
OCTOBER 13, 2022

GREAT SALT LAKE SUMMIT

PRESENTED BY SPEAKER BRAD WILSON





OCTOBER 13, 2022

A MESSAGE FROM SPEAKER WILSON

Welcome to the Second Annual Great Salt Lake Summit!

Since we last met just over ten months ago, much progress has been made to protect and preserve the Great Salt Lake. My colleagues in the Legislature worked to pass several pieces of bipartisan legislation and approve historic funding. Our Congressmen brought the issue to the national spotlight and are working together to bring additional funding and support to Utah from D.C. Local governments enacted ordinances to help conserve and optimize water in counties and municipalities. And of course, Utahns all across the state stepped up to the plate and did their part to help in these efforts.

As we have worked to protect and preserve the Great Salt Lake, I have begun to see the lake as a symbol of a broader, systematic problem with the way we manage our water. Today's program will focus on the Great Salt Lake, but the lake is only one piece of a much larger puzzle. The lessons learned and solutions discussed pertain not just to the lake, but to Utah's water management, resources, and strategy.

I am proud of the work we have done and the progress that has been made, but we still have a long way to go. Protecting and preserving the Great Salt Lake is a marathon, not a sprint. It will take a continuous effort for many years, from government, the private sector, and all Utahns. And while you and I may never fully see the impacts of our work, this is simply a race we cannot afford to lose.

Let us all commit to working together to ensure the Great Salt Lake remains a living part of Utah's economy, environment, and recreation, and not a page in our history books.

With appreciation,



GREAT SALT LAKE SUMMIT

Exhibit Hall & Continental Breakfast

Welcome & Presentation: What Have We Done?

Speaker Brad Wilson

Overview of Utah Water Flows

Teresa Wilhelmsen
Utah State Engineer

Utah Water Trends & Cycles

Brian Steed, *Utah State University*
William Anderegg, *University of Utah*

Panel Discussion: The Lake Today

Moderator: Tage Flint
Jamie Barnes, *DNR*
Candice Hasenyager, *DWR*
Brian Steed, *USU*
Bart Forsyth, *JVWCD*

BREAK

Fireside Chat: Challenges & Solutions

Speaker Brad Wilson
Rep. Tim Hawkes, *Utah House*
Joel Ferry, *DNR*

Panel Discussion: Federal Efforts

Moderator: Speaker Brad Wilson
Congressman Blake Moore (*UT 1*)
Senator Mike Lee (*UT*)
Senator John Barrasso (*WY*)

LUNCH

What's Next?

Speaker Brad Wilson

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WHAT HAVE WE DONE?

WELCOME & VIDEO PRESENTATION



Since we last met just over ten months ago, much progress has been made to protect and preserve the Great Salt Lake. During the 2022 General Session, we did more to forward water conservation efforts than any other single year in our state's history – and possibly more than all previous Legislative Sessions combined. We appreciate the actions taken on all levels – federal, private, local, and individual to help preserve Utah's precious water resources.

Speaker Brad Wilson
Utah House of Representatives

Representative Tim Hawkes
Utah House of Representatives

Mitch Hancock
Noo Sun Dairy

Joy Petro
Layton City Mayor

Congressman Blake Moore
US House of Representatives

Senator Mitt Romney
US Senate

Clay Carter
Engineer and Farmer

Tony Richards
Utah Department of Agriculture

Scott Paxman
Weber Basin Water Conservancy District 3

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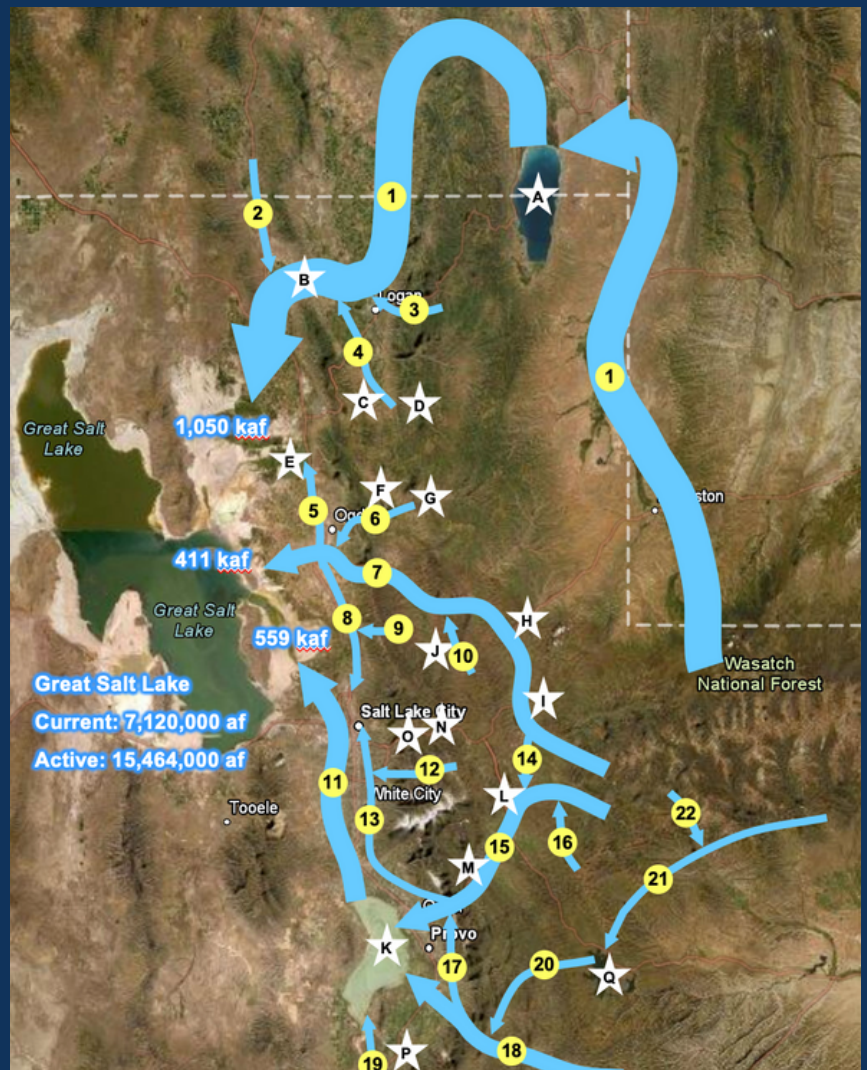
OVERVIEW OF UTAH WATER FLOWS

PRESENTATION

Teresa Wilhelmsen
Utah State Engineer

Water flow within Utah is far more interconnected than you might think. It's impossible to discuss the Great Salt Lake without discussing the water sources within our state including the Bear River, Weber River, Jordan River, and the several reservoirs, lakes, creeks, canals, and more.

Utah's interconnected, interdependent, and complex water systems all play a role in protecting and preserving the Great Salt Lake.



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UTAH WATER TRENDS & CYCLES

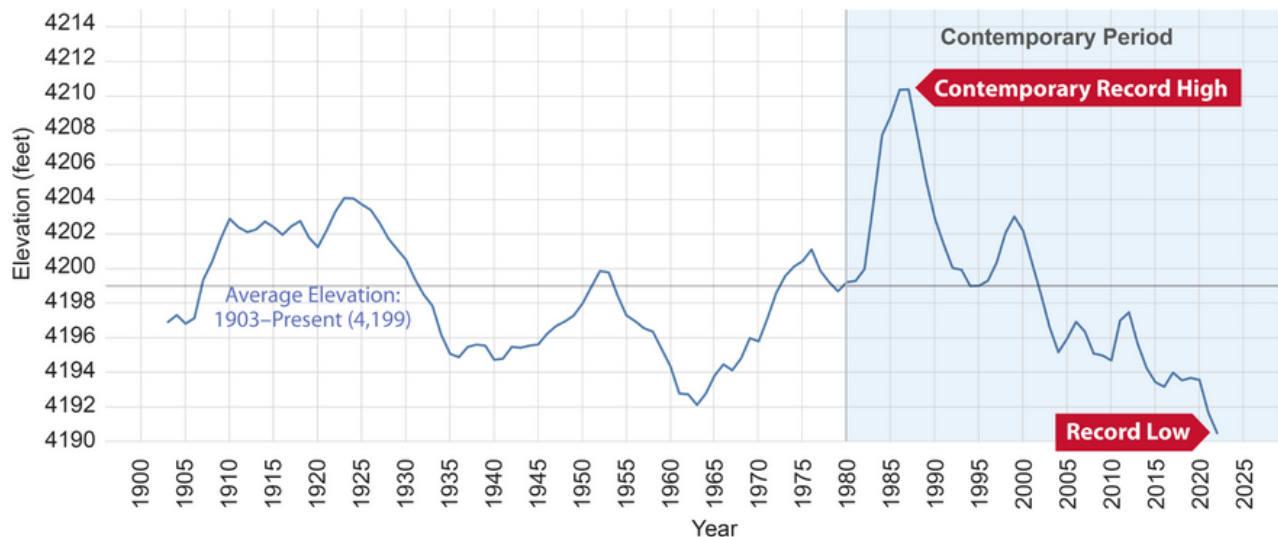
PRESENTATION



Brian Steed, *Utah State University*
William Anderegg, *University of Utah*

The Great Salt Lake is at a historical low elevation. There are many complex and compounding factors that contribute to low water levels. With interventions, the lake can return to healthy levels over the next 30 years, but only if we act now.

Average Annual Elevation of Great Salt Lake, 1903–2022



Note: 2022 annual average calculated from daily average elevation through September 23.
Sources: US Geological Survey Historical Elevation at Saltair Boat Harbor

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THE LAKE TODAY

PANEL DISCUSSION



Utah is projected to double in population in the next 4-5 decades with Northern Utah experiencing the majority of the growth. How do we address the needs of the Great Salt Lake while also taking into consideration a growing population, which comes with increased water needs?

Moderator: Tage Flint

General Manager, Crescent F, LLC

Jamie Barnes

Director, Utah Division of Forestry, Fire, and State Lands

Candice Hasenyager

Director, Utah Division of Water Resources

Brian Steed

Director, Janet Quinney Lawson Institute for Land, Water, & Air

Bart Forsyth

Director, Jordan Valley Water Conservancy District

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CHALLENGES & SOLUTIONS

FIRESIDE CHAT



For years, our strategy to address a receding Great Salt Lake has been to hope for water levels to rise. We are now at a crisis point, and if we want to find a solution, hope can no longer be our strategy—we must explore every option to get more water to the lake than ever before.

Speaker Brad Wilson

Utah House of Representatives

Director Joel Ferry

Department of Natural Resources

Representative Tim Hawkes

Utah State Legislature

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FEDERAL EFFORTS

PANEL DISCUSSION



Over the past year, Utah's Congressmen and Senators have put the Great Salt Lake in the national spotlight. We will rely on their collaboration to bring additional funding, support, and new ideas to Utah. The lake impacts more than just Utah – it plays a critical role in the West.

Moderator: Speaker Brad Wilson
Utah House of Representatives

Congressman Blake Moore
United States House of Representatives

Senator Mike Lee
United States Senate

Senator John Barrasso
United States Senate

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WHAT'S NEXT?

SPECIAL ANNOUNCEMENT



"As we have worked to address challenges in the Great Salt Lake over the last year, I have begun to see the Lake as a symbol of a broader, systematic problem with the way we manage our water in the state. If there is one thing I have learned as part of this process — and I hope is clear to you from this Summit — it is that when it comes to water, we are all interconnected."

—Speaker Brad Wilson

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EVENT PRESENTERS

BIOGRAPHIES



Speaker Brad Wilson

Speaker of the House

Utah House of Representatives

Brad Wilson has represented Utah's 15th House District for over a decade and currently serves as Speaker of the House, a position he has held since 2019. During his service in the Legislature, he has championed policies to make Utah one of the strongest, best managed, and most business-friendly states in the nation. Known for his pragmatic and conservative approach, Speaker Wilson has led the House of Representatives as Utah cut taxes, modernized education to prepare students for prosperous futures, and made generational investments to maintain a high quality of life for the people of our state. As Utah has faced prolonged drought, Speaker Wilson has championed the effort to protect Utah's natural infrastructure by preserving and restoring the Great Salt Lake. Under his leadership, the House has advanced policies to conserve, preserve and optimize Utah's water supply. After graduating from Weber State University with a degree in business, Wilson started his career in the finance industry. For the last 20 years he has worked in real estate as a commercial developer and home builder.

William Anderegg

Director

Wilkes Center for Climate Science and Policy

William Anderegg received his bachelors and Ph.D. from Stanford University and was a NOAA Climate & Global Change Postdoctoral Fellow at Princeton University. He is the Director of the Wilkes Center for Climate Science and Policy and an Associate Professor in the School of Biological Sciences at the University of Utah. His research

enters around the intersection of ecosystems and climate change. In particular, Anderegg strives to understand the future of Earth's forests in a changing climate. Massive mortality events of many tree species in the last decade prompt concerns that drought, insects, and wildfire may devastate forests in the coming decades. He studies how drought and climate change affect forest ecosystems, including tree physiology, species interactions, carbon cycling, and biosphere-atmosphere feedbacks. This research spans a broad array of spatial scales from xylem cells to ecosystems and seeks to gain a better mechanistic understanding of how climate change will affect forests around the world.



Jamie Barnes

Director

Utah Division of Forestry, Fire, and State Lands



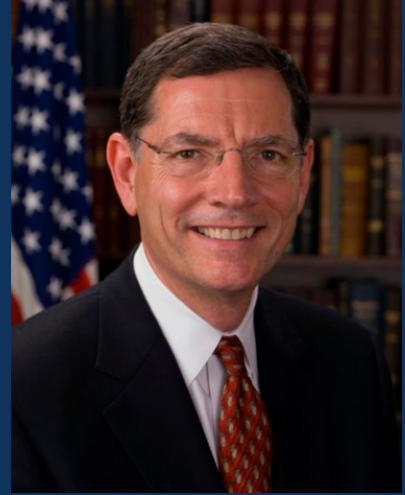
Jamie Barnes serves as the Utah State Forester and Director of the Utah Division of Forestry, Fire and State Lands. The Division administers numerous forestry programs, is responsible for wildfire management on state and private lands, and oversees Utah's state sovereign lands. Prior to her appointment as State Forester and the division's director in August 2021, Jamie managed the division's sovereign lands program. Jamie has a diverse background working with state, local, and federal government and a variety of stakeholders to forge collaborative solutions to policy challenges. She began her career in the legal system, working in the private law sector. There, she gained experience and knowledge in criminal and civil law. She started with the Division in 2011 as a paralegal, focusing on complex legal issues. Jamie holds a master's of natural resource degree from the University of Idaho with an undergraduate degree in criminal justice from Weber State University.

John Barrasso

Senator for the State of Wyoming

United States Senate

Senator John Barrasso was sworn in to the United States Senate in 2007 having represented the people of Natrona County in the Wyoming State Senate from 2003-2007. In November 2018, Barrasso was reelected to the U.S. Senate with more than 67% of the vote. He is the third-ranking member in the Senate Republican leadership as Chairman of the Senate Republican Conference. He serves on committees that directly impact Wyoming's economy, energy interests, public lands, national parks and trade. In addition to other committee assignments, Barrasso is the ranking member of the Senate Energy and Natural Resources Committee. Senator Barrasso is known by many as Wyoming's Doctor. During his 24 years as an orthopedic surgeon, Barrasso served as President of the Wyoming Medical Society and was named Wyoming Physician of the Year. Barrasso has three children – Peter, Emma and Hadley. He and his wife Bobbi live in Casper.



Clay Carter

Engineer & Farmer

Clay Carter was born on a small family farm in Northern Utah. He was college educated at Utah State University and Virginia Tech in Mechanical Engineering. In 1996, Clay started SAE, an industrial automation company. SAE has designed, built and installed hundreds of automated production lines including thousands of machines for companies located around the world. SAE has solved many real-world problems with creative solutions for 25 years. Applying current technology to persistent problems and making life better are life-long goals.

Joel Ferry

Executive Director

Utah Department of Natural Resources

Joel Ferry was appointed DNR executive director in June 2022 by Gov. Spencer J. Cox. He leads an agency of about 1,400 employees from eight divisions and two offices, including Forestry, Fire and State Lands; Oil, Gas and Mining; State Parks; Outdoor Recreation; Utah Geological Survey; Water Resources; Water Rights; Wildlife Resources, the Office of Energy Development and the Public Lands Policy Coordinating Office. Ferry's passion for water policy, land conservation and agriculture will serve him well as he works to manage and protect Utah's natural resources. He is a 5th generation farmer who operates a ranch, farm, feedlot and hunting properties in Corinne. Ferry formerly worked for Zion's Bank. He has a track record of public service, including serving as a legislator, chairman of the Box Elder County Republican Party, Box Elder Farm Bureau Board member, chairman of the Willard Peak Chapter of Delta Waterfowl, board member of the Friends of the Bear River Bird Refuge, and member of the Northern Region Advisory Council for the Division of Wildlife Resources. Ferry holds a bachelor's degree in Economics and Finance from Utah State University. He and his wife Becca are raising their five children on their farm. They enjoy hunting, camping and traveling together.



Tage Flint

General Manager

Crescent F, L.L.C.

Tage Flint is the General Manager of Crescent F, L.L.C., managing natural resource holdings and providing public policy advisement. He has worked in the water supply industry for over 35 years and just recently retired from managing Weber Basin Water District, one of Utah's largest water authorities. Mr. Flint has extensive experience in irrigation and municipal water conveyance, major dam and reservoir operations, water rights management, federal water project operations, and hydro-power generation. He continues to advise on employee-management interaction, governmental affairs, and routinely interacts with congressional delegations in Washington DC. Mr. Flint remains active in his community and industry by serving on boards and committees. Most notably, he has served on the international board of American Water Works Association, Commissioner on the Utah Water Development Commission and member of the Utah Water Task Force. He served on the Salt Lake and Davis chambers of commerce boards of governors, Utah Water Users Association board, and co-chaired the Governor's State Water Advisory Team. Mr. Flint is the recipient of lifetime service awards from National Water Resources Association, American Water Works Association, and American Water Resources Association.

Bart Forsyth

Director

Jordan Valley Water Conservancy

Mr. Forsyth is the General Manager and CEO of Jordan Valley Water Conservancy District (JVWCD). He earned a Bachelor of Science in Civil Engineering from the University of Utah and is a licensed Professional Engineer in the state of Utah. In May 1985, Mr. Forsyth was hired by JVWCD as a Staff Engineer. During his tenure in the Engineering Department, Mr. Forsyth held the positions of Staff Engineer, Senior Staff Engineer, and Engineering Department Manager.

He designed and managed more than 350 engineering projects including large diameter water transmission pipelines, pump stations, and underground wells. In 2001, Mr. Forsyth was promoted to Assistant General Manager. His responsibilities included supervising and managing JVWCD operations, communications, water conservation initiatives and efforts, and water supply resources. Mr. Forsyth has been instrumental in establishing the District as a recognized leader in water conservation and has become one of the foremost water conservation policy experts in the state of Utah.



Mitch Hancock

Dairy Farmer

Mitch Hancock grew up in Northern Utah. He attended Utah State University where he obtained a degree in Civil Engineering. While at USU, he met his wife, Holly. They now reside in Corinne Utah. As students at USU, Mitch and Holly began their own business in an effort to support his education as a General Contractor. They also began raising their family of 5 children. In 2011, they had the opportunity to help on his wife's family farm in Corinne. Mitch chose to give up his career as a Civil Engineer and a Contractor to

the family farm. They became partners in the family farm in 2011, managing a dairy operation of 3,000 cows over several locations in Corinne. They became sole owners and operators of 2500 acres of wheat, alfalfa, and corn ground in 2014, after the passing of Mitch's father-in-law. Together, he and his wife have raised 5 children, and they continue to work closely as a family farm. They employ many close neighbors, friends, and several family members, working in several construction companies as well as the family farm and dairy. He is currently serving on the board for the Bear River Canal company as well as the sustainability board for Dairy West, representing Utah and Idaho in sustainability efforts in agriculture.

Candice Hasenyager

Director

Utah Division of Water Resources

Candice Hasenyager was appointed as the director of the Utah Division of Water Resources in August 2021. Hasenyager started her career with Water Resources in 2007 after graduating from the University of Utah with both a bachelor's degree and a master's degree in civil engineering. She served as the division's deputy director since January 2020. Before being promoted to deputy director, she was the assistant director since 2018. Throughout her

Hasenyager has worked on various projects that support the division's mission to "plan, conserve, develop and protect Utah's water resources." As deputy director, she has overseen the Planning and Development branch, Water Conservation and Education section, and served as the division's legislative liaison. During her career, she has been involved in surface water modeling, hydrology studies and municipal water demand projections.



Tim Hawkes

Representative

Utah House of Representatives

Rep. Tim Hawkes holds an undergraduate degree in Political Science from BYU and a law degree from Columbia University. After law school, he clerked for a federal district judge in Baltimore, Maryland, and then went to work at Sidley Austin in Washington, D.C, and Tokyo, Japan where he practiced general corporate litigation and appellate constitutional law. In 2004, he left the big city to return to

Utah to take a job with Trout Unlimited doing water law and policy so he could spend more time outdoors and with his family. He now works as General Counsel for the Great Salt Lake Brine Shrimp Cooperative. First elected to the Utah House of Representatives in 2014, he currently serves on the House Business and Labor Committee, the House Natural Resources Committee, and in appointed leadership as Chair of the House Rules Committee. Tim has played, and continues to play, an important role in many water-related bills at the legislature. In his all-too-scarce free time, Tim enjoys a wide range of hobbies, including writing, photography, cooking, hiking, canyoneering, and fly fishing.

Mike Lee

Senator for the State of Utah United States Senate

Elected in 2010 as Utah's 16th Senator, Mike Lee has spent his career defending the fundamental liberties of all Americans and advocating for America's founding constitutional principles. Lee graduated from Brigham Young University with a degree in Political Science, and served as BYU's Student Body President in his senior year. He graduated from BYU's Law School in 1997 and went on to serve as law clerk to Judge Dee Benson of the U.S. District Court for the District of Utah, and then with future Supreme Court Justice Judge Samuel A. Alito, Jr. on the U.S. Court of Appeals for the Third Circuit. Throughout his career, Lee earned a reputation as an outstanding practitioner of the law based on his sound judgment, abilities in the courtroom, and thorough understanding of the Constitution. Senator Lee serves as the Ranking Republican on the Judiciary Subcommittee on Antitrust, Competition Policy, and Consumer Rights, and on the Energy and Natural Resources Subcommittee on Public Lands, Forests, and Mining. In addition, Senator Lee continues to lead Republicans on the Joint Economic Committee as the Ranking Member, after spending the last two Congresses as Vice Chairman and Chairman, respectively. He also serves on the Senate Commerce Committee and the Senate's Special Committee on Aging.



Blake Moore

Representative for Utah District 1 US House of Representatives

A native of Ogden, Blake Moore is a proactive problem solver committed to representing each and every constituent of Utah's First District. He is dedicated to reflecting Utah's values in Congress and finding solutions to the challenges facing the district and the state. Advocating for inclusive, pro-growth, and aspirational principles, Blake is amplifying Northern Utah's voice on a national level to ensure Utahns receive the service and representation they deserve. Before being elected to Congress, Blake worked for small businesses and in the foreign service, experiences that now guide his work on domestic and foreign policy. As a Principal at Cicero Group, Blake worked primarily in the social impact, marketing research, and strategy practice areas leading projects and serving clients throughout Utah and the nation. He has expertise in education, financial services, public policy, healthcare, transportation, supply chain, and waste industries, and this work informs his customer service and problem solver approach in Washington, D.C., as he identifies ways to help the federal government better work for Northern Utah. His passion for helping organizations manage the change process drives his ambition to overcome partisan gridlock, improve federal agencies, and smartly streamline the nation's bureaucracy.

Scott W. Paxman

General Manager/CEO

Weber Basin Water Conservancy District

Scott Paxman is the General Manager/CEO of the Weber Basin Water Conservancy District. He has worked in the water industry for over 37 years and with the District for 32 years. His career consists of years in engineering design and project management of water works facilities such as water treatment plants, pipelines, canals, dams, and storage tanks. As General Manager/CEO of the District, Mr. Paxman administers the operations, maintenance, repair and replacement of irrigation and municipal water facilities in five Utah counties. As sponsor of the federal Weber Basin Project, Weber Basin manages seven major dams and reservoirs, three hydro-power generation plants, and hundreds of miles of canals, pipelines, and aqueducts in northern Utah. Mr. Paxman continues to be active in the water industry as well as in the community. He is serving on several irrigation boards and committees and is the past Chair of the Davis Chamber of Commerce Legislative Affairs committee. He is a former National Director of the American Water Works Association and is currently very involved locally with that association. Mr. Paxman is a Registered Professional Civil Engineer with degrees in Civil and Environmental Engineering from Brigham Young University and Utah State University.



Joy Petro

Mayor

Layton, UT

Joy Petro has lived in Layton most of her life. She believes it is important to preserve Layton's rich and diverse heritage, its farming roots, while balancing the future needs of the community. Joy lives in the Gentile Street historical home she restored, receiving the State of Utah Excellence in Preservation award. She has served as the Mayor of Layton City since January 6, 2020. Prior to that, she was a Layton City Council member. Joy is a board member of the Layton Rotary Club, Open Doors, Intermountain Hospital, and Davis County Health Department. Currently she is the chair for North Davis Sewer District and vice chair for both the WFRS Active Transportation Committee and Wasatch Integrated Waste Management. She graduated from Layton High in 1979 and attended college at Weber State University. She was employed with Smith's for 16 years as an advertising director for the southwest region. She was also a sales executive for 17 years with Quadgraphics. She enjoys talking and meeting with the residents of Layton and was the recipient of the Ronald Reagan Community Award and volunteers' numerous hours a year.

Tony Richards

Soil Health Program Manager

Utah Department of Agriculture

Tony Richards is a native of Northern Utah and the fifth generation on the family's centennial farm. He has a bachelor's and master's degree from Utah State University in Crop Science / Agronomy and Plant Science. He has worked with the local conservation districts in Northern Utah assisting local conservation districts and farmers in planning conservation projects to protect the natural resources in the area. His work included irrigation system improvements, soil health systems, weed and pest management, and water quality protection. He has been involved in agriculture development, conservation planning, and regenerative agriculture research for over 12 years working in Utah, Arizona, Illinois, Ethiopia, and Uganda. He has worked previously for the Howard G Buffett Foundation, Sequoia Farm Foundation, Morrell Agro Industries, and is currently a board member of A.R.I.S.E. International. He is a founding member of the Utah Soil Health Partnership www.utahsoilhealth.org



Mitt Romney

Senator for the State of Utah

United States Senate

Mitt Romney was sworn in as Utah's newest Senator in January 2019. He currently serves on the Foreign Relations; Health, Education, Labor & Pensions; Homeland Security & Government Affairs; and Budget committees. On the Foreign Relations Committee, Senator Romney serves as Ranking Member of the Subcommittee on East Asia, the Pacific, and International Cybersecurity Policy. He is also a member of the Senate National Security Working Group. In 2021, he was honored with the JFK Library's Profile in Courage Award for his consistent defense of the fundamental principles of democratic governance. Prior to serving in the Senate, Romney served as Governor of Massachusetts from 2003 to 2007. He also led the 2002 Salt Lake Organizing Committee for the Winter Olympics and, with a team of volunteers and managers, helped turn the struggling Games into a Utah success story. He was a candidate for the 2008 Republican presidential nomination and Republican nominee for president in 2012. Before entering public service, Romney led a successful business career as the co-founder of Bain Capital, a leading investment company, and the turnaround CEO of Bain & Company, an international management consulting firm. Romney earned his bachelor's degree from Brigham Young University and his JD/MBA from Harvard University. He has been the devoted husband to wife Ann for more than 50 years. They are the proud parents of five sons, grandparents to 25 grandchildren, and great-grandparents to one great-grandchild.

Brian Steed

Executive Director

Janet Quinney Lawson Institute for
Land, Water, & Air

Brian Steed is the Executive Director of the Janet Quinney Lawson Institute for Land, Water and Air at Utah State University. Before taking that post, he served as the Executive Director of the Utah Department of Natural Resources from 2019 to 2022. Before that, he worked in Washington, D.C., as the Bureau of Land Management's deputy director for policy and programs, exercising the authority of the director from 2017-2019 and as chief of staff to Utah Congressman Chris Stewart from 2013-17. Steed has also served as the deputy county attorney for Iron County and taught political science and economics at USU. A native of Logan, Utah, Steed attended USU, where he earned both a BA and MA in political science. He also holds a Juris Doctor and a Certificate in Natural Resources and Environmental Law from S.J. Quinney College of Law at the University of Utah, and a Ph.D. in public policy with an emphasis in environmental policy from Indiana University Bloomington. He currently lives in Logan where he enjoys all things outdoors with his wife and three children.



Teresa Wilhelmsen

State Engineer and Water
Rights Director

Teresa Wilhelmsen was appointed in 2020 as the State Engineer. She is responsible for the general administrative supervision of the waters of the state and the measurement, appropriation, apportionment, and distribution of those waters. Wilhelmsen joined the Division of Water Rights in 1997 and most recently served as an assistant state engineer and the division's hearing officer. Prior to that, she served as a regional engineer at the Utah Lake and Jordan River Regional Office, and as the division's adjudication program manager. Before joining the division, Wilhelmsen worked for the School and Institutional Trust Lands Administration and Utah Division of Forestry. She is a professional engineer and graduated from the University of Utah with a bachelor's degree in civil engineering.

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NOTES



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2022

SPECIAL THANKS TO OUR SPONSORS!



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Clark and Christine

IVORY FOUNDATION



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Have ideas on how to preserve the Great Salt Lake or
conserve Utah's water resources? Scan the QR code!