. She has a degree in Environmental Science and is working towards obtaining Geographic Information Systems certification. Malorie has experience as a river guide and enjoys the outdoors.



# Education & Training

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US-189 Provo Canyon view from Deer Creek Dam

The Association budgets funds for staff training and certification in various fields to develop skills and to recognize achievement. Educational assistance is also available to qualifying employees working towards a college degree related to the employee's current position or a reasonably foreseeable future position.

In 2020, employees obtained certifications in water distribution and water rights administration, and one obtained notary public licensure. Employees also made use of the educational assistance program, participating in financial management, business management, and accounting courses. Cross-training was particularly emphasized in 2020, with many employees alternately serving as mentor and student as knowledge and expertise was shared across disciplines.



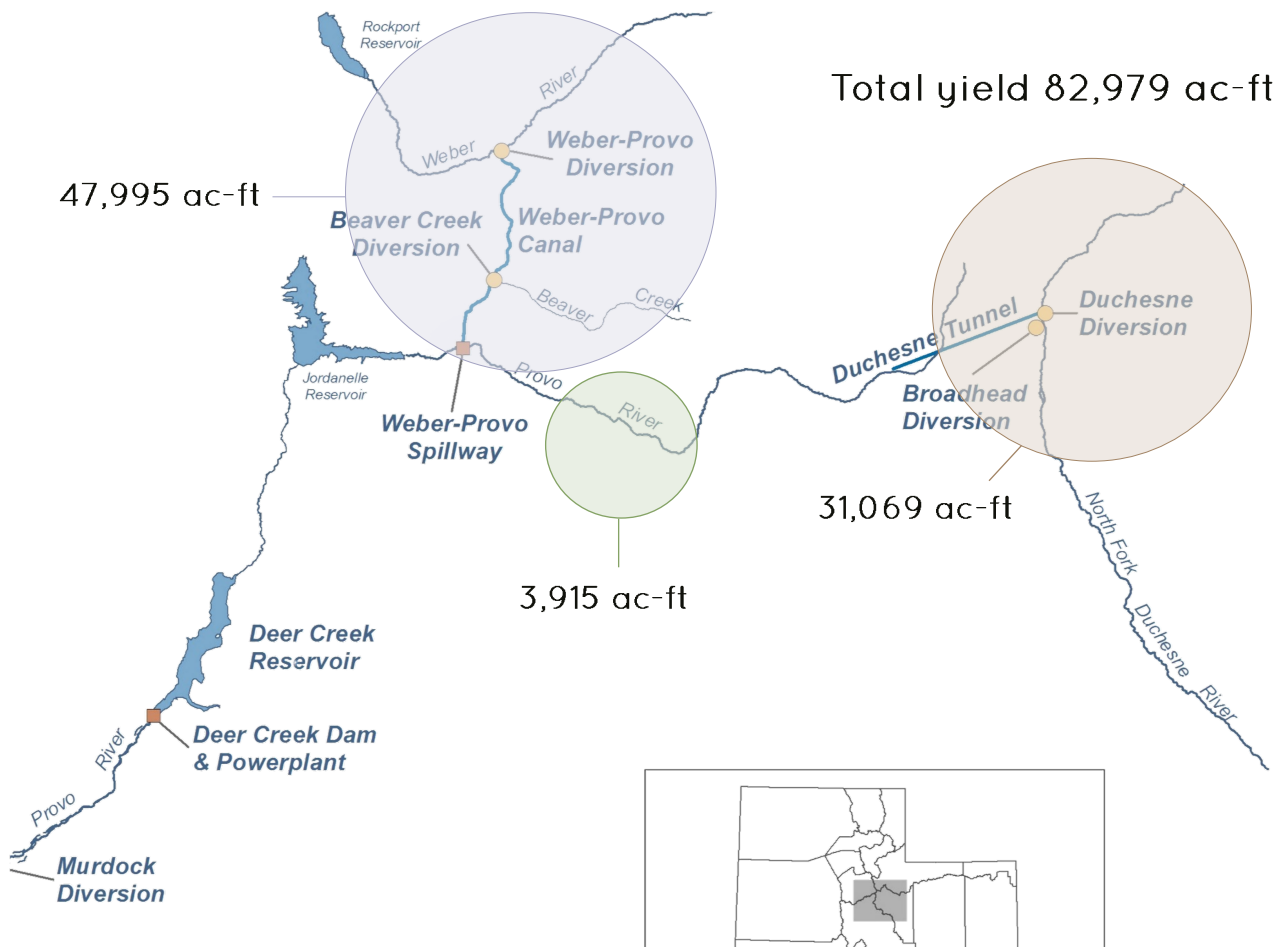
Upper Provo Falls



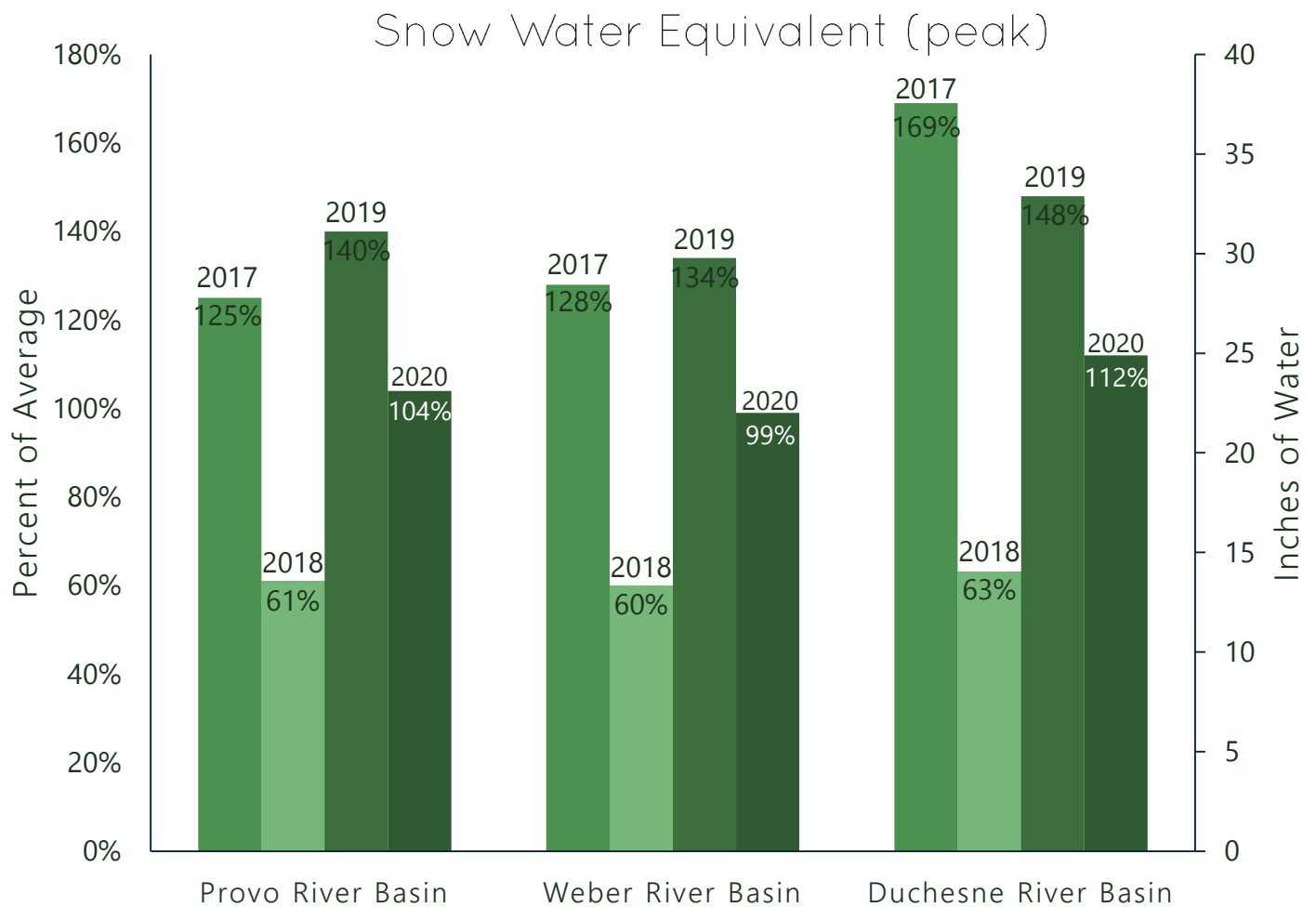
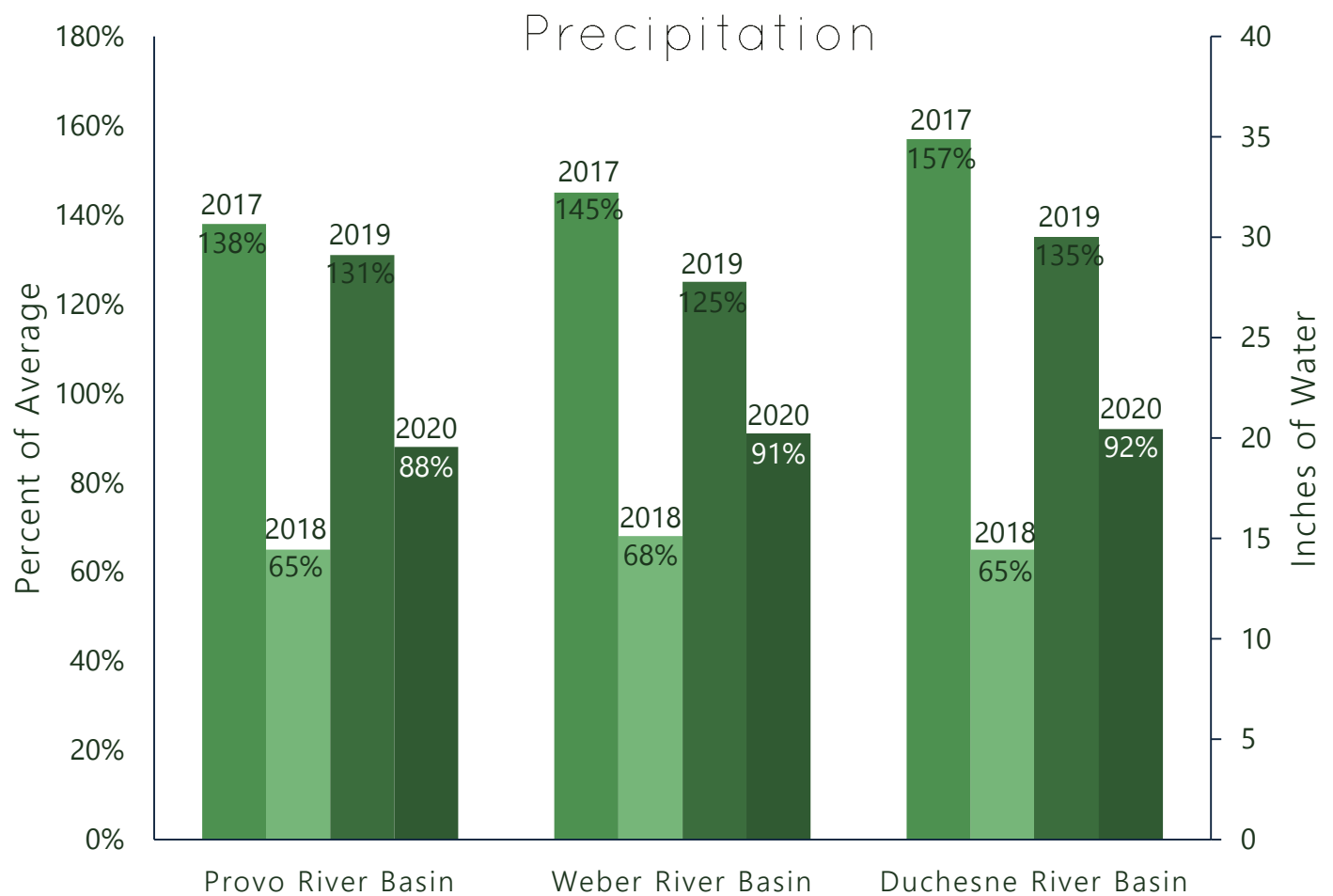
# Water Supply

The 2020 spring runoff generated enough water to spill all of the holdover water out of Deer Creek Reservoir and provide the Association with a full allocation of 100,000 ac-ft. The remaining 52,500 ac-ft remained as carryover water to be allocated during the 2021 water year. A near record-breaking dry summer followed, with most measurement sites in the Weber, Provo, and Duchesne River basins receiving no precipitation from April through October. The dry conditions placed increased demand on Deer Creek Reservoir storage, but Association shareholders were able to retain 53,600 ac-ft of holdover water heading into next water season. At the end of the 2020 water year, the total volume of Provo River Project water in Deer Creek Reservoir plus water owed to the Association under the Deer Creek Reservoir/Jordanelle Reservoir Operating Agreement was 111,201 ac-ft.

## 2020 Water Sources

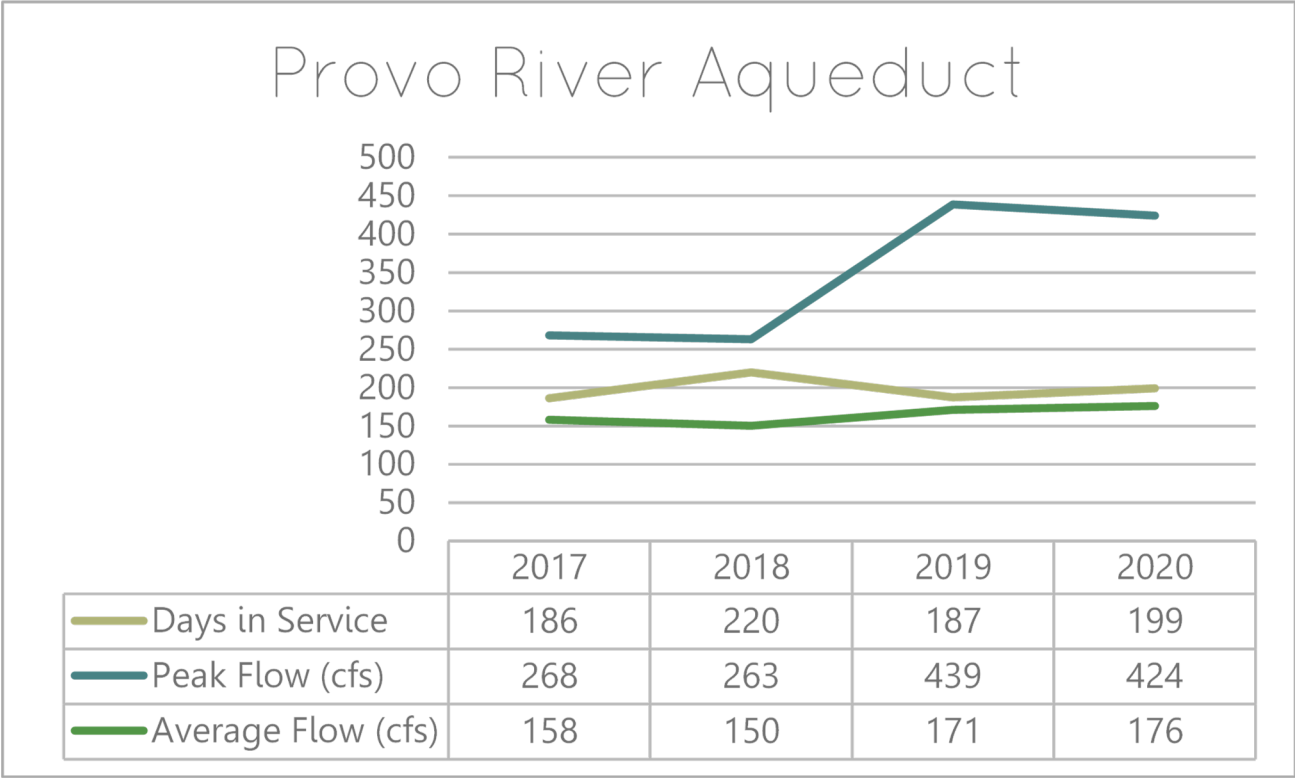








# Provo River Aqueduct

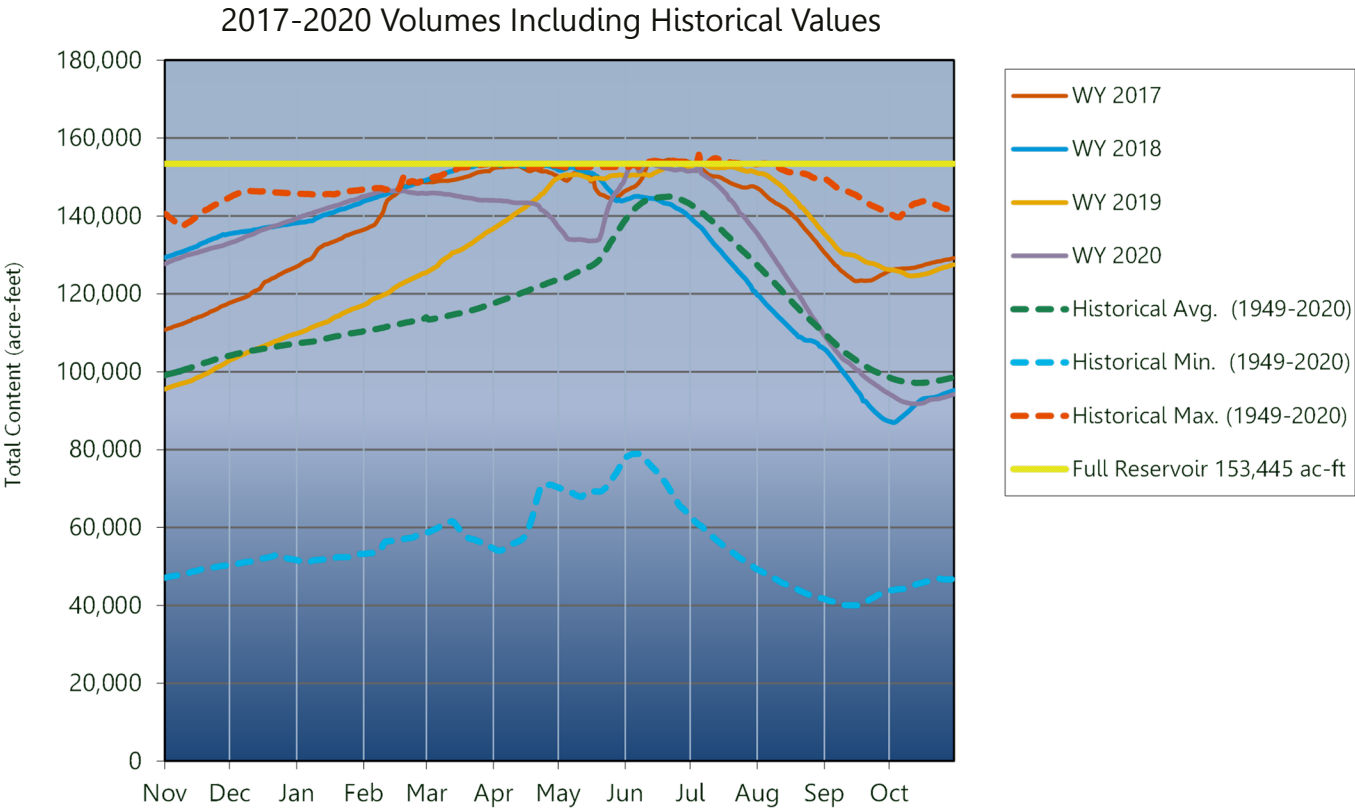


Murdock Canal Trail along the PRA corridor

An in-depth master plan review of the Provo River Aqueduct was initiated near the end of 2020. The PRA has been in service for 10 years and the master plan will provide a status report of the internal condition of the pipe and the appurtenant equipment and facilities. This will assist the Association in budget and maintenance planning for the future and verify if any auxiliary actions need to be taken to maintain and prolong the service life of the system.



# Deer Creek Reservoir



Deer Creek Reservoir



# Deer Creek Dam & Power Plant

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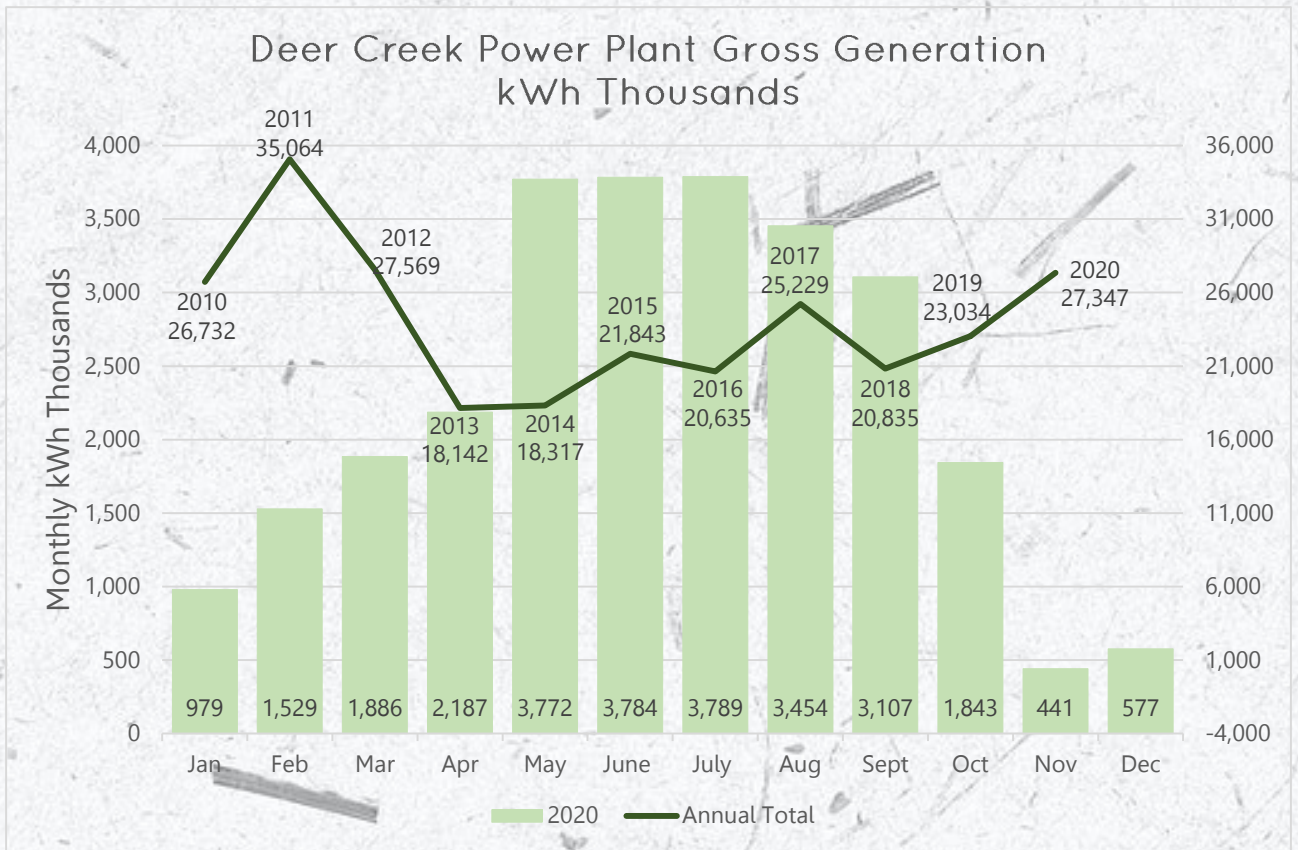
## TUBE VALVE REPLACEMENT PROJECT

The Deer Creek Tube Valve Replacement Project will replace the original 52-inch tube valves with 54-inch plunger valves. One replacement plunger valve was installed in early 2020 in preparation for testing and use during the 2020 water delivery season. However, during the flow test in April 2020, the valve failed to perform as required, delivering approximately half of the flow rate expected. Subsequent discussions among the Association, the valve supplier, the new valve manufacturer, Reclamation, the Association's design engineer, and the Utah State University Water Lab led to the selection of a different valve. Computer modeling tests and a scale model flow test of the new proposed valve were performed to ensure that the new valve will meet specified requirements. Discussions among the parties are continuing, but it is anticipated that new valves will be manufactured during 2021 and delivered in spring 2022, with installation occurring during winter 2022-2023.



Deer Creek Power Plant





Deer Creek Reservoir





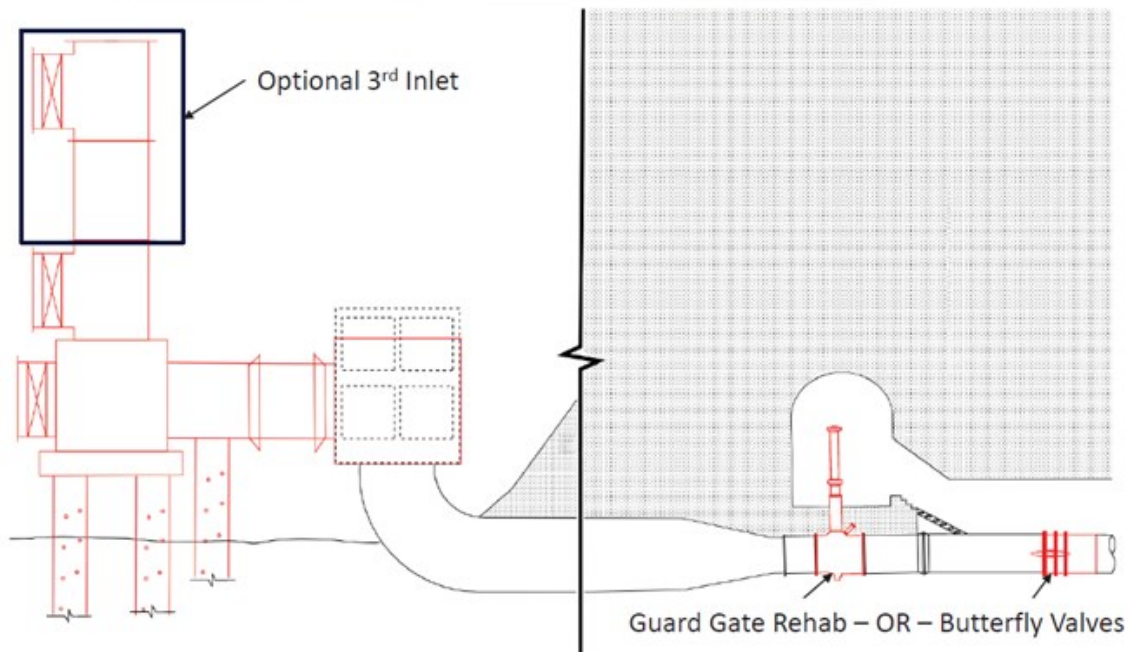
# DEER CREEK INTAKE PROJECT

## INTAKE – GUARD GATE SOLUTION



DRAFT

### Recommendation



The Association's engineering design consultant Advanced Engineering and Environmental Services (AE2S) conducted preliminary engineering investigations throughout 2020 as part of the Deer Creek Intake Project Feasibility Study. In March 2020, a bathymetric survey and Remote Operated Vehicle (ROV) inspection of the bottom of Deer Creek Reservoir near the existing intake tower was performed. The ROV inspection provided video footage of the inside of the intake structure, the intake tunnel which feeds the penstocks, and the upstream side of the existing guard gates. The video also recorded the operation of the guard gates, the first time this has been witnessed since the original dam construction which was completed in 1941.

Additional preliminary investigative work included collection of rock core samples near the existing intake tower. The rock core drilling was completed during the summer of 2020 by means of a barge-mounted drilling rig. The barge was secured in place over surveyed locations using information obtained from the bathymetric survey.



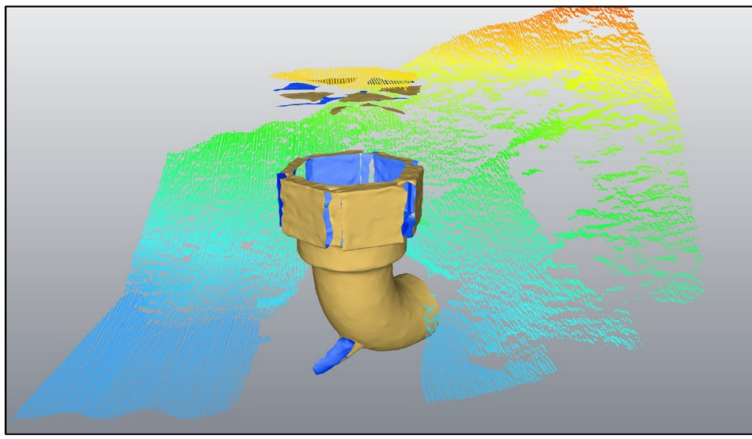


Figure 42: Sonar generated model of the intake shown with bathymetry point cloud



A majority of the rock core samples had a Rock Quality Designation (RQD) classified as poor to very poor. The low RQD required structural enhancements to the design of the intake tower, which significantly increased the preliminary cost estimate of the project. It was determined that new alternatives would need to be investigated for the project to become feasible. Additional alternatives were developed, making a total of ten alternatives (including options) that were investigated. Alternative 7, the preferred alternative, closely matched the existing intake tower design but adds the additional benefit of being able to isolate the intake tunnel. This alternative also addresses the potential for Quagga mussel infestation and provides an option to add a third, higher elevation inlet. The Feasibility Study also identified four options for the refurbishment or potential replacement of the existing guard gates. Guard gate alternatives 2 and 4 will continue to be evaluated through the design process until one option is selected for construction.

The Association elected to use the Construction Manager/General Contractor (CM/GC) process to optimize project design efficiency and cost estimating. The Feasibility Study will be completed in early 2021, at which time final design will commence and continue through early 2022. It is anticipated that construction will begin in 2022 and continue through 2023.



# June Sucker

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In December 2020, the US Fish & Wildlife Service (Service) announced that the June sucker would be downlisted from “endangered” to “threatened” status under the Endangered Species Act (ESA). This monumental event required the coordinated efforts of dedicated partners over many years to achieve. The Association is a founding member of the June Sucker Recovery Implementation Program (JSRIP) which was established in 2002 with two primary purposes – to recover the June sucker so that it no longer requires protection under the ESA, and to allow for continued operation and development of water projects for human use.

A fish native to Utah Lake and its tributaries, the June sucker was declared endangered under the ESA in 1986 due to declining numbers and threats to its habitat. In 1994 the Service issued a Jeopardy Opinion on the Provo River Project, stating that operation of the Project jeopardized the continued existence of the June sucker and four endangered fish in the Colorado River and its tributaries. Proactively, the JSRIP and its partners have focused on habitat improvement, genetic research, water management, and other priorities over the past two decades. Nonnative species has been another area of emphasis, and since 2010 the JSRIP has removed over 29,000,000 pounds of carp from Utah Lake in an effort to address this threat to the June sucker.



View of Utah Lake from Dry Canyon, Lindon



# Speed Creek Diversion

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Located in Woodland, Utah, the “Speed Creek Diversion” diverts water from the Provo River to the Washington and South Kamas Irrigation Companies. The diversion was rebuilt in the 1960s, but in recent years operation of the diversion has become increasingly difficult and unsafe.

In the Spring of 2020, Association personnel completed the final stages of the Speed Creek Diversion Rehabilitation Project by installing a new generator, generator building, and propane tank at the diversion. The new generator will make the diversion fully automated and allow Association staff and shareholders to move the new wedge gate safely and with ease. This project has provided a significant benefit for staff and shareholders.

## Weber-Provo Metering Project

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Accurate low-flow measurements at the Weber-Provo Diversion are crucial to the operation of the Weber River and the three Reclamation projects that divert water from the river. The Weber-Provo Diversion Metering Project, completed in 2020, addressed this critical need.

The project included installation of a new 48-inch bypass pipeline, valve, and metering vault from the Weber-Provo Diversion forebay to the Weber River. Another metering vault and valve was installed in the existing 36-inch bypass pipeline from the diversion forebay to the Weber-Provo Canal.

The Weber-Provo Metering Project provides the Association with accurate data during the low-flow winter months and the ability to make flow adjustments for the river and canal while the forebay is frozen.



# Maintenance

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Association maintenance personnel performed routine and preventative maintenance in 2020 on many Provo River Project facilities including the Weber-Provo Diversion, the Jordan Narrows turbine-pump, Deer Creek Dam and Power Plant, and the upper Provo River dikes and structures. Maintenance staff also provided considerable support for the Weber-Provo Metering Project and the Speed Creek Diversion Rehabilitation Project. Staff works diligently to maintain facilities and equipment to ensure efficient water deliveries and operations.



Weber-Provo radio tower construction



Weber-Provo metering vault construction

# Safety & Security

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The Association’s dedication to safety has continued into 2020 with no reportable accidents or injuries. Throughout the year, Association staff safely completed many tasks that involved high levels of risk by following industry safety protocols. If followed properly, these important safety protocols provide a consistent sense of security and safety for Association personnel working at Provo River Project facilities.

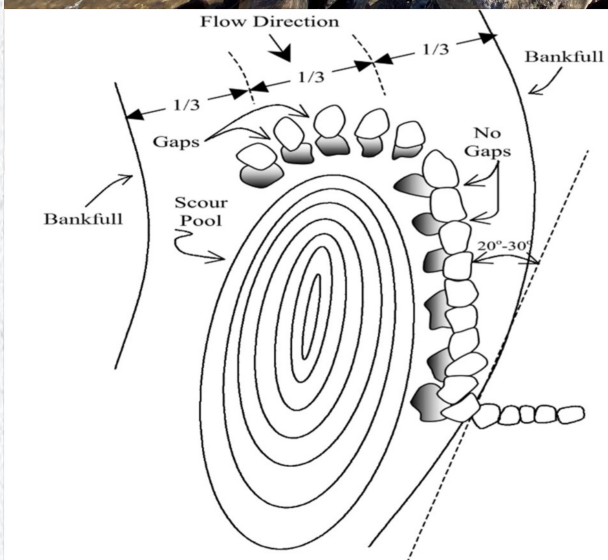


# Project Lands

Historically, the Facilities and Lands staff have aided Association shareholders along the upper Provo River in preparing river diversions for spring runoff and summer deliveries of Project water. This work takes place in the fall months while river flows are low and staff can safely access the river. During the fall of 2020, staff designed and constructed a J-hook cross vane in the upper Provo River, allowing shareholders to receive Project water during the runoff and low-flow periods. Staff chose a J-hook cross vane for its ability to deflect and dissipate high flow energy during runoff but efficiently divert water to diversions during low flows. This is the first J-hook cross vane the Association has implemented into the Provo River Project.



J-hook cross vane in the upper Provo River



J-hook cross vane design



# Balance Sheet

December 31, 2020

## Assets

### Current Assets

Cash and cash equivalents	\$ 1,131,717
Accounts receivable	982,424
Due from Cental Utah Water Conservancy District, current portion	41,902
Due from Lindon City, current portion	10,000
Prepaid expenses	32,799
Total current assets	<u>2,198,842</u>

### Property, Plant, and Equipment, net

219,945,903

### Other Assets

Cash and cash equivalents - restricted	254,641
Investments	1,889,244
Investments - restricted	5,096,660
Due from Central Utah Water Conservancy District, less current portion	125,706
Beneficial interest in water rights	<u>24,070,460</u>
Total other assets	<u>31,436,711</u>
Total assets	<u>\$ 253,581,456</u>

## Provo River Water Users Association Historical Assessments Fiscal Year





## Liabilities and Stockholders' Equity

### Current Liabilities

Accounts payable	\$ 389,934
Accrued expenses	91,656
Retention payable	47,743
Accrued compensated absences	113,961
Accrued interest	134,580
Unearned revenue	233,505
Current portion of bonds payable	1,607,000
Current portion of notes payable	454,303
Total current liabilities	<u>3,072,682</u>

### Long-term Liabilities

Bonds payable, less current portion	25,744,000
Notes payable, less current portion	1,991,689
Less debt issuance costs, net of accumulated amortization of \$4,130	(247,780)
Total long-term liabilities, less unamortized debt issuance costs	<u>27,487,909</u>
Total liabilities	<u>30,560,591</u>

### Stockholders' Equity

Capital stock	23,915,867
Stock subscriptions receivable	(1,460,072)
Net capital stock	<u>22,455,795</u>
Retained earnings	
Restricted for Provo River Aqueduct operations & maintenance	171,605
Unrestricted	<u>200,393,465</u>
Total retained earnings	<u>200,565,070</u>
Total stockholders' equity	<u>223,020,865</u>
Total liabilities and stockholders' equity	<u>\$ 253,581,456</u>





# Water Use 2020

March 30, 2021	Shares	2020 Total Use (AF)	2020 Allotment 100.00%		Extra Allotment Used (AF)	Holdover from Water Year 2019				Holdover Towards 2021 (AF)
			Allocated (AF)	Used (AF)		Available (AF)	Used (AF)	Evap (AF)	Spill (AF)	
MWD of Salt Lake & Sandy*										
Account #1	500	500	500	500	0	0	0	0	0	0
Account #2	200	200	200	200	0	0	0	0	0	0
Account #3	15,000	5,000	13,560	5,000	0	248	248	0	0	8,560
Account #4	46,000	28,015	46,000	28,015	0	46,000	26,162	992	18,846	17,985
Account #5	200	200	200	200	0	0	0	0	0	0
<b>Total</b>	<b>61,900</b>	<b>33,915</b>	<b>60,460</b>	<b>33,915</b>	<b>0</b>	<b>46,248</b>	<b>26,410</b>	<b>992</b>	<b>18,846</b>	<b>26,545</b>
Orem MWD										
Account #1	1,300	0	1,300	0	0	1,300	678	0	622	1,300
Account #2	200	200	200	200	0	200	0	37	163	0
Account #3	754	10	754	10	0	125	0	0	125	744
<b>Total</b>	<b>2,254</b>	<b>210</b>	<b>2,254</b>	<b>210</b>	<b>0</b>	<b>1,625</b>	<b>678</b>	<b>37</b>	<b>910</b>	<b>2,044</b>
Dixon Irrigation Company	300	28	300	28	0	216	90	5	121	272
Provo MWD	8,000	1,786	8,000	1,786	0	6,309	5,639	97	573	6,214
American Fork MWD	500	468	500	468	0	346	22	10	314	32
Beaver/Shingle Creek	900	229	900	229	0	776	417	17	343	671
Diamond Bar X	86	86	86	86	0	0	0	0	0	0
Bar X Mutual Water Co.	10	10	10	10	0	0	0	0	0	0
MSH Corporation	10	10	10	10	0	0	0	0	0	0
Noblett's Creek Mutual Water	19	19	19	19	0	0	0	0	0	0
Highland Conservation District										
Highland Conservation Dist.	1,521	1,294	1,521	1,294	0	1,217	39	36	1,143	227
Highland City	2,210	1,477	2,210	1,477	0	1,707	21	51	1,635	733
Lehi City	849	849	849	849	0	773	392	18	363	0
American Fork City	430	380	430	380	0	280	5	9	267	50
<b>Total</b>	<b>5,010</b>	<b>4,000</b>	<b>5,010</b>	<b>4,000</b>	<b>0</b>	<b>3,978</b>	<b>457</b>	<b>113</b>	<b>3,408</b>	<b>1,010</b>
Lehi City	500	500	500	500	0	486	245	11	230	0
Lindon City	200	9	200	9	0	194	22	5	167	191
Pleasant Grove Irrigation										
Pleasant Grove Irrigation	288	148	288	148	0	271	5	8	258	140
Pleasant Grove MWD	723	221	723	221	0	241	114	7	120	502
<b>Total</b>	<b>1,011</b>	<b>369</b>	<b>1,011</b>	<b>369</b>	<b>0</b>	<b>512</b>	<b>119</b>	<b>15</b>	<b>378</b>	<b>642</b>
Pleasant Grove MWD	300	109	300	109	0	97	57	3	38	191
Provo Bench Irrigation										
Orem MWD	1,243	105	1,243	105	0	760	317	18	425	1,138
Provo Bench	0	0	0	0	0	191	0	5	187	0
Pleasant Grove MWD	205	47	205	47	0	92	23	3	67	158
Lindon City	500	24	500	24	0	532	50	15	468	476
CUWCD	52	27	52	27	0	0	0	0	0	25
<b>Total</b>	<b>2,000</b>	<b>203</b>	<b>2,000</b>	<b>203</b>	<b>0</b>	<b>1,577</b>	<b>390</b>	<b>40</b>	<b>1,146</b>	<b>1,797</b>
Provo Reservoir Water Users Co.*										
JVWCD	10,749	643	11,733	643	0	8,485	8,372	113	0	11,090
Orem MWD	2,634	234	2,437	234	0	1,917	770	43	1,104	2,203
Alpine District	812	705	820	705	0	489	155	14	321	115
Pleasant Grove MWD	220	69	240	69	0	96	34	3	59	171
Highland City	569	509	643	509	0	467	78	13	377	134
Lehi City	250	268	268	268	0	240	136	5	98	0
Lehi Irrigation	394	774	866	774	0	329	326	3	0	92
American Fork City	155	191	201	191	0	125	10	4	111	10
Lindon City	130	6	142	6	0	126	30	3	93	136
Orem District	86	3	90	3	0	90	0	3	88	87
<b>Total</b>	<b>16,000</b>	<b>3,402</b>	<b>17,440</b>	<b>3,402</b>	<b>0</b>	<b>12,365</b>	<b>9,911</b>	<b>203</b>	<b>2,251</b>	<b>14,038</b>
South Kamas Irrigation	500	500	500	500	0	0	0	0	0	0
Washington Irrigation	500	498	500	498	0	52	0	2	50	2
<b>Total</b>	<b>100,000</b>	<b>46,351</b>	<b>100,000</b>	<b>46,351</b>	<b>0</b>	<b>74,782</b>	<b>44,457</b>	<b>1,552</b>	<b>28,774</b>	<b>53,649</b>

\*MWDSLS transferred 1,500 ac-ft (minus 4% seepage loss) to PRWUCo via the MWDSLS - WBWCD Surplus Sales Agreement executed on February 20, 2020\*



# Definition of Terms

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AF	acre-feet
Association	Provo River Water Users Association
Board	Association Board of Directors
cfs	cubic feet per second
CUP	Central Utah Project
CUWCD	Central Utah Water Conservancy District
DOI	US Department of the Interior
EA	environmental assessment
FWS	US Fish & Wildlife Service
GIS	geographic information system
JSRIP	June Sucker Recovery Implementation Program
kw	kilowatt
MWDSLS	Metropolitan Water District of Salt Lake & Sandy
NEPA	National Environmental Policy Act
O&M	operations and maintenance
Operating Agreement	Deer Creek Reservoir/Jordanelle Reservoir Operating Agreement
POTM	point of the mountain
PRA	Provo River Aqueduct
Project	Provo River Project
PRP	Provo River Project
PRWUA	Provo River Water Users Association
Reclamation	US Bureau of Reclamation
ROW	right-of-way
SCADA	supervisory control and data acquisition
USFS	US Forest Service





**PROVO RIVER  
WATER USERS  
ASSOCIATION**

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