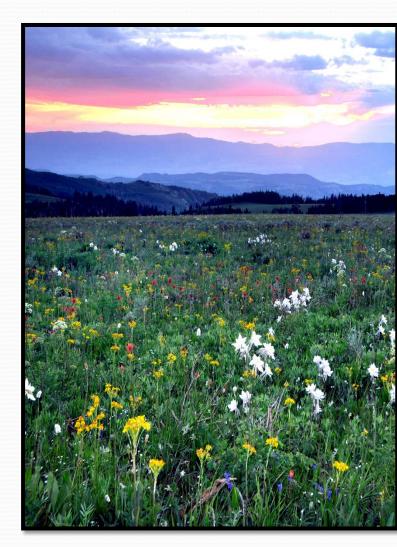


UTAH's WATERSHED RESTORATION INITIATIVE

Tyler Thompson
Watershed Program Director
Utah Department of Natural Resources
watershed.utah.gov

What is WRI?

- A partnership driven effort to improve high priority watersheds in Utah
- What ecosystem values do we focus on improving?
 - Watershed health and biological diversity
 - Water quality and yield
 - Opportunities for sustainable uses of natural resources

















- Founded in 1993, reconvened in 2003 to address drought/state-wide sagebrush die-off
- Top leaders (Director's Council) of thirteen major federal and state agencies, universities, and NGO
- WRI is a UPCD-sponsored initiative



















Why was WRI Created?

- Address "Threats" to Watersheds/Wildlife
 - Out of balance ecosystems
 - Pinyon-Juniper over abundance
 - Aspen decline due to conifer encroachment
 - Inappropriate Fire Frequency and Intensity
 - Decline of Healthy Stream/Riparian areas
 - Invasive Non-Native Species





Where Does WRI Work?

Conservation Focus Areas

- Conservation focus areas must meet one or more of the following criteria:
 - Areas identified for conservation or restoration in planning documents
 - Areas with high biodiversity or the potential for high biodiversity
 - Areas focusing on at risk wildlife species
 - Areas where conservation or restoration action is necessary to meet the long-term goals and objectives in a resource management plan

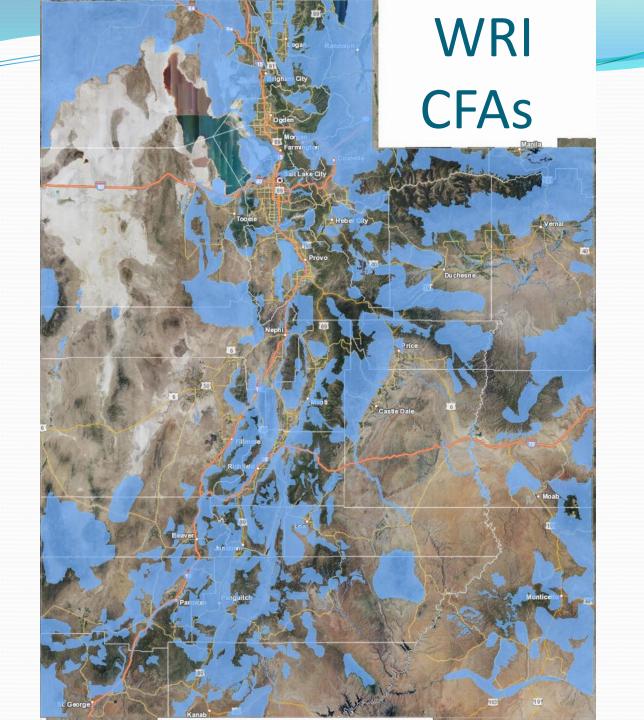


Where Does WRI Work?

Conservation Focus Areas

- Conservation focus areas must meet <u>all</u> of the following criteria:
 - Watershed values are currently impacted or under threat (as identified in resource plan documents).
 - There is a high probability that the watershed health can be successfully restored or that threats can be reduced at a reasonable cost over time.
 - The area has the potential to sustain species diversity and WRI values over the long term.







Scofield Dixie Harrow 2008

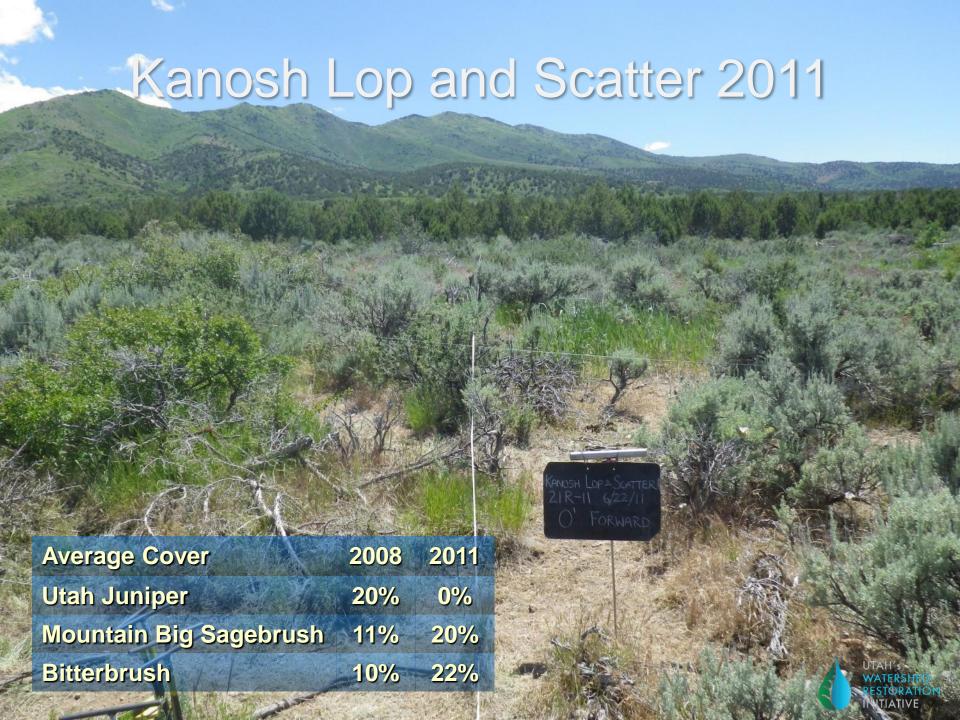






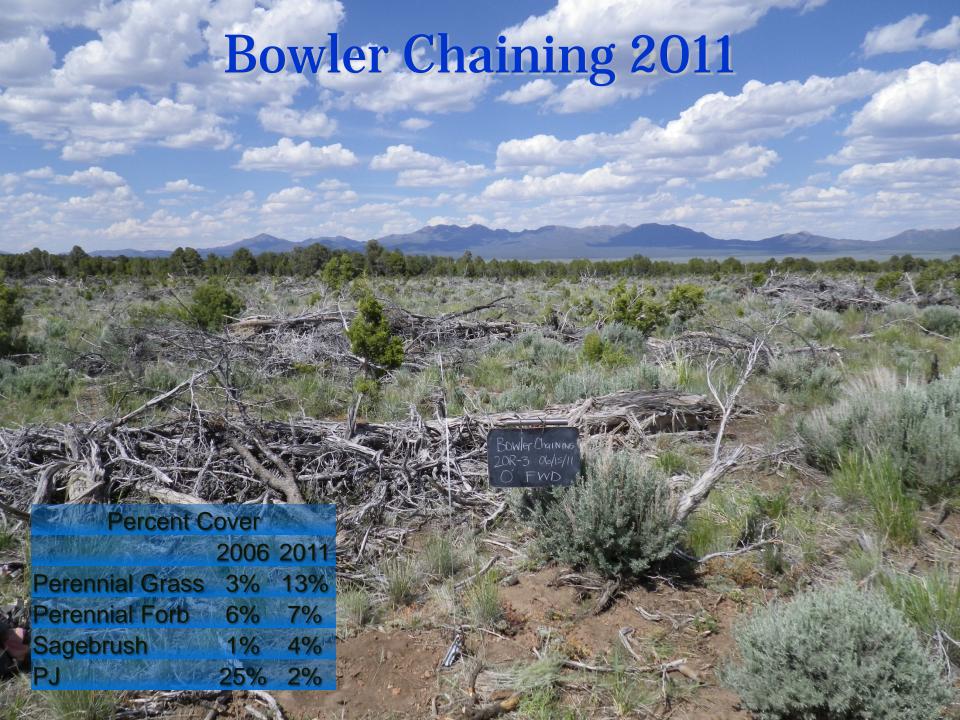


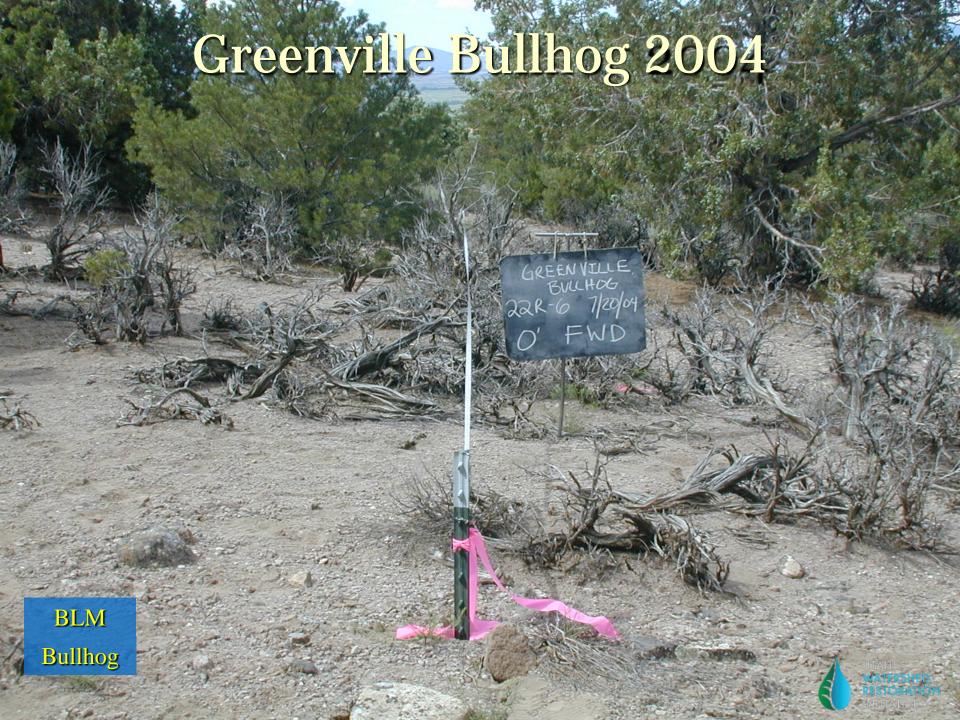








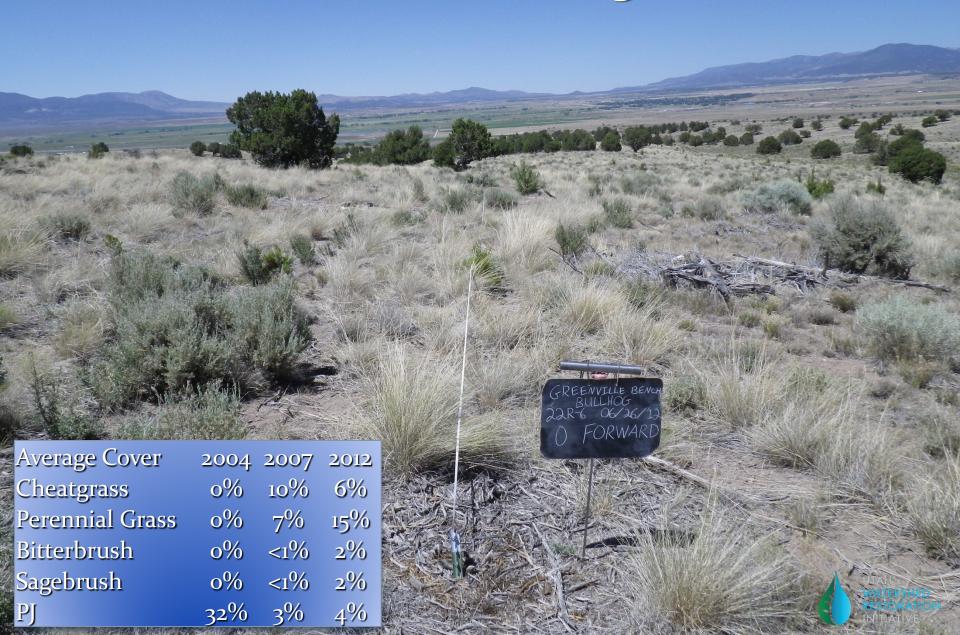








Greenville Bullhog 2012









Horse Hollow Rx Pile/Burn 2018



Monroe Mountain Rx Burn 2018





What makes WRI Successful?

- State-led Partnership
 - Broad partnership over 500 unique sources over 12 years
 - Centralize funding DNR
 - Bulk seed purchasing/mixing
 - Cross-boundary projects
 - Assistance with NEPA & cultural resource clearances
 - Empower regional teams





Partnership Benefits

- Locally-led regional teams
- Matching dollars 5:1 average
- Assistance in project planning & management
- Contracting & accounting
- NEPA and cultural resource survey assistance
- Seed-purchasing, storage, mixing, delivery
- Equipment, including delivery and setup
- Project monitoring & reporting
- Ability to work on a landscape scale across boundaries
- Project database/web application (Business System)



WRI Supporting Infrastructure



August 31st
Completion
Reports
Due

First Friday in January Proposals Due (for following FY)



Jan-Feb
Proposal Review
by Regional
Teams

Late Summer Fire Rehab Projects approved/funded

Funding Cycle

March 1st

Project Rankings by Regional Teams Due

JULY 1st through following JUNE

Funds available, Projects implemented

MayFunded Project
List Distributed
by WRI Admin.

March-April-May Project Funding

- DNR
- HC
- BLM Sportsmen
- FFSL ICP
- •USFS ESMF
- BRFAC Mitigation

ETC.



Current WRI Funding Sources

- BLM Sources
 - HLI, Fuels, Sage-grouse, RL, FIAT, etc.
- State Sources
 - WRI Backbone funding
 - WRI NEPA Funding
 - WRI Pre-Suppression funds
 - Pitman Roberson Federal aid requires 75/25 match, NEPA
 - Habitat Council Funds
 - Supplemental Fire Rehab funds
 - ESMF, ISM, Blue-Ribbon Council, SITLA, etc.
- Other Sources
 - Sportsman funds ECP, ICP, Expo
 - USFS regional forest funds
 - Mitigation funds Oil and Gas development
 - NRCS RCPP, EQIP, SGI, etc.



WRI Water Development Fund

- New forage underutilized due to lack of water
- 2018 WRI received \$2 million one-time funding to develop water for livestock
- Over 120 proposals submitted requesting over \$7 million
- WRI was able to fund 40 of these proposals
- Preference given to projects that:
 - Had secured water rights/clear public benefit
 - Opened up use of previously unused or underused areas
 - Provided relief for permittees hauling water
 - Improve livestock distribution/timing to help alleviate pressure on sensitive areas









Maps About Us





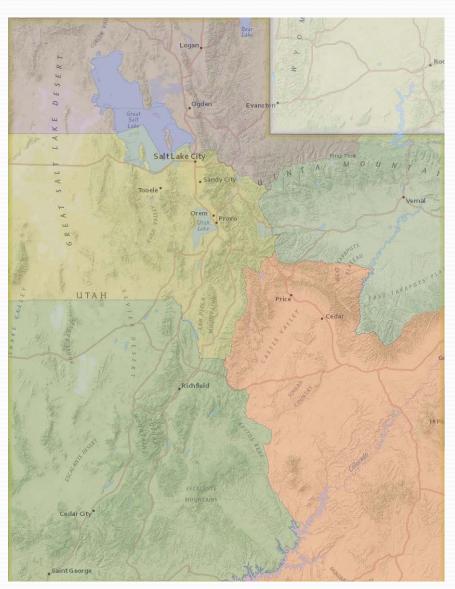






Regional Teams

- 5 Regional Teams in Utah
- Follow UDWR Regional Boundaries
- Each Regional Team operates independently
 - Develops and amends their own team charter
 - Elects their own leadership
 - Reviews and works to improve WRI proposals
 - Annually reviews and amends conservation focus areas
 - Annual field tour and project demonstrations
 - Proposal evaluation and scoring



Regional Team - Project Evaluation

- Policy and Legal Requirements WRI Three Legs, NEPA & Cultural Resources (Yes/No)
- Water Quality and Quantity
- Watershed Health & Biological Diversity
 - High interest game and fish species
 - Species of greatest conservation need
 - Wildlife Action plan threats species and habitats
- Sustainable Uses of Natural Resources
 - Livestock forage,
 - Sustainable timber harvest
 - Recreation





Regional Team - Project Evaluation

- Other Ecological Considerations
 - Fire/Fuels Reduced Risk, Improved Regime Condition
 - Future Management
 - Conservation Focus Areas
 - Ecological Thresholds
- Administrative & Partnership Considerations
 - Partner Inclusion
 - Project Level Monitoring
 - Relation to Management Plans
 - WRI Proposal/Process Improvement



Great Basin Research Center

Seed Warehouse

- Short and Long Term Research/Monitoring
- Plant Materials Development
- Restoration Equipment
 - Free of Charge Use to Utah WRI Projects
 - Maintenance and Repair Costs Included
 - Development of New Technology and Techniques
 - Transport and Setup
- Seed Resources
 - Bulk Ordering and Long Term Storage Reduces Costs
 - Expert Seed Mix Development
 - Custom Mixing, Bagging



Great Basin Research Center

Seed Warehouse

- As of July 2014 GBRC officially part of BLM's regional seed network along with Boise and Ely
- Seed Purchase/Equipment for WRI and ESR projects
- Restoration Equipment
 - Ely and smooth chains
 - Drill seeders both rangeland and Truax
 - Chain harrows
 - Broadcast seeders
 - Dixie harrows
 - Rangeland discs























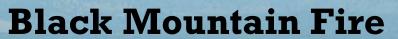




Long-Term Fire/Fuels Management

- Most WRI terrestrial projects reduce the risk of catastrophic fire over the long-term
- Healthy ecosystems are more resistant to fire
 - Fire-prone/invasive species are limited
 - Vegetative diversity limits continuous fuels
- Healthy landscapes are more resilient to fire
 - More natural recovery following fire
 - Lower intensity/smaller size = more positive outcomes following prescribed or natural fires.
 - Fuels treatments provide more opportunity for direct attack on wildfires





- 3 miles southeast of Minersville
- 2002 Maple Springs fire re-seeded with diverse flame resistant seed mix
- Millions of fire suppression dollars saved
- Thousands of acres saved from burning

Watershed Restoration Initiative

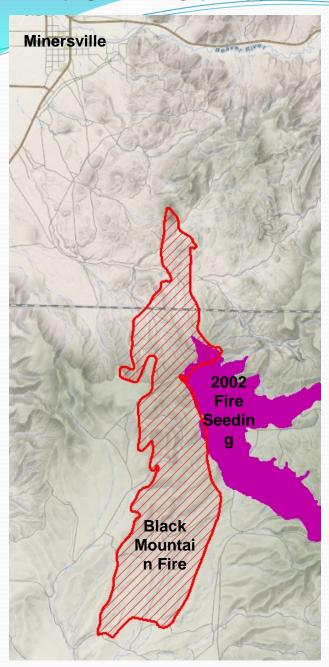
- Post fire seeding
- Saves dollars and habitat
- Helps fight future fires by
 - reducing their size
 - providing fuel breaks
 - giving firefighters a safe place to work

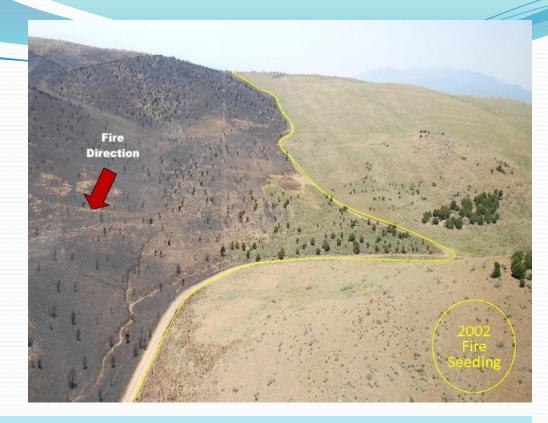
2002 Fire Seeding

Fire Direction



Black Mountain Fire





"The return on the investment from this one wildfire alone potentially saved millions of fire suppression dollars and clearly shows how healthy ecosystems are likely to thrive when post fire rehabilitation efforts are implemented successfully.

Eliminating or reducing funding for these post fire treatments and pro-active hazardous fuels reduction treatments is not good business as evidenced by the photos."

-Paul Briggs, District Fuels Manager





WRI Led Fire Rehabilitation

- WRI helps facilitate state-led centralized/cross-boundary rehabilitation
 - Funding centralization
 - Seed mix development, testing, mixing, storage
 - Cultural resource inventories
 - Contracting across boundaries through State of Utah purchasing
- Properly rehabilitated areas are more resilient re-seeding helps defer future fire costs
 - Lower fire return interval
 - Less invasion from more fire-prone plants
 - More productive/diverse/healthy forage for livestock and wildlife



















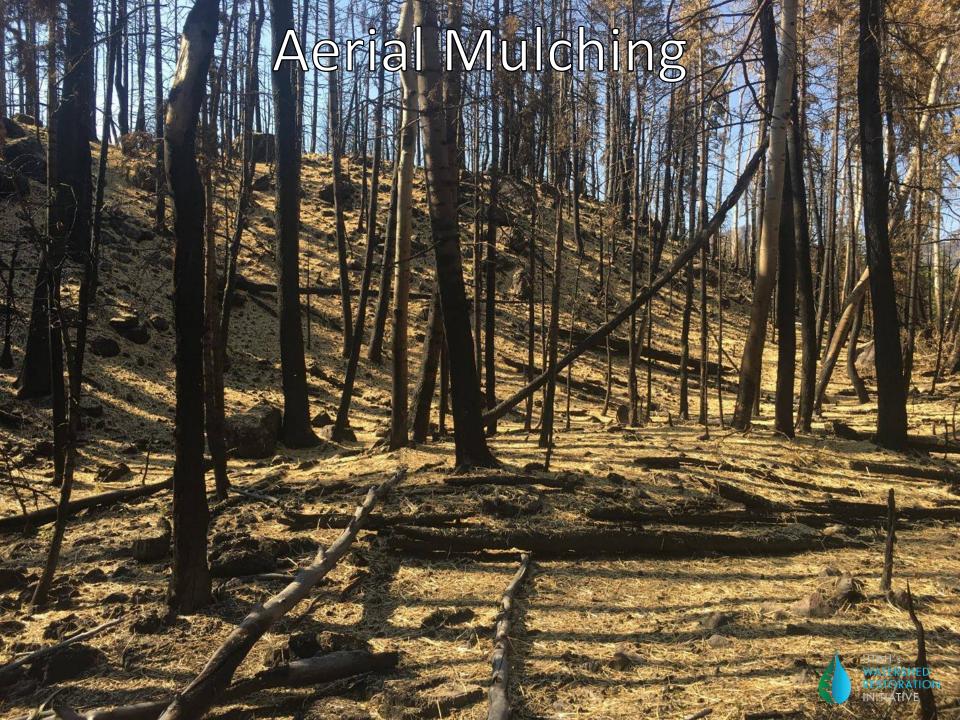










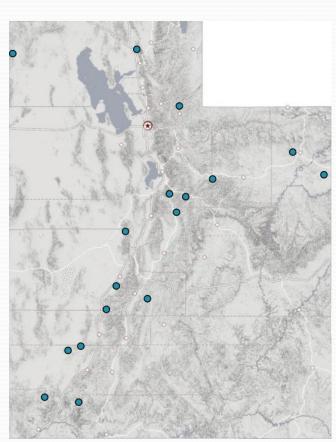




WRI Led Fire Rehabilitation - FY19

17 Fires - 84,000 Acres Treated

- Goose Creek Fire 24,684 acres
- Pole Creek/Bald Mtn. Fire 18,720 acres
- Dollar Ridge Fire 17,713 acres
- Willow Patch Fire 4,583 acres
- Coal Hollow Fire 3,768 acres
- Trail Mountain Fire 3,096 acres
- Black Mountain Fire 2,523 acres
- Wood Canyon Fire 2,021 acres
- Hilltop Fire 1,845 acres
- West Valley Fire 1,792 acres
- Horse Valley Fire 1,131 acres
- Other Fires Cove Creek, Tervels, North, Coldwater, Maeser Highway, Meadow Canyon





WRI Led Fire Rehabilitation - FY19

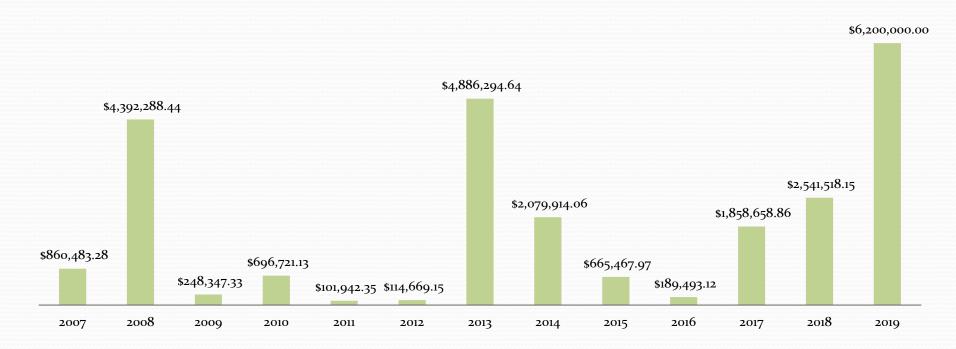
17 Fires - 84,000 Acres Treated

- Statewide Fire Rehab Cost \$11.6
 Million (funds through WRI)
 - \$6.2 Million State Funding
 - \$800,001 SITLA funding
 - \$300,000 Private Landowner In-Kind
 - \$4.3 Million Federal Funding
- 1.1 Million pounds of seed





Fire Rehabilitation Costs -State/NGO/PR Funds Average: \$1.9 Million/Year





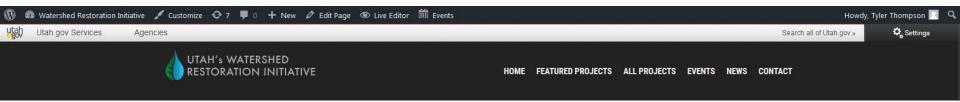
Fire Rehabilitation Fund

\$1 million one-time FY2020 request

- Similar to FFSL fire suppression fund line item
- Removes the need to ask for supplemental funding in fire years with lower burned acres
- Lessens disruption to WRI proactive work
- Easier to fund multi-year fire rehabilitation work and post-fire research/monitoring
- Allows DNR to pre-purchase and warehouse seed when market is more favorable



Information Website - watershed.utah.gov



WHAT IS THE WATERSHED RESTORATION INITIATIVE?



The Watershed Restoration Initiative (WRI) is a partnership based program in Utah to improve high priority watersheds throughout the state. WRI is sponsored by the Utah Partners for Conservation and Development and is in its 11th year. The Watershed Program focuses on three ecosystem values: 1) watershed health and biological diversity, 2) water quality and yield, and 3) opportunities for sustainable uses of natural resources. WRI is a bottom-up initiative where project planning, review, and ranking occur at a local level. Five regional teams elect their own leaders, establish focus areas, review, score and rank project proposals using a comprehensive project prioritization score sheet, and assist their members in implementing projects. See our "Latest News" section for more information.

Tyler Thompson - Director, Watershed Restoration Initiative

Information Website - watershed.utah.gov



HOME FEATURED PROJECTS ALL PROJECTS EVENTS NEWS CONTACT

LATEST NEWS

JOIN US!!!! HELP IMPROVE WATERSHEDS IN UTAH

Apply now for next year's project funding. Proposals are being gathered now and will be due January 9th, 2017. Click the link below to get started. WRI Proposal Page Download [...]

WHAT IS THE WATERSHED RESTORATION INITIATIVE?

The Watershed Restoration Initiative is a partnership based program in Utah to improve high priority watersheds throughout the state. WRI is sponsored by the Utah Partners for Conservation and Development [...]

WRI IN THE NEWS

Take a look at these recent articles announcing this years WRI projects and funding: Deseret News utahpolicy.com Here is a video from the Western Native Trout Initiative about native fish [...]

WATERSHED RESTORATION INITIATIVE LAUNCHES NEW WEBSITE.

On Monday, December 7 the Watershed Restoration Initiative launched a new website, geo-database and project proposal site. The new site took 10 months to develop and will be much easier [...]

PROJECT MANAGERS: REMEMBER TO SUBMIT YOUR COMPLETION REPORTS

For all project managers that have received funding for projects this last fiscal year (FY2016) or had carry over projects funded in previous years please take the time to submit [...]

VIEW ALL NEWS ITEMS

Information Website - watershed.utah.gov



MEN ALL NEWS HOME FEATURED PROJECTS ALL PROJECTS EVENTS NEWS CONTACT

IMPORTANT WRI DOCUMENTS

FY-18 WRI Project Prioritization Score Sheet

Complete List of Threats for Species/Habitat

FY18 WRI List of High Interest Game and Fish Species

How To - GIS Feature Upload Document

Northern Region WRI Team Charter

Northeastern Region WRI Team Charter

Southern Region WRI Team Charter

Southeastern Region WRI Team Charter

Central Region WRI Team Charter

Information Website - watershed.utah.gov



HOME FEATURED PROJECTS ALL PROJECTS EVENTS NEWS CONTACT

February 2017

Central Region FY2018 Project Presentation Meeting

February 7 @ 9:00 am - 1:59 pm

DWR Central Region Office – Conference Room, 1115 North Main Street

Springville, UT 84663 United States + Google Map

WRI's Central Region will hold it's project presentation meeting for all project managers requesting FY2018 WRI funding on February 7th at a location TBD. All project managers requesting funding for...

Find out more »

Southern Region FY2018 Project Presentation Meeting

February 14

Heritage Center, 105 N. 100 E. Cedar City, UT 84720 United States + Google Map

WRI's Southern Region will hold it's project presentation meeting for all project managers requesting FY2018 WRI funding on February 14th at the Heritage Center Conference room in Cedar City. All...

Find out more »

Northeastern Region FY2018 Project Presentation Meeting

February 15 @ 10:00 am - 1:00 pm UDWR Northeast Region Office, 318 N Vernal Avenue Vernal, <u>UT</u> 84078 United States + Google Map

WRI's Northeastern Region will hold it's project presentation meeting on February 15th at the DNR regional office in Vernal. We would like all project managers to come prepared to briefly...

Find out more »

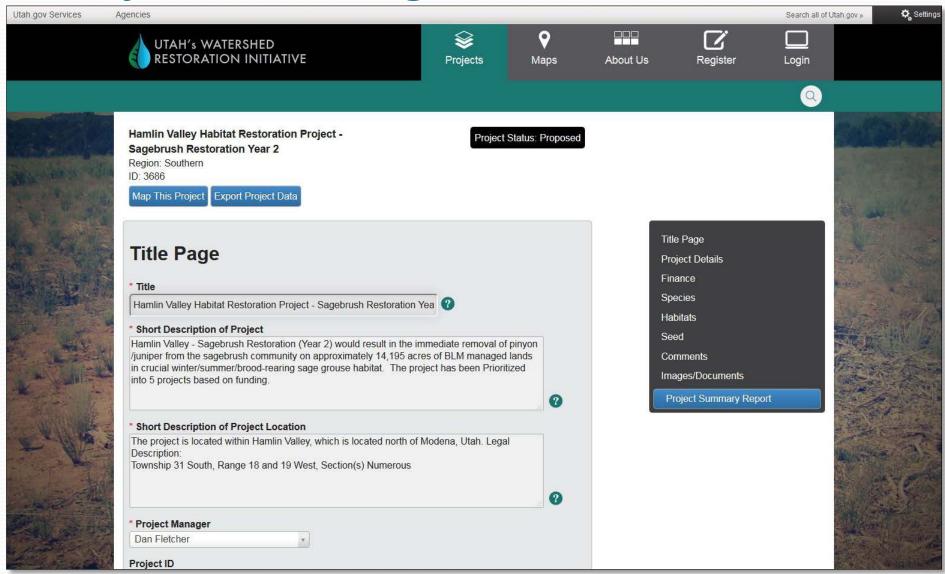
Northern Region FY2018 Project Presentation Meeting

February 6 @ 9:00 am - 1:00 pm

Bear River Migratory Bird Refuge Visitors Center, 2155 W Forest St

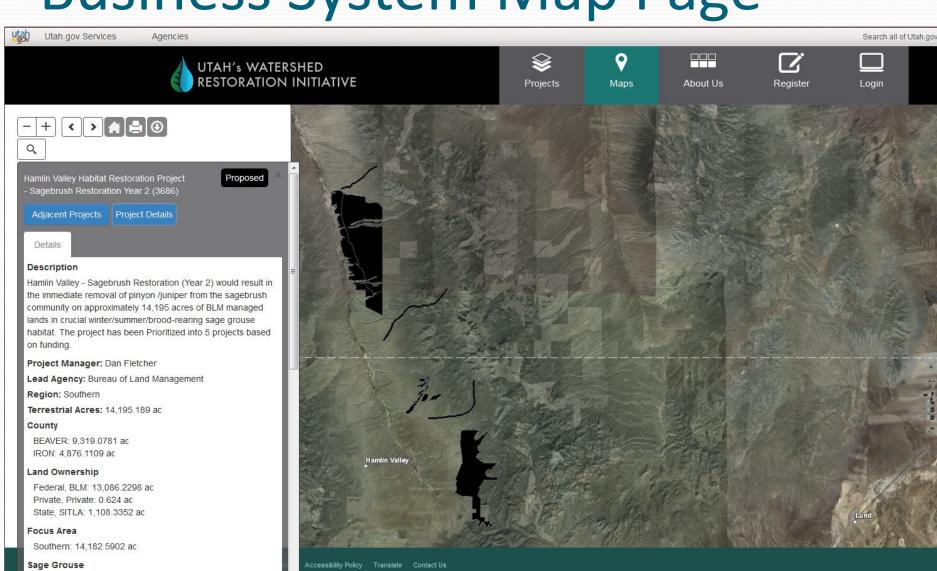
Brigham City, <u>UT</u> 84302 United States + Google Map

Project Tracking Website – wri.utah.gov



Business System Map Page

Hamlin Valley: 14,023.6927 ac



- Started with an Obvious Threat and a Big Idea.
 - Obvious threat Sage-brush die-off, cheat grass invasion and catastrophic wild fire, drought, etc.
 - Big idea (broader than just the immediate threat) restore healthy watersheds for all interests (water quantity & quality, watershed health, livestock/wildlife forage, fire and fuels, benefit all users).
 - Sellable to big audience.



- Leadership Provided at Multiple Levels
 - Endorsed and sponsored at the highest levels UPCD.
 - Local leadership rotating chairs of regional teams are empowered and act.
 - Largest restoration players are involved.
 - Largest partners willing to take risks and compromise.



- History on Our Side
 - Great Basin Research Center since 1940s
 - 60 years of habitat experience in DWR, BLM, USFS
 - Long-term cooperation in range trend monitoring DWR, BLM, USFS, UDAF
 - Range trend data supporting the need for direct action
 - Management and Staff favors "action" over "inaction"



- Bottom-up Hierarchy
 - All real project work done at <u>regional team level</u> write own charter, elect own leaders, establish own focus areas, review and rank own projects
 - Centralize only when it makes sense project database, administration (contracting, accounting support, etc), fundraising, marketing, and training
 - Only broad direction and guidance from top annual schedule, ranking criteria
 - Administration supports local decisions e.g., do not change ranking decisions made by local teams
 - Administration removed roadblocks



- Practice Partnership
 - Easy and safe to participate no secret handshake
 - Open communication database, meetings, field tours
 - Play to partners strengths
 - Credit shared by all "give credit freely", "WE not I"
 - Report and promote accomplishments
 - Come together, provide support when challenged
- Science Based Approach
 - Use best science available
 - Monitoring is emphasized
 - Adaptive management



- Operate at a Scale that Matters
 - Big projects "Go big or go home"
 - Big NEPA, Big funding, Economy of scale
 - Ownership boundaries blurred
 - Reward inclusion of adjacent landowners
- Solution-minded not Problem-minded
 - Analyze problems but quickly get to solutions
 - Move past the "Paralysis of Analysis"



How to get Involved

- Contact Us:
 - Through our two websites: "contact" webform watershed.utah.gov, wri.utah.gov
 - Habitat Managers or Restoration Biologists located in all five Utah Division of Wildlife Regional Offices
 - NRCS Local Offices
 – Farm Bill Biologists
- Join Us:
 - Attend a regional team meeting
 - Participate in project evaluation and ranking
 - Attend a field tour



