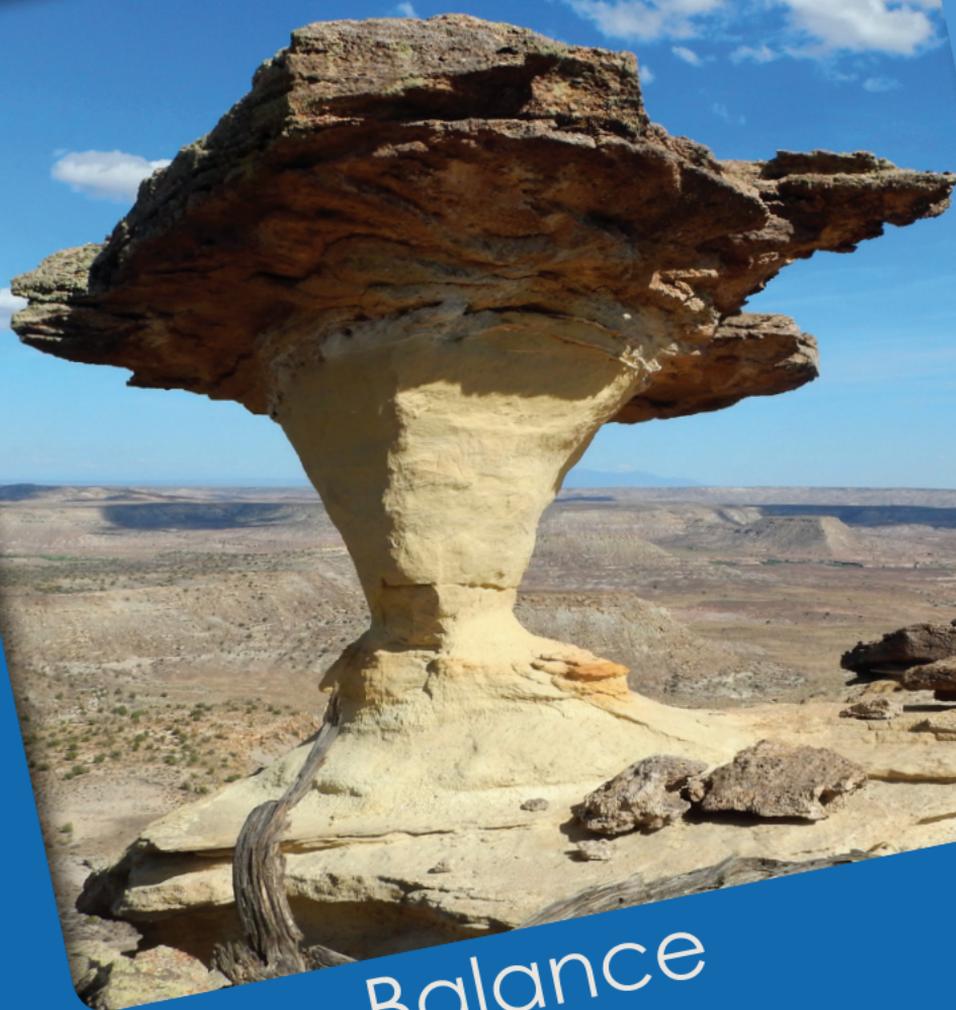


Utah Department of
Natural Resources



ANNUAL REPORT 2020



Balance

2020 Directory of Services and
Annual Report for 2018–2019



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Division of Water Rights

Division of Wildlife Resources

Utah Geological Survey

Cover photo: A goblet-shaped hoodoo balances on a pedestal near Blanding, Utah. Photo by Don DeBlieux, Utah Geological Survey

NATURAL RESOURCES

DEPARTMENT UPDATE



Utah Department of Natural Resources



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Monday – Friday
8:00 a.m. – 5:00 p.m.
(closed on holidays)

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YouTube
youtube.com/UtahDepartmentofNaturalResources

Executive Director's Commitment

On my first day as Executive Director at the Utah Department of Natural Resources, I gathered briefly with our employees to tell them something that in my experience government employees don't hear often enough: thank you. Being a public servant is a fantastic job, but it can also be a difficult one. I love the passion that our employees feel about the jobs they do. They are experts in their various fields and they strive every day to do their jobs well. I am grateful to be part of their team.

As a state, we face both opportunities and challenges in managing our natural resources. The decisions we make require balance, effort, and cooperation and coordination among a variety of groups and stakeholders. The Department of Natural Resources is committed to making decisions in just this way to benefit the State and its citizens.

I am absolutely confident that we can find balanced solutions by working together. We can ensure continued growth while protecting wildlife and habitat. We can ensure energy development and mineral extraction while supporting sensitive areas and promoting reclamation efforts. We can accomplish necessary water development with a continued focus on water conservation and improved efficiencies of existing infrastructures. We can provide solutions for outdoor recreational needs while protecting and improving vulnerable areas.

At the DNR, we're committed to proactively managing our natural resources in a way that strikes that necessary balance. In so doing, we are committed to improving the quality of life enjoyed by all Utahns.

We'll be successful because of our outstanding employees and supportive partners, elected officials and customers. We are all in this together. Now, let's get to work!

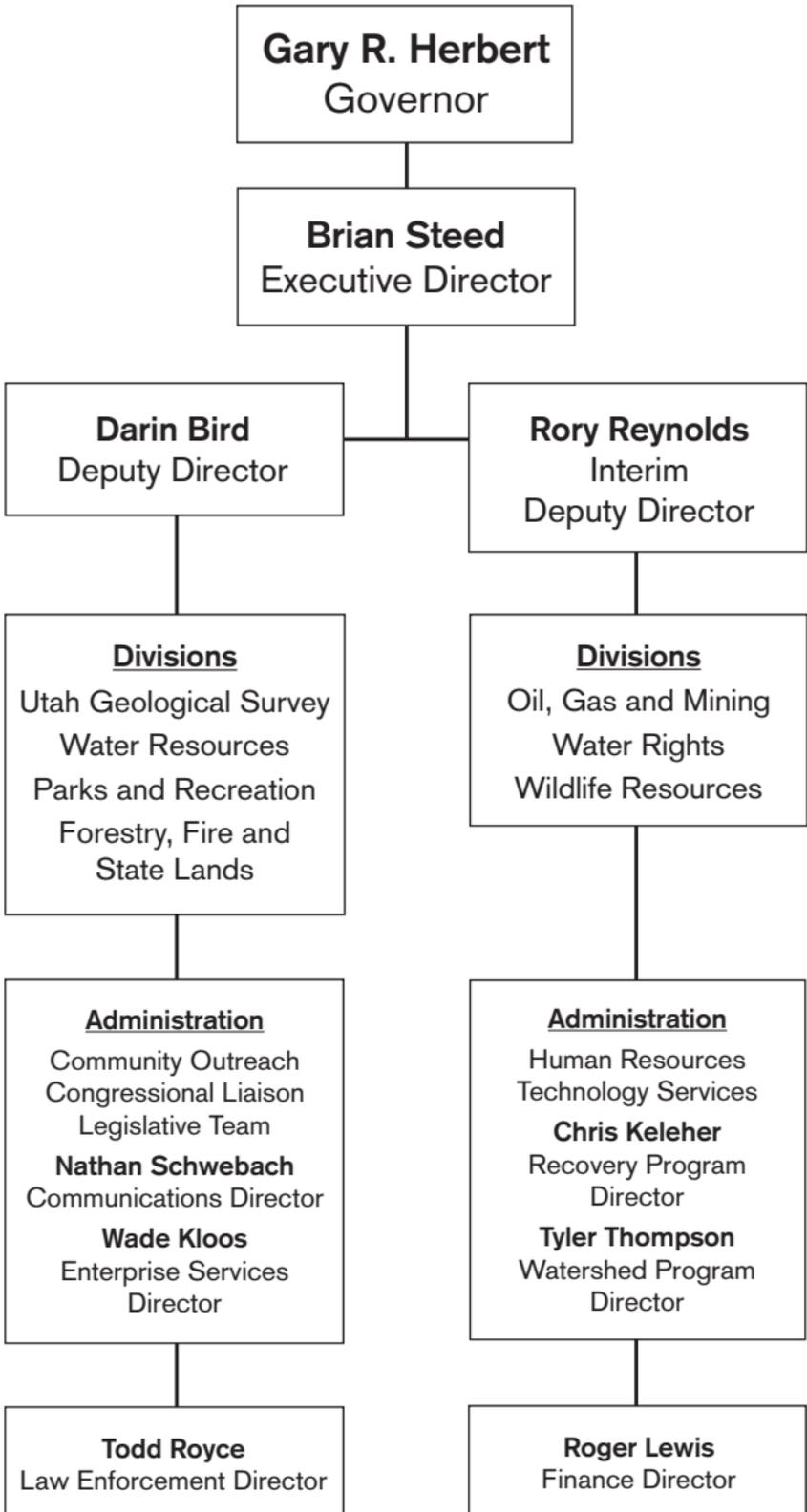


Brian C. Steed
DNR Executive Director

Department Goals

- ◆ Enhance the customer experience. Positive relationships with DNR customers comes first.
- ◆ Improve cross-division collaboration. Committed toward increasing efficiency and maximizing resources.
- ◆ Increase value within the department. Maximize taxpayer resources and decrease general fund reliance.

Organizational Chart



DNR Annual Employee Award Winners

Executive Director's Award

Jared Manning & David Jones, Division of Water Rights



Jared and David have done what many water users believed was not possible. They developed an online accounting system to share with multiple parties at once, produce daily results necessary to guide the commissioner's actions, offer complete computational transparency and keep a history of all calculations. This online system has made a real difference in how water users understand what is happening on their systems. Because of Jared and David's vision and technical ability, the Division provides transparent and efficient services using remarkable technological tools.

Leadership Award

Kevin Bunnell, Division of Wildlife Resources



As a south region supervisor, Kevin consistently develops exceptional employees and helps them progress both professionally and personally. He regularly teaches the importance of balancing the roles of a public servant and wildlife management expert. Kevin has a unique ability to build and strengthen relationships with partners in difficult circumstances while also advocating for the betterment of wildlife and wildlife habitat. His ability has helped build trust between agricultural and wildlife interests and has yielded positive results.

Employee of the Year

Carl Camp, Division of Parks and Recreation

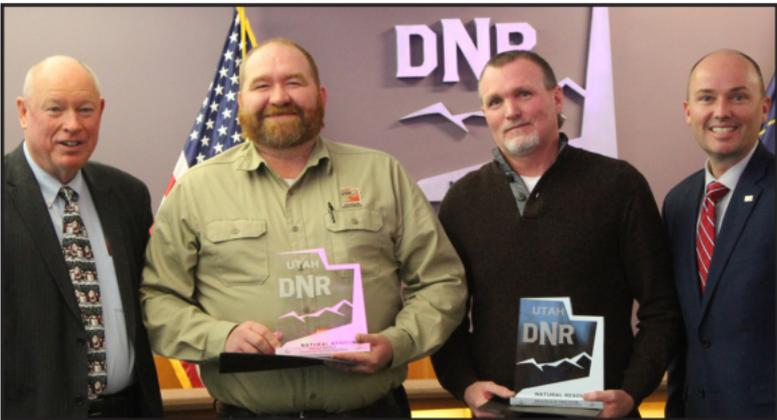


Carl Camp's work ethic, creativity, ingenuity and commitment are clear in the professional ways he manages the Territorial Statehouse State Park Museum. As the park's manager, Carl is "a walking encyclopedia of knowledge" and he enthusiastically shares his knowledge with anyone who will listen. Carl goes above and beyond with every task, event, program, field trip, dance or chore. Carl always attempts to reduce costs by recycling and repurposing items.

Community Outreach

Brandon Mellor, Division of Water Rights

Brad Hunt, Division of Wildlife Resources



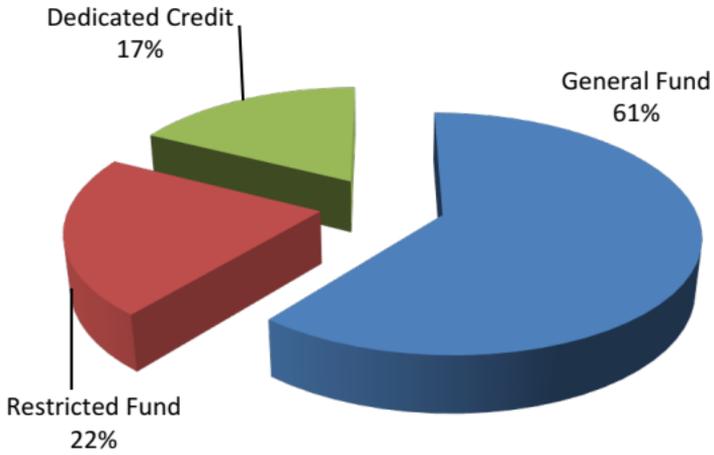
As the Division's Water Use Program technician, Brandon has built relationships with diverse water suppliers and stakeholders throughout southern Utah. He has also helped in finding solutions to more accurately collect water use data. Brandon proves every day that hard work, good communication and innovative problem-solving can solve some of the most significant challenges. Such actions have improved the data and simplified the process for operators, significantly saving time for everyone.

As the manager of the Hardware Ranch Wildlife Management Area, Brad has excelled at increasing the profile of the WMA and developing many successful seasonal community opportunities like "Kids in Action," "All About Elk" and the winter elk feeding program. The scopes of events and programs at Hardware Ranch have helped create ties between neighboring communities, conservation groups and the WMA. Brad has been instrumental in further developing these programs in a way that attracts over 50,000 visitors annually.

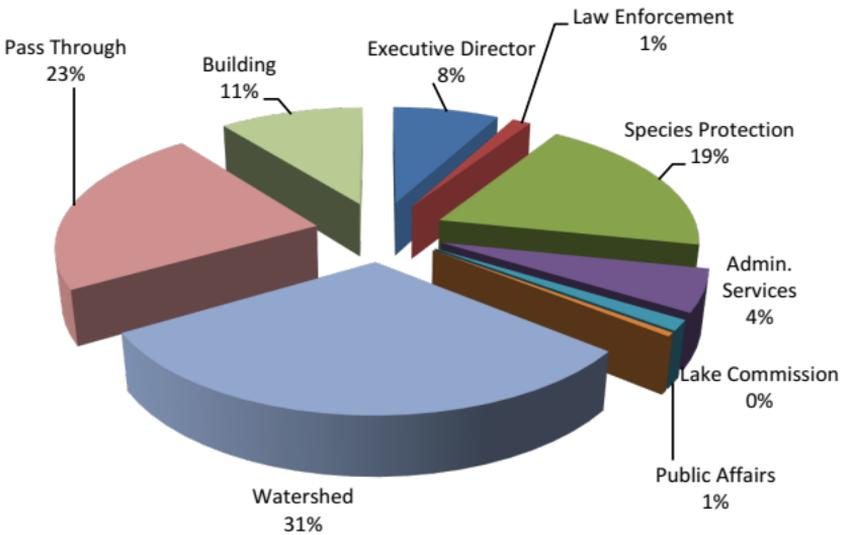
DNR Financials

**Fiscal Year Ending
June 30, 2019
(Unaudited)**

**Revenue
\$16,893,621**



**Expenses
\$16,893,621**



NATURAL RESOURCES

DIVISION UPDATES



FORESTRY



OIL, GAS & MINING



STATE PARKS



WATER RESOURCES



WATER RIGHTS



WILDLIFE RESOURCES



GEOLOGICAL SURVEY

Utah Division of Forestry, Fire and State Lands (FFSL)

Mission Statement:

“The Division of Forestry, Fire and State Lands manages, sustains and strengthens Utah’s forests, rangelands, sovereign lands and watersheds for its citizens and visitors.”



A Super-Scooper plane drops water on the Dollar Ridge Fire.

Utah Division of Forestry, Fire and State Lands



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Director's Commitment

It's a pleasure to write this year's report on behalf of the dedicated employees of the Division of Forestry, Fire and State Lands. The Division has nearly 115 year-round, full-time employees—with more than twice that number when our seasonal firefighters are on staff—and all of them work diligently to manage, protect and ensure the sustainability of lands across Utah.

2018 will certainly be remembered for the record-breaking wildfire season, which included the 3rd (Pole Creek), 5th (Dollar Ridge) and 6th (Goose Creek) largest fires by acres in Utah's history. Other notable, albeit unwanted, numbers from the 2018 fire season include 1,327 total fires and nearly 487,000 acres burned statewide on all jurisdictions. This was the highest number of wildfires in one year since the devastating 2012 fire season and the most acres burned in a single season in the last eight years. Statewide, across all agencies, fire suppression costs were more than \$150 million, with the State's portion of those costs nearly \$42 million. With Utah experiencing the driest conditions in recorded history in 2018, a new wildfire was reported somewhere in the state every day between May 14 and October 2. That's nearly five continuous months of new fire starts!

Wildfire didn't consume us, though. The Forestry Program was busy with the U.S. Forest Service creating the Utah Shared Stewardship Agreement, which was signed by the Governor and U.S. Secretary of Agriculture in a grand ceremony at the Capitol on May 22, 2019. We're extremely proud of the agreement and excited about this new relationship with the Forest Service and the future it entails. The Division's talented forestry staff is certainly at the forefront of maintaining and restoring healthy forest ecosystems and urban forests throughout the state.

And our Sovereign Lands Program had another extremely productive year managing the state's submerged lands, including the beds and shorelines of Bear Lake, Great Salt Lake, Utah Lake, Bear River, Jordan River, and the state's portions of the Green and Colorado rivers. With over 1.5 million acres and 2,200 miles of the shoreline, the sovereign lands staff does a tremendous job managing for the Public Trust, guided by the principles of multiple use and sustained yield.

The staff of the Division of Forestry, Fire and State Lands is extraordinary. Whether it be at the State Office in Salt Lake City,

one of our six Area offices—Logan, Salt Lake, Heber, Moab, Richfield and Cedar City—or the Lone Peak Conservation Center, their commitment to sustainability and sound management is leading to healthier, more resilient lands for Utah.



Brian Cottam
Division Director / State Forester

Division Accomplishments

Forestry

- ◆ The Division has partnered with the U.S. Forest Service, Region 4, to develop a Shared Stewardship Agreement for the State of Utah. The agreement—signed by Governor Herbert and U.S. Secretary of Agriculture Sonny Perdue in May 2019—is a set of mutual commitments to protect communities and watersheds from catastrophic wildfire by investing in actions to improve national forest conditions on-the-ground and reduce the threat of unwanted fire.
- ◆ The Division's Forest Stewardship Program assisted private forest landowners in preparing six new forest stewardship plans in 2019. The state currently has 89 active plans covering 229,040 acres. In addition, Utah received two major grants in 2019 from the US Forest Service for Landscape Scale Restoration projects on Monroe Mountain in Sevier County and along the Virgin River in Washington County.
- ◆ In response to the destructive forest pest Balsam Woolly Adelgid (BWA) reaching Utah, the Division's Forest Health Program has partnered with federal and state agencies on long-term research and outreach relative to BWA and snow pack retention, watershed health, fuel loading, aesthetics, and other economic impacts. In addition, the Forest Health Program began a major partnership initiative in 2019 to address the potential arrival of the Emerald Ash Borer (EAB), another threat to the state's urban forests.
- ◆ The Division's Urban & Community Forestry (U&CF) Program assisted 105 communities in 2019, representing more than 73% of Utah's population. Communities planted 665 new trees and 11,210 seedlings, and local volunteers worked more than 7,587 hours to keep their cities green and vibrant. The U&CF Program and its partners also achieved 89 Tree City USA recipients in 2019, just one shy of the record.



A tree planting event at Camp Williams on Arbor Day.

Wildland Fire

- ◆ By almost any measure, the 2018 wildfire season was historic, and for all the wrong reasons. Whether it was acres burned, number of fires, suppression costs, structures damaged or lost, number of evacuees, air quality impacts, or some other measurement, 2018 was an extremely difficult fire season for both the fire service and public. Many thanks go to the firefighters across Utah for their professionalism, service and constantly responding to the needs, both here in the state and elsewhere across the West. Federal, State, full-time and volunteer firefighters did extraordinary work throughout Utah with initial attack, structure and community protection, and assisting their neighbors and partner agencies when they were in need.
- ◆ The Division's Cooperative Wildfire System with local government—formerly referred to as “fire policy”—is now in its fourth year of implementation. All 29 counties, 151 municipalities and 13 special service fire districts (representing 57 additional cities and towns) have signed the Cooperative Agreement. These “participating entities” are now partners in one of the most progressive wildfire management systems in the country, focused on fire risk reduction through prevention, preparedness and mitigation at the local level.
- ◆ FFSL's state-of-the-art fire business system (FBS) is fully operational and gaining notoriety from our fire management partners across the West. The on-line FBS streamlines the business of fire—including billing, reporting and reconciling of wildland fire costs—and greatly improves the accuracy and efficiency of increasingly complex wildfire accounting and reporting. As recognition of FBS spreads, the Division has already licensed the use of the software to Colorado and Wyoming. Other states, including Montana, Nevada, Arizona, New Mexico, Washington and Idaho are all in the process of obtaining the software license. An FBS presentation was recently given to USDA fire business person-



Federal, State and Local resources prepare to engage the Dollar Ridge Fire.

nel in Washington, D.C., with a more in-depth discussion scheduled in fall 2019 about how FBS could benefit USFS billing processes. FBS is becoming the west-wide standard for how fire business is conducted.

Sovereign Lands

- ◆ The final drafts of the first-ever Green and Colorado Rivers Comprehensive Management Plan (CMP) and updated Mineral Leasing Plan were released for public comment in May 2019. It is expected that a Record of Decision approving the plans will be signed in late 2019. With the completion of the Green and Colorado rivers plan, all the state's sovereign lands will finally have a CMP. This is a significant milestone for the Division, ensuring a consistent and transparent management of these lands for the Public Trust.
- ◆ The Division treated more than 4,600 acres of invasive species, including phragmites, tamarisk and Russian olive, on sovereign lands across the state. In the coming year, the Division plans to aerial spray 1,600 acres and do ground treatments on more than 2,600 acres of phragmites and other invasive species. Now with the support of a substantial ongoing invasive species management appropriation during the 2019 legislative session, our invasive species treatment efforts continue to increase every year and the positive difference can be seen on the ground.
- ◆ In November 2017, the Division received a nomination for an exchange of sovereign lands at Utah Lake. As required by Administrative Rules for Land Exchanges, the Division solicited for exchange proposals and received one from Lake Restoration Solutions, Inc., the same entity that made the original nomination. The Division has accepted the application and is moving forward with evaluating the proposal following the Administrative Rules for Sovereign Land Management Planning. In January 2019, under the direction of the Governor's Public Lands Policy Coordination Office, the first meeting was held of the Resource Review Specialist Team (RRST), comprised of state agency experts. The RRST has been tasked with assisting the Division in the review of the application and providing expertise in specific resource areas. Sovereign lands staff is also working with affected federal agencies as they begin their respective NEPA planning processes regarding the Lake Restoration Solutions proposal.

Forecast

Major policy and management issues for the Division in the coming year include:

- ◆ Watershed protection and forest health.
- ◆ Increased management and control of invasive species and noxious weeds (e.g., phragmites).
- ◆ Impacts and improvements to Utah's urban and community trees and forests.

- ◆ Development in the wildland/urban interface and reducing associated wildfire risk.
- ◆ Forecasts for larger and more intense wildfires with unprecedented, erratic fire behavior.
- ◆ Paying for proactive wildfire risk reduction work, wildfire suppression, and post-fire rehabilitation costs.
- ◆ Ongoing implementation of the State's new Cooperative Wildfire System with local government and fire departments.
- ◆ Through the new Utah Shared Stewardship Agreement between the Governor and U.S. Secretary of Agriculture, increase the pace and scale of our work with the U.S. Forest Service to reduce the risk of wildfire to communities and watersheds.
- ◆ Utilization of woody biomass to offset the cost of fuels reduction and wildfire mitigation work.
- ◆ Increasing complexity and demands of sovereign lands management.
- ◆ Decreasing water levels at Great Salt Lake and Utah Lake and resulting public impacts.
- ◆ Increasing litigation, such as the Weber and Provo Rivers lawsuits.
- ◆ Administering and undertaking the planning for the Utah Lake Restoration Project proposal according to State statute and the Division's Administrative Rules governing sovereign lands management and planning.

As a Division, we look forward to working on and finding solutions to these challenges for the benefit of all Utahns.



State Forester Brian Cottam and Governor Gary Herbert hear from Red Cross workers at a shelter during the Dollar Ridge Fire.

Key Services

Forestry

Manage the State's cooperative forestry programs, including Forest Stewardship, Forest Health, Forest Legacy, and Urban & Community Forestry. Administer the State's Forest Practices Act, including forest practices notifications and operator registry, and implement Utah's Forest Action Plan.

Wildland Fire

Responsible for wildfire management and suppression on Utah's state and private lands in partnership with county and municipal government. Along with suppression, wildfire risk reduction through prevention, preparedness and mitigation efforts at the local level is emphasized, including wildfire suppression training, volunteer fire department grants, community wildfire preparedness planning, and coordination of the Governor's Catastrophic Wildfire Reduction Strategy and National Cohesive Wildfire Management Strategy.

Lone Peak Conservation Center (LPCC)

Provides the State's wildland fire resources, including highly trained crews to both fight wildfires as well as undertake natural resource projects, such as fuels reduction. LPCC is proudly the home of both the Lone Peak and Alta Hotshot crews, making Utah one of only two states that hosts these highly trained and specialized wildfire suppression resources.

Sovereign Lands

Administers public, private and commercial uses of State-owned lakebed and riverbed lands in accordance with the public trust doctrine and principles of multiple use and sustained yield. State sovereign lands include the beds and shorelines of Bear Lake, Great Salt Lake, Utah Lake, Jordan River and portions of the Green and Colorado rivers.

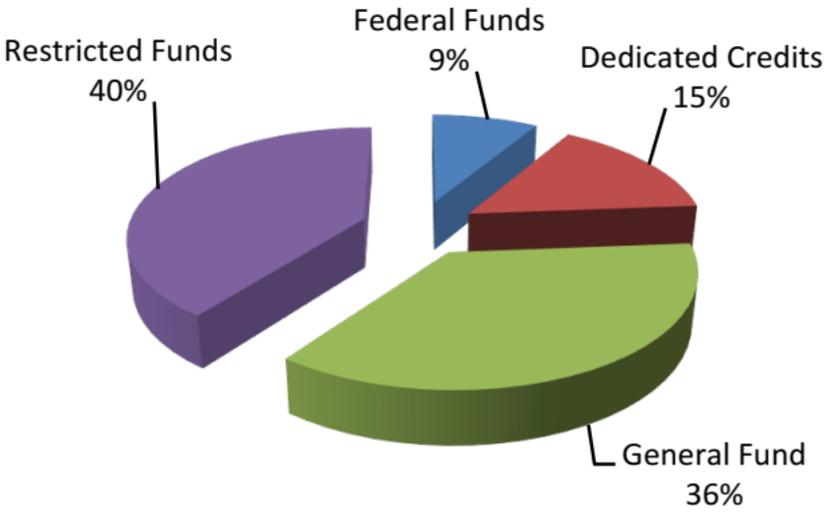


Sovereign Lands staff investigating an incident of motorized vehicle use on the bed of the Great Salt Lake.

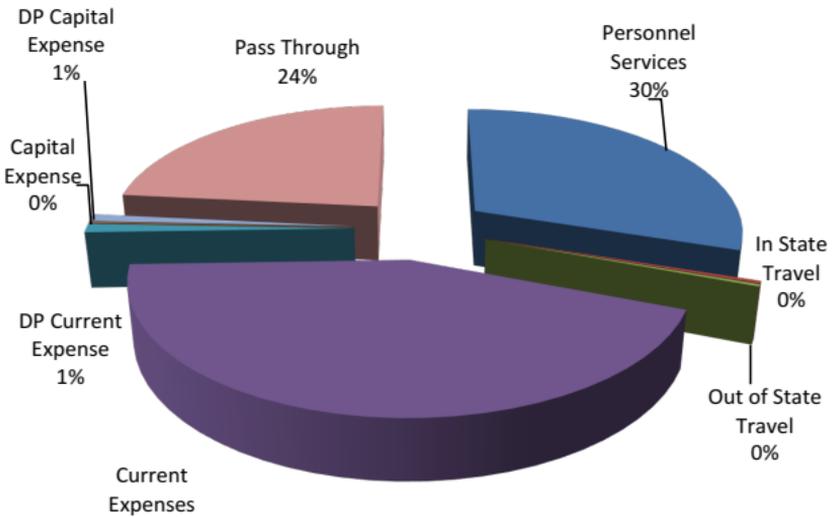
FFSL Financials

Fiscal Year Ending
June 30, 2019
(Unaudited)

Revenue
\$47,762,635



Expenses
\$47,762,635



Utah Division of Oil, Gas and Mining (DOGM)

Mission Statement:

“The Division of Oil, Gas and Mining regulates and ensures industry compliance and site restoration while facilitating oil, gas and mining activities.”



Employees use drones and remote sensing to provide much needed insight and documentation to ensure compliance rules are being met and best management practices are being applied.

Utah Division of Oil, Gas and Mining



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Online Resources

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A contractor installs rebar to safeguard an entrance to an abandoned mine, while leaving access for bats and wildlife.

Director's Commitment

Achieving balance in the development of petroleum and mineral resources in Utah is critical to the well-being and quality of life of all citizens of the state. Our modern-day existence heavily depends on both the energy and materials derived from Utah's deposits of crude oil, natural gas, coal, copper, rock products, building materials, chemicals used for pharmaceutical medicines, and many other valuable elements and minerals. Our basic life-sustaining needs are met by industrial companies engaged in those private sector mineral extraction activities.

In addition to providing benefits for our material needs, the state's economy is also increased by job creation; taxes, fees and royalties paid to government and landowners; and from the indirect effects of the products and services paid for by the companies and their employees who are part of our Utah communities. The monetary benefits to the state, its government entities and its citizens are significant.

Even through these positive benefits, the Division of Oil, Gas and Mining must do its part to balance the resulting good achieved from mineral development with responsible attention to land impacts and environmental protection. We must work collaboratively with federal, county and local government agencies to apply reasonable and effective regulation. We must also recognize and address the needs of both rural and urban communities to balance the desire for positive business activities with valuable conservation and sustainability principles. Although challenging, the Division is committed to appropriate decision-making through the application of sound science.



John R. Baza
Director

Division Accomplishments

Coal

Coal Program staff oversaw the reclamation of the Horizon Coal Mine, a bond forfeiture site in Carbon County. It took roughly three months to remove the coal mine's five-acre footprint and re-contour the site to match the surrounding landscape. Reclamation involved demolishing and sealing the portals, re-establishing the stream channels through the facility and parking fill pads, and applying topsoil, mulch and seed to the final contoured slopes.

The program had a very busy year with 69 permit amendments processed, 271 field inspections, 90 water quality reports produced, and two bond release applications. Program staff approved significant coal lease additions at several operations extending coal mining well into the future in Utah. Additionally, the Emery No. 2 Mine began producing coal in earnest this year and the Division has received a new permit application package for the construction of the Kinney No. 2 Mine located near Scofield Reservoir.



Horizon Coal Mine before reclamation.



Horizon Coal Mine after reclamation.

Oil and Gas

Oil and Gas Program staff worked on the five year permit renewal required for exploration and production waste disposal facilities. The permit requires operators to have full-cost bonding for their facilities. The state rule that changed and was approved by the Utah Board of Oil, Gas and Mining in 2013, required an independent, third-party review of reclamation and closure cost estimates to be submitted by July 2018 and for the Division to issue new permits that are valid for five years for these facilities.

Twenty-eight of the thirty facilities submitted permit applications by the deadline. Operators who did not submit an application could no longer operate. Operators who do not post a full cost bond or otherwise fulfill the permit application requirements will not have their permits renewed and may not be allowed to operate. Operators without a valid permit will be required to reclaim their facilities.

Bonding protects the Division and the State of Utah against expensive reclamation costs that require state funds.



Produced water disposal facility.

Drilling Activity

The Uinta Basin has seen a boom in horizontal well development. There are approximately 300 horizontal wells drilled in the Basin. As operators drill more wells, they are becoming increasingly more productive with advancing technology and science. Industry experts have estimated that there are 55 billion barrels of oil in place in the Uinta Basin, and this production per section can compete with any other fields in the country.

Abandoned Mine Reclamation

Abandoned Mine Reclamation Program (AMRP) completed three coal and five non-coal abandoned mine reclamation projects. Coal reclamation consisted of the construction of 1,600 feet of stream channel at Kenilworth, a previously reclaimed abandoned coal mine, and the closure of 18 coal mine portals at abandoned coal mines near Hiawatha. Non-coal reclamation included the installation of a concrete plug and a 13,000 cubic yard backfill of subsidence at the Chief #1 shaft in Eureka; the replacement of three shaft grates at the Prince of Wales mine in the Wasatch; the closure of 50 abandoned uranium mines in the Browns Hole mining district of San Juan County; and the closure of 18 mine openings in the Gold Hill mining district to complete the Dutch Mountain project. In addition, maintenance was performed at 15 previously closed, abandoned mine sites in the Five Mile Pass area.

The AMRP received an award for work completed on the Wolf Den Fire reclamation project in the Uinta Basin. The National Association of Abandoned Mine Land Programs (NAAML) publicly recognized Utah for the exemplary physical safety

hazard mitigation in the reclamation of abandoned hard rock mines and presented them with the nation's highest achievement at its annual conference in Williamsburg, Virginia. Steve Fluke, AMRP manager, and AMRP Archaeologist Seth Button attended the banquet and accepted the award.



L to R: Steve Fluke, AMRP manager and AMRP Archaeologist Seth Button accepting the Wolf Den Fire reclamation project award.

Education outreach efforts included the distribution of more than 22,000 *Mining Utah's Heritage* workbooks to 4th grade classes, designing and printing 1,700 calendars for distribution featuring historic mining railroads and their relation to mines to commemorate the 150th anniversary of the Golden Spike, and participating in 13 public outreach events.



Completed reclamation work in Kenilworth.

Minerals

The Minerals Program received new applications for five large mines in 2018. Three of these are for engineered rock products and two are for salts. The most significant application is the Sevier Playa project, which is proposed to produce 328,500 tons of potassium sulfate fertilizer annually. This project would cover much of the bed of Sevier Lake and would

include other processing and transportation facilities. The Division is not yet ready to approve the project.

The Scipio Pass quarry was approved on February 5, 2019, and is permitted for 160 acres of disturbance near I-15 in Millard County. Clyde Companies anticipates producing 200,000 tons of aggregate products annually for the first five years, and the life of the mine is expected to be 30 years.

The Beef Hollow quarry in Herriman was approved on April 22, 2019. This quarry is permitted for 372 acres of disturbance and produces aggregate products.



Site of proposed Sevier Playa project.

Forecast

In the past, the majority of the Oil and Gas Program's reporting and budgeting discussions focused on production, but we are changing that narrative to reflect the work being done to protect our resources and the environment. When oil and gas production isn't high, there are still over 16,000 wells that we are inspecting to ensure there aren't issues that could contaminate water sources, soils, livestock and people.

In the future we will continue to focus on all three aspects of our mission, but communicate more clearly what Division staff does to protect the environment and safeguard the citizens of Utah.

Key Services

Oil and Gas

Permits, inspects and monitors oil and gas wells statewide. Staff maintains a database of information regarding ownership, production, disposition and status of oil and gas exploration, production wells and facilities.

Coal and Mineral Permitting

Issues permits to and monitors coal and mineral mining operations to ensure compliance with federal laws and regulations.

Abandoned Mine Reclamation

Identifies abandoned mines and permanently seals off access to reduce accidents and hidden hazards. Division staff also provides outreach programs to schools and communities educating the public about the dangers of abandoned mines.

Utah Board of Oil, Gas and Mining



L to R back row: Chris Hansen, Mike Brown, Rich Borden, Steve Church; L to R front row: Board Chair Ruland Gill, Susan Davis, Gordon Moon

Ruland J. Gill, Jr., Chair

Oil and Gas, Bountiful

Richard K. Borden

Mining, Salt Lake City

Stephen B. Church

Geology, Salt Lake City

Chris D. Hansen

Mining, Highland

Susan S. Davis

Oil and Gas, Bountiful

Michael R. Brown

Environmental, Kaysville

Gordon L. Moon

Royalty Interests, Duchesne

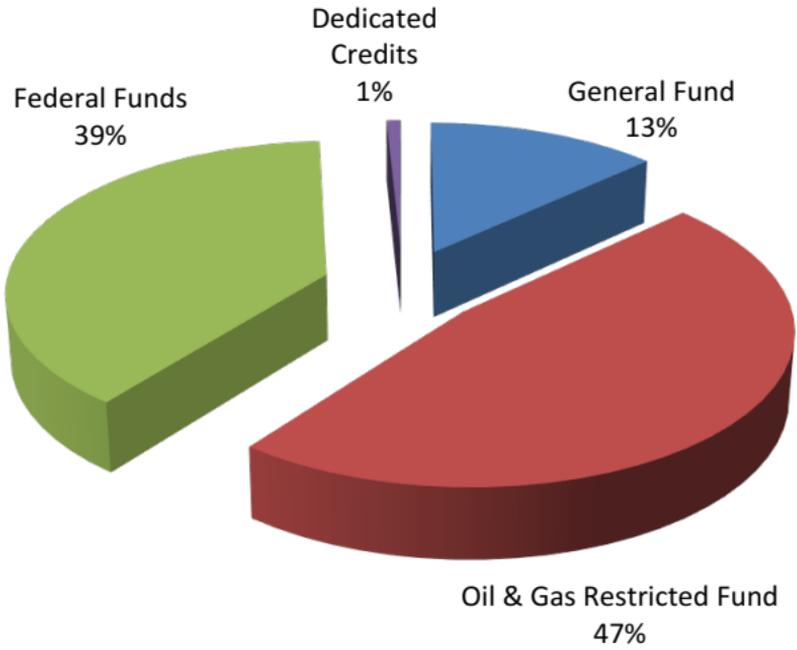
Julie Ann Carter, Board Secretary

801-538-5277

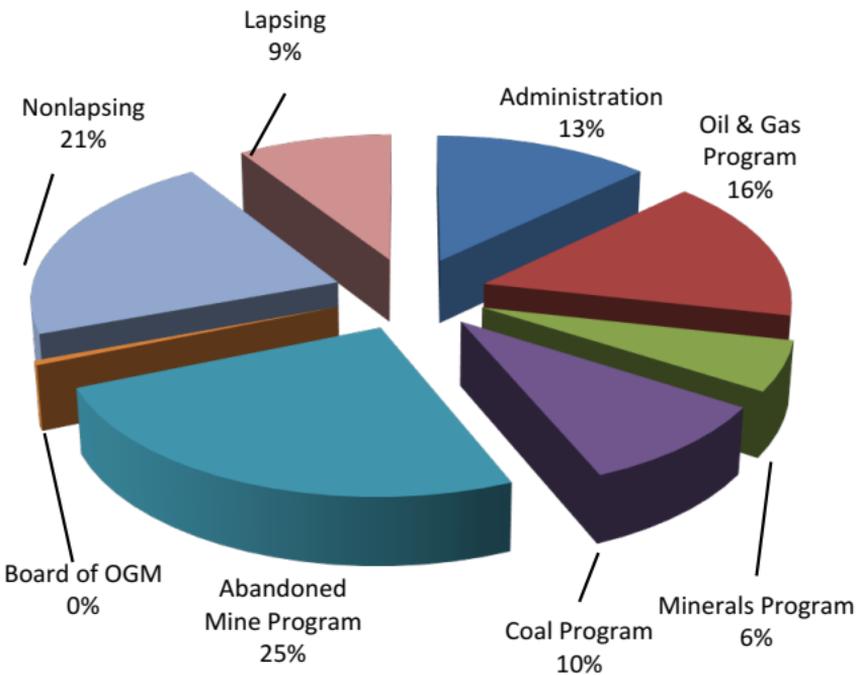
DOGM Financials

Fiscal Year Ending
June 30, 2019
(Unaudited)

Revenue
\$16,396,294



Expenses
\$16,396,294



Utah Division of Parks and Recreation (UPR)

Mission Statement:

“The Division of Parks and Recreation preserves and provides natural, cultural, and recreational resources for the enjoyment, education, and inspiration of this and future generations.”



Coral Pink Sand Dunes State Park

Utah Division of Parks and Recreation



1594 West North Temple, Suite 116
PO Box 146001
Salt Lake City, UT 84114-6001
801-538-7220
801-538-7378 (fax)
stateparks.utah.gov

Executive Team



*L to R back row: Scott Strong, Jeff Rasmussen, Eugene Swalberg;
L to R front row: Eric Stucki, Dave Harris, Kate Croft*

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435-259-3750

Southwest Region

Wayne Monroe, Region Manager
646 North Main Street
Cedar City, UT 84721
435-586-4497

State Parks and Museums

Anasazi State Park Museum

Jamie Skidmore, Park Manager
435-335-7308

Antelope Island State Park

Jeremy Shaw, Park Manager
801-773-2941

Bear Lake State Park

Richard Droesbeke, Park Manager
435-946-3343

Camp Floyd/Stagecoach Inn State Park and Museum

Clay Shelley, Park Manager
801-768-8932

Coral Pink Sand Dunes State Park

Michael Franklin, Park Manager
435-648-2800

Dead Horse Point State Park

Dillon Hoyt, Park Manager
435-259-2614

Deer Creek State Park

Steve Bullock, Park Manager
435-654-0171

East Canyon State Park

Chris Haramoto, Park Manager
801-829-6866

Echo State Park

Eric Bradshaw, Park Manager
435-336-9894

Edge of the Cedars State Park Museum

Chris Hanson, Park Manager

435-678-2238

Escalante Petrified Forest State Park

Kendall Farnsworth, Park Manager

435-826-4466

Flight Park State Recreation Area

Drew Patterson, Park Manager

801-533-5127

Fred Hayes State Park at Starvation

Alan Spencer, Park Manager

435-738-2326

Fremont Indian State Park and Museum

Kevin Taylor, Park Manager

435-527-4631

Frontier Homestead State Park Museum

Todd Prince, Park Manager

435-586-9290

Goblin Valley State Park

James Wells, Park Manager

435-275-4584

Goosenecks State Park

Chris Hanson, Park Manager

435-678-2238

Great Salt Lake State Park Marina

David Shearer, Park Manager

801-250-1898

Green River State Park and Golf Course

Aaron Farmer, Park Manager

435-564-3633

Gunlock State Park

Jon Allred, Park Manager

435-218-6544

Historic Union Pacific Rail Trail State Park

Eric Bradshaw, Park Manager

435-649-6839

Huntington State Park

Brian Kurta, Park Manager

435-687-2491

Hyrum State Park

Chris Bradshaw, Park Manager

435-245-6866

Jordan River OHV State Recreation Area

Mike Thomas, Park Manager

801-533-5425

Jordanelle State Park

Jason Whittaker, Park Manager

435-649-9540

Kodachrome Basin State Park

Nathan Martinez, Park Manager

435-679-8562

Millsite State Park

Brian Kurta, Park Manager

435-384-2552

Otter Creek State Park

Lance Eliason, Park Manager

435-624-3268

Palisade State Park

Shon Tripp, Park Manager

435-835-6676

Piute State Park

Lance Eliason, Park Manager

435-624-3268

Quail Creek State Park

Candace Smith, Park Manager

435-879-2378

Red Fleet State Park

Josh Hansen, Park Manager

435-789-4432

Rockport State Park

Eric Bradshaw, Park Manager

435-336-2241

Sand Hollow State Park

Johnathan Hunt, Park Manager

435-680-0715

Scofield State Park

Brian Kurta, Park Manager

435-448-9449

Snow Canyon State Park

Kristen Comella, Park Manager

435-628-2255

Soldier Hollow Golf Course

Bruce Strom, Golf Manager

435-654-7442

Steinaker State Park

Josh Hansen, Park Manager
435-789-4432

Territorial Statehouse State Park Museum

Carl Camp, Park Manager
435-743-5316

This Is The Place Heritage Park

Private Foundation Director
801-582-1847

**Utah Field House of Natural History
State Park Museum**

Steve Sroka, Park Manager
435-789-3799

Utah Lake State Park

Josh Holt, Park Manager
801-375-0731

Wasatch Mountain State Park and Golf Course

Tracy See, Park Manager
Bruce Strom, Golf Manager
Park: 435-654-1791 Golf: 435-654-0532

Willard Bay State Park

James Morgan, Park Manager
435-734-9494

Yuba State Park

Cheston Slater, Park Manager
435-758-2611

Online Resources**Website:**

stateparks.utah.gov

Boating Safety:

stateparks.utah.gov/boating

Camping Reservations:

utahstateparks.reserveamerica.com

Off-Highway Vehicles:

stateparks.utah.gov/ohv

Facebook:

facebook.com/utahstateparks

facebook.com/UtahStateParksBoatingProgram

facebook.com/UtahStateParksOHVProgram

Twitter:

[@UtahStateParks](https://twitter.com/UtahStateParks)

Instagram:

[@UtahStateParksandRec](https://instagram.com/UtahStateParksandRec)

Director's Commitment

From the azure waters of Bear Lake in the north to the glowing Coral Pink Sand Dunes in the south, Utah is awash in spectacular state parks and recreation destinations. These beautiful sites provide opportunities for Utah's families and visitors to play, relax, and explore in some of the most gorgeous venues on earth.

The winter of 2018–2019 was one of Utah's snowiest seasons on record, and visitors took full advantage of the seasonal recreation opportunities in our state parks, from snowmobiling to ice fishing and even skijoring. In the spring, the abundant snowmelt filled our reservoirs, lakes, and streams to their brims, providing outstanding summer boating, swimming, and fishing. Happy visitors are flocking to our parks in record numbers.

As Utah's population and popularity continue to grow, we are responding with park expansion projects, new facilities, and added attractions and events. We listened to our visitors' requests for more lodging options and have installed rental cabins, yurts, teepees, Conestoga Wagons, RVs, and other overnight accommodations. We even added a new member to our park family—Echo State Park, in northern Utah!

We continue to work with over 150 private business partners to provide exceptional services to our visitors, including off-highway vehicle and boat rentals, food and merchandise, guides and tours, ziplines, floating playgrounds, and so much more. These public-private collaborations not only allow Utah businesses to thrive in our state parks, but also abet our agency's efforts to create jobs and improve local economies through tourism.

Utah State Parks offer something for everyone. We strive to create opportunities for all our visitors to play, explore, learn, connect, and be inspired by the lifelong memories of time spent together with family and friends in the outdoors and at our heritage sites.



Jeff Rasmussen
Director

Division Accomplishments

- ◆ Phase I of the Echo State Park Development Project is well underway, with completion of Dry Hollow Campground expected this fall. This 25-site campground features water and electric hookups, a group site, modern restrooms, and lakeshore camping access and will be a welcome new recreational opportunity in the Summit County area.
- ◆ Plans have been developed and construction will soon begin on a new day-use area at Willard Bay State Park. The area will encompass a fill pit that was used to raise the dike at Willard Bay several years ago. The day-use area will include a 14-acre lake featuring swimming beaches, fishing docks, paddle sports opportunities, and picnicking areas.
- ◆ The State Park Complex comprising Sand Hollow, Quail Creek, and Gunlock State Parks was dissolved this year, and each park was assigned its own separate manager. Sand Hollow is one of our busiest destinations and routinely usurped management resources from the other two parks in the complex, which were stagnating as a result. Within a few weeks of receiving managers, Quail Creek and Gunlock exhibited positive changes; recreation opportunities and visitation have steadily increased at each of these parks since that point:
 - Quail Creek State Park's new manager, Candace Smith, has reclaimed and improved the beach area, providing better public access and more opportunities for the park concessionaire to improve business. Boating access hours have been extended, and the main entrance to the park has been improved to reduce congestion at the gate and increase safety by minimizing traffic backup on the highway.
 - Gunlock State Park's new manager, Jonathan Allred, set out to improve day-use areas of the park. He created an open beach with shade structures and picnic pavilions, and improved the parking lot. Water and electricity have been brought into the park, and there are plans in the near future to expand the campground and improve it with these services. This year the waterfalls at Gunlock flowed for the first time in 10 years, which brought thousands of visitors to the park. Many were pleased to see the day-use improvements and continue to come back to enjoy the new beach.
- ◆ The rededication ceremony of Fred Hayes State Park at Starvation (previously, Starvation State Park) was attended by over 200 of Fred Hayes' family and friends. A memorial stone with a commemorative plaque was unveiled with family and dignitaries honoring our former director. The skies of a stormy day cleared for several hours to bring bright sunshine for the event.
- ◆ Federal Legislation passed that will transfer over 6,000 acres of BLM land to Goblin Valley State Park over the next several

years. Plans had already been underway for our agency to manage this property under a cooperative agreement. The Bureau of Land Management, Emery County, and State Parks will continue to work on management goals and plans to maximize recreational opportunities while preserving the natural resources from overuse in the Goblin Valley area.

- ◆ Division employees participated in the inaugural Salary Improvement Plan program. Employees executed approved projects designed to enhance customer service, improve facilities, and increase the profitability of our state parks. Those who succeeded in completing their projects and received otherwise positive evaluations were awarded a salary increase. The goal of the program, in addition to increasing beneficial projects and productivity, is to pay our employees more competitive wages and increase employee morale.
- ◆ While protecting Utah's state parks, waterways, and off-highway vehicle recreation areas, law enforcement park rangers handled over 8,600 violations last year, as documented in 12,800 reports.
- ◆ Division staff performed 80 search and rescue missions for individuals who were lost, missing, and often in life-threatening situations. We also responded to 97 medical incidents, with many lives saved.
- ◆ Park rangers performed hundreds of vessel assists and tows on Utah's waterways and inspected almost 3,700 vessels for life jackets and other safety equipment.



Off-highway vehicle program, Wasatch Mountain State Park.

Forecast

In 1957, an act of the Utah Legislature created the Utah Division of Parks and Recreation to develop and manage a state park system for the enjoyment of the citizens of this state, the enjoyment of visitors to the state, and the protection of scenic and historical sites important to the culture of Utah. Originally, this new park system included five parks.

In the 62 years hence, the system has grown to 44 state parks and historic sites. As we look to the future, we see a real need to upgrade and expand our facilities and offerings to accommodate ever-increasing crowds. Too many of our parks are at capacity every weekend, and people have to be turned away. Overcrowding at many of our parks has also diminished the visitor experience.

We intend to expand our existing park system to enable more people to have a quality recreational experience therein. We will be undertaking an initiative to improve existing facilities to accommodate the larger crowds. We will develop new and larger facilities where appropriate, and we will be investigating areas for strategic expansion of our parks. At the same time, we will continually look to add new recreational opportunities and programs to keep pace with public demand as we strive to maintain our position on the forefront of innovation in outdoor recreation.



Conestoga Wagon, East Canyon State Park.

Key Services

Recreational Trails Program

The federally-funded Recreational Trails Program (RTP) has helped with non-motorized and motorized trail development and maintenance, educational programs, and trail-related environmental protection projects. This program funds coordination, technical assistance, and maintenance of statewide trail projects on a 50/50 sponsor match.

State Boating Program

This program administers the State Boating Act to regulate and promote safety, education, facilities, search and rescue, and boating enforcement on Utah's waterways, and administers the federal Motorboat Access Grant and the Clean Vessel Act.

44 Utah State Parks

The Division of Parks and Recreation manages Utah's state park system, which includes operations, planning, administration, and protection of 44 heritage, scenic, and recreation parks.

Planning

The Division guides short- and long-term site management to protect and interpret each park's natural and cultural resource base, ensure safe and enjoyable visitor experiences, provide new visitor opportunities, and develop and enhance facilities to meet visitor needs.

State Off-Highway Vehicle Program

The Division administers summer and winter off-highway vehicle operations, including education, trail maintenance, facilities, new trail development, infrastructure, grant programs, rider compliance, accident investigation, and search and rescue.

Grant Program

The Division administers the Land and Water Conservation Fund; the non-motorized and motorized trail grant programs; and Boating Access and Clean Water Act grants.



Boating Program, Otter Creek State Park.



Hosting the public, Otter Creek State Park.

Publications

The Division creates publications that provide concise information to constituents regarding Utah State Parks and recreation programs, including individual park brochures and a statewide field guide.

New Media and Website (stateparks.utah.gov)

The Division provides an abundance of online information, tools, and services. Customers can discover park information and events, reserve a campsite, purchase an annual pass, and engage in our online community on social media.

Heritage Program

This program administers historical, archeological, and paleontological properties within the state park system and works with heritage entities around the state to preserve our shared cultural resources.

Law Enforcement Program

The Division provides public safety, enforcement services, and land stewardship for Utah's 44 state parks, on Utah's 80,000 miles of off-highway vehicle trails, and on 668 square miles of freshwater lakes and reservoirs.



Boating Program, Red Fleet State Park.

Division of Parks and Recreation Board



L to R: Leshia Coltharp, Bob Murri, Corey Cram, Russ Steadman, Claudia Jarrett, Kevin Christensen, and Ryan Starks. (not pictured: Doug Thompson and Natalie Randall)

Bob Murri, Chair

Davis, Morgan, and Weber Counties

Ryan Starks, Vice Chair

Utah, Juab, Wasatch, and Millard Counties

Doug Thompson

Box Elder, Cache, and Rich Counties

Corey Cram

Beaver, Iron, and Washington Counties

Russ Steadman

Salt Lake, Tooele, and Summit Counties

Leshia Coltharp

Uintah, Daggett, and Duchesne Counties

Claudia Jarrett

State-at-Large

Kevin Christensen

Kane, Garfield, Piute, Sevier, Sanpete, and Wayne Counties

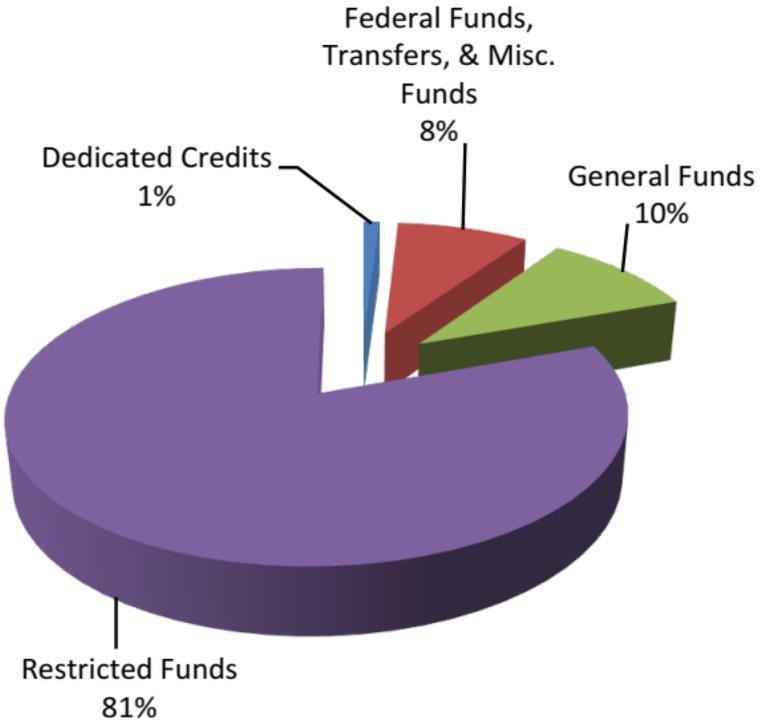
Natalie Randall

Emery, Carbon, Grand, and San Juan Counties

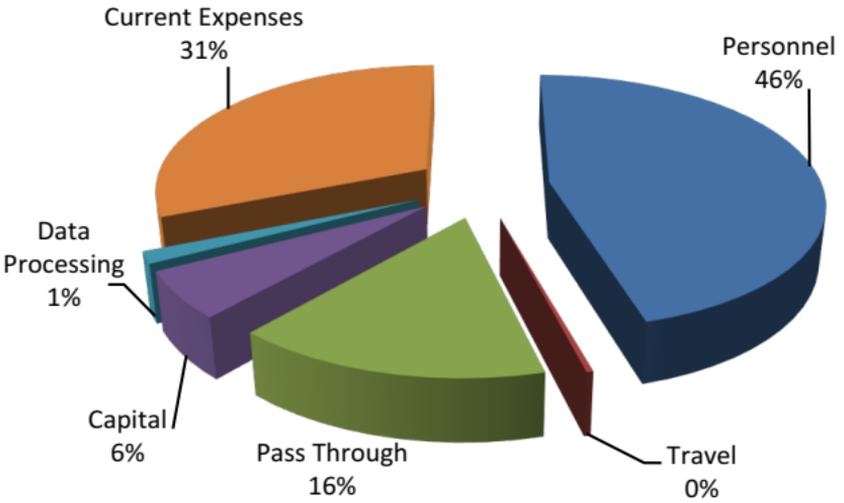
UPR Financials

Fiscal Year Ending
June 30, 2019
(Unaudited)

Revenue
\$50,354,445



Expenses
\$44,668,568



Utah Division of Water Resources (DWRe)

Mission Statement

“The Division of Water Resources plans, conserves, develops and protects Utah’s water resources.”



The Department of the Interior, Bureau of Reclamation and representatives from all seven Colorado River Basin states gathered at Hoover Dam to sign completed drought contingency plans designed to protect the Colorado River. Photos courtesy of U.S. Bureau of Reclamation.

Utah Division of Water Resources



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Executive Team



L to R back row: Todd Adams, Marcie Larson, Lindsay Russell; L to R front row: Joel Williams, Candice Hasenyager, Eric Millis, Jim Egbert

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Twitter:

@UTAHsavesH2O

Water Conservation:

ConserveWater.utah.gov

SlowTheFlow.org

Water.Utah.gov

Facebook:

facebook.com/ConserveUtahWater

Director's Commitment

Planning for the state's water future is an exciting challenge that the Division of Water Resources (DWR) embraces in its role as Utah's water steward. Back in 1967 when the Utah Legislature created the Department of Natural Resources, only about 1 million people lived in our great state. Today, that number is over 3 million, and it's expected to double by 2065.

We live in a semi-arid state and our water future is one of the most significant challenges we face today. In order to meet future water needs, the Division seeks a balanced approach that includes water conservation, improved efficiency, optimization, use conversions and water development.

On the conservation front, we have been working with a team of stakeholders to set regional water conservation goals. Until now, we used a statewide goal. The regional goals can be customized for different areas of the state to fit their unique needs and will be used to update the State Water Plan. A public comment period to review the new goals took place in the fall of 2019.

We continue to educate the public—starting with school children—on the importance of water conservation as they are our future water users and managers. A resource for Utah homeowners is our Weekly Lawn Watering Guide, which is posted to our Facebook page as well as online during the irrigation season. If Utahns followed these guidelines, we could save about 20 billion gallons of water each summer!

Conservation alone is not enough to sustain Utah's future water needs. We must also balance it with improved efficiency. Progress has been made in this area with Senate Bill 52, which brings a plan forth for metering secondary water. Agricultural water efficiency is also a high priority, as is converting agricultural water for municipal and industrial uses as farm lands are developed with homes and businesses.

Additionally, the Utah Board of Water Resources continues to provide loans for projects that improve water efficiency and delivery for local water suppliers. Infrastructure projects are also underway that benefit multi-county water systems both in the short-term and in the long-term.

We will continue to work with our partners and stakeholders to find sustainable, balanced solutions to ensure Utahns have reliable water, that agriculture and businesses can be successful, and where the environment can thrive.



Eric Millis
Director

Division Accomplishments

- ◆ Water officials from all seven Colorado River Basin states (Wyoming, Colorado, New Mexico, California, Arizona, Nevada and Utah) joined representatives from the Department of the Interior and Bureau of Reclamation to sign drought contingency plans for the Upper and Lower Colorado River Basins. These plans are designed to reduce risks from ongoing drought and protect the Colorado River, lakes Powell and Mead and its users.
- ◆ Utah hosted stakeholders from the Upper Colorado River Basin states (Wyoming, Colorado, New Mexico and Utah) for a Demand Management Workshop to have meaningful and insightful discussions on how a potential program could work.
- ◆ Stakeholders have developed Regional Water Conservation Goals, which will be used to update the State Water Plan. The goals were open for review and public comment during fall 2019.
- ◆ The Board of Water resources loaned \$29.4 million for 13 projects that improve efficiency for agricultural irrigation systems and municipal water systems or that help sponsors with their share of dam safety upgrades.
- ◆ Included in the above amount is \$6 million to install secondary water meters.
- ◆ The Board also granted an additional \$3.4 million for five dam safety projects.
- ◆ The Division's work on the Lake Powell Pipeline continues to move forward. The Division submitted requested documentation to the Federal Regulatory Commission, and the draft Environmental Impact Statement (EIS) with the accompanying public comment period currently scheduled for fall/winter 2019. A final EIS and record of decision is anticipated in 2020, according to the Federal Energy Regulatory Commission's schedule.
- ◆ Ten additional resource pages and seven additional data sets for municipal and industrial and land use data were added to the Open Water Data Portal. This interactive website allows users to access water data in a variety of ways, including interactive maps, charts and data downloads, and continues to provide accessibility and transparency.
- ◆ In February 2019, Utah Water Savers introduced its state-wide rebate for toilets for residential water users for homes built before 1994. Rebates continue to be available for smart-timers. This was made possible thanks to the Governor's Office, who recommended, and the Utah Legislature that appropriated, ongoing funds for water conservation and efficiency efforts.



Chimney drain at the Millsite Dam rehabilitation project in Emery County.



Millsite Dam temporary spillway channel.



Discharging snowmelt runoff from Millsite reservoir.

- ◆ The division is actively working to increase public transparency and launched a new website in 2019, which continues to be updated. We are also continuing to live stream the Board of Water Resources meetings, which are available on the DNR YouTube channel.
- ◆ DWRe uses a variety of communication methods to promote water efficiency and education including advertising our H2Oath: Utah's Water Wise Pledge, Weekly Lawn Watering Guide, Hall of Fame or Shame and the Slow the Flow campaign.
- ◆ Utah is a partner in the Slow The Flow campaign and is proud to have continued partnerships with the Utah Jazz, RSL, Snowbird Ski Resort, and Salt Lake Chamber of Commerce.

Forecast

- ◆ Planning for future water demand continues to be the top long-term challenge facing the Division and Utah water in general as population growth is projected to double by 2065, nearing 6 million people.
- ◆ Thanks to an exceptional water year, most of the reservoirs in the state are at or near capacity. However, one great water year doesn't make up for almost 20 years of drought. Mother Nature is fickle, and the summer of 2018 was one of the hottest and driest years on record. The Division will continue to roll out conservation messaging to encourage behavior change.
- ◆ The Legislature passed SB 52 during the 2019 session. The bill addresses the metering of pressurized secondary water, which is important to future conservation efforts, so actual usage can be measured and accounted for. Areas that have implemented secondary meters have seen a decrease in water use by about 35 percent. The Board of Water Resources has set aside \$10 million per year to fund secondary water meter projects.
- ◆ DWRe is applying for a Bureau of Reclamation WaterSMART Water Marketing Strategy Grant to understand how water markets may benefit Utah and the potential barriers to having them.
- ◆ A technical workgroup was created to work on a Bear River Watershed model that will assist in planning efforts.
- ◆ The Bear River Development feasibility study is anticipated to be published before the end of 2019.
- ◆ The Board of Water Resources has approved loans to several municipalities as well as other secondary water system operators to help cover the costs of the meters to jumpstart the program. The low-interest loans will be repaid.

- ◆ Even with changes in policies, landscapes, and technology, conservation alone will not be enough to meet future water needs. Water use conversions and development of new supplies and repair and replacement of existing infrastructure will also be needed.
- ◆ Upper Colorado River Basin states (Wyoming, Colorado, New Mexico and Utah) will continue to work together on demand-management programs as they relate to drought contingency plans.
- ◆ There will be an increase in multi-state interactions involving the Bear and Colorado rivers.

Key Services

Water Education and Conservation

DWRe is working with local water agencies, individuals and professional groups to develop and implement water conservation programs to reduce per capita water use in Utah. We have developed and distributed water education instructional materials to teachers and students in Utah's public schools. The Division partners in the campaigns with Slow the Flow, posts a Weekly Lawn Watering Guide via social media and runs the H2Oath competitions.

Water Development and Conservation Funds

The Board of Water Resources administers three state water development and conservation funds.

Technical Assistance

DWRe provides technical water development and planning assistance to Utah water users.

Water Planning

DWRe is responsible for the state water planning effort, which tracks Utah's current and long-term water-related needs, inventories municipal and industrial water use and water-related land use and performs water use studies. The 2017 municipal and industrial water use data was collected, quality checked and published this year. Currently, the 2018 water use data is in process. Statewide, the average water used in 2017 was 244 gallons per person per day. This includes all water use, municipal, institutional, and industrial water use, as well as residential indoor and outdoor water use. Water use is calculated by combining all water used in the four listed categories and dividing it by the state population. Water use varies from year to year depending on the climate and supply available.

Hydrology and Modeling

DWRe has developed and maintains the state water budget. This accounts for and estimates all the water used in the state over the last 30 years. In addition, our staff devel-

ops geographic information system applications, water demand/supply, and hydrologic models to assist in the state's planning needs.

Interstate Streams

The DWRe director is Utah's interstate streams commissioner, helping to defend and protect Utah's right to develop and use its entitlements in the Colorado, Bear and Columbia Rivers.

Cloud Seeding

DWRe regulates and promotes cloud seeding by augmenting natural precipitation, which enhances snowpack.



Division of Water Resources staff, 2019.



L to R back row: G. Wayne Andersen, Kyle Stephens, H. Blaine Ipson, Randy Crozier; L to R front row: Eric Millis, Juliette Tennert, Jim Lemmon, Norman L. Johnson, Charles Holmgren

Board of Water Resources

Norman L. Johnson, Chair

Upper Colorado River District
Carbon, Emery, Grand and San Juan Counties

H. Blaine Ipson

Sevier River District
Millard, Sanpete, Sevier, Piute and Wayne Counties

James A. Lemmon

Lower Colorado River District
Beaver, Garfield, Iron, Washington and Kane Counties

Juliette Tennert

Salt Lake and Tooele Counties

Kyle Stephens

Weber River District
Weber, Davis, Morgan and Summit Counties

Randy Crozier

Green River District
Daggett, Duchesne and Uintah Counties

G. Wayne Andersen

Provo River District
Juab, Utah and Wasatch Counties

Charles Holmgren

Bear River District
Box Elder, Cache and Rich Counties

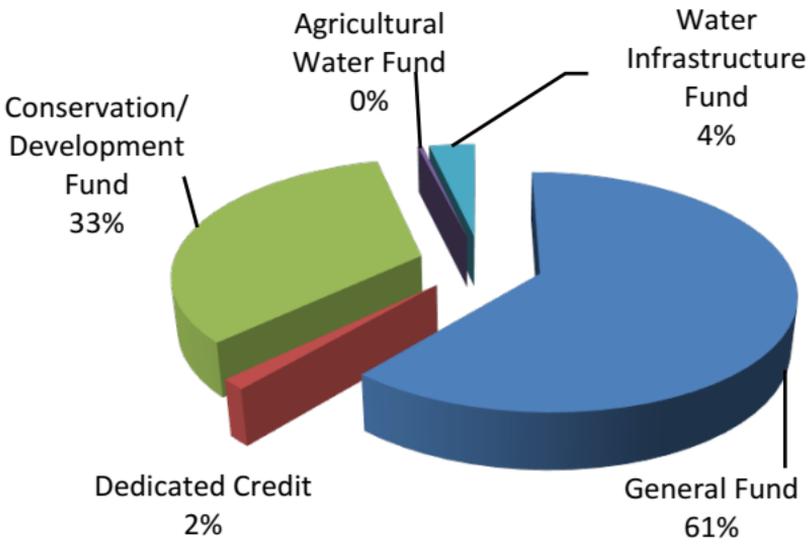
Eric Millis

Division Director

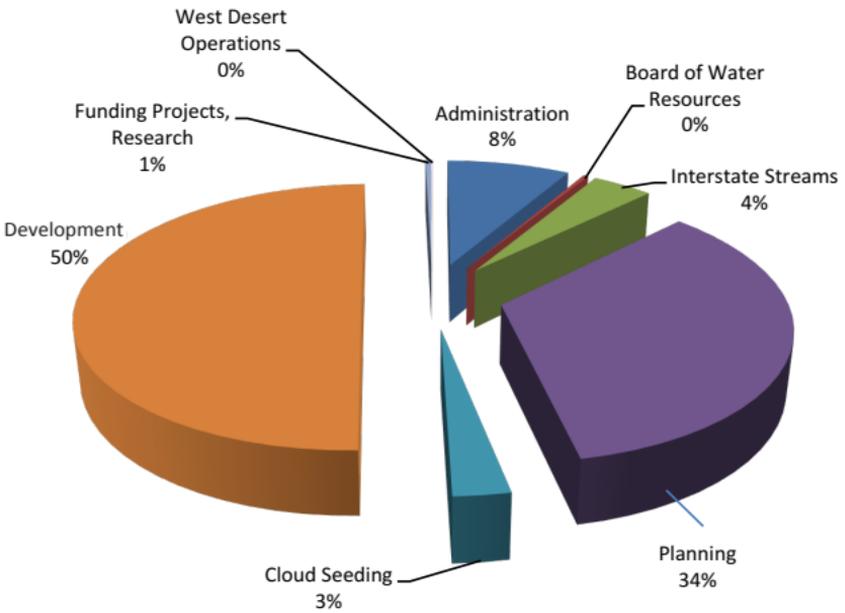
DWRe Financials

Fiscal Year Ending
June 30, 2019
(Unaudited)

Revenue
\$10,256,495



Expenses
\$10,256,495



Utah Division of Water Rights (DWRI)

Mission Statement

"The Division of Water Rights promotes order and certainty in administering the beneficial use of Utah's water."



Snow depth measuring. Photo by David Jones

Utah Division of Water Rights



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Executive Team



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Weber/Western Regional Office

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801-538-7240
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Utah Lake/Jordan River Regional Office

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Southern Regional Office

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Southeastern Regional Office

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Eastern Regional Office

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Online Resources

Website

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Facebook

facebook.com/utahwaterrights

Director's Commitment

We need to stretch our water use further to provide for future growth. **We need** to change the way we use water. **We need** more water in Great Salt Lake. **We need** to give use credits to agricultural users for being efficient with their water use. **We need** to put water into an entity to protect water from forfeiture and allow it to be used for many different uses. **We need** to provide more water for instream flows to enhance environmental purposes. **We need** to protect existing water rights. **We need** to determine which water rights are valid. **We need** to protect return flows based on historical use of water. **We need** more water for industrial and commercial growth. **We need** to approve applications now so we don't stymie the state's economic growth potential.

So many demands yet so little water. For new uses to develop, other uses have to stop, either through conservation measures or discontinuing use, and probably a combination of both. With increasing population and demands on water coupled with impacts of a changing and variable climate, we need to plan and prepare for what is coming. We need to strive to keep a balance in our hydrologic systems to assure that as our water use increases, we can meet those demands and are not unduly impacting those existing uses that the economy of Utah is so delicately based on. The Division is diligently striving to maintain a balance in our hydrologic basins to allow for orderly growth while protecting the existing rights that are so important to those who depend on them. We are processing applications in an orderly and timely manner; we have greatly increased the amount of adjudication claims we are processing through the court system which brings order and certainty to water right's processes, and we are gathering data and studying information at an increased rate to make better educated water right decisions. We are generating models to be used as tools to effectively and accurately distribute water. We are working hard to maintain a balance in the water use around the state. My compliments to our excellent staff for the quality of work they do to watch out for the state's interests in keeping a balance in the state's water use! All of us need to recognize the limitations we have in water availability and strive for balance as we work together to meet Utah's water needs future.



Kent Jones
State Engineer/Division Director

Division Accomplishments

- ◆ The legislature passed five water bills proposed by the Division and supported by the Executive Task Force covering a wide range of water rights topics.
- ◆ There is significant progress on general Adjudication in the Salt Lake Valley. They summoned claims in 10 PD areas; 2202 claims were processed; 255,093 notices provided and 52 objections resolved.
- ◆ State engineer supported legislative efforts to look at issues around cities providing surplus water outside their boundaries. The division chaired the study committee on this topic and proposed legislation that was adopted.
- ◆ Follow-up legislative audit found division's water use reporting review visits are significantly improving data. The legislature added a requirement that all secondary water supplied must also report to the program. The Division has implemented the reporting change.
- ◆ Application average processing time statistic hit an all-time minimum since tracking began in 1995, at 99 days.
- ◆ Real time measurement and development of online distribution models is a modernizing river distribution practice.
- ◆ Modification to Southern Utah Valley Groundwater management plan adopted. Public Meeting held to initiate development of a groundwater management plan in Parowan Valley.



Dam ingenuity. Photo by Kyle Turnbow

Key Services

Water Right Applications

Process water right applications and maintain permanent records for all water rights in state. Assist the public to access water rights information and complete application forms required by the agency.

Distribution and Measurement of Water

Oversee water commissioners and provide support where the agency is directly involved in the daily distribution of water among water right holders.

Adjudication

Present to the district court a proposed determination of water rights within hydrologic areas of the state where such investigations have been ordered by the court and obtain an adjudication order decreeing those water rights.

Dam Safety

Physically inspect and monitor operation of public and private dams, approve new dam construction, consult and approve dam upgrades and intervene in emergencies. Inspections and monitoring efforts are based on each dam's hazard rating for potential loss of life and property.

Stream Channel Alterations

Process permits to alter the banks or beds of natural streams under terms of the Utah Code and a general permit from the US Army Corps of Engineers.

Geothermal

Process permits to use geothermal resources in the state. Inspect facilities and monitor pressure tests.

Action on applications in FY2018 was as follows:

<u>Filed</u>	<u>Action</u>	<u>Type</u>
378	404	Applications to Appropriate
1052	1285	Change Applications
140	163	Exchange Applications
279	261	Nonuse Applications
1051	1114	Extension Requests
621	469	Certificates of Beneficial Use
282	255	Stream Alterations
5034	5147	Reports of Conveyance
303	303	Dam Safety Inspections
40	13	Enforcement Referrals
245	245	Licensed Well Drillers

Well Drilling Regulations and Licensing

Oversee licensing and regulation of water well drillers in the state.

Studies and Technical Services

Collect water resources data for surface, groundwater and use of water throughout the state. Perform studies to determine water availability and management alternatives. Support the integration of data automation technology in operations of the agency.

Enforcement

Administer the division's water rights, dam safety and stream alteration enforcement program as authorized by statute and administrative rule. Investigate violations of Utah water rights law and initiate actions that encourage compliance.



Hydro plant. Photo by Tamara Prue

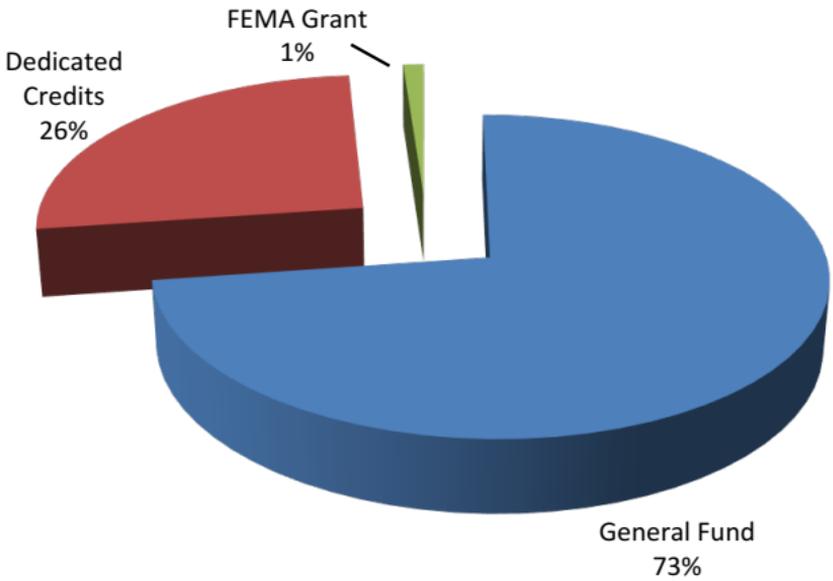


Cylinder gate. Photo by Bret Dixon

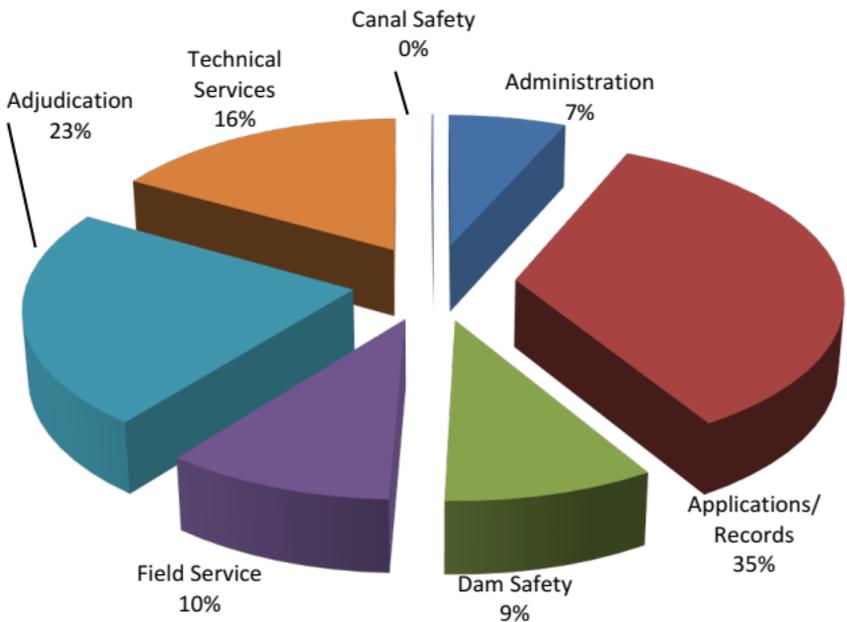
DWRi Financials

Fiscal Year Ending
June 30, 2019
(Unaudited)

Revenue
\$12,869,500



Expenses
\$12,369,500



Utah Division of Wildlife Resources (DWR)

Mission Statement

"The Division of Wildlife Resources serves the people of Utah as trustee and guardian of the state's wildlife."



Balance is no problem for these mountain goats. Even young goats can easily scramble across rugged terrain within a day or two of being born. These two goats were photographed during a northeastern Utah population survey in September 2018. Photo by Randall Thacker

Utah Division of Wildlife Resources



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801-538-4700
801-533-4709 (fax)
wildlife.utah.gov

Executive Team



L to R: Mike Canning, Thu Vo-Wood, Ashley Green, Mike Fowlks (not pictured: Robin Cahoon and Ben Nadolski)

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Robin Cahoon — Assistant Director
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Ben Nadolski — Policy Analyst/Legislative Liaison
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Thu Vo-Wood — Administrative Assistant
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Ogden, UT 84405
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435-613-3700

Southern Region

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Washington County Field Office

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Hurricane, UT 84737
435-879-8694



Division biologists have placed GPS and radio collars on many big game animals to research their movement, survival, birth rates and more. In the spring of 2019, they used the collar signal to locate this cow moose and learned that she'd given birth to two calves. Photo by Utah Division of Wildlife Resources

Online Resources

News and information

wildlife.utah.gov/wildlife-news.html

Calendar of events

wildlife.utah.gov/calendar

Fishing reports

wildlife.utah.gov/hotspots

Hunting maps

wildlife.utah.gov/huntplanner

Utah hunting and fishing mobile app

wildlife.utah.gov/mobileapp

Turn in a Poacher

wildlife.utah.gov/report-a-poacher.html

STD of the Sea (mussel decontamination)

stdofthesea.utah.gov

Utah's Wildlife Action Plan

wildlife.utah.gov/discover/wildlife-action-plan.html

Facebook

facebook.com/UtahDWR

Twitter

twitter.com/UtahDWR

Instagram

instagram.com/UtahDWR/

YouTube

youtube.com/user/UDWR

Pinterest

pinterest.com/utahdwr/

DWR blog

wildlife.utah.gov/news/wildlife-blog.html



In June 2019, the Utah Wildlife Board approved a change that simplifies the process for the public to collect, possess and breed non-venomous native reptiles and amphibians caught in the wild. Photo by Utah Division of Wildlife Resources

Director's Commitment

Balance is a fitting theme for this year's report, especially from a wildlife-management perspective. Every day, our employees juggle multiple responsibilities that require a strategic mix of high-tech tools and hands-on fieldwork.

Our Wildlife Migration Initiative, for example, blends satellite-based tracking systems and GIS technology with big game captures and on-the-ground collaring efforts.

Our conservation officers take a similar approach by using a combination of cutting-edge tools and essential legwork to solve and prosecute wildlife crimes.

This past year, our wildlife and habitat teams had to deal with a drought emergency, severe wildfires and a winter with heavy snowfall, all of which had repercussions for wildlife and required a judicious, timely response.

Our fisheries, outreach and tech teams launched an exciting new website that helps anglers find good places to fish but also allows them to leave their own ratings and feedback.

We strive for balance in all of our fish and wildlife populations. Sometimes, this means increasing or decreasing harvest to meet the objectives in our management plans.

We serve the people of Utah as trustees and guardians of the state's fish and wildlife. Although we are very passionate about wildlife—and work hard to manage more than 600 species—we also prioritize the safety and well-being of our public.

We have incredible, talented employees and longstanding, effective partnerships. Together, we are committed to conserving, enhancing and actively managing Utah's fish and wildlife populations.



Mike Fowlks
Division Director

Division Accomplishments

Some of our key accomplishments over the past year include:

- ◆ Partnering with other agencies and organizations in Utah's Watershed Restoration Initiative to restore wildlife habitat and areas damaged by numerous wildfires during 2018. Since 2006, the initiative has rehabilitated and restored more than 1.6 million acres.
- ◆ Using new resources and tactics in the fight against invasive quagga mussels. With additional funding from the Utah Legislature, we added more inspection and decontamination stations, increased operating hours at boat ramps, invested in new equipment and increased law enforcement patrols and checkpoints.
- ◆ Launching a new, interactive map-based fishing website. The site includes improved mapping technology, which helps users find a place to fish near their current location. The new site also allows anglers to rate waterbodies based on recent fishing trips.
- ◆ Opening the new George S. and Dolores Doré Eccles Wildlife Education Center in Farmington. The center officially opened in September 2018 and is now educating visitors about the Great Salt Lake wetlands, the species that live there and the benefits of active wildlife management.
- ◆ Using the Wildlife Migration Initiative to better understand the movements and migration routes of wildlife in Utah. We are improving our understanding of many migratory species and their habitats across geographic barriers and boundaries.
- ◆ Finalizing a new strategic plan with a concise, high-level outline of the Division's main priorities. It provides our employees with clear direction about who we are, what we do and how we will conduct ourselves.



These nesting great blue herons are just some of the many species that live in the wetlands around the new George S. and Dolores Doré Eccles Wildlife Education Center in Farmington. The center officially opened in September 2018, and is a popular destination for local families, birders, photographers and others who enjoy learning about wildlife. Photo by Crystal Ross



In the spring of 2019, a Division trail camera caught this image of deer using the new wildlife bridge over I-80 near Parleys Summit. The Utah Department of Transportation (UDOT) completed the bridge in December 2018, and many different species are already using it. The Division and UDOT work closely together to keep people and wildlife safe by reducing the number of wildlife-vehicle collisions. Photo by Utah Division of Wildlife Resources

Forecast

During the next fiscal year, we will continue to proactively address the following issues:

- ◆ Take a hands-on approach in conserving, enhancing and actively managing the state's fish and wildlife populations for the benefit of all Utahns.
- ◆ Rehabilitate landscapes burned by wildfires and proactively restore wildlife habitat and watersheds.
- ◆ Battle against invasive species, including quagga mussels, that threaten Utah's wildlife and economic interests.
- ◆ Increase trust and promote voluntary compliance with wildlife laws by serving the public with integrity, compassion and respect.
- ◆ Use the research and migration data we're collecting to work with other stakeholders in reducing or mitigating migration barriers.
- ◆ Manage sensitive species populations to prevent them from being federally listed as threatened or endangered, and work to delist those species that are currently listed.
- ◆ Build and strengthen partnerships with those who are willing to commit their time and resources to benefit wildlife or expand recreational opportunity.
- ◆ Explore and implement new technologies that improve our ability to communicate with our customers and garner their support for future wildlife management.

Key Services

Certificates of Registration

Issues licenses and certificates of registration to falconers, private pond owners and people who want to own exotic pets.

Community Fisheries Program

Partners with local governments to provide community fishing opportunities for Utah youth and families.

Dedicated Hunter Program

Provides additional hunting opportunities for Utah deer hunters who perform volunteer service benefiting wildlife.

Fisheries Experiment Station

Monitors Utah's wild fish populations and the Division's fish hatcheries. Provides hatcheries with disease assessment and treatments.

George S. and Dolores Doré Eccles Wildlife Education Center

Features an education center (801-451-5536) and nature trails to educate visitors about the Great Salt Lake wetlands and active wildlife management.

Great Basin Research Center and Seed Warehouse

Conducts rangeland-rehabilitation research. Also stores, mixes and distributes seed for restoration projects.

Hatcheries

Owns and operates Utah's state fish hatcheries.

Hunter Education

Trains individuals in the safe handling of firearms and responsible hunting ethics. The Lee Kay Center for Hunter Education (801-972-1326) and the Cache Valley Hunter Education Center (435-753-4600) provide Hunter Education courses and public shooting ranges.

Licenses

Sells hunting and fishing licenses and permits.

Natural Heritage Program

Identifies and monitors sensitive plant and animal species, and maintains a database for making natural resource decisions.

Wildlife Recreation Program

Offers many wildlife-viewing events as well as hands-on clinics and seminars that provide instruction on hunting, fishing, shooting and more.

Utah Wildlife Board



L to R: Randy Dearth, Bret Selman, Donnie Hunter, Kevin Albrecht, Karl Hirst and Wade Heaton (not pictured: Byron Bateman)

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Mike Fowlks, Executive Secretary

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Brayden Richmond, Chair
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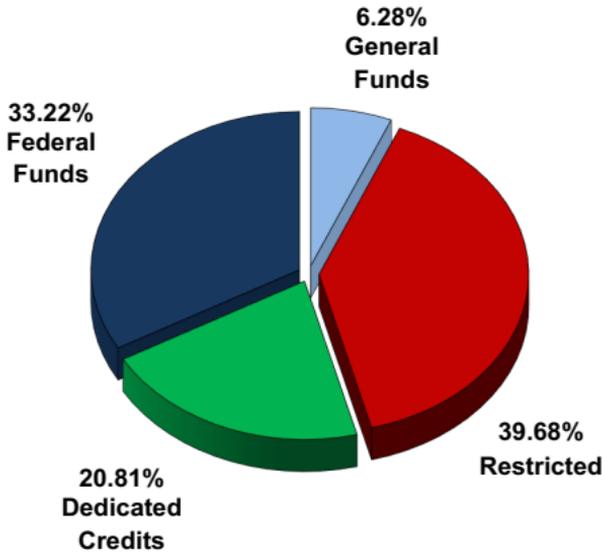


Heather Litke set a new Utah catch-and-release fishing record for striped bass during the spring of 2019. At 44.5 inches, her massive Lake Powell bass was the catch of a lifetime. Photo by Ryan Litke

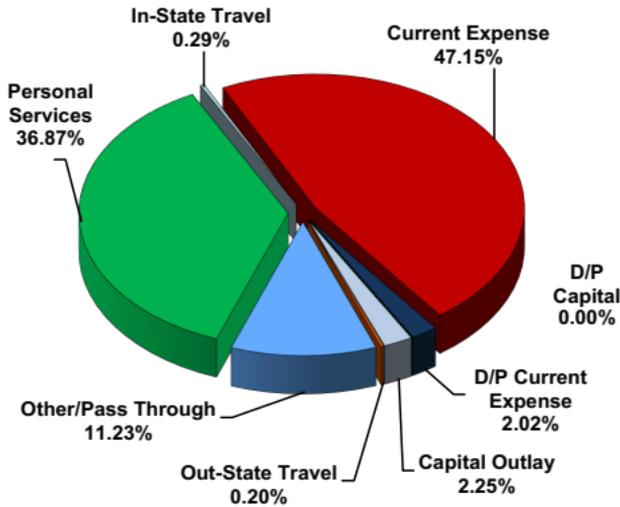
DWR Financials

**Fiscal Year Ending
June 30, 2019
(Unaudited)**

**Revenue
\$108,094,059**



**Expenses
\$108,094,059**



Habitat Council Spending by Program (Category)

Waterfowl	\$140,642	4.69%
Upland Game	\$333,463	11.12%
Big Game	\$1,033,096	34.45%
Non-Game Terrestrial	\$37,539	1.25%
Sportfish	\$1,412,276	47.09%
Non-Game Fish	\$41,809	1.39%
	\$2,998,824	100.00%

Utah Geological Survey (UGS)

Mission Statement:

“The Utah Geological Survey provides timely scientific information about Utah’s geologic environment, resources, and hazards.”



Emergency response to the Pinecrest landslide in Emigration Canyon involved assessing the risk of additional landsliding.

Utah Geological Survey



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Executive Team



*L to R back row: Michael Vanden Berg, Michael Hylland, Grant Willis;
L to R front row: Hugh Hurlow, R. William Keach II, Jodi Patterson,
Steve Bowman*

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Starr Soliz — Secretary
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Michael Vanden Berg — Energy & Minerals Program
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Regional Office

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Online Resources

Website

geology.utah.gov

Natural Resources Map & Bookstore

mapstore.utah.gov

Utah Geological Survey Library

geology.utah.gov/library

Blog

geology.utah.gov/blog

Facebook

facebook.com/UTGeologicalSurvey

Twitter

twitter.com/utahgeological

LinkedIn

linkedin.com/company/utah-geological-survey



Geologic mapping of landslide-prone volcanic bedrock in the foothills above Salt Lake City.

Director's Commitment

The Utah Geological Survey assists government, industry, and the general public by gathering, interpreting, and publishing geologic information. Our goal is to see that geologic information is used as part of wise stewardship of public and private resources. Knowledge of the location and resource potential of Utah's geologic commodities—including oil and gas, coal, metals, industrial minerals, and groundwater—as well as the location, magnitude, and frequency of geologic hazards such as landslides and earthquakes, are essential inputs to local and statewide plans incorporating likely future resource development, urban growth, and infrastructure expansion. We continue to improve public accessibility to critical geologic information through new web apps and interactive maps. UGS website use continues to increase as more information is uploaded to our site, with now over 1 million web page visits per year. The UGS will continue to pursue opportunities to apply new technologies to meet the diverse needs of a growing state.



Bill Keach
State Geologist/Director

Division Accomplishments

- ◆ The Energy and Minerals Program, in collaboration with the University of Utah and other partners, is embarking on a four-year, \$10 million project to improve oil production in the Paradox Basin. The project will characterize geologic conditions and forecast the effectiveness of novel stimulation approaches to enable full production from an unconventional oil play.
- ◆ The Geologic Hazards Program responded to multiple landslides at the request of local governments, including the Pinecrest Canyon landslide for Salt Lake County and the Spring Creek Road landslide for Riverdale City. These responses included monitoring, technical support, and advice on life and property safety and how to deal with and manage the hazard so informed decisions could be made.
- ◆ The Geologic Information and Outreach Program continued its efforts to increase interactive content on the Utah Geological Survey website. UGS website page views have increased by over 20 percent in each of the past two years, and annual page views now number over 1 million.

- ◆ The Geologic Mapping Program released nine new detailed 7.5-minute quadrangle geologic maps of urban Wasatch Front areas, and four maps at various scales of other parts of the state. UGS geologic maps are used by geologists, government officials, industry representatives, and the public to better understand Utah's geology, delineate economic value and potential of property, and assess geologic hazards.
- ◆ The Paleontology section of the Geologic Mapping Program completed an updated Paleontological Sensitivity Map of Utah that will help land managers and owners determine the potential for encountering important (primarily vertebrate) fossils at a given project site.
- ◆ The Groundwater Program completed a multidisciplinary study of the hydrogeology of Ogden Valley. The study evaluated the surface water–groundwater connection, quantified sources of water to Pineview Reservoir and Ogden City wells, established water budgets for Ogden Valley and the major surface drainages within the valley, and recommended septic tank density for future growth.
- ◆ The Wetlands section of the Groundwater Program completed a new map of wetlands on the east shore of Great Salt Lake. The map shows areas occupied by the invasive grass *Phragmites australis*, which has spread considerably into areas previously mapped as mudflat along the shore of Great Salt Lake. The new mapping will facilitate effective management of sensitive wetland areas around Great Salt Lake.

Forecast

Critical issues and goals for the UGS are:

- ◆ Explore budgetary options for reduced reliance on volatile and generally decreasing revenue from federal Mineral Lease royalties. Over the past five years, hydrocarbon prices have dropped, and production on federal lands has decreased 50%. Continue to pursue outside funding sources via cooperative projects with academia and local government agencies.
- ◆ Develop five-year plans for each of the five programs within the UGS, and for the Survey itself.
- ◆ Develop succession plans for potential retirements coming in the next few years. Certain programs may be impacted by multiple retirements in a 1-2-year timeframe. Critical to develop methods to capture and maintain their “institutional knowledge” before retirement.
- ◆ Identify and implement technologies to both enhance current workflows and be in place to attract future staff as retirements occur.

- ◆ Review mission priorities in relation to staff expertise and attempt to fill critical gaps as retirements and funding levels provide opportunities.
- ◆ Develop and publish uniform comprehensive geologic-hazard map sets that will aid Utah local governments and others in managing growth while protecting their citizens.
- ◆ Continue to work on identification and deployment of alternative energy sources. The UGS will continue to partner in the FORGE geothermal project.
- ◆ Assist research into the ability of Utah's deep geologic reservoirs to safely sequester waste fluids from extractive industries.
- ◆ Clarify Utah's groundwater potential and assist the State Engineer to sustainably develop these resources.



Drilling rock core from the oil-producing Green River Formation in the Uinta Basin.



Detailed analysis of Green River Formation core to better understand the petroleum production potential of the Uinta Basin.

Key Services

Utah Core Research Center (UCRC)

The UCRC serves as a repository and laboratory for Utah well cuttings and core, providing petroleum, coal, and geologic samples for industry and academic research as well as public education.

Geologic-Hazard Assistance

The Geologic Hazards Program assists governments in responding to geologic-hazard emergencies, reviews geologic-hazard reports for school districts, investigates geologic hazards, and prepares geologic-hazard maps for use by local governments, consultants, and the public.

Natural Resources Map & Bookstore

In addition to offering a selection of publications and maps on Utah geology and other natural resource topics, the bookstore is the only retail outlet that maintains an inventory of topographic maps for the entire state of Utah.

Water Resource/Environmental Evaluations

The Groundwater Program evaluates groundwater resources and protects drinking-water supplies by investigating the environmental impacts of waste disposal, storage, and treatment facilities for local, state, and federal agencies.

Public Inquiry

The Geologic Information and Outreach Program provides information on Utah geology and geologic issues to governments, industry, educators, and the general public.

Energy and Mineral Evaluations

Geologists specializing in Utah's various energy resources and minerals investigate and provide energy and mineral resource information on county, state, or federal lands to local, state, and federal agencies.

Paleontological Services

The Paleontology Section evaluates paleontological sites, excavates critical fossils in danger of destruction, and issues paleontological excavation permits.

Board of the Utah Geological Survey



L to R: Ken Fleck, Rick Chesnut, Elissa Richards, Dave Garbrecht, Pete Kilbourne, Marc Eckels, Sam Quigley (not pictured: David Ure)

Marc Eckels, Chair
Minerals (Hydrocarbons)

Rick Chesnut
Engineering Geology

Ken Fleck
Minerals (Coal)

Dave Garbrecht
Minerals (Metals)

Pete Kilbourne
Scientific Interests

Sam Quigley
Minerals (Industrial)

Elissa Richards
Public-at-large

David Ure
Ex-officio

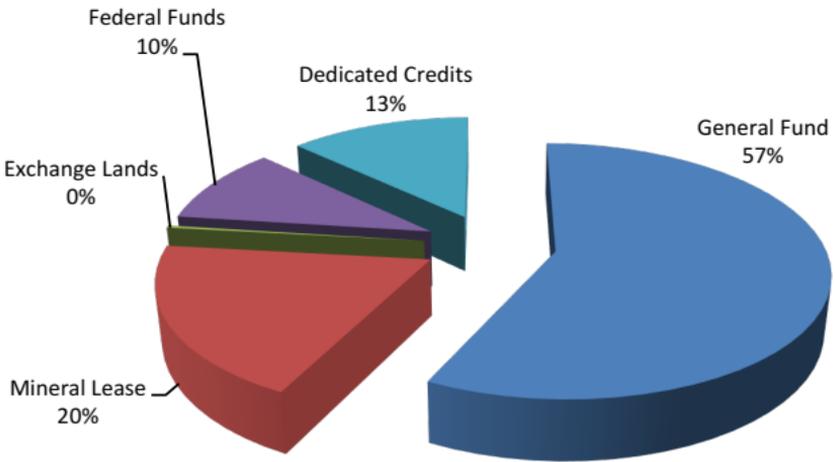


Dinosaur bone in eastern Utah being capped in plaster in preparation for collection.

UGS Financials

Fiscal Year Ending
June 30, 2019
(Unaudited)

Revenue
\$7,499,052



Expenses
\$7,499,052

