

The Cache la Poudre 'Yellow Pages':

An Inventory of Current Work and Knowledge on Watershed
Health in the Cache la Poudre Watershed of Northern Colorado

Produced by:
The Colorado Conservation Exchange
Inventory Project
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September 2014



Acknowledgments

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Overview

The Cache la Poudre and Big Thompson Rivers and their watersheds are the lifeblood of Northern Colorado. Our rural and urban communities alike depend on the natural resources, wildlands, and agricultural areas for quality of life. The Colorado Conservation Exchange (the Exchange) of Northern Colorado was formed in 2010 as a regional, community-led initiative through which we can all support land and water stewards (public or private) who conserve and enhance nature's ability to provide clean and abundant water, healthy food, productive soils, carbon storage, wildlife habitat, and inspiring open spaces. To preserve and enhance our quality of life, we must proactively address the growing threats to our critical natural resources & watershed health, such as regional population booms leading to increased demand for natural resources, climate changes, and impacts to water quality from wildfires, beetle kills, agricultural runoff, and development.

In order to understand what we can do to counter these threats, we must first understand what and where work is already occurring within the watershed. Leveraging work is a great strength of organizations functioning within the watershed. We hope this Inventory helps us to better identify leveraging opportunities, as well as gaps in activities, and knowledge on the landscape where more work could be done to move towards a healthier watershed.

Report Objectives

The purpose of the Inventory Project is to create a public document on the activities conducted and information produced by organizations in the Cache la Poudre (CLP) and Big Thompson (BT) Watersheds. The Inventory focuses on those activities and information that influence or relate to the ecological management and monitoring in both watersheds. This document focuses on the Cache la Poudre Watershed, a separate document covers the Big Thompson and is under construction. We hope that these Inventories will help organizations in these watersheds to share information, collaborate more effectively, and promote stronger work in these watersheds.

The Inventories list providers and beneficiaries of watershed services related to water quality and water quantity in the watersheds to inform the development of the Colorado Conservation Exchange, a voluntary incentive-based approach to conservation.

While we have attempted to capture all of the activities and information in these watersheds, this is by no means a comprehensive reference source. This will be a working document and hence relies on the contributions of everyone working in these watersheds to correct and update the information here.



About the Colorado Conservation Exchange

In the arid West, arguments over water are as common as spines on a cactus. Yet stakeholders in our watersheds--farmers, ranchers, utilities and conservationists-- are also exploring innovative ways to collaborate to enhance this vital natural resource for the benefit of all. Chief among these is the concept of *payment for ecosystem services*.

Ecosystem services are the benefits that we receive from nature. Healthy watersheds, for example, serve us by purifying water, providing fertile land to grow crops and pastures, and offering us opportunities for outdoor recreation and spiritual uplift. Unfortunately, the ecosystems that provide these services are under increasing risk of floods, wildfire, insect infestations, population growth and climate change.

It's tempting to regard nature's benefits as free, but increasingly we recognize that ecosystem services have economic value. Once we know their value, we can invest in those stewards who adopt the kind of best management practices that protect and enhance those services and motivate them do more in our watersheds. No-till cultivation, rotational grazing, erosion prevention, forest fire mitigation, and preventing nutrient runoff are examples of such practices.

Payments for ecosystem services may be thought of as investments in "natural infrastructure." No one thinks it unusual for a utility to invest in new water treatment facilities to keep drinking water pure. But why not invest in upstream practices that will purify water before it reaches the treatment plant? Creating wetlands, vegetating riversides, diverting nutrient runoff and reducing sediment loads has improved water quality at less cost than investing in traditional treatment infrastructure in other parts of the country.

In 2010, a group of individuals from Colorado State University, The Nature Conservancy, Sylvan Dale Guest Ranch and Northern Colorado Food Incubator started dreaming of bringing this concept of payment for ecosystem services to northern Colorado, to better reward landowners and managers for providing us all with healthier watersheds for future generations. After wide consultation with our local partners, The Colorado Conservation Exchange was born. Initially, the Exchange is focusing on investments in best practices that reduce wildfire risk through forestry management and agricultural management that improve water quality in the Cache la Poudre and Big Thompson Rivers.

The Exchange is currently hosted by the Center for Collaborative Conservation at Colorado State University (<http://www.collaborativeconservation.org>). To learn more about the Exchange, visit our website (<http://www.collaborativeconservation.org/colorado-conservation-exchange>) or contact Robin Reid (Robin.Reid@ColoState.edu).

The Exchange Working Group contains individuals from the following organizations: Big Thompson Watershed Forum, Brendle Group, Center for Collaborative Conservation/Colorado State University, City of Fort Collins Utility, City of Greeley Water & Sewer, City of Loveland, Coalition for Poudre River Watershed, Colorado Natural Heritage Program, Community Foundation of Northern Colorado, Larimer County, New Belgium Brewing Company, Northern Colorado Water Conservancy District, The Nature Conservancy Colorado, and Sylvan Dale Guest Ranch.



A First Cut

In this report, 'activity' is defined as, actions conducted in the watershed that relate to environmental health and ecological management. We define 'information' source as, media sources (e.g. reports, databases, recordings) that contain information related to the environmental health or ecological management of the watershed. So far, this Inventory Project captured 109 activities occurring in the two watersheds, including 66 activities exclusively in Poudre, and 43 activities occurring in the Poudre and Big Thompson watersheds. More will be added over time, and especially when the Big Thompson Inventory is completed. Public education (23 activities), monitoring (19 activities), and research (19 activities) were the most common activities. Over fifty different organizations were listed as leading these activities, including cities, non-governmental organizations, federal and state agencies, water conservancy districts, businesses, landowners, private consultants and universities. We also found 39 types of information produced about the Poudre River, including 21 exclusively in the Poudre and 18 in the Poudre and Big-Thompson. Management and planning (11 sources) documents were the most common types of information submitted in the survey.

We recognize that the 109 activities and especially the 39 sources of information do not comprehensively represent the work occurring in the watershed. However, the number and diversity of activities collected does provide us a picture of the types of things occurring in our watershed. The purpose of our work was not to create a static, one-time report. Inventory products, including this report, are intended to be living documents, routinely updated and evolving. We hope that this first installment of the Poudre Inventory will result in more responses and interest, so we can expand our understanding of what is occurring in our own backyard. We will continue to work closely with collaborators in our community to find the best place(s) to house this information for ease of accessibility. This report is a product of our community and stakeholder's articulated needs. As such, we welcome your additions and feedback (contact Robin Reid (Robin.Reid@ColoState.edu)).

This project resulted in three main products:

1. This inventory report, with maps
2. A searchable Excel database of all the activities and information listed in this report
3. An online, searchable and updatable map

These products are available at: <http://www.collaborativeconservation.org/colorado-conservation-exchange>



A Guide to the Inventory

Methodology/Approach, Scope, Data

This first report of the Inventory Project aims to capture the activities conducted and information produced by organizations in the Cache la Poudre watershed of northern Colorado. We deliberately cast a wide net in order to see what kinds of activities and information we could capture on the landscape. This report includes three main sections: 1) Introduction (current section); 2) Activities and 3) Information. Activities and Information are both organized by different groups, or 'types' based on similarities. We created these groupings after getting a sense of the type of data we would collect. The types serve as a way to lump together similar work and information. We present 'Activities' and 'Information' separately since the questions we asked and types we created are different for each.

In order to gather this data a survey (see Appendix A and B) was designed and sent out through community members. We drafted a first version of the survey using ideas and suggestions from the Exchange Working Group, focusing on questions Working Group members wanted answered about their watershed. We focused on asking questions that would provide us a "Yellow Pages" or directory of information—focusing on the activity or information type and purpose, organizations involved, location, and contact details for additional information. We then met with key local stakeholders (from local government, nongovernmental organizations, and university) with relevant survey experience and substantial knowledge of watershed activities and information in the area. These key contacts provided feedback on the survey draft questions. After this first round of revisions and feedback, we presented the revised survey to the Exchange Working Group and Poudre Runs Through It Steering Committee, two groups with diverse membership from various sectors in the watershed. We then revised the survey based on this second round of feedback, and created our final survey version.

We used a snowball sampling method to contact people to participate in the survey, which involves asking key informants with relevant who we should contact about our survey, and continuing to ask this question of our growing contact list to accumulate more responses. Therefore, we conducted our survey by first creating a list of people and organizations that we knew had information about or activities occurring within the watershed. We created this list through local knowledge (e.g., our Working Group members, their organizations and their contacts), and through desk research (document review, web searches). We provided the survey in both Survey Monkey (online) and Excel, and asked those we contacted to please forward the survey to others they thought might have relevant activities or information to provide. We first communicated with our contact list via email, and then followed up with phone calls, additional emails, and announcements in meetings (with key contacts) to remind people about the survey. Some people we contacted did not have relevant data to provide.



We contacted 170 people within 64 different organizations, and received responses from 68 people within 36 of those organizations. Some of the organizations we contacted did not have activities or information related to this project, and therefore did not complete the survey. In most cases, organizations filled out activities and information for their own organization. When an organization other than the primary/lead organization filled out the survey, we have included the name of the organization that completed the survey.

Definition of Terms

In this remainder of this section you will find explanations and definitions for the terms used in this Inventory, which will help you understand the organization of survey results laid out in this report.

Activities: Survey participants were asked to share all relevant activities occurring from January 2012 through the present day that they/their organization conduct. We asked survey participants to select what activity 'type' their activity best fit, or to provide their own suggested type if our categories did not fit their activity. Participants were notified that any current or ongoing research/studies that have an aspect of on-the-ground data collection in the Cache la Poudre watershed should be listed in both "Activities" and "Information" tabs.

Types of activities included the following:

1. **Convener:** Organizations that bring other groups together to form coalitions or collaboratives.
2. **Upland Restoration:** Post-fire, forest restoration (e.g. disease or beetle-kill remediation, restoring wildlife habitat, improving vegetation community structure), invasive weed control, fuels reduction treatments etc.)
3. **Riparian/Stream Restoration:** Post-flood restoration, riparian bank improvements, in-stream habitat/flow restoration, floodplain naturalization etc.
4. **Monitoring:** Water quality, water quantity, or biological resources monitoring independent of other activities (this includes climatological monitoring.)
5. **Land and Soil Conservation:** Practices that affect the waterways. For example: land preservation or soil erosion prevention.
6. **Agricultural Management:** Livestock or crop agricultural practices that have an effect on the waterways or ecosystems that supports these waterways.
7. **Water Supply, Diversion, Storage, and Treatment:** Utilities, irrigation and ditch companies are example groups active in this area.
8. **Water Discharge, Wastewater Treatment, and Stormwater:** Utilities and cities are example groups active in this area.
9. **Research-for-Impact:** Ongoing research that has on-the-ground impacts incorporated into the design of the work.
10. **Public Education:** Education programs into how the Poudre and Big Thompson are managed and used by people.



11. **Public Amenities and Recreation:** Creation of public goods like parks, hiking or biking trails, and water parks etc.
12. **Management Programs and Planning:** Includes groups that have the responsibility to manage land and water areas through diverse actions.

Activity Mapping: We mapped the location of each activity using Google Maps. Some survey respondents provided pin points on our map of their activity location(s), while others we added based on location description information. Some activities, such as water quality monitoring have multiple points within the watershed. Other activities that either occur across the entire watershed, or for which we were not provided location information are represented by a point at their office or headquarters. This report contains: 1) an overview map showing all the mapped points in the watershed, and 2) individual maps of points sorted by activity type.

Information: Survey participants were asked to share all relevant information they/their organization had produced or are producing grouped together by information field or type. We asked survey participants to select what information 'type' their information best fit, or to provide their own suggested type if our categories did not fit their information source.

Types of information included the following:

1. **Reference Hub:** Bibliographies, resource links, or any other information hubs.
2. **Ecology and Limnology:** Ecological and biological information of the watershed area that has effects on the ecology of the waterways
3. **Hydrology, Water Quality, and Water Quantity:** Information related to the physical and abiotic factors of the waterways
4. **Wildfires, Risk Assessments, and Climatology:** Information on fire, fire risk, and climate that is believed to have an impact on the waterways
5. **Forestry:** Information on forestry and their practices that affect the waterways
6. **Management and Planning:** Information on how the rivers and waterways are managed, planning of management, and the organizations involved
7. **History:** Historical information that relates to our understanding of current activities in the waterways
8. **Law, Policy, and Regulations:** Can be at city, county, state, or national level if they are directly applicable to CLP or BT

Still Under Construction

The Inventory Project is still under construction as we create a website 'home' for the data, research and interactive maps, and look for funding for continuing this work. The Exchange and CCC will fund the second portion of this project by completing the same survey and end products for the Big Thompson watershed.

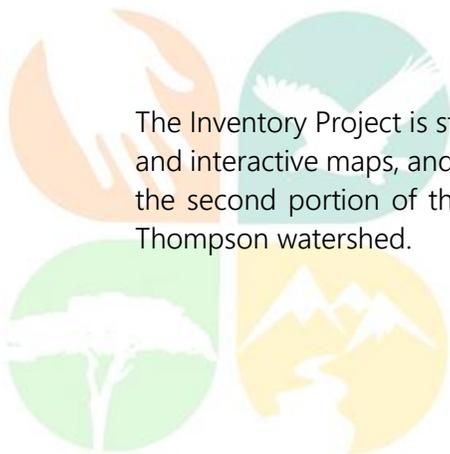
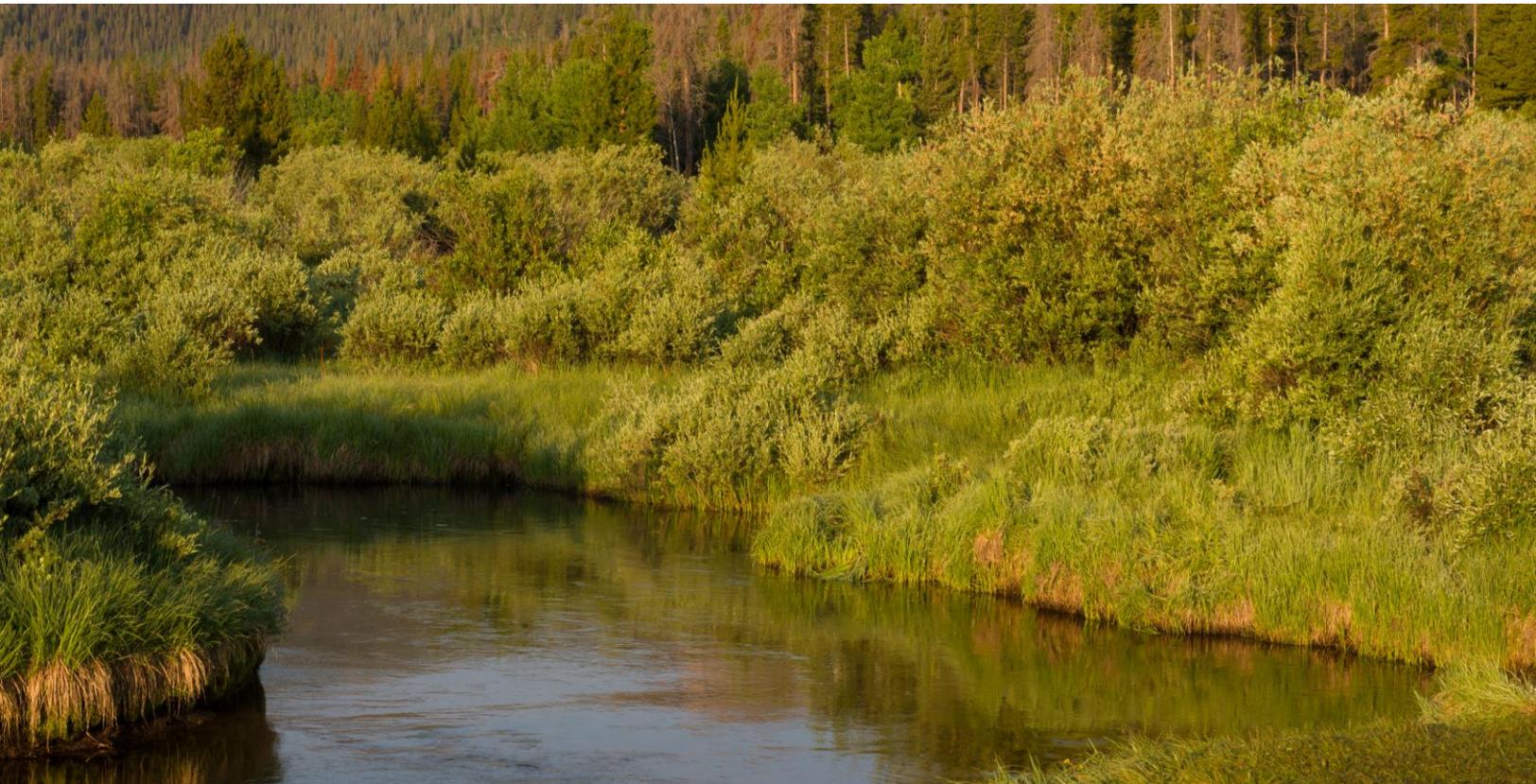


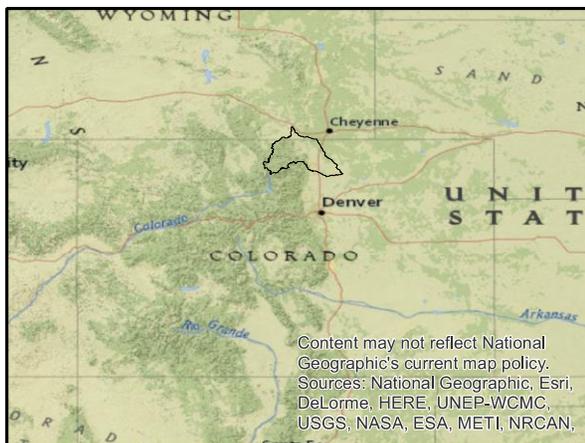
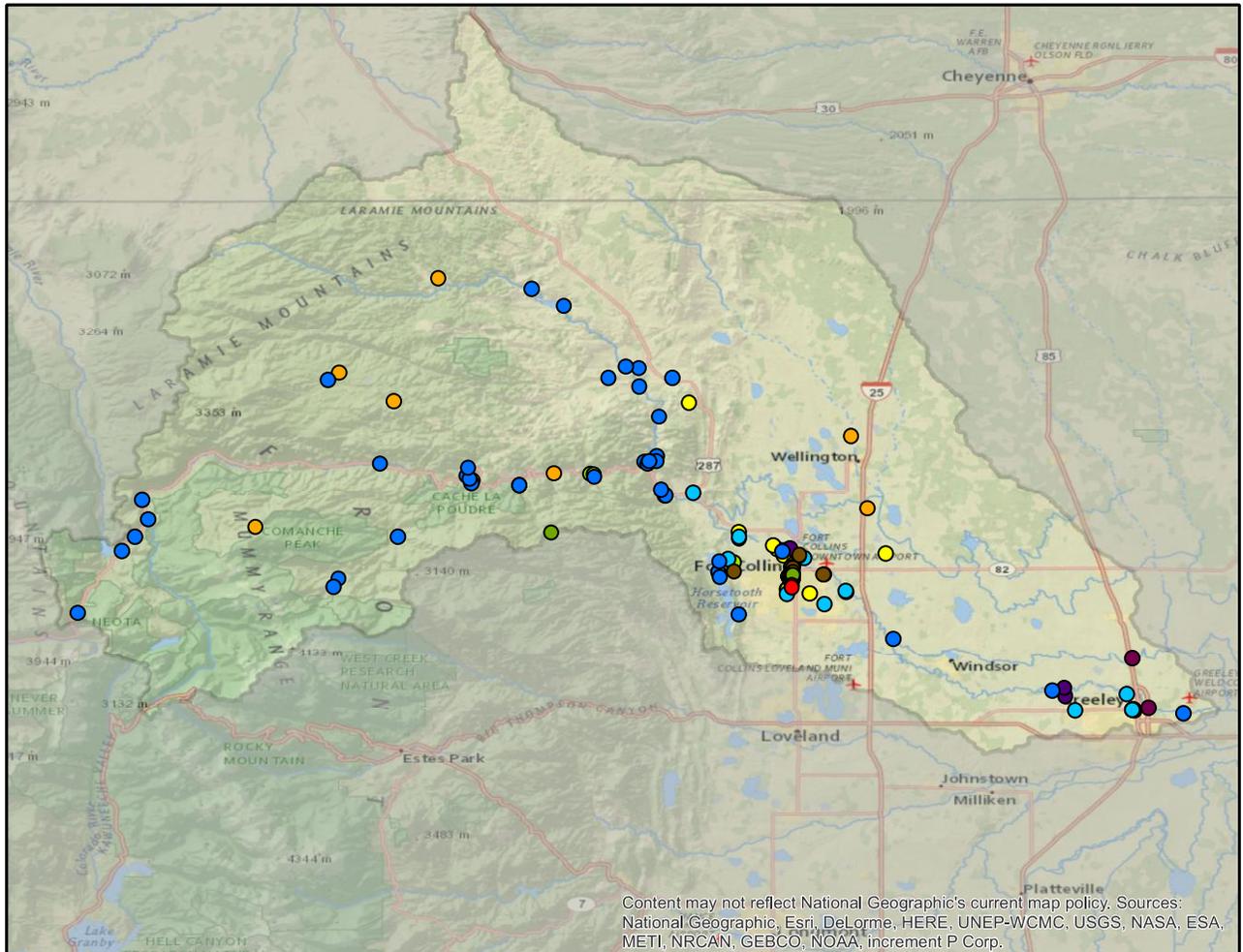
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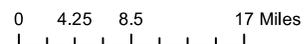
Activity Inventory

Mapping Activities in the Cache la Poudre Watershed

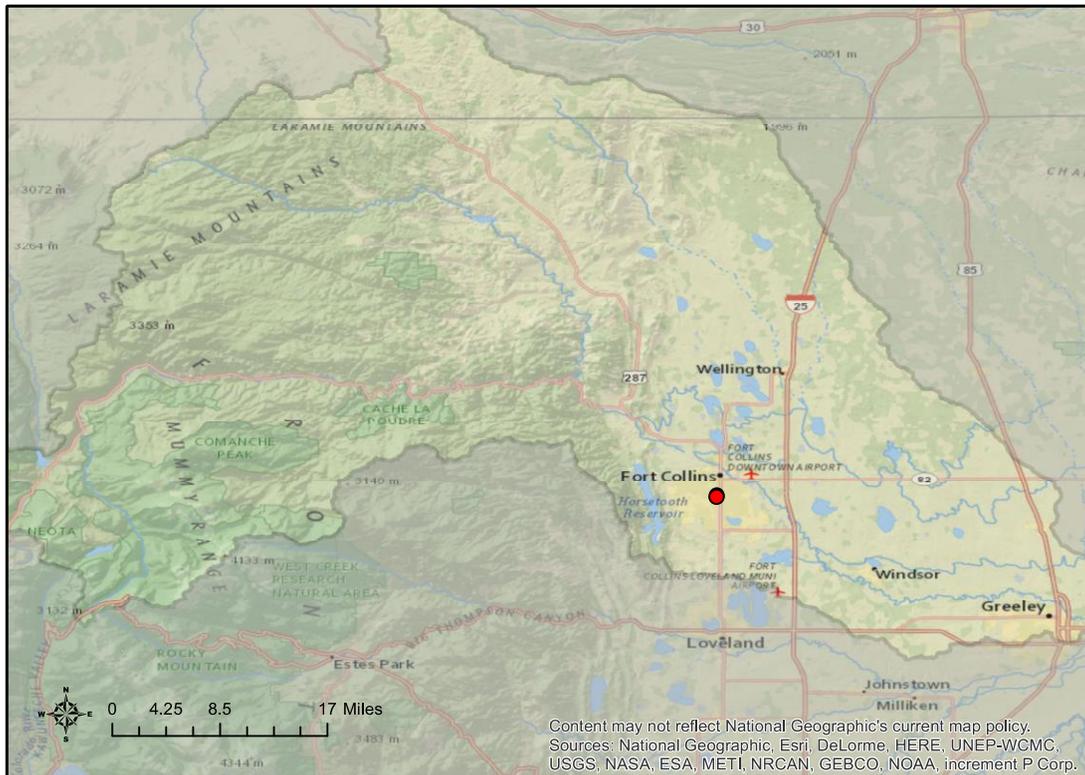


Legend

● Agricultural Management	● Research
● Convenor	● Riparian Stream Restoration
● Management Programs and Planning	● Upland Restoration
● Monitoring	● Water Supply, Diversion, Storage, and Treatment
● Public Amenities and Recreation	 Cache la Poudre Watershed
● Public Education	



Agricultural Management



1. Grazing Management

Description: Grazing management, animal waste management, riparian protection. Includes actions related to Land and Soil Conservation.

Activity Lead: Natural Resources Conservation Service (USDA-NRCS)

Other Participants: Private landowners on their land.

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is FC field office of NRCS

Activity Dates: 1990's – present

Contact:
John Fusaro
john.fusaro@co.usda.gov
970-295-5658
Address:
2150 Centre Ave.
Bldg. A, Suite 116
Fort Collins CO 80526

More Information: <http://efotg.sc.egov.usda.gov/treemenu.aspx#>

2. Irrigation Water Management, Nutrient Management

Description: Managing irrigation scheduling to reduce runoff and irrigate more efficiently. Managing nutrient application based upon soil testing and proper application to eliminate excessive nutrients. Includes actions related to Land and Soil Conservation.

Activity Lead: Natural Resources Conservation Service (USDA-NRCS)

Other Participants: Private landowners engaged in a program contract with NRCS.

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is Fort Collins field office of NRCS

Activity Dates: 2000's -2007

Contact:

John Fusaro
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970-295-5658

Address:

2150 Centre Ave.
Bldg. A, Suite 116 Fort
Collins CO 80526

More Information: <http://efotg.sc.egov.usda.gov/treemenu.aspx#>

3. Property Management

Description: Management of irrigated and revegetated properties. This includes actions related to Land and Soil Conservation.

Activity Lead: City of Thornton

Other Participants: Natural Resources Conservation Service - revegetation certification

Watershed: Cache la Poudre

Location: Thornton-owned farms served by the Water Supply and Storage Company system. Point on map is office for the City of Thornton.

Activity Dates: 1985 – present

Contact:

Mark Koleber
mark.koleber@cityofthornton.net
303-255-7790

Address:

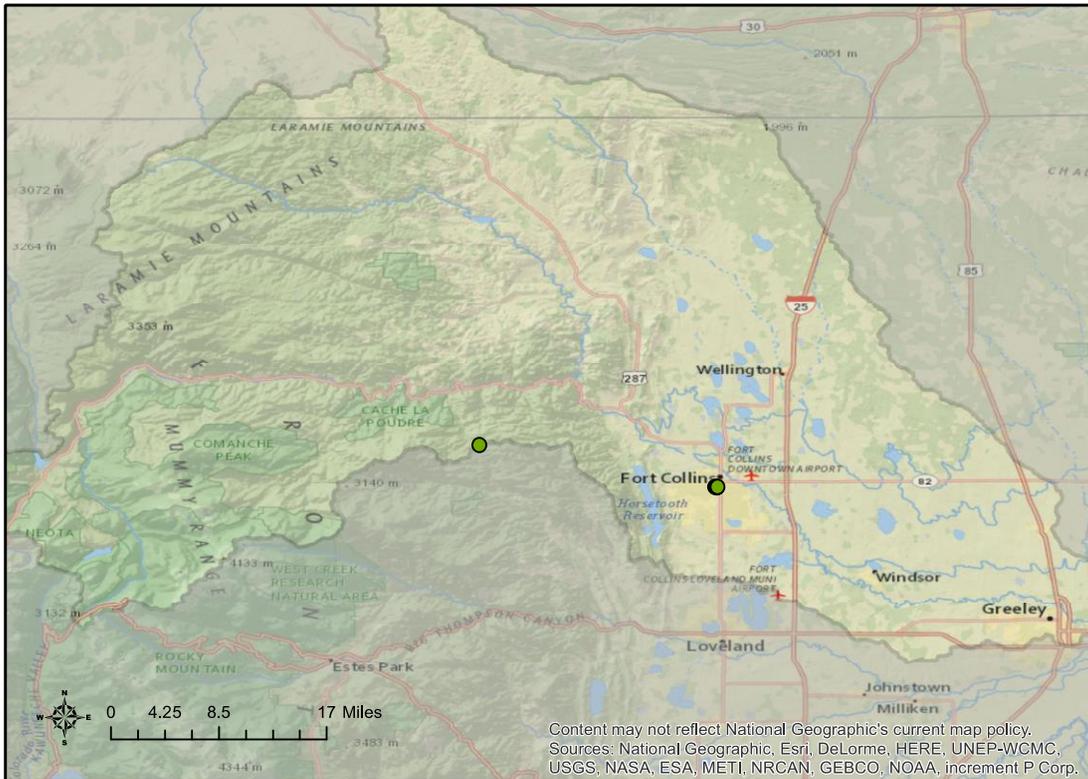
9500 Civic Center Dr.
Thornton, CO 80229

More Information: 1. <http://www.cityofthornton.net/>

2. <http://www.cityofthornton.net/Departments/CityManager/CityClerk/AgendasAndMinutes/CouncilMeetings/CouncilUpdates/120611%20Council%20Update%20Packet.pdf>



Convener



4. Colorado Conservation Exchange

Description: The 'Exchange' is a regional, community-led initiative to support land and water stewards (public or private) who provide clean and abundant water, productive soils, carbon storage, wildlife habitat, and open spaces. Initially, the Exchange is focusing on a payments for ecosystem services approach for wildfire risk reduction, agricultural best practices and their effects on water quality in the Cache la Poudre and Big Thompson Rivers. Includes actions related to Management Programs and Planning.

Activity Lead: Center for Collaborative Conservation

Other Participants: Coalition for Poudre River Watershed, City of Greeley Water & Sewer, The Nature Conservancy Colorado, Colorado Natural Heritage Program, Northern Colorado Water Conservancy District, New Belgium Brewing, Colorado State University, Larimer County, Brendle Group, Community Foundation of Northern Colorado, Big Thompson Watershed Forum, City of Loveland, City of Fort Collins Utilities, Environmental Incentives

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Additional Contact Information:
Heather Knight
hknight@tnc.org



Watershed: Both Cache la Poudre & Big Thompson

Location: Located out of Warner College of Natural Resource, Colorado State University - work takes place throughout the region in both rural and urban communities

Activity Dates: 2010 – Present

More Information: <https://www.collaborativeconservation.org/colorado-conservation-exchange>

5. Convener for Restoration

Description: CPRW is bringing together stakeholders to plan and implement watershed restoration with an initial focus on post-fire restoration and reducing catastrophic wildfire risk. Includes actions related to Upland Restoration.

Activity Lead: Coalition for the Poudre River Watershed

Other Participants: Rocky Mountain Flycasters, Trout Unlimited, Larimer County Conservation Corps, City of Greeley, City of Fort Collins Utilities, Larimer County, Center for Collaborative Conservation, Warner College of Natural Resources, CO/ WY Society of American Foresters, AloTerra Restoration Services, LLC, Colorado Natural Heritage Program, Community Members (Lacey Gaechter & Patrick Flynn)

Watershed: Cache la Poudre

Location: Work takes place in the upper Cache la Poudre watershed. Point on map is office on Colorado State University campus.

Activity Dates: Present

Contact:
Jennifer Kovecses
jenk@poudrewatershed.org
970-222-5754
Address:
PO Box 876
Fort Collins, CO 80522

More Information: www.poudrewatershed.org

6. High Park Fire and Big Thompson Flood Restoration

Description: Post-fire and post-flood restoration in both uplands and riparian areas.

Includes actions related to Riparian/Stream Restoration.

Survey Completed by: AloTerra Restoration Services, LLC

Activity Lead: City of Greeley, US Forest Service, Big Thompson River Restoration Coalition, Coalition for the Poudre River Watershed

Other Participants: Wildlands Restoration Volunteers, City of Fort Collins, NRCS, and many others in planning & implementation of restoration activities: Walsh Environmental, NRSI Services, Golder Associates, Blue Mountain Environmental Consulting, Confluent Design, Colorado Natural Heritage Program, JW Associates

Contact:
John Giordanengo
john@aloterraservices.com
970-420-7346
Address:
PO Box 212
Fort Collins, CO 80522



Watershed: Both Cache la Poudre & Big Thompson

Location: High Park Fire burn area - Roosevelt National Forest - Northern CO

Activity Dates: 2012-Present

More Information: www.aloterraservices.com

7. Poudre Runs Through It Study/Action Work Group

Description: The Poudre Runs Through It Study/Action Work Group is made up of about 25 citizen experts representing a diversity of interests who are selected to study the Poudre River and formulate cooperative actions based on what they learn. They began meeting in October 2012. Includes actions related to Public Education.

Activity Lead: Poudre Runs Through It Study/Action Work Group

Other Participants: Facilitators: Colorado Water Institute, Colorado State University

Members are affiliated with approximately 50 organizations with interest in the Poudre River

Watershed: Cache la Poudre

Location: Point on map is office located on Colorado State University campus

Activity Dates: 2012 – Present

Contact:

MaryLou Smith
MaryLou.Smith@ColoState.edu
(970) 491-5899

Address:

1033 Campus Delivery
Colorado State University
Fort Collins, CO 80523-1033

More Information: 1. <http://www.cwi.colostate.edu/thepondrerunsthroughit>

2. <http://cwi.colostate.edu/ThePoudreRunsThroughIt/files/Participants%20List%20@%2006-5-14.pdf>

8. South Platte Basin Roundtable

Description: South Platte Basin Roundtable (BRT) priorities are: Address potential impacts of agricultural transfers and finding alternatives to permanent agricultural dry-up. Address agricultural supply shortages for both surface and groundwater users. Identify opportunities to optimize existing and future water supply infrastructure. Successfully implement endangered species program to protect existing and future in-basin uses. Develop new water storage facilities. Ensure adequate water for future needs.

Activity Lead: Colorado Water Conservation Board

Other Participants: City of Fort Collins, City of Greeley, City of Loveland

Watershed: Both Cache la Poudre & Big Thompson

Contact:

Sean Cronin
sean.cronin@svlhwcd.org
303-866-3441

Address:

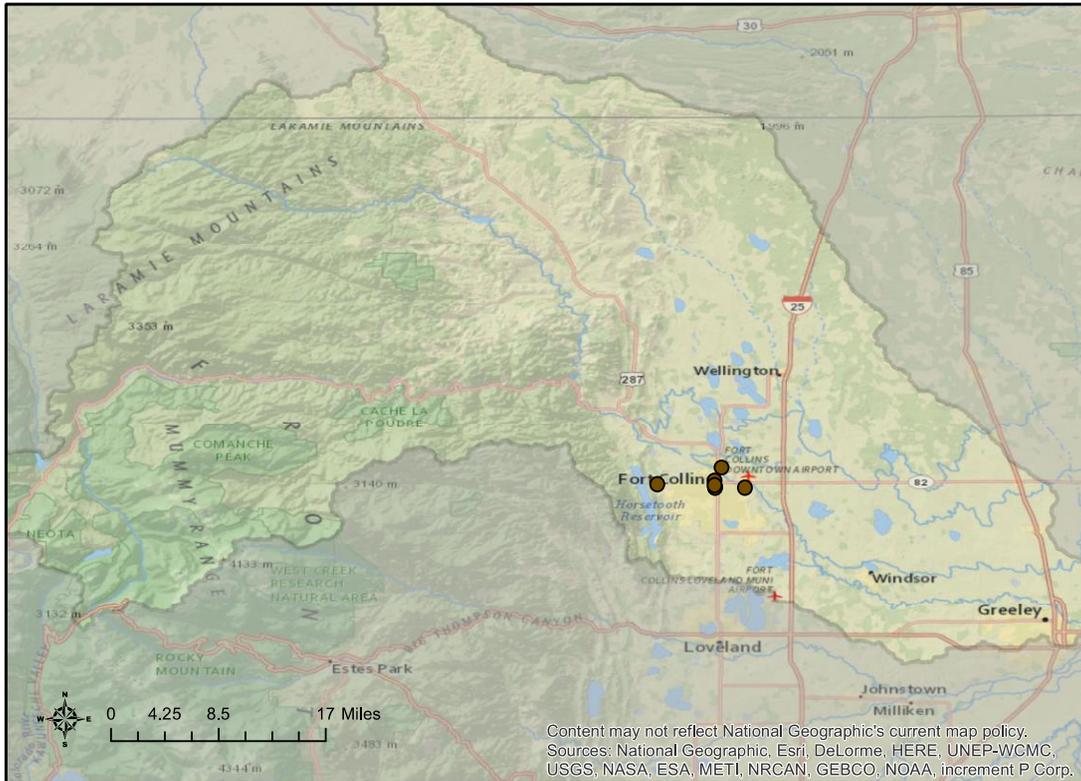
1313 Sherman Street, Room 721
Denver, CO 80203

Location: Point not included in watershed. Office located in
Denver Activity Dates: Present

More Information: [http://cwc.state.co.us/water-management/
basin-roundtables/pages/southplattebasinroundtable.aspx](http://cwc.state.co.us/water-management/basin-roundtables/pages/southplattebasinroundtable.aspx)



Management Programs & Planning



9. Floodplain Planning, Management of Natural Areas

Description: These properties have associated planning and management for the natural resources and recreational opportunities within the floodplain. Management of the riparian corridor for natural habitats and species has broad benefits to the river (such as pollutant filtration) and wildlife.

Includes actions related to Public Amenities and Recreation.

Activity Lead: City of Fort Collins Natural Areas

Other Participants: Larimer County and Legacy Land Trust hold conservation easements on some of our properties.

Watershed: Cache la Poudre

Location: Point on the map is office located in Fort Collins

Activity Dates: 1992- Present

Contact:

Jen Shanahan
jshanahan@fcgov.com
970-221-6281

Address:

1745 Hoffman Mill Rd
Fort Collins CO 80521
Additional Contact Information:
Mark Sears
msears@fcgov.com

More Information: <http://www.fcgov.com/naturalareas/>

10. FLOWS Initiative

Description: Agricultural, Municipal, and Environmental members of PRTI Study/Action Work Group are working together to find ways to increase flows on the Poudre to benefit the river's health while respecting water rights.

Activity Lead: Poudre Runs Through It Study/Action Work Group

Other Participants: Colorado Water Trust

Watershed: Cache la Poudre

Location: Point on map is office located at Colorado State University

Activity Dates: 2014 – Present

Contact:

MaryLou Smith
MaryLou.Smith@ColoState.edu
(970) 491-5899

Address:

1033 Campus Delivery
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Fort Collins, CO 80523-1033
Additional Contact Information:
Daniel Brown
1319 E Prospect Rd
Fort Collins, CO 80525
danbrown@fbgpc.com
(970) 407-9000

More Information: <http://www.cwi.colostate.edu/thepoudrerunsthroughit>

11. Forest Management

Description: An array of forestry activities to address wildfire hazard mitigation, insect and disease activity, post fire forest restoration, reforestation, forest health, forest products harvesting, and forest protection.

Includes actions related to Forestry Services.

Activity Lead: Colorado State Forest Service

Other Participants: Larimer County Tree Farmers are the primary landowner interest group for this activity. Larimer County Department of Natural Resources has been an active forest steward.

Watershed: Both Cache la Poudre & Big Thompson

Location: Work is throughout the watershed. Point on map is office located in Fort Collins.

Activity Dates: 1955 - Present

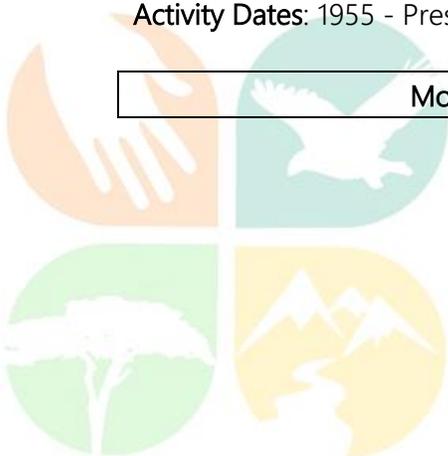
Contact:

Boyd Lebeda
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970-491-8445

Address:

5060 Campus Delivery
Fort Collins, CO 80523-5060

More Information: <http://csfs.colostate.edu/index.shtml>



12. Net Zero Water Planning Template

Description: To develop a tool for building site managers, city resource managers, or watershed managers to establish baseline water footprints/impacts, and then create strategies to address those impacts. Includes actions related to Public Education.

Activity Lead: Brendle Group

Other Participants: Colorado Water Innovation Cluster, Riverside Technology, Aqua Engineering, Lamp Rynearson & Associates, BHA Design, New Belgium Brewery, City of Fort Collins, City of Brighton, Adams County

Watershed: Cache la Poudre

Location: Point on map is office located in Fort Collins

Activity Dates: 2013-Present

Contact:

Patrick Flynn and Becky Fedak
pflynn@brendlegroup.com
bfedak@brendlegroup.com
970-207-0058

Address:

Brendle Group
212 West Mulberry
Fort Collins CO 80521

More Information: <http://www.co-waterinnovation.com/2014/02/net-zero-water-initiative/>
http://brendlegroup.com/img/site_specific/uploads/NZW_Trifold_Brochure.pdf

13. Poudre River Forum Initiative

Description: The establishment of an annual Poudre River Forum to bring together all the communities that benefit from the Poudre to celebrate and cooperate. The first PRF gathering took place Feb 8, 2014; it featured presentations and panels, think-tank topics, and fun. The next will take place Jan 31st, 2015. The purpose of the forum is to convene the wide diversity of those who care about the river to collaborate on how we can meet the dual goals of working river/healthy river. This activity also involves Convening.

Activity Lead: Poudre Runs Through It Study/Action Work Group

Watershed: Cache la Poudre

Location: Point on map is office located at Colorado State University

Activity Dates: 2014 – Present

Contact:

MaryLou Smith
MaryLou.Smith@ColoState.edu
(970) 491-5899

Address:

1033 Campus Delivery
Colorado State University
Fort Collins, CO 80523-1033

More Information: <http://cwi.colostate.edu/thepoudrerunsthroughit/forum/index.shtml>



14. Regional Funding Initiative

Description: Funding the transformation of a working river to a working river/healthy river will require major dollars—public dollars. The Poudre Runs Through It has undertaken an initiative to investigate how such funding could be generated. They will look at successful models, such as Larimer County’s Open Space Tax or the state of Colorado’s GOCO fund, and others, for inspiration. They believe that those who live in the Poudre River Basin will respond enthusiastically to this vision.

Includes actions related to Convening.

Activity Lead: Poudre Runs Through It Study/Action Work Group

Watershed: Cache la Poudre

Location: Point on the map is office located at Colorado State University.

Activity Dates: 2014 - Present

Contact:

MaryLou Smith
MaryLou.Smith@ColoState.edu
(970) 491-5899

Address:

1033 Campus Delivery
Colorado State University
Fort Collins, CO 80523-1033

More Information: <http://www.cwi.colostate.edu/thepondrerunsthroughit>

15. South Platte/Metro Basin Implementation Plan

Description: The Basin Implementation Plan provides goals and measurable outcomes, and ideas for addressing M&I, environmental, and recreational needs in the South Platte, which includes the Poudre and Big Thompson.

Survey Completed by: Open Water Foundation

Activity Lead: West Sage Water Consultants

Other Participants: Miller Ecological Consultants, consultant AMEC, consultant HDR, consultant MWH

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is office located in Fort Collins

Activity Dates: 2013-Present

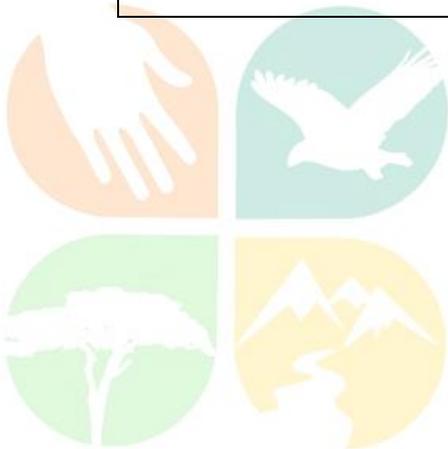
Contact:

Steve Malers
steve.malers@openwaterfoundation.org
970-286-7462

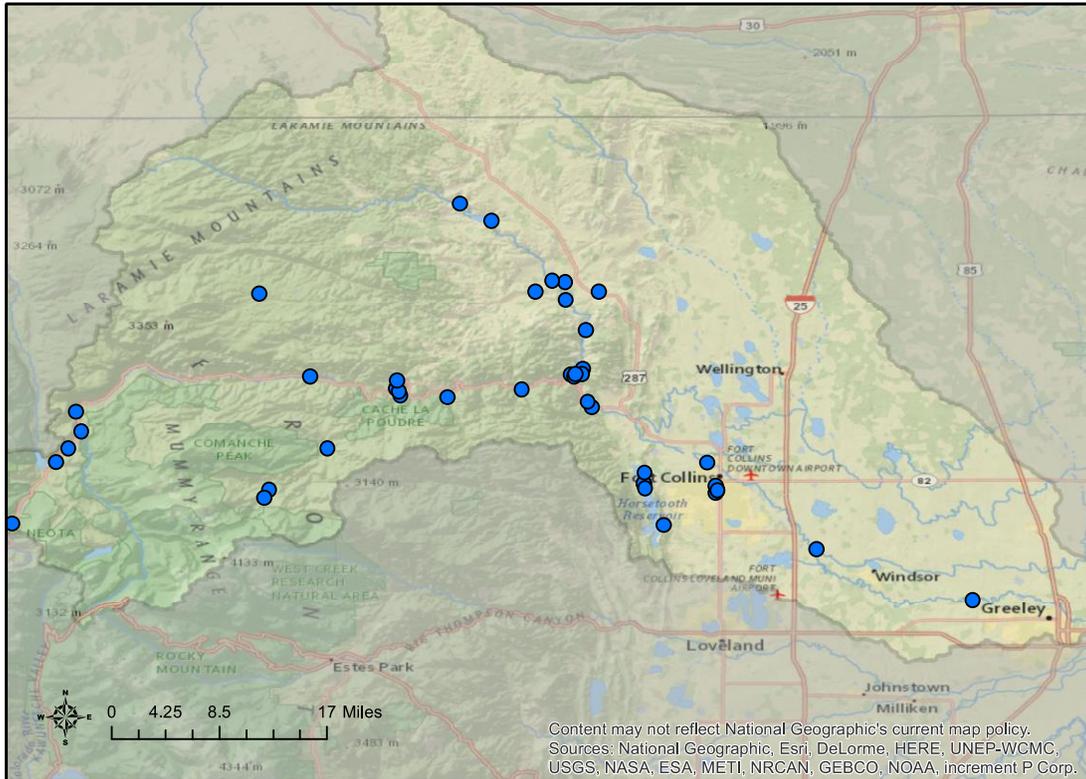
Address:

320 East Vine Drive
Suite 315
Fort Collins, CO 80524

More Information: <http://southplattebasin.com/>



Monitoring



16. Aquatic Insect Monitoring

Description: Monitoring and research of aquatic insect biodiversity.

Activity Lead: Colorado State University

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is office located at Colorado State University.

Activity Dates: 1990 - Present

Contact:

Boris C. Kondratieff
Boris.kondratieff@colostate.edu
970-491-7314

Address:

Dept of Bioagricultural Sciences & Pest Mgmt
Campus Delivery 1177
Fort Collins, CO 80523

More Information: <http://bspm.agsci.colostate.edu/>

17. Aquatic Life Sampling

Description: Determines aquatic life stability in the system and provided information to decision makers and anglers on quality of potential experience. Includes actions related to Public Amenities and Recreation.

Activity Lead: Colorado Parks and Wildlife

Other Participants: Trout Unlimited support

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located in Fort Collins

Activity Dates: 1930- present

Contact:

Ken Kehmeier
ken.kehmeier@state.co.us
970-472-4350

Address:

317 W. Prospect
Fort Collins CO 80526

More Information:

<http://cpw.state.co.us/Documents/Fishing/FisheryWaterSummaries/Summaries/Northeast/BigThompsonRiver.pdf>

<http://cpw.state.co.us/Documents/Fishing/FisheryWaterSummaries/Summaries/Northeast/CachelaPoudreRiverCanyon.pdf>

18. Baseline Water Quality Monitoring Program

Description: Long term water quality monitoring program designed to understand current conditions; monitor trends/changes over space and time; assess potential impacts of introduction of C-BT Project water into streams; assess compliance with Colorado water quality standards; support current and future permitting requirements for NCWCD projects; assess water quality impacts from adverse events such as floods, wildfires, spills; and support water quality modeling efforts. Parameters include temp, D.O., pH, spec cond, turbidity, nutrients, TOC, metals, major ions, chlorophyll (reservoirs), phytoplankton (reservoirs), zooplankton (reservoirs)

Activity Lead: Northern Colorado Water Conservancy District (NCWCD)

Watershed: Both Cache la Poudre & Big Thompson

Location: Sampling stations are located in Horsetooth Reservoir, Carter Lake Res, C-BT system canals, and in streams upstream and downstream of points where C-BT canals release water.

Activity Dates: 2000 to present

Contact:

Judy Billica
jbillica@northernwater.org
970-622-2332

Address:

220 Water Ave
Berthoud, CO 80513

More Information: <http://www.northernwater.org/WaterQuality/WaterQuality.aspx>
<http://www.northernwater.org/WaterQuality/WaterQualityReports1.aspx>

19. Coalition for the Poudre River Watershed Post Fire Monitoring

Description: Various treatments were used to address erosion control following the High Park Fire. We are monitoring vegetation to see which treatment was most effective. This includes actions related to Research-for Impacts.

Activity Lead: Colorado Natural Heritage Program

Other Participants: Coalition for the Poudre River Watershed manages all research and restoration

Watershed: Cache la Poudre

Location: Monitoring takes places all over the watershed within the boundaries of the High Park Fire

Activity Dates: 2014-2015

Contact:

Jeremy Sueltenfuss
jeremy.sueltenfuss@colostate.edu
970-491-0814

Address:

1475 Campus Delivery
Colorado State University
Fort Collins, CO 80523

More Information: <http://www.cnhp.colostate.edu/>

20. Community Collaborative Rain, Hail & Snow Network

Description: With the help of volunteers, we are measuring and mapping the patterns and variability of precipitation on a daily basis and accumulated over seasons and years across the basins. This relates directly to water supply, water quality, wildfire potential, post-fire impacts, and overall ecologic response of the basins.

Includes actions related to Public Education.

Activity Lead: Colorado Climate Center

Other Participants: City of Fort Collins, City of Loveland, Northern Colorado Water Conservancy District, US Bureau of Reclamation, Colorado Water Conservancy District all help with financial support and sometimes in helping recruit and/or equip volunteers.

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is office located at Colorado State University.

Activity Dates: pre 2012 - Present

Contact:

Nolan Doesken
nolan@atmos.colostate.edu
970 491-3690

Address:

Dept. of Atmospheric Science
Colorado State University
Fort Collins, CO 80523-1371

More Information: www.cocorahs.org



21. Cooperative Emerging Contaminants Monitoring Program

Description: The program was designed to take a pro-active approach to determine the presence of pharmaceuticals, personal care products, hormones, and pesticides in C-BT and East Slope source waters associated with drinking water supplies. The program develops a baseline of data for these compounds and will allow monitoring of any changes in the future. The program monitors more than 150 contaminants.

Activity Lead: Northern Colorado Water Conservancy District (NCWCD)

Other Participants: The program is a collaborative effort where the costs and sampling is shared by the cities of Boulder, Broomfield, Fort Collins, Greeley, Longmont, and Loveland, the Town of Estes Park, Northern Water and the U.S. Bureau of Reclamation. The Center for Environmental Mass Spectrometry at the University of Colorado (CEMS) does all of the laboratory analyses.

Watershed: Both Cache la Poudre & Big Thompson

Locations: Windy Gap Reservoir, Adams Tunnel at East Portal, Upper Thompson Sanitation District Effluent, Big Thompson Upstream of Dille, North Fork of the Cache La Poudre River, Cache La Poudre River upstream of North Fork, Saint Vrain Supply Canal at Saint Vrain crossing

Activity Dates: 2009 - Present

Contact:

Judy Billica

jbillica@northernwater.org

970-622-2332

Address:

220 Water Ave

Berthoud, CO 80513

More Information: <http://www.northernwater.org/WaterQuality/MonitoringPrograms.aspx>

22. Fish Community Sampling

Description: Fish community monitoring is conducted to determine effects of sewage treatment plants and other effects on fishes in those streams. Includes actions related to Research-for-Impacts.

Survey Completed by: Colorado State University

Activity Lead: Environmental Health Services

Other Participants: City of Fort Collins

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located at Colorado State University.

Activity Dates: 1980 - Present

Contact:

Kevin Bestgen

kbestgen@colostate.edu

Address:

Campus Delivery 1474

Department of Fish, Wildlife and

Conservation Biology

Fort Collins, CO 80523

More Information: <http://warnercnr.colostate.edu/~kbestgen/>

23. Geosmin Monitoring

Description: Geosmin is a naturally occurring compound that gives water an earthy odor and is very difficult to remove during water treatment. Occurrences have been observed in both the C-BT project, including Horsetooth Reservoir, and the Cache la Poudre River.

Includes actions related to Water Supply, Diversion, Storage, and Treatment.

Activity Lead: City of Fort Collins Utilities

Watershed: Both Cache la Poudre & Big Thompson

Location: Sampling occurs along the C-BT project, Horsetooth Reservoir, and Cache la Poudre River. Hansen Feeder Canal at Trifurcation, Adams Tunnel, Big Thompson at Dille Tunnel, HFC at Flatiron Reservoir

Activity Dates: 2010-present

Contact:

Jared Heath
jheath@fcgov.com
970-416-2287

Address:

4316 Laporte Avenue
Fort Collins, CO 80521

More Information: <http://www.fcgov.com/utilities/what-we-do/water/water-quality/source-water-monitoring/special-studies/geosmin>

24. High Park Fire Monitoring Network

Description: Collaborative effort between researchers to monitor post-fire hydrologic, geomorphic, and water quality response at nested scales of observation.

Monitoring designed to examine the effects of mulch treatments. Includes actions related to Research-for-Impacts.

Activity Lead: Colorado State University

Other Participants: Rocky Mountain Research Station, USFS

Watershed: Cache la Poudre

Location: Throughout the High Park Fire area, with focus on the South Fork, Skin Gulch, and Hill Gulch

Activity Dates: 2014 - present

Contact:

Stephanie Kampf
stephanie.kampf@colostate.edu
970-491-0931

Address:

Colorado State University
1476 Campus Delivery
Fort Collins, CO 80523

More Information: Not yet established, as network is just starting. Should have a site soon with more information about monitoring locations and participants.

http://www.cwi.colostate.edu/CSUWaterFaculty/?WF_ID=146



25. Monitoring Meteorology at Pingree Park

Description: Working to understand the climate of the area. Includes actions related to Research.

Activity Lead: Colorado State University

Watershed: Cache la Poudre

Location: At an elevation of 9,000 ft. (2,743m) lies Colorado State University's 1,600-acre mountain campus and conference center, Pingree Park. 40.569780, -105.592041

Activity Dates: 2003-present

Contact:

Steven Fassnacht
steven.fassnacht@colostate.edu
970-491-5454

Address:

Natural Resources Building
Room 335
400 West University Ave Fort
Collins CO 80523-1476

More Information: <http://warnercnr.colostate.edu/~srf/>

26. Monitoring of Resources on City of Fort Collins Natural Areas Properties in the Poudre River Floodplain

Description: Have several monitoring studies that occur periodically. Breeding bird survey, habitat assessments, vegetation composition (% native).

Activity Lead: City of Fort Collins: Natural Areas

Watershed: Cache la Poudre

Location: These monitoring program occur primarily on Poudre River Natural Areas properties in the City of Fort Collins but also in other open spaces (parks, stormwater lands) within the Poudre river floodplain in the City. Butterfly Woods and North Shields Ponds,

Activity Dates: 1992- Present

Contact:

Jen Shanahan
jshanahan@fcgov.com
m 970-221-6281

Address:

1745 Hoffman Mill Rd
Fort Collins, CO 80521

More Information: <http://www.fcgov.com/naturalareas/>



27. Monitoring Streamflow at Pingree Park

Description: Working to understand streamflow characteristics. Includes Research-for-Impacts.

Activity Lead: Colorado State University

Watershed: Cache la Poudre

Location: At an elevation of 9,000 ft. (2,743m) lies Colorado State University's 1,600-acre mountain campus and conference center, Pingree Park.

Activity Dates: 2011-present

Contact:

Steven Fassnacht
steven.fassnacht@colostate.edu
970-491-5454

Address:

Natural Resources Building
Room 335
400 West University Ave
Fort Collins CO 80523-1476

More Information: <http://warnercnr.colostate.edu/~srf/>

28. National Integrated Drought Information System, Drought Early Warning System

Description: In collaboration with several partners, assess regional climate conditions and water supplies on a weekly basis to track and provide early warning for the onset of drought. Includes actions related to Public Education.

Activity Lead: Colorado Climate Center

Other Participants: Northern Colorado Water Conservancy District, Natural Resources Conservation Service, National Weather Service, US Bureau of Reclamation, Colorado Water Conservancy District and others

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office at Colorado State University

Activity Dates: 2009 - Present

Contact:

Nolan Doesken
nolan@atmos.colostate.edu
970 491-3690

Address:

Dept. of Atmospheric Science
Colorado State University
Fort Collins, CO 80523-1371

More Information: http://ccc.atmos.colostate.edu/drought_webinar.php



29. Post-Wildfire/Watershed Recovery Monitoring

Description: Storm water sampling of Poudre River water during debris flows and flooding events to monitoring wildfire effects on source water quality, and to track watershed recovery.

Activity Lead: City of Fort Collins Utilities

Watershed: Cache la Poudre

Location: Sampling locations are paired with Upper Cache la Poudre Watershed Collaborative Monitoring Program sampling locations (Poudre River above North Fork and Little South Fork above confluence with mainstem).

Activity Dates: 2012-present (storm water sampling); 2014-present (Little South Fork streamflow monitoring)

Contact:
Jared Heath
jheath@fcgov.com
970-416-2287
Address:
4316 Laporte Avenue
Fort Collins CO 80521

More Information: <http://www.fcgov.com/naturalareas/>

30. Road Erosion and Effects of Decommissioning

Description: Measuring road erosion, road-stream connectivity, and the effectiveness of road decommissioning. This includes actions related to Research-for-Impacts.

Activity Lead: Colorado State University

Other Participants: Arapaho-Roosevelt National Forest

Watershed: Cache la Poudre

Location: Could not place marker; working southwest of Redfeather Lakes

Activity Dates: 2013-2016

Contact:
Lee MacDonald
lee.macdonald@colostate.edu
970-491-6109
Address:
1499 Campus Delivery
Fort Collins, CO 80523-1499

More Information: <http://www.nrel.colostate.edu/macdonald-lab/>



31. Roberts Ranch Project

Description: The Roberts ranch project is designed to reduce the loss of soil off the ranch and to reduce its impact on water quality. Water quality monitoring stations have measured the loss of sediment and determined where to implement restoration.

This Includes actions related to Land and Soil Conservation.

Activity Lead: Colorado Conservation Exchange; Center for Collaborative Conservation

Other Participants: Collaboration: Roberts Ranch ranch owner and manager, Wildland Restoration Volunteers, The Nature Conservancy. In kind supporters and financial contributors: Colorado State University, Natural Resources Conservation Service, US Fish and Wildlife Service, Colorado Parks and Wildlife, City of Fort Collins Utility, Colorado Water Conservation Board, New Belgium Brewing Company, and numerous other local businesses and individuals.

Watershed: Cache la Poudre

Location: Point on map is location of ranch at 17750 U.S. 287, Livermore, Colorado, 80536, United States

Activity Dates: 2013 - Present

Contact:
Robin Reid
robin.reid@colostate.edu
(970) 491-3983

Address:
224 Student Services Bldg
1401 Campus Delivery
Fort Collins CO 80523

More Information: <http://www.collaborativeconservation.org/>

32. Snow Surveys Near Peak Accumulation

Description: Working to understanding the distribution of snow. Includes actions related to Research-for-Impacts.

Activity Lead: Colorado State University

Watershed: Cache la Poudre

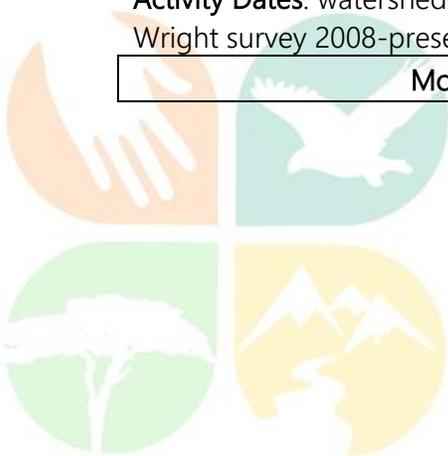
Location: In 2014 focused on the South Fork watershed at Pingree Park and around the Joe Wright SNOTEL station between the Zimmerman Lake Parking lot and Cameron Pass

Activity Dates: watershed snow survey 2011-present, Joe Wright survey 2008-present

Contact:
Steven Fassnacht
steven.fassnacht@colostate.edu
970-491-5454

Address:
Natural Resources Building
Room 335
400 West University Ave
Fort Collins CO 80523-1476

More Information: <http://warnercnr.colostate.edu/~srf/>



33. South Platte Continuous Electrical Conductivity Monitoring Program

Description: The primary objective of the continuous conductivity monitoring program is to assess the salinity levels as water flows down the Lower South Platte River basin. The data are being used to provide a general measure of water quality in the lower South Platte River basin and provide for long-term trending of conditions over time. Each EC continuous monitoring site includes an electrical conductivity sensor, datalogger, power source and telemetry to log and transmit the data to Northern Water on a real-time basis. The sensors measure both electrical conductivity and temperature.

Activity Lead: Northern Colorado Water Conservancy District

Watershed: Cache la Poudre

Location: Cache la Poudre River at Mouth of Canyon
40.6645 -105.2231, CLAGRECO Cache la Poudre River at
Greeley near Greeley-Weld County Airport 40.4177 -
104.6393, CLAGRLCO Cache la Poudre River at Greeley #3
Ditch diversion 40.4441 -104.7871

Activity Dates: 2000 to Present

Contact:
Judy Billica
jbillica@northernwater.org
970-622-2332

Address:
220 Water Ave
Berthoud, CO 80513

More Information: <http://www.northernwater.org/WaterQuality/MonitoringPrograms.aspx>

34. Upper Cache la Poudre Watershed Collaborative Monitoring Program

Description: Water quality and streamflow monitoring in the Upper Cache la Poudre River Watershed. The collection and assessment of water quality data helps the City of Fort Collins and collaborators meet present and future drinking water treatment goals, and supports source water protection efforts. Includes actions related to Water Supply, Diversion, Storage, and Treatment.

Activity Lead: City of Fort Collins Utilities

Other Participants: City of Greeley and Tri-Districts

Watershed: Cache la Poudre

Location: Water quality samples are collected at nine sites on the main stem of the Poudre River, one site on the South Fork and nine sites on the North Fork, including Seaman Reservoir. All sites are located on map.

Activity Dates: 2008 - present

Contact:
Jared Heath
jheath@fcgov.com
970-416-2287

Address:
4316 Laporte Avenue
Fort Collins CO 80521

More Information: <http://www.fcgov.com/utilities/what-we-do/water/water-quality/source-water-monitoring/upper-poudre-quality-monitoring>

35. Water Quality Monitoring

Description: Monitoring program.

Activity Lead: City of Thornton

Watershed: Cache la Poudre

Location: Point on map is office located in Thornton

Activity Dates: Present

Contact:

Mark Koleber

mark.koleber@cityofthornton.net

303-255-7790

Address:

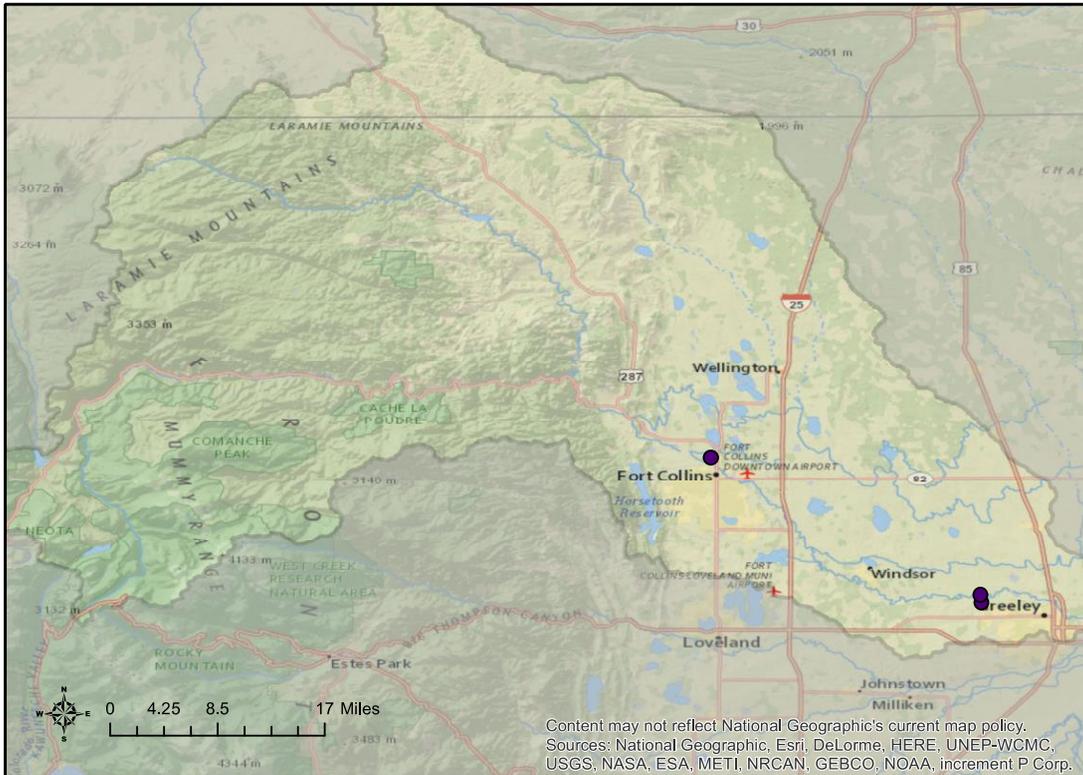
9500 Civic Center Dr.

Thornton, CO 80229

More Information: <http://www.cityofthornton.net/>



Public Amenities and Recreation



36. Poudre Challenge

Description: The Challenge Event has two parts: Pack the Trail involves beginning at Island Grove Park and travelling out on the trail in any appropriate form of travel. For the more adventurous types, the Challenge the Trail portion provides a fun obstacle course with all sorts of unique challenges along the way. This annual event is held in September.

Includes actions related to Public Education.

Survey Completed by: Cache la Poudre River National Heritage Area

Activity Lead: Poudre Triver Trail Corridor

Watershed: Cache la Poudre

Location: Point on map is office located in Greeley

Activity Dates: Unknown - Present

Contact:

Kathleen Benedict
kbenedict@poudreheritage.org
970-352-1267

Address:

8314 West F Street
Greeley, CO 80631

More Information: <http://poudretrail.org/news-events>

37. Poudre RiverFest

Description: Poudre RiverFest is a daylong, family focused event, with wildlife viewing and volunteer restoration projects in the morning followed by a celebration of the Poudre River in the afternoon with live music, educational activities, booths, a beer garden and food.

Includes actions related to Public Education.

Survey Completed by: Cache la Poudre River National Heritage Area

Activity Lead: Sustainable Living Association

Other Participants: Rocky Mountain Bird Organization

Watershed: Cache la Poudre

Location: Legacy and Lee Martinez Park.

Activity Dates: 2014

Contact:

Kathleen Benedict
kbenedict@poudreheritage.org
970-352-1267

Address:

8314 West F Street
Greeley, CO 80631

More Information: <https://sustainablelivingassociation.org/poudre-riverfest-restores-revitalizes-corridor/>

38. Poudre Trail-athlon

Description: The Poudre Trail-athlon is a 'Triathlon with a twist'. Participants take part in as many of the 9 event stations as they like in a self-paced morning of fun. From activities that will get the heart pumping such as the bike ride and fun run, to more relaxed activities like bird watching and chalk art, there is something for everyone. Includes Public Education. **Survey**

Completed by: Cache la Poudre River National Heritage Area

Activity Lead: Poudre River Trail Corridor

Watershed: Cache la Poudre

Location: Starts at 40.441875, -104.773613. The trail extends from Island Grove Regional Park in Greeley to Colorado

Highway 392 in Windsor where it connects to the paved trail

in Larimer County's River Bluff's Open Space. Headquarters is located on activities map.

Activity Dates: Unknown - Present

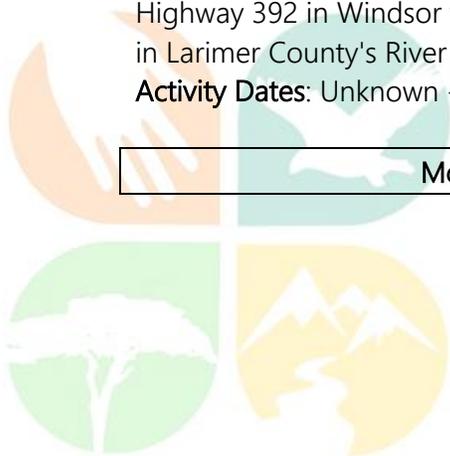
Contact:

Kathleen Benedict
kbenedict@poudreheritage.org
970-352-1267

Address:

8314 West F Street
Greeley, CO 80631

More Information: <http://poudretrail.org/news-events>



39. 1882 Fort Collins Water Works Open Houses

Description: Opportunity for the public to come see and learn about the historic Water Works property. Includes actions related to Public Amenities and Recreation.

Activity Lead: Poudre Landmarks Foundation

Other Participants: City of Fort Collins

Watershed: Cache la Poudre

Location: Takes place at the historical Water Works
2005 N Overland Trail, Fort Collins.

Activity Dates: 1995-Present

Contact:

Jennifer Beccard
poudrelandmarks@gmail.com
970-221-0533

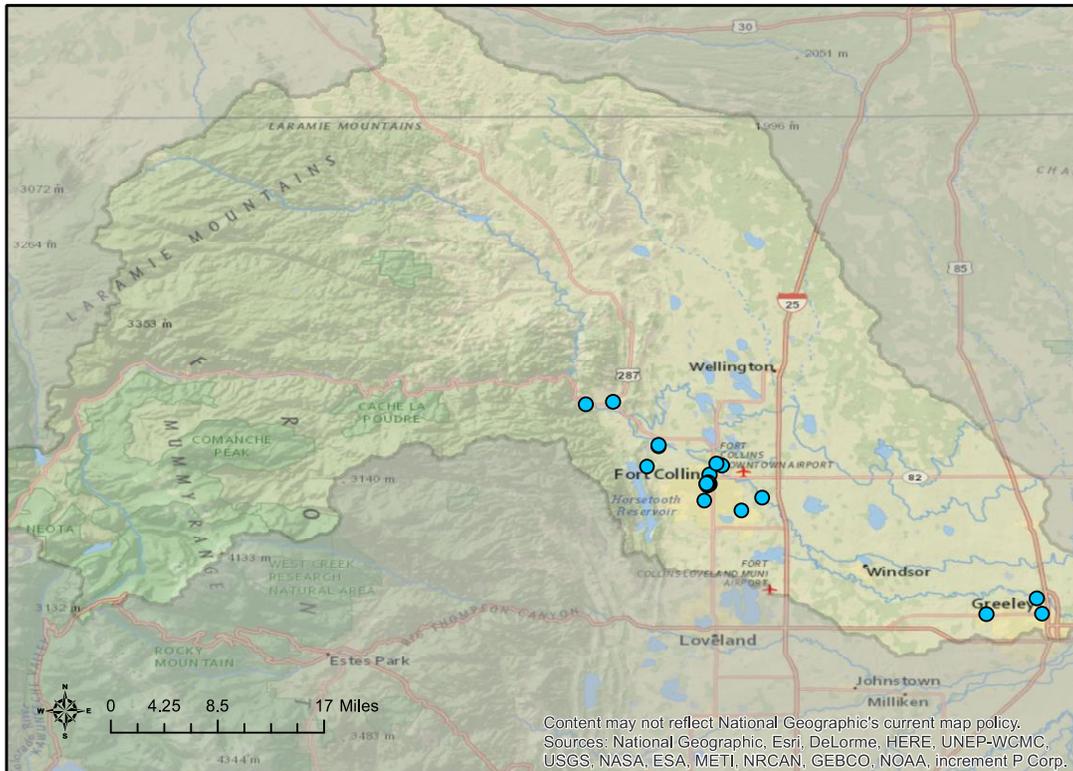
Address:

108 N. Meldrum St.
Fort Collins, CO 80521

More Information: <http://poudrelandmarks.org/water-works/>



Public Education



40. Accomplishments of Save the Poudre: Poudre Waterkeeper

Description: A listing of some of the self-identified accomplishments that Save the Poudre: Poudre Waterkeeper highlights on their website. Includes actions related to Management Programs and Planning.

Activity Lead: Save the Poudre: Poudre Waterkeeper

Watershed: Cache la Poudre

Location: Point on the map is Fort Collins PO Box.

Activity Dates: Present

Contact:

John Bartholow

john.bartholow@savethepoudre.org

970-223-6488

Address:

PO Box 20

Fort Collins, CO 80522

More Information: <http://www.savethepoudre.org/top-10-accomplishments.html>

41. Awareness and Education Activities

Description: Promotion of land conservation, outdoor recreation (including water based recreation) and environmental awareness.

Activity Lead: Larimer County Natural Resources

Other Participants: Other towns and cities and non-profits throughout Larimer County.

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is office in Loveland.

Activity Dates: 1996-Present

Contact:

Jeffrey Boring
jboring@larimer.org
970-619-4569

Address:

1800 South County Road 31
Loveland CO 80537

More Information: <http://www.larimer.org/naturalresources/>

42. Children's Water Festival

Description: The Central Colorado Water Conservancy District created the Children's Water Festival in 1991. The Children's Water Festival in Greeley is a free event for 4th grade students in Weld, Morgan and Adams Counties. The festival goals are to teach students that water is an essential, limited resource and that they can take action. The event provides teachers with materials and lessons that they can use for years to come. Includes actions related to Convening.

Survey Completed by: Cache la Poudre River National Heritage Area

Activity Lead: Central Colorado Water Conservancy District

Watershed: Cache la Poudre

Location: Location on the map is Island Grove Park where the 2014 event is taking place.

Activity Dates: 1991 - present

Contact:

Kathleen Benedict
kbenedict@poudreheritage.org
970-352-1267

Address:

8316 West F Street
Greeley, CO 80631
Additional Contact Information:
Kathy Parker
KParker@ccwcd.org
970-330-4540

More Information: <http://www.ccwcd.org/wp-content/uploads/2011/04/CWF-Fact-Sheet.pdf>



43. Collecting & Making Available Historical Documentation

Description: The Archive is collecting historical documentation on water in all its aspects across the state of Colorado. Having unique documents available for all to learn from will help everyone better understand how we got where we are.

Activity Lead: Morgan Library; Colorado State University

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is library located at Colorado State University.

Activity Dates: 2001 - present

Contact:
Patricia Rettig
Patricia.Rettig@colostate.edu
970-491-1939

Address:
1201 Central Avenue Mall
Fort Collins, CO 80523

More Information: <http://lib.colostate.edu/archives/water/>

44. Conservation Education

Description: Monthly conservation messages for public education. Also has a consistent focus on noxious weed management and agricultural best management practices.

Activity Lead: West Greeley Conservation District

Watershed: Cache la Poudre

Location: Point on map is office located in Greeley.

Activity Dates: 2011 - Present

Contact:
Joyce Kelly
joyce.kelly@wgcd.org
970-356-8097

Address:
4302 W. 9th St Rd
Greeley CO 80634

More Information: <http://www.wgcd.org/>



45. Develop CitSci.org

Description: CitSci.org supports water quality monitoring efforts in any watershed globally; currently Trout Unlimited is using the platform for citizen based and community based monitoring of water temp, pH, total dissolved solids, and conductivity to assess effects of fracking on stream quality.

Activity Lead: CitSci.org and Natural Resource Ecology Lab at Colorado State University

Other Participants: Denver Zoo, Trout Unlimited, Oregon Zoo, City of Fort Collins Natural Areas Program (amphibian monitoring), Front Range Pika Project, among others.

Watershed: Both Cache la Poudre & Big Thompson

Location: Working with citizen science monitoring groups on a local, regional, and global scale. Point on the map is office located at Colorado State University.

Activity Dates: 2007-present

Contact:

Greg Newman
gregory.newman@colostate.edu
970-491-0410

Address:

NESB/NREL A206
Fort Collins CO 80523-1499

More Information: www.citsci.org

46. Education

Description: The mission at the Colorado State University Environmental Learning Center is to connect people with nature by facilitating educational, inclusive and safe experiences in the natural environment and to advance the field of environmental education through sound research and practice. Includes actions related to Public Amenities and Recreation.

Activity Lead: Colorado State University Environmental Learning Center

Watershed: Cache la Poudre

Location: Point on the map is office located at Colorado State University.

Contact:

Brett Bruyere
brett.bruyere@colostate.edu
970-491-1360

Address:

1480 Campus Delivery
Fort Collins, CO 80523

Additional Contact Information:

Nicole Stafford
1480 Campus Delivery
Fort Collins, CO 80523
nicole.stafford@colostate.edu
970-491-1661

More Information: <http://www.csuelc.org/>



47. Field Geomorphology Course

Description: Graduate level field geomorphology class under development utilizing the field opportunities to assess effects from the September 2013 flooding.

Activity Lead: Colorado State University

Watershed: Both Cache la Poudre & Big Thompson

Location: Various locations within the watersheds with Sept. 2013 flood evidence. Point on the map is office located at Colorado State University.

Activity Dates: 2014

Contact:

Sara L Rathburn
rathburn@cnr.colostate.edu
970-491-6956

Address:

Dept Geosciences
1482 Campus Delivery
Colorado State University
Fort Collins, CO 80523-1482

48. Forestry Research Resources

Description: A guide to forestry and forest sciences research information for Colorado State University faculty, students, staff, and researchers.

Activity Lead: Colorado State University Libraries

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is library located at Colorado State University.

Activity Dates: Unknown - Present

Contact:

Jocelyn Boice
jocelyn.boice@colostate.edu
970-491-3882

Address:

1019 Campus Delivery
Fort Collins, CO 80523-1019

More Information: <http://libguides.colostate.edu/forestry>



49. History of Agricultural & Urban Water Use in Fort Collins

Description: An educational website that compiles information about the history of agricultural and municipal/industrial water use and transfer in the Fort Collins area/Poudre watershed

Activity Lead: Public Lands History Center

Other Participants: Water Resources Archive, Colorado State University

Watershed: Cache la Poudre

Location: Point on the map is office located in Fort Collins.

Website looks at the uses of the Poudre River in regards to the communities it serves such as Livermore, Bellvue, Laporte, Fort Collins, Wellington, Ault, Timnath, Windsor, Loveland, and Greeley

Activity Dates: 2012-ongoing

Contact:

Maren Bzdek
maren.bzdek@colostate.edu
970-491-6130

Address:

Campus Mail 1776
Fort Collins, CO 80523-1776

More Information: http://publiclands.colostate.edu/digital_projects/dp/poudre-river/

50. Natural Resources Course at Colorado State University: NR420

Description: Groups of students in NR420 conduct a landscape level adaptive management plan within the north fork of the Cache la Poudre watershed aimed at a specific ecosystem management subject. Groups define ecosystem boundaries; study interactions between system components; collect spatial and non-spatial data to conduct landscape assessment and stakeholder analyses; define goals, objectives and management alternatives; identify key uncertainties and associated hypotheses; select monitoring indicators and design monitoring plan. All these components are synthesized into a professional planning document. Includes actions related to Management Programs and Planning.

Activity Lead: Colorado State University

Watershed: Cache la Poudre

Location: Point on the map is office located at Colorado State University

Activity Dates: 2013 - Present

Contact:

Yu Wei
yu.wei@colostate.edu
970-491-2959

Address:

Dept of Forest & Rangeland
Mail Delivery 1472;
Colorado State University
Fort Collins, CO 80523-1473



51. Opposition to the Northern Integrated Supply Project

Description: The Save the Poudre: Poudre Waterkeeper actively opposes the Northern Integrated Supply Project (NISP)/Glade project through public advocacy of issues and proposed alternative better practices. Includes actions related to Management Programs and Planning.

Activity Lead: Save the Poudre: Poudre Waterkeeper

Other Participants: Waterkeeper Alliance, River Network Partner, The Bean Cycle & Matter Bookstore, WFP, Friends of the Poudre, Clena Water Action, Sierra Club Poudre Canyon Group, National Wildlife Federation, Fort Collins Audubon Society, Citizen Planners, Defenders of Wildlife, Wild Earth Guardians, Western Resource Advocates, Poudre Paddlers, American Whitewater, American Rivers, The Xerces Society, Conservation Colorado, LightHawk

Watershed: Cache la Poudre

Location: Points on the map are the proposed sites for the NISP at Glade and Galeton reservoirs

Activity Dates: Present

Contact:

John Bartholow
john.bartholow@savethepoudre.org
970-223-6488

Address:

PO Box 20
Fort Collins, CO 80522

More Information: <http://www.savethepoudre.org/the-nisp-glade-project.html>

52. Philanthropy

Description: Provides funding through grant programs to many organizations that advocate and manage the Poudre River. This includes the Josh Ames Diversion Dam removal project and the Colorado Conservation Exchange. Includes actions related to Management Programs and Planning.

Activity Lead: New Belgium Brewing Company

Watershed: Cache la Poudre

Location: Point on the map is office located in Fort Collins.

Activity Dates: Unknown - Present

Contact:

Jenn Vervier
jvervier@newbelgium.com
970 227-2061

Address:

Director, Strategy & Sustainability
500 Linden Street
Fort Collins CO 80524

More Information: <http://www.newbelgium.com/Sustainability/Community/Philanthropy.aspx>

53. Public Forums

Description: Had four nights of lectures about the river from a variety of sources (all of which were videoed and replayed on public access), and then hosted 2 sessions of facilitated small group discussions on how best to address community water needs moving forward. Includes actions related to Convening.

Survey Completed by: Colorado State University Center for Public Deliberation

Activity Lead: We led with Colorado Water Institute initially, but they lead now.

Other Participants: Colorado Water Institute, Northern Colorado Community Foundation

Watershed: Cache la Poudre

Location: Point on the map is office located at Colorado State University.

Contact:

Martin Carcasson
cpd@colostate.edu
970-491-5628

Address:

1783 Campus Delivery
Colorado State University
Fort Collins CO 80523-1783

More Information: <http://cwi.colostate.edu/ThePoudreRunsThroughIt/sessions.shtml>

54. Restoring the Cache la Poudre

Description: Ultimate goal is to restore the Cache la Poudre River to a healthy and vibrant condition. Includes actions related to Management Programs and Planning.

Activity Lead: Save the Poudre: Poudre Waterkeeper

Watershed: Cache la Poudre

Location: Primarily from the canyon mouth to the Fossil Creek. Point on the map is at the mouth of Poudre Canyon.

Activity Dates: Present

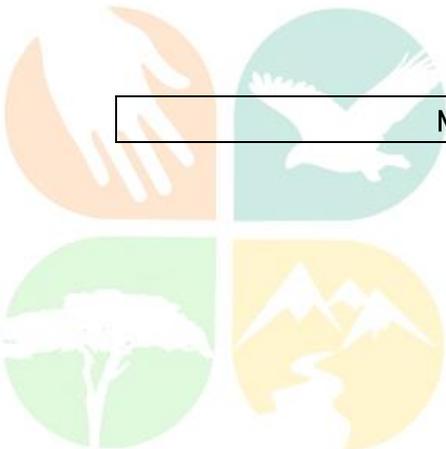
Contact:

John Bartholow
john.bartholow@savethepoudre.org
970-223-6488

Address:

PO Box 20
Fort Collins, CO 80522
Additional Contact Information:
Mark Easter
mark.easter@savethepoudre.org

More Information: <http://www.savethepoudre.org/>



55. River Basin Data Visualization

Description: The Open Water Foundation (OWF) has an initiative to visualize the Poudre and other rivers. We are developing web visualization tools for water data. Includes actions related to Management Programs and Planning.

Activity Lead: Open Water Foundation

Other Participants: Receive funding from the Colorado Water Conservation Board and other organizations. Work with the Colorado Water Institute

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is office located in Fort Collins.

Activity Dates: 2013-Present

Contact:
Steve Malers
steve.malers@openwaterfoundation.org
970-286-7462
Address:
322 East Vine Drive
Suite 315
Fort Collins, CO 80524

More Information: <http://openwaterfoundation.org/about-owf/owf-initiatives>

56. The Cache la Poudre River in Colorado's Colorful Water History

Description: This is a short course offered through Colorado State University's Osher Lifelong Learning Institute, aimed at learners from the general public who are "50 or better". The course is likely to be offered again in the future.

Activity Lead: Colorado State University

Watershed: Cache la Poudre

Location: Point on the map is office located at Colorado State University.

Activity Dates: 2012 and 2014, so far.

Contact:
Glenn Patterson
scampi162@gmail.com
303-747-2089
Address:
P.O. Box 473
Allenspark, CO 80510
Additional Contact Information:
Jean S. Morgenweck
Osher Lifelong Learning Institute
1040 Campus Delivery
Ft. Collins, CO 80523-1040
jean.morgenweck@colostate.edu
970-491-7753

More Information: <http://www.online.colostate.edu/courses/OSHR/OSHR1643.dot>



57. The Poudre Runs Through It

Description: Had 4 nights of lectures about the river from a variety of sources (all of which were videoed and replayed on public access), and then hosted 2 sessions of facilitated small group discussions on how best to address our water needs moving forward. Includes actions related to Convening.

Survey Completed by: Colorado State University Center for Public Deliberation

Activity Lead: Now led by the Colorado State University Water Institute.

Other Participants: Colorado State University Center for Public Deliberation, Colorado State University Water Institute, Northern Colorado Community Foundation

Watershed: Cache la Poudre

Location: Point on the map is office located at Colorado State University.

Activity Dates: 2011 – Present

Contact:

Martin Carcasson
cpd@colostate.edu
970-491-5628

Address:

1783 Campus Delivery
Colorado State University
Fort Collins CO 80523-1783

More Information: <http://cwi.colostate.edu/ThePoudreRunsThroughIt/sessions.shtml>

58. Water Resources Research Information (including drought & hydrology)

Description: A guide to water, drought, & hydrology research information for Colorado State University faculty, staff, students, and researchers.

Survey Completed by: Colorado State University Libraries

Activity Lead: Colorado State University Libraries

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is library located at Colorado State University.

Activity Dates: Unknown - Present

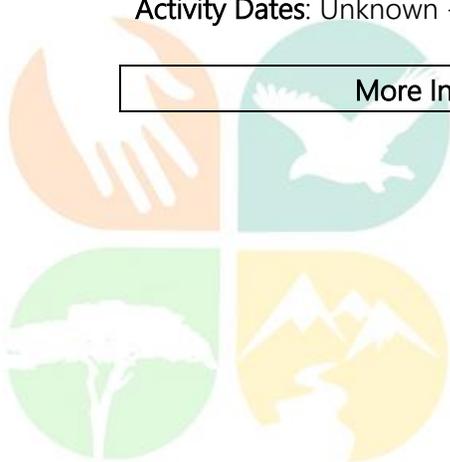
Contact:

Jocelyn Boice
jocelyn.boice@colostate.edu
970-491-3882

Address:

1019 Campus Delivery
Fort Collins, CO 80523-1019

More Information: <http://libguides.colostate.edu/waterresources>



59. Water Works Construction Document Project for Water Interpretation Center

Description: State Historic Fund project to create construction documents to develop the 4 buildings on the 23 acre Water Works property into a Northern Colorado Water Interpretation Center. Includes actions related to Public Amenities and Recreation.

Activity Lead: Poudre Landmarks Foundation

Other Participants: History Colorado State Historical Fund and Poudre Heritage Alliance provide funding. City of Fort Collins provides in-kind as property owner.

Watershed: Cache la Poudre

Location: Takes place at the historical Water Works 2005 N. Overland Trail Fort Collins

Activity Dates: 2014 - Present

Contact:

Jennifer Beccard
poudrelandmarks@gmail.com
970-221-0533

Address:

108 N. Meldrum St.
Fort Collins, CO 80521

More Information: <http://poudrelandmarks.org/>

60. Watershed Education

Description: The City of Fort Collins Utilities does public education through children's programs, walking tours in town, and bus tours in the upper reaches.

Activity Lead: City of Fort Collins Utilities

Watershed: Cache la Poudre

Location: Point on the map is office located in Fort Collins

Activity Dates: Unknown - Present

Contact:

Marcee Camenson
mcamenson@fcgov.com
970-224-6141

Address:

4316 Laporte Avenue
Fort Collins, CO 80521



61. Water Conservation

Description: Greeley Water and Sewer participates in public education of water conservation, through their membership in GreenCO, Colorado Waterwise, Colorado Foundation for Water Education, American Water Works Association, Irrigation Association & Alliance for Water Efficiency.

Activity Lead: Greeley Water and Sewer

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located in Greeley.

Activity Dates: Present

Contact:

Eric Reckentine
eric.reckentine@greeleygov.com
970-350-9815

Address:

1100 Tenth Street #300 Greeley, CO
80631

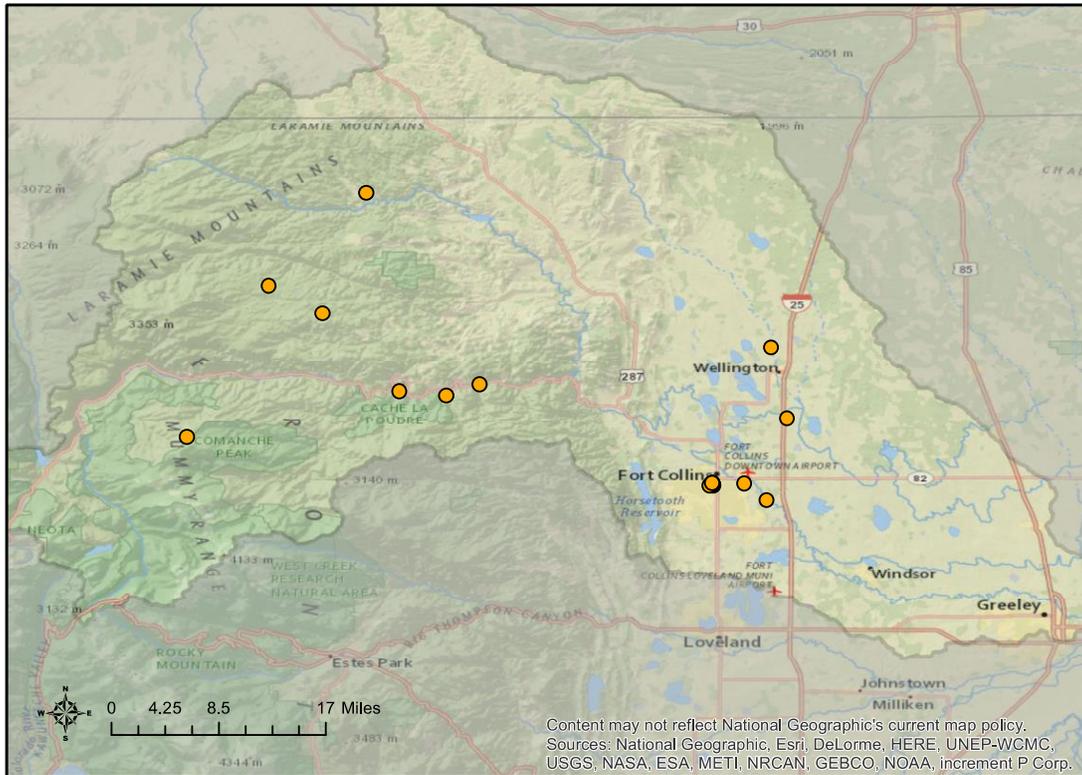
Additional Contact Information:

Ruth Quade
Ruth.Quade@greeleygov.com
970-350-9874

More Information: <http://greeleygov.com/Water/>



Research-for-Impact



62. Advanced Irrigation Scheduling

Description: Validating and demonstrating an cloud-based irrigation scheduler with several crops in area. Includes iPhone and android APPs. Includes actions related to Agricultural Management.

Activity Lead: Colorado State University

Watershed: Cache la Poudre

Location: Point on map is site north of Wellington.

Activity Dates: 2013 - Present

Contact:

Troy Bauder

troy.bauder@colostate.edu

Address:

Dept. Soil and Crop Sciences

Campus Delivery 1170

Colorado State University

Ft. Collins, CO 80523



63. Assessing Forest Conditions and Management Implications Following the Mountain Pine Beetle Outbreak

Description: The Colorado Forest Restoration Institute (CFRI) has produced summaries of current knowledge about forest conditions and fire risk in beetle-killed forests, and sponsored a conference in April 2010 to explore the future range of variability of beetle-killed lodgepole pine forests. Includes actions related to Management Programs and Planning.

Activity Lead: Colorado Forest Restoration Institute

Watershed: Both Cache la Poudre & Big Thompson

Location: CFRI will be working with the US Forest Service and researchers at the Natural Resource Ecology Lab at Colorado State University. Point on map is office located at Colorado State University.

Activity Dates: Present

Contact:

Tony Cheng
tony.cheng@colostate.edu
970-491-1900

Address:

Dept of Forest & Rangeland
Mail Delivery 1472;
Colorado State University
Fort Collins, CO 80523-1473

More Information: www.coloradoforestrestoration.org

64. Assessing the Ecological and Socio-Economic Impacts of Wildfires, Forest Restoration, and Wildfire Hazard Reduction Projects

Description: The Colorado Forest Restoration Institute (CFRI) works with various collaborative groups to compile, analyze, and interpret data and information about the ecological and socio-economic effects of forest restoration projects.

Ecological questions of interest generally include changes in forest and understory plant structure and composition, wildlife, and potential fire behavior. Includes actions related to Management Programs and Planning.

Activity Lead: Colorado Forest Restoration Institute

Watershed: Both Cache la Poudre & Big Thompson

Location: CFRI is housed in the Department of Forest & Rangeland Stewardship in the Warner College of Natural Resources at Colorado State University.

Activity Dates: Present

Contact:

Tony Cheng
tony.cheng@colostate.edu
970-491-1900

Address:

Dept of Forest & Rangeland
Mail Delivery 1472;
Colorado State University
Fort Collins, CO 80523-1473

More Information: www.coloradoforestrestoration.org



65. Birds and Mammals Along an Exurban Development Gradient

Description: We are evaluating how the density and configuration of residential development in rural lands impacts habitat use by birds and mammals.

Activity Lead: Colorado State University

Other Participants: Landowners and homeowners associations have provided permission and access to their land. All of these projects have been done in collaboration with a research scientist with the Wildlife Conservation Society.

Watershed: Cache la Poudre

Location: Point on the map is office located at Colorado State University. Because all of our research occurs on private land, we are not able to provide the specific locations of our study sites. In general, our study areas are in the foothills and plains of Larimer County, within conservation and conventional subdivisions and in and around low density rural development.

Activity Dates: 2012 - present

Contact:

Liba Pejchar
liba.pejchar@colostate.edu
970-491-1819

Address:

Campus Delivery 1474
Department of Fish, Wildlife and
Conservation Biology
Fort Collins, CO 80523

More Information: <http://cd.colostate.edu>

66. Colorado Department of Natural Resources Wildfire Risk Reduction Grant Program - Effectiveness Monitoring

Description: The Colorado Forest Restoration Institute (CFRI) was selected to develop and administer a rigorous, yet efficient, effectiveness monitoring program for the Wildfire Risk Reduction Grant Program. The CFRI team identified a rapid assessment protocol that measures fuel loads pre and post-treatment. Data are entered and analyzed in the Fuels Characteristic System (FCCS) for hazard ratings and estimated fire behavior.

Activity Lead: Colorado Forest Restoration Institute

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located at Colorado State University.

Activity Dates: Present

Contact:

Tony Cheng
tony.cheng@colostate.edu
970-491-1900

Address:

Dept of Forest & Rangeland
Mail Delivery 1472;
Colorado State University
Fort Collins, CO 80523-1473

More Information: www.coloradoforestrestoration.org

67. Colorado Water Institute

Description: The mission of the Colorado Water Institute is to connect all of Colorado's higher education expertise to the research and education needs of Colorado water managers and users. Includes actions related to Public Education.

Activity Lead: Colorado Water Institute

Other Participants: Colorado State University

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located at Colorado State University.

Activity Dates: Present

Contact:

Reagan Waskom
CWI@ColoState.edu
970-491-6308

Address:

E102 Engineering
1033 Campus Delivery
Fort Collins, CO 80523

More Information: <http://www.cwi.colostate.edu/default.asp>

68. Conservation Tillage and Irrigation Management

Description: Tillage and irrigation management to reduce soil erosion and nutrient losses in surface irrigation. Includes actions related to Land and Soil Conservation.

Activity Lead: Colorado State University

Other Participants: Fort Collins Conservation District, Natural Resources Conservation Service (USDA-NRCS) farmers

Watershed: Cache la Poudre

Location: At ARDEC research facility located at 4616 NE Frontage Road Fort Collins, CO 80524

Activity Dates: 2011 - Present

Contact:

Troy Bauder
troy.bauder@colostate.edu

Address:

Dept. Soil and Crop Sciences
Campus Delivery 1170
Colorado State University
Ft. Collins, CO 80523

More Information: www.conservationtillage@colostate.edu



69. Colorado State University Water Center

Description: The Colorado State University Water Center catalyzes excellence in water research, teaching, and engagement by fostering interdisciplinary collaboration and

Other Participants: Colorado Water Institute

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is office located at Colorado State University.

Activity Dates: Present

Contact:

Reagan Waskom
CWI@ColoState.edu
970-491-6308

Address:

E102 Engineering
1033 Campus Delivery
Fort Collins, CO 80523

More Information: <http://watercenter.colostate.edu/>

70. Ecological Research

Description: Laurie Huckaby and colleagues have multiple projects in both watersheds; hers are primarily ecological histories of fire, insects and human land use along elevational and latitudinal gradient based on dendrochronology. Laurie has two 1000-year tree-ring chronologies for the area. Includes actions related to Management Programs and Planning.

Activity Lead: US Forest Service, Rocky Mountain Research Station

Other Participants: Different projects have different collaborators. National Forest Systems and Colorado State University are our primary collaborators, as well as Larimer County, The Nature Conservancy and the City of Fort Collins.

Watershed: Both Cache la Poudre & Big Thompson

Location: There are several study areas with multiple plots, located on USFS land and on other public lands. There is fire history in mixed conifer and in montane ponderosa pine forest, insect history in lodgepole pine around Crown Point. Point on map is at Crown Point.

Activity Dates: 2003-present

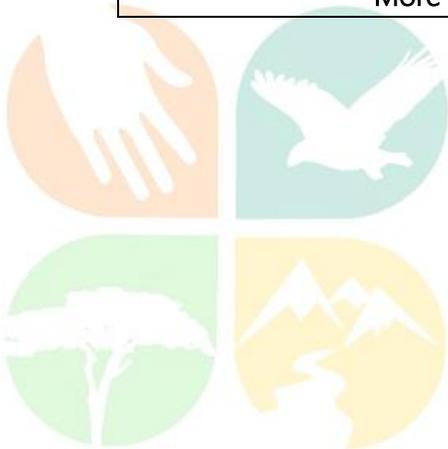
Contact:

Laurie Huckaby
lhuckaby@fs.fed.us
(970) 498-1298

Address:

240 W. Prospect Rd
Fort Collins CO 80526

More Information: <http://www.fs.fed.us/rm/forest-woodland/>



71. Ecological Response Model (ERM)

Description: The ERM is a scientific model of the Poudre River ecosystem aimed at improving our understanding of current and potential future ecological conditions of the river based on key drivers and integrated modeling approach.

Activity Lead: City of Fort Collins: Natural Areas

Other Participants: Colorado State University, The Nature Conservancy, U.S. Forest Service

Watershed: Cache la Poudre

Location: Point on the map is office located in Fort Collins.

Activity Dates: 2011-present

Contact:

Jen Shanahan

jshanahan@fcgov.com

970-221-6281

Address:

1745 Hoffman Mill Rd

Fort Collins CO 80521

72. Fisheries Research - Fisheries Surveys

Description: Electrofishing the same general reaches of the Poudre River each fall as part of the FW204 course at Colorado State University. Students collect, weigh, measure, and ID the fish captured, providing us with a long-term record of fish population size and composition at the location. Includes actions related to Public Education.

Activity Lead: Colorado State University

Other Participants: Colorado Parks and Wildlife receives copies of collection data, and provide the collection permits.

Watershed: Cache la Poudre

Location: Point on map is Environmental Learning Center at Colorado State University

Activity Dates: 2000 - Present

Contact:

Christopher Myrick

chris.myrick@colostate.edu

(970) 491-5657

Address:

Dept of Fish, Wildlife, and

Conservation Biology

Campus Delivery 1474

Fort Collins CO 80523-1474

More Information: <http://www.colostate.edu>



73. Front Range Forest Reconstruction Network

Description: The Front Range Forest Reconstruction Network (FRFRNet) is a network of forest inventory plots designed to capture pre-settlement forest structure, stand spatial patterns, species composition, and fire history to be used as guidance for dry forest restoration. Includes actions related to Upland Restoration.

Activity Lead: Colorado Forest Restoration Institute

Other Participants: US Forest Service Rocky Mountain Research Station and Rocky Mountain Tree Ring Research scientists are equally involved in the research project.

Watershed: Both Cache la Poudre & Big Thompson

Location: Study areas are: Young Gulch, Crosier Mountain, Lady Moon, Red Feather, Cherokee Park

Activity Dates: 2012

Contact:

Benjamin Gannon
bengannon@gmail.com
207-907-0544

Address:

1472 Campus Delivery
Fort Collins, CO 80523

More Information: <http://coloradoforestrestoration.org/>

74. Fuel Treatment Optimization

Description: Develop a landscape fuel treatments planning model to optimally design fuel treatment layouts to mitigate fire risk.

Survey Completed by: Colorado State University

Activity Lead: Colorado State University

Watershed: Cache la Poudre

Location: Point on map is office located at Colorado State University.

Activity Dates: 2011 - Present

Contact:

Yu Wei
yu.wei@colostate.edu
970-491-2959

Address:

Dept of Forest & Rangeland
Mail Delivery 1472;
Colorado State University
Fort Collins, CO 80523-1473



75. High Park Fire NSF project

Description: This research examines controls on post-fire erosion, sediment transport, and channel change. Ongoing monitoring includes precipitation, stream stage, erosion, and channel morphology. Includes actions related to Monitoring.

Activity Lead: Colorado State University

Watershed: Cache la Poudre

Location: Throughout High Park Fire, with focus on Skin Gulch and Hill Gulch.

Activity Dates: 2012 - Present

Contact:

Stephanie Kampf
stephanie.kampf@colostate.edu
970-491-0931

Address:

Colorado State University
1476 Campus Delivery
Fort Collins, CO 80523

More Information: <http://hpfproject.wordpress.com/>

76. Mapping by the Geospatial Centroid

Description: A GIS layered map has been produced for the Cache la Poudre Watershed.

Activity Lead: Geospatial Centroid; Colorado State University

Watershed: Cache la Poudre

Location: Point on map is office located at Colorado State University.

Activity Dates: Unknown - Present

Contact:

Melinda Laituri
melinda.laituri@colostate.edu
(970) 491-0292

Address:

Ecosystem Science and Sustainability
1476 Campus Delivery
Fort Collins, CO 80523-1476

Additional Contact Information:

Sophia Linn
Sophia.Linn@colostate.edu

More Information: <http://gis.colostate.edu/>
http://centroid1.warnercnr.colostate.edu/flexviewers/clp_watershed/



77. Monitoring Instream Sediment, South Fork Cache la Poudre

Description: Monitoring instream sediment, South Fork Cache la Poudre. Includes actions related to Monitoring.

Activity Lead: US Forest Service Rocky Mountain Research Station, Collaboration with Colorado State University (Rathburn)

Other Participants: Funding from National Fire Plan, City of Fort Collins, and City of Greeley

Watershed: Cache la Poudre

Location: Main site is near 40 deg 37' 19.7" N and 105 deg 31" 25" W. Additional sites are being added in collaboration with other research projects.

Activity Dates: Pre-fire: 1989 and 1997. Post-fire: 2013-Present. Post-flood: 2014-Present

Contact:

Sandra Ryan
sryanburkett@fs.fed.us
970-498-1015

Address:

240 W. Prospect Rd
Fort Collins CO 80526

More Information: <http://www.fs.fed.us/rmrs/>

78. National Science Foundation Sponsored Research - "EVOTRAC"

Description: Looking at the benthic invertebrate communities and genetic structure of 18 headwater (wadeable) streams from 2000 m elevation to 3300 m elevation across both watersheds. Also examining the impacts of the 2013 flood on a subset of these stream systems.

Activity Lead: Colorado State University

Other Participants: Cornell University - co-PIs, post-docs, grad students University of Nebraska - co-PI, grad students

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located at Colorado State University.

Activity Dates: 2010 - present

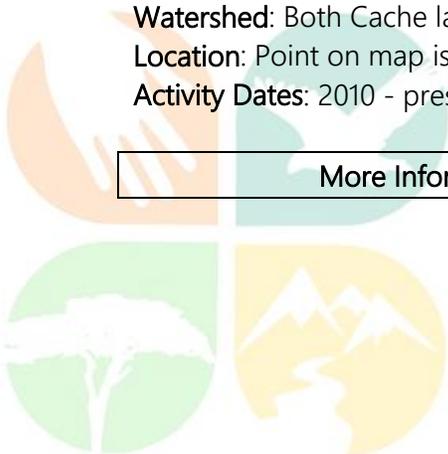
Contact:

N. LeRoy Poff
poff@lamar.colostate.edu
970-491-2079

Address:

Department of Biology
Fort Collins, CO 80523

More Information: <http://www.eeb.cornell.edu/evotrac/Welcome.html>



79. Post Fire Mulch Impacts on Plants and Soils

Description: Following the High Park Fire, mulch was applied to experimental plots in the drainage of the Little South Fork of the Poudre in order to determine effects of post-fire mulching on plant community regeneration and soil nutrient cycling. This is important for identifying possible trade-offs between improving water quality of the Poudre post-fire (by mulching which reduces erosion) and ecological recovery of burned areas (mulch may hinder forest recovery). Includes actions related to Land and Soil Conservation.

Survey Completed by: Colorado State University

Activity Lead: US Forest Service Rocky Mountain Research Station

Other Participants: University of Idaho: research collaborator (Dr. Penelope Morgan)

Watershed: Cache la Poudre

Location: High Park Fire burn area, Roosevelt National Forest, Northern CO

Activity Dates: 2012 – Present

Contact:

Erin Berryman
erin.berryman@colostate.edu
970-491-7091

Address:

1472 Campus Delivery
Fort Collins, CO 80523

More Information:

http://warnercnr.colostate.edu/~berryman/CSU_Home_Page/Research/Entries/2013/5/2_Soil_and_plant_responses_to_post-fire_mulching.html

80. Post-High Park Fire Research

Description: Evaluate post-fire controls and mechanisms of sediment delivery to the South Fork Cache la Poudre River. Involves paired watersheds within the South Fork basin and event-based monitoring to evaluate the effectiveness of mulch and the controls on sediment delivery downstream. Includes actions related to Monitoring.

Activity Lead: Colorado State University

Other Participants: City of Fort Collins, City of Greeley, US Forest Service Rocky Mountain Research Station

Watershed: Cache la Poudre

Location: Point on map is at South Fork of the Cache la Poudre River.

Activity Dates: 2013

Contact:

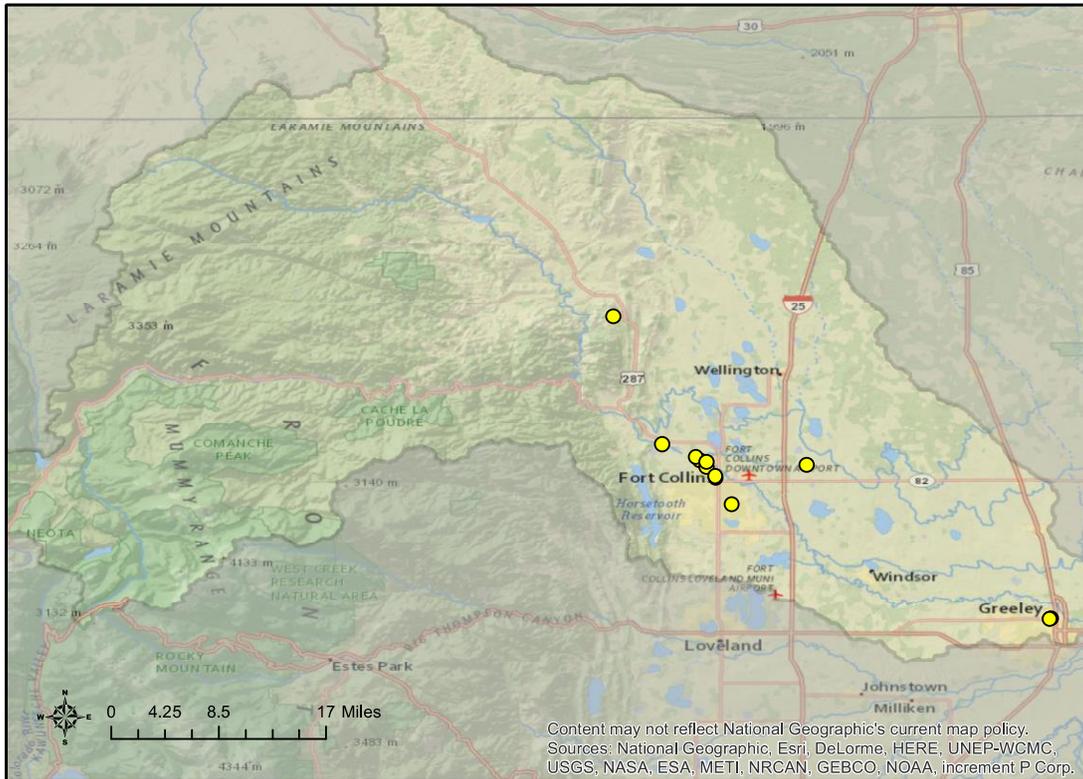
Sara L Rathburn
rathburn@cnr.colostate.edu
970-491-6956

Address:

Dept Geosciences
1482 Campus Delivery
Colorado State University
Fort Collins, CO 80523-1482

More Information: <http://blogs.warnercnr.colostate.edu/fluvial-grads/>

Riparian/Stream Restoration



81. Bank Stabilization

Description: Lay back river banks and incorporate a rock/soil mixture and replant to reduce bank erosion and create a riparian corridor.

Activity Lead: Larimer County Natural Resources

Other Participants: Greeley Water and Sewer

Watershed: Cache la Poudre

Location: Lions Park in Laporte, CO and Greeley Poudre River Trail Starting at River Bluffs Open Space Trailhead

Activity Dates: 2012-Present

Contact:

Jeffrey Boring

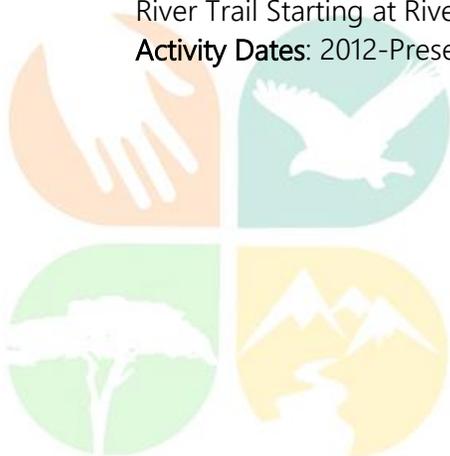
jboring@larimer.org

970-619-4569

Address:

1800 South County Road 31

Loveland CO 80537



82. County Road and Bridge Reconstruction

Description: Reconstruction of infrastructure that was eroded and destroyed in Sept 2013 floods. Includes actions related to Management Programs and Planning.

Activity Lead: Larimer County, City of Greeley is coordinating

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located in Fort Collins.

Activity Dates: 2013-Present

Contact:

Suzanne Bassinger
sbassinger@larimer.org

970-498-7148

Address:

200 W. Oak Street
Fort Collins CO 80521

Additional Contact Information:

Rusty McDaniels
rmcdaniels@larimer.org

970-498-5730

More Information: www.larimer.org

83. Greeley Poudre Corridor Initiative

Description: Regional Great Outdoors Colorado (GOCO) grant for trail development, bike paths, securing easements, etc. Includes actions related to Public Amenities & Recreation.

Activity Lead: Greeley Water & Sewer

Watershed: Cache la Poudre

Location: Point on map is office located in Greeley.

Activity Dates: Present

Contact:

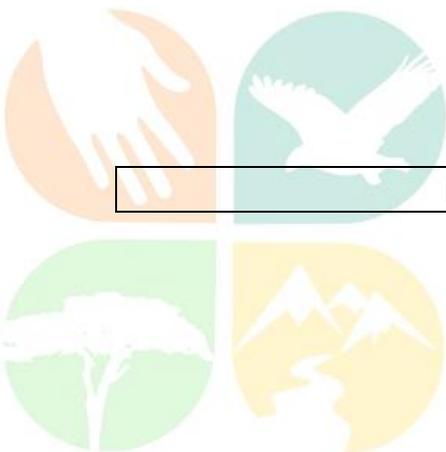
Eric Reckentine
eric.reckentine@greeleygov.com

970-350-9815

Address:

1100 Tenth Street #300 Greeley, CO
80631

More Information: <http://greeleygov.com/Water/>



84. Josh Ames Diversion Dam Removal Project

Description: In partnership with the City of Fort Collins, removed an abandoned diversion structure from the mainstem Poudre just upstream of the Shield St. Bridge. Fort Collins took the lead on floodplain restoration at the dam site. The removal also included lowering of the north bank of the Poudre to connect to the floodplain and re-create historic wetlands.

Activity Lead: Colorado Water Trust

City of Fort Collins Natural Areas led on floodplain restoration

Other Participants: Northern Colorado Craft Breweries Water Group and Colorado Water Conservation Board supplied donations

Watershed: Cache la Poudre

Location: The Josh Ames Diversion was just upstream of the North Shields Avenue Bridge. The structure was unused for 30 years. The concrete diversion stretched from bank to bank, creating a dam approximately six feet high.

Activity Dates: 2013

Contact:

Zach Smith
zsmith@coloradowatertrust.org
720-570-2897

Address:

1420 Ogden Suite A2
Denver, CO 80218

More Information: <http://www.coloradowatertrust.org/our-work/projects/josh-ames-diversion-dam-deconstruction/>

85. Poudre River and Screech Owl Restoration

Description: Throughout the City, stream corridors have been degraded or even eliminated over the past century, leaving much of the historic plains riparian (i.e., streamside) plant community severely altered. On this project, volunteers helped to stabilize eroding banks, plant native shrubs and trees, and restore habitat for the elusive Eastern Screech Owl.

Activity Lead: Wildlands Restoration Volunteers

Watershed: Cache la Poudre

Location: monitor Eastern Screech-Owls along the Cache la Poudre River in Fort Collins, Colorado. 40.603739, -105.097343

Activity Dates: 2014

Contact:

Amy Gage
amyg@wlr.org
970-493-2075

Address:

503 Remington St. Suite 301
Fort Collins, CO 80524

More Information:

<https://www.wlr.net/index.php?section=events&action=list&type=projects#event1365>

86. Redevelopment Financing of Woodward Inc. Headquarters Site Natural Area Restoration

Description: Natural area restoration and river bank stabilization in conjunction with development of corporate headquarters on adjacent property. Includes actions related to Public Amenities and Recreation.

Survey Completed by: Fort Collins Downtown Development Authority

Activity Lead: City of Fort Collins Natural Areas

Other Participants: Woodward Inc. - donor of 31 acre natural area site

Watershed: Cache la Poudre

Location: 31 acres of the Woodward Technology Campus located Mulberry avenues west of Lemay Avenue

Activity Dates: 2013-2014

Contact:

Matt Robenalt
mrobenalt@fcgov.co
m 970-416-8367

Address:

19 Old Town Square
Suite 230
Fort Collins CO 80524

More Information: Fort Collins DDA 2013 Year

In Review (page 4 & page 5) <http://www.downtownfortcollins.org/docs/2013-DDA-YIR-FINAL.pdf>

87. Restoration

Description: Restoring intact ecosystems & watersheds post-fire & post-flood.

Includes actions related to Public Education.

Activity Lead: Colorado Trout Unlimited Rocky Mt. Flycasters Chapter

Other Participants: Several

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located in Fort Collins.

Activity Dates: 2013-present

Contact:

Bob Streeter
Rgstreeter@gmail.com
970-222-0383

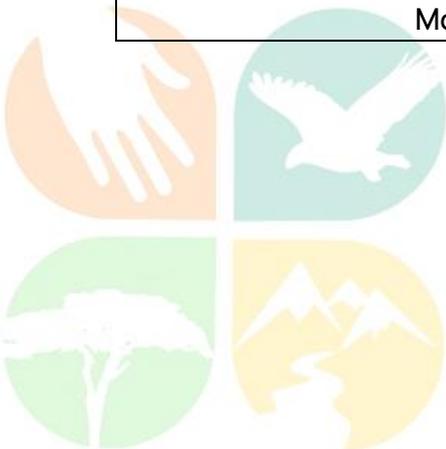
Address:

929 Coho Run
Fort Collins, CO 80524

Additional Contact Information:

Dick Jefferies, president

More Information: Rocky Mountain Flycasters Chapter



88. River and Riparian Restoration

Description: Three major restoration efforts in Fort Collins area of Poudre. Lowering steep banks, reconnecting river with floodplain habitats, restoring mosaic of riparian habitats, removal of Josh Ames Dam to reconnect aquatic connectivity. Includes actions related to Upland Restoration.

Activity Lead: City of Fort Collins: Natural Areas

Other Participants: Sterling and McMurry are led by City of Fort Collins Natural Areas Department. Woodward is a collaborative effort including Downtown Development Authority and Woodward Inc.

Watershed: Cache la Poudre

Location: Sterling, McMurry, and Woodward

Activity Dates: 1992 – Present

Contact:

Jen Shanahan
jshanahan@fcgov.com
970-221-6281

Address:

1745 Hoffman Mill Rd
Fort Collins CO 80521

Additional Contact Information:

Rick Bachand
rbachand@fcgov.com
970-416-2183

89. River Cleanups

Description: These activities work to improve the natural health of the Poudre through volunteer cleanups of trash along the riparian areas. Includes actions related to Public Education.

Activity Lead: Friends of the Poudre

Watershed: Cache la Poudre

Location: Point on map is PO Box in LaPorte.

Activity Dates: Unknown

Contact:

Gary Kimsey
poudfriends@aol.com

Address:

P.O. Box 129
LaPorte, CO 80535

More Information: www.friendsofthepoudre.com



90. River Restoration Coalitions

Description: Master planning efforts to identify impacts to Big Thompson and Poudre rivers, determine restoration needs, and plan for mitigation activities. Includes actions related to Management Programs and Planning.

Survey Completed by: Larimer County

Activity Lead: Coalition for the Poudre River Watershed; Big Thompson River Restoration Coalition

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is office located in Fort Collins.

Activity Dates: 2012-Present

Contact:

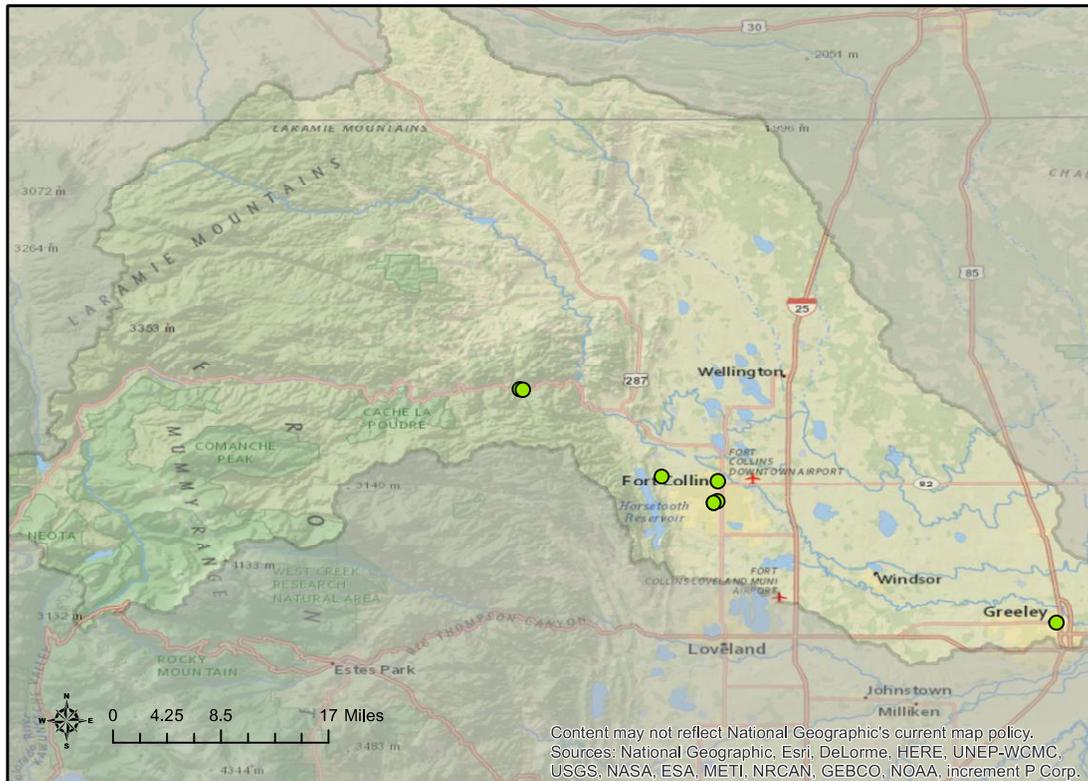
Suzanne Bassinger
sbassinger@larimer.org
970-498-7148

Address:

200 W. Oak Street Fort
Collins CO 80521



Upland Restoration



91. Canyon Lakes Road Obliteration

Description: This project is intended to close and restore the highest priority degraded roads in the Canyon Lakes Ranger District in Larimer County. By decompacting, recontouring, stabilizing, and revegetating 12 miles of roads in three years, this ongoing project is intended to improve the quality of the watershed, improve habitat, and enhance water quality within Colorado's only National Wild and Scenic River; the Cache la Poudre.

Activity Lead: Wildlands Restoration Volunteers

Other Participants: US Forest Service

Watershed: Cache la Poudre

Location: Canyon Lakes Ranger District in Larimer County

Activity Dates: 2014 - Present

Contact:

Amy Gage
amyg@wlv.org
970-493-2075

Address:

503 Remington St. Suite 301
Fort Collins, CO 80524

Additional Contact Information:

Jason Chambers
jason@wlv.org
970-493-2075

More Information:

<https://www.wlv.net/index.php?section=events&action=list&type=projects#event1287>

92. Ecological Land Management

Description: Weed control, revegetation, erosion control.

Activity Lead: Larimer County Natural Resources

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located in Loveland.

Activity Dates: 1996 – Present

Contact:

Jeffrey Boring
jboring@larimer.org
970-619-4569

Address:

1800 South County Road 31
Loveland CO 80537

More Information: <http://www.larimer.org/naturalresources/>

93. Flood Recovery

Description: Repair of roads and recreation facilities damaged during the 2013 Flood had direct and indirect impacts to both watersheds. Includes actions related to Riparian/Stream Restoration.

Activity Lead: US Forest Service

Other Participants: Colorado Department of Transportation (CDOT), Central Federal Lands, Larimer County, multiple other NGOs

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located in Fort Collins.

Activity Dates: 2013 – present

Contact:

Richard Edwards
rsedwards@fs.fed.us
970-295-6711

Address:

2150 Centre Ave. Building E Fort
Collins, CO 80526

Additional Contact Information:

Lori Bell
2150 Centre Ave. Bldg E
Fort Collins, CO 80526
labell@fs.fed.us
970-295-6841

More Information: <http://www.fs.usda.gov/detail/arp/home/?cid=STELPRDB5436135>



94. Forest Thinning

Description: Removal of beetle-kill ponderosa pine trees, trees affected by mistletoe or dog-haired stands of trees to improve forest health and reduce fire danger.

Includes actions related to Land and Soil Conservation.

Activity Lead: Larimer County Natural Resources

Other Participants: Colorado State Forest Service funds this work.

Watershed: Both Cache la Poudre & Big Thompson

Location: Hermit Park, Horsetooth Mountain and Carter Lake

Activity Dates: 2005-Present

Contact:

Jeffrey Boring
jboring@larimer.org
970-619-4569

Address:

1800 South County Road 31
Loveland CO 80537

Additional Contact Information:

Meegan Flenniken
Flennim@co.larimer.co.us
970-679-4562

More Information: <http://www.larimer.org/naturalresources/>

95. High Park Post-Fire Restoration

Description: Through the use of mulching, erosion control techniques, tree removal, and reseedling, Wildlands Restoration Volunteers has treated over 200 acres of land within the High Park burn area. These efforts have helped to protect the Cache la Poudre watershed from damaging erosion and have facilitated natural recovery. This Includes actions related to Land and Soil Conservation.

Activity Lead: Wildlands Restoration Volunteers

Other Participants: Colorado Poudre River Watershed

Watershed: Cache la Poudre

Location: Point on the map is located at High Park burn area.

Activity Dates: 2012 - present

Contact:

Amy Gage
amyg@wlr.org
970-493-2075

Address:

503 Remington St. Suite 301
Fort Collins, CO 80524

Additional Contact Information:

Jason Chambers
503 Remington St. Suite 301 Fort
Collins, CO 80524
jason@wlr.org

More Information:

<https://www.wlr.net/index.php?section=events&action=list&type=projects#event1473>



96. Post Fire Erosion Mitigation

Description: Seeding, mulching, contour log felling, wattles, sediment traps. Reduce erosion and runoff. Includes actions related to Riparian/Stream Restoration.

Activity Lead: USDA-NRCS

Other Participants: Cities of Greeley and Fort Collins, Larimer County, Northern Water as sponsors and participants in EWP. Private landowners as participants in the WHIP.

Watershed: Cache la Poudre

Location: Points on the map are located at the Hewlett and High Park Fire burn scars.

Activity Dates: 2012 – present

Contact:

John Fusaro
john.fusaro@co.usda.gov
970-295-5658

Address:

2150 Centre Ave.
Bldg. A, Suite 116
Fort Collins CO 80526

More Information: <http://www.nrcs.usda.gov/wps/portal/nrcs/site/co/home/>

97. Post Fire Wood Mulching - High Park Fire Area

Description: Aerial mulching to retard soil erosion and enhance post-fire revegetation in burn area. Activity includes Land and Soil Conservation.

Activity Lead: Larimer County, City of Greeley is coordinating

Other Participants: City of Fort Collins, and City of Greeley fund locations directly tributary to Poudre River.

Watershed: Cache la Poudre

Location: High Park Fire burn area

Activity Dates: 2012-2014

Additional Contact Information:

Rusty McDaniels
200 W. Oak Street
Fort Collins, CO 80522
rmcdaniels@larimer.org
970-498-5730

Contact:

Suzanne Bassinger
sbassinger@larimer.org
970-498-7148

Address:

200 W. Oak Street Fort
Collins CO 80521

More Information: www.larimer.org

98. Post-Fire Rehabilitation

Description: Provides information and resources about how to make post-fire rehabilitation decisions.

Activity Lead: Colorado State Forest Service

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is office located in Fort Collins.

Activity Dates: Present

Contact:

Boyd Lebeda
boyd.lebeda@colostate.edu
970-491-8445

Address:

5060 Campus Delivery
Fort Collins, CO 80523-5060

99. Rare Plant Surveys, Vegetation Monitoring, Restoration Planning, and Research

Description: Rare plant surveys, vegetation monitoring, restoration planning, and research.

Includes actions related to Riparian/Stream Restoration.

Activity Lead: AloTerra Restoration Services, LLC

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on the map is Po Box in Fort Collins

Activity Dates: 2010-present

Contact:

John Giordanengo
john@aloterraservices.com
970-420-7346

Address:

PO Box 212
Fort Collins CO 80522

More Information: www.aloterraservices.com



100. Vegetation Management

Description: The Canyon Lakes District implements approximately 5,000 acres per year of hazardous fuels management (thinning, prescribed fire) and timber management (timber sales). All of these activities directly or indirectly affect these river systems.

Activity Lead: US Forest Service

Other Participants: West Range Reclamation is the primary contractor performing vegetation management work. Prescribed fires are performed by the US Forest Service

Watershed: Both Cache la Poudre & Big Thompson

Location: The Canyon Lakes Ranger District is part of the Arapaho and Roosevelt National Forest and Pawnee National Grassland

Activity Dates: Unknown - Present

Contact:

Richard Edwards
rsewards@fs.fed.us
970-295-6711

Address:

2150 Centre Ave. Building E
Fort Collins, CO 80526

More Information: <http://www.fs.usda.gov/projects/arp/landmanagement/projects>

101. Wildfire Mitigation

Description: Colorado State Forest Service personnel serve as resources for landowners, homeowners and communities to ensure that they have the knowledge to fully prepare for future wildfires.

Activity Lead: Colorado State Forest Service

Watershed: Both Cache la Poudre & Big Thompson

Location: Points on the map are located at the Hewlett and High Park Fire burn scars.

Activity Dates: Present

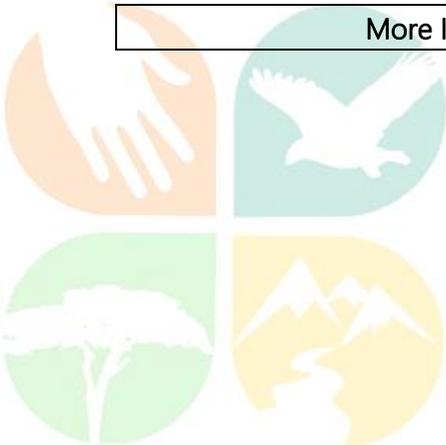
Contact:

Boyd Lebeda
boyd.lebeda@colostate.edu
970-491-8445

Address:

5060 Campus Delivery
Fort Collins, CO 80523-5060

More Information: www.csfs.colostate.edu/pages/wildfire.html



102. Wildfire Mitigation: Greeley Water and Sewer

Description: Following Hewlett Gulch and High Park wildfires, Greeley partnered with Ft. Collins, Tri-Districts and others, to treat the most severely burned hillsides. Funding was shared and supplemented by NRCS grants. Includes actions related to Water Supply, Diversion, Storage, and Treatment.

Survey Completed by: Greeley Water and Sewer

Activity Lead: Greeley, Ft. Collins, and Larimer County

Other Participants: Greeley, Ft. Collins, Larimer County

Watershed: Cache la Poudre

Location: Point on map is office located at Colorado State University.

Activity Dates: 2012 - Present

Contact:

Eric Reckentine

eric.reckentine@greeleygov.com

970-350-9815

Address:

1100 Tenth Street #300 Greeley, CO

80631

More Information: <http://greeleygov.com/Water/>



Water Discharge, Wastewater, Stormwater Water Supply, Diversion, Storage & Treatment



103. Water Quality Monitoring

Description: Water quality assessment.

Survey Completed by: City of Greeley Water and Sewer

Activity Lead: Lower Poudre River Monitoring Group

Other Participants: City of Fort Collins, South Fort Collins Sanitation Districts, Carestream Health, Inc, City of Windsor, and Leprino Foods

Watershed: Cache la Poudre

Location: Point on the map is office located in Greeley.

Activity Dates: 2000 – Present

Contact:

Joe Kunovic

Joe.Kunovic@greeleygov.com

(970) 350-9363

Address:

Industrial Pretreatment Supervisor

Greeley WPCF

300 East 8th Street

Greeley, CO 80631

Additional Contact Information:

Keith Elmund

kelmund@fcgov.com

104. Ditch Company Operations

Description: Operation of ditch companies diverting water from the Poudre River. Includes actions related to Agricultural Management.

Survey Completed by: City of Thornton

Activity Lead: Water Supply and Storage Company, Jackson Ditch Company, associated lateral companies

Watershed: Cache la Poudre

Location: Point on map is office located in Thornton.

Activity Dates: 1985 - present

Contact:
Mark Koleber
mark.koleber@cityofthornton.net
303-255-7790
Address:
9500 Civic Center Dr.
Thornton, CO 80229

105. Greeley Water

Description: Greeley provides drinking water, stormwater and wastewater services to approx. 100,000. The Poudre River provides approximately 25% of Greeley's water supply. Its health is of primary importance to Greeley.

Activity Lead: Greeley Water and Sewer

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located in Greeley.

Activity Dates: Present

Contact:
Eric Reckentine
eric.reckentine@greeleygov.com
970-350-9815
Address:
1100 Tenth Street #300 Greeley, CO
80631

More Information: <http://greeleygov.com/Water/>

106. High Park Fire Restoration

Description: Identifying, planning and implementing watershed protection measures designed to minimize impacts of the High Park Fire on water supply in the Poudre. Includes actions related to Upland Restoration.

Survey Completed by: JW Associates

Activity Lead: Greeley Water

Other Participants: City of Fort Collins, Natural Resources Conservation Service (NRCS), Larimer County

Watershed: Cache la Poudre

Location: High Park Fire burn area: Roosevelt National Forest

Activity Dates: 2012 - Present

Contact:
Brad Piehl
bpiehl@jw-associates.org
Address:
PO Box 3759
431 Silver Circle Breckenridge,
CO 80424

More Information: <http://www.jw-associates.org/highparkfire.html>

107. Poudre Basin Water Sharing Working Group

Description: Evaluating practical options to share water between municipal and agricultural water users.

Survey Completed by: Open Water Foundation

Activity Lead: Colorado Water Institute, Colorado State University

Other Participants: Colorado State University, City of Greeley Water and Sewer, City of Fort Collins Water Utility, Open Water Foundation, and Lawrence Jones Custer Grasmick LLP

Watershed: Both Cache la Poudre & Big Thompson

Location: Point on map is office located in Fort Collins

Activity Dates: 2013 – Present

Contact:
Steve Malers
steve.malers@openwaterfoundation.org
970-286-7462
Address:
321 East Vine Drive
Suite 315
Fort Collins CO 80524

More Information: <http://www.cwi.colostate.edu/thepoudrerunsthroughit/sharinggroup/>

108. Water Administration

Description: Administer the waters of the Cache la Poudre Basin, compile records of water diversion and use, and provide information pertaining to water availability and use to the public.

Activity Lead: Colorado Division of Water Resources

Watershed: Cache la Poudre

Location: Point on map is office located in Loveland.

Activity Dates: 1881 - Present

Contact:
Mark Simpson
mark.simpson@state.co.us
970-420-9568
Address:
951 Wheatridge Ct
Loveland, CO 80537

More Information: www.water.state.co.us



109. Water Diversion

Description: Diversion of water from the Poudre River for irrigation of agricultural land

Activity Lead: New Cache La Poudre Irrigating Company

Other Participants: Cache La Poudre Reservoir Company

Watershed: Cache la Poudre

Location: Point on the map is PO Box in Lucerne.

Activity Dates: Present

Contact:

Dale Trowbridge
dale@newcache.com

Address:

PO Box 104 Lucerne,
CO 80646



Information Inventory

Please note: The following section contains all the sources of information provided to us through our survey and data collection efforts. We emphasize that this list is by no means comprehensive, and simply reflects the responses we received from survey participants. For more complete lists of information, we recommend the reference hubs (listed in the section below) for information sources. Specifically, the Poudre Wiki (#2) and Poudre River Reference List (#4) provide reports, papers, research and history of the Poudre.



Reference Hub

1. Colorado Water Newsletter

Description: Colorado Water is a publication of the Water Center at Colorado State University. The newsletter is devoted to enhancing communication between Colorado water users, managers, and faculty at the state's research universities.

Information Lead: Colorado Water Institute

Other Participants: Many of Colorado's research institutes make contributions.

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Ongoing

Date(s) Information was created: 1998 - Present
Bimonthly

Includes Maps: Yes

Includes Modeling: Yes

Information Form: Newsletter

Contact:

Reagan Waskom
CWI@ColoState.EDU
970-491-6308

Address:

E102 Engineering
1033 Campus Delivery
Fort Collins, Colorado 80523

Information Access: http://www.cwi.colostate.edu/current_newsletter.asp

2. Poudre Wiki

Description: The Wiki was established to pull together website and other information related to the Poudre, an attempt at one-stop-shopping.

Information Lead: Morgan Library; Colorado State University

Watershed: Cache la Poudre

Data Collection Status: Ongoing

Date(s) Information was Created: 2012

Includes Maps: Yes

Information Form: Online Reference

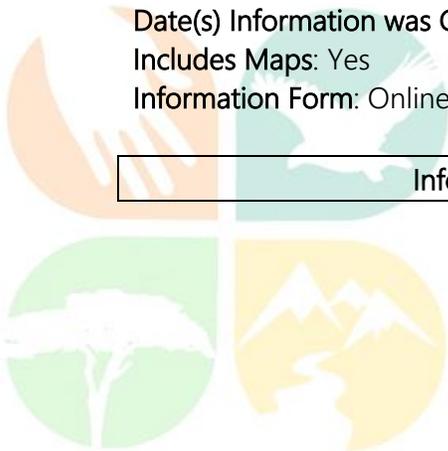
Contact:

Patricia Rettig
Patricia.Rettig@colostate.edu
970-491-1939

Address:

1201 Central Avenue Mall
Fort Collins, CO 80523

Information Access: <http://poudre.library.colostate.edu>



3. Published Literature Search Tool

Description: This is a search tool to find publications and reports specific to Colorado water issues.

Information Lead: Colorado Water Institute

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Ongoing

Includes Maps: Yes

Includes Modeling: Yes

Larger Dataset Name: Published Literature and Reports

Information Form: Scientific Paper and Report/Document

Contact:

Reagan Waskom
CWI@ColoState.EDU
(970) 491-6309

Address:

E102 Engineering
1033 Campus Delivery
Fort Collins, Colorado 80523

Information Access: <http://www.cwi.colostate.edu/publications.asp>

4. Poudre River Reference List

Description: This is a listing in Excel of all the research and report we know of on the Poudre River. Each reference is categorized for type, location, topic, and location of the document. Clearly, with so much research ongoing we do not have everything captured, but we have scoured search engines and libraries for all previous documents.

Information Lead: City of Fort Collins: Natural Areas

Watershed: Cache la Poudre

Data Collection Status: Ongoing

Date(s) Information was Created: 2010-Present

Information Form: Database

Contact:

Jen Shanahan
jshanahan@fcgov.com
970-221-6281

Address:

1745 Hoffman Mill Rd
Fort Collins, CO 80521

Information Access: By Request (Jen Shanahan)



Ecology and Limnology

5. Fish Collection Information

Description: Collect fish using backpack electroshockers as part of the FW204 course at Colorado State University. Students identify the fish captured, weigh and measure them prior to release. The value of the data is that it is a 13-year record of fish community size and composition at one location on a Front Range transition zone stream.

Survey Completed by: Colorado State University

Information Lead: Colorado Parks and Wildlife

Watershed: Cache la Poudre river at Colorado State University Environmental Learning Center

Data Collection Status: Ongoing

Date(s) Information was Created: 2000

Information Form: Database

Contact:

Christopher Myrick
chris.myrick@colostate.edu
970-491-5657

Address:

Department of Fish, Wildlife, and
Conservation Biology
Campus Delivery 1474
Fort Collins CO 80523-1474

Information Access: By Request Only (Christopher Myrick)

6. Research Results and Publications

Description: Research results are being published by members of the research team. The web page lists progress.

Survey Completed by: Colorado State University

Information Lead: Colorado State University, Cornell University, and University of Nebraska

Other Participants: Universidad San Francisco de Quito and Universidad Indoamérica. Faculty at University of Copenhagen, Pontificia Universidad Católica del Ecuador, Conservation International, World Wildlife Fund, Universidade Estadual Paulista, Universidade Federal de Minas Gerais, and Universidade Federal de Lavras, Brazil.

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Ongoing

Includes Maps: Yes

Contact:

N. LeRoy Poff
poff@lamar.colostate.edu
970-491-2079

Address:

Department of Biology
Fort Collins CO 80523



Information Access: <http://www.eeb.cornell.edu/evotrac/Welcome.html>

The information gathered will be published, and after the project is over, the data will be made publicly available, as per requirements of the National Science Foundation.

7. Research

Description: An aquatic database maintained by Colorado Parks and Wildlife
Information Lead: Colorado Parks and Wildlife
Watershed: Both Cache la Poudre and Big Thompson
Data Collection Status: Ongoing
Includes Maps: Yes
Larger Dataset Name: Aquatic database maintained by PW
Information Form: Database and Report/Document

Contact:

Ken Kehmeier
ken.kehmeier@state.co.us
970-472-4350

Address:

317 W. Prospect
Fort Collins CO 80526

Information Access: <http://cpw.state.co.us/> Research and private property

8. Ecological Effects of Post Fire Mulching

Description: Ecological effects of post fire mulching.
Information Lead: Colorado State University
Watershed: Cache la Poudre; High-severity lodgepole pine areas mulched with wood or wheat straw
Data Collection Status: Ongoing

Contact:

Erin Berryman
erin.berryman@colostate.edu
970-491-7091

Address:

1472 Campus Delivery
Fort Collins CO 80523

Information Access: http://warnercnr.colostate.edu/~berryman/CSU_Home_Page/Welcome.html



9. Hydrology, Water Quality, and Water Quantity

Description: Vegetation composition. Includes Hydrology, Water Quality, and Water Quantity information.

Information Lead: Colorado Natural Heritage Program

Watershed: Cache la Poudre

Data Collection Status: Ongoing

Includes Maps: Yes

Information Form: GIS Mapping Layer

Contact:

Jeremy Sueltenfuss
jeremy.sueltenfuss@colostate.edu
970-491-0814

Address:

1475 Campus Delivery
Colorado State University
Fort Collins Colorado 80523

Information Access: Not Yet Accessible

10. Monitoring Data for Many Projects

Description: Monitoring data for several High Park Fire plots and assessment data for the Big Thompson post-flood.

Information Lead: Wildlands Restoration Volunteers

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Ongoing

Includes Maps: Yes

Information Form: GIS Mapping Layer and Database

Contact:

Amy Gage
amyg@wlv.org
970-493-2075

Address:

503 Remington St. Suite 301
Fort Collins CO 80524

Information Access: Permission needs to be granted so that users understand any and all data limitations.



Forestry

11. Dendrochronology-Based Fire Histories

Description: Ring width chronologies, fire history chronologies, registry of culturally modified trees, point maps of stand age. Includes Wildfires, Risk Assessments, Climatology information.

Information Lead: US Forest Service, Rocky Mountain Research Station

Other Participants: Colorado State University, CFRI, Larimer County, The Nature Conservancy, City of Fort Collins

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Ongoing

Date(s) Information was Created: Some published, most not

Includes Maps: Yes

Larger Dataset Name: Some projects finished or nearly finished; others are just beginning. No reports exist yet; datasets are incomplete.

Information Form: Scientific Paper and Database

Contact:

Laurie Huckaby
lhuckaby@fs.fed.us
970-498-1298

Address:

240 West Prospect Road
Fort Collins Colorado 80526

Information Access: By Request Only (Laurie Huckaby)

Most data are not yet published; once published, they will be public domain.

12. NFCLP GIS Data

Description: NFCLP GIS data. Includes Management and Planning information.

Information Lead: Colorado State University

Watershed: Cache la Poudre; NFCLP

Data Collection Status: Ongoing

Date(s) Information was Created: 2012

Includes Maps: Yes

Includes Modeling: Yes

Information Form: GIS Mapping Layer and Scientific Paper

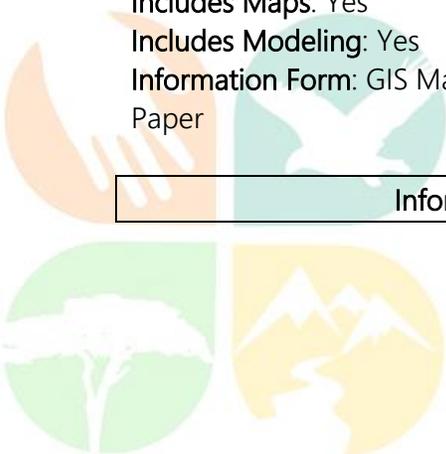
Contact:

Yu Wei
yu.wei@colostate.edu
970-491-2959

Address:

Department of FRS,
Campus Delivery 1472
Colorado State University
Fort Collins, Colorado 80526

Information Access: <http://warnercnr.colostate.edu/~wei/>



13. Outreach and Education

Description: Develop scientifically sound messages and materials for use by personnel, partners and Colorado citizens. Messages and materials are driven by strategic priorities and are delivered to diverse audiences using a variety of delivery systems. Also serves as a hub of information.

Information Lead: Colorado State Forest Service

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Ongoing

Date(s) Information was Created: Beginning in 1955

Includes Maps: Yes

Includes Modeling: Yes

Larger Dataset Name: Colorado Wildfire Risk Assessment Portal

Information Form: Online Reference and GIS Mapping Layer

Contact:
Boyd Lebeda
boyd.lebeda@colostate.edu
970-491-8445
Address:
Fort Collins

Information Access: <http://csfs.colostate.edu/index.shtml>



History

14. Self-Guided Field Trip to the History of the Poudre in the Laporte Area

Description: Optional assignment for students in the Osher course.

Information Lead: Colorado State University

Watershed: Cache la Poudre; Vicinity of Laporte.

Data Collection Status: Completed

Date(s) Information was Created: 2014

Includes Maps: Yes

Information Form: Report/Document

Contact:

Glenn Patterson
scampi162@gmail.com
303-747-2089

Address:

P.O. Box 473
Allenspark, Colorado 80510

Information Access: By Request Only (Glenn Patterson)

15. History of Agricultural and Urban Water Use in Fort Collins

Description: History of Agricultural and Urban Water Use in Fort Collins

Information Lead: Public Lands History Center

Watershed: Cache la Poudre; Fort Collins area

Data Collection Status: Ongoing

Date(s) Information was Created: 2012-ongoing

Includes Maps: Yes

Information Form: Website

Contact:

Maren Bzdek
maren.bzdek@colostate.edu
970-491-6130

Address:

Campus Mail 1776
Fort Collins, CO 80523-1776

Information Access: http://publiclands.colostate.edu/digital_projects/dp/poudre-river/



16. Diversion Records

Description: A record of historic diversions. Includes Law, Policy, and Regulations information.
Information Lead: Colorado Division of Water Resources
Watershed: Cache la Poudre
Data Collection Status: Ongoing
Information Form: Database

Contact:
Mark Simpson
mark.simpson@state.co.us
970-420-9568
Address:
951 Wheatridge Ct
Loveland, CO 80537

Information Access: <http://cdss.state.co.us/onlineTools/Pages/StructuresDiversions.aspx>

17. Water Resources Archive

Description: Various collections within the Water Resources Archive document either the Poudre or the Big Thompson watersheds. Some is digitized and online, but most is not. Also serves as a hub of information.
Information Lead: Morgan Library; Colorado State University
Watershed: Both Cache la Poudre and Big Thompson
Data Collection Status: Ongoing
Includes Maps: Yes
Includes Modeling: Yes
Information Form: Variety of formats

Contact:
Patricia Rettig
Patricia.Rettig@colostate.edu
970-491-1939
Address:
1201 Central Avenue Mall
Fort Collins, Colorado 80523

Information Access: <http://lib.colostate.edu/archives/water>



Hydrology, Water Quality, and Water Quantity

18. Precipitation Data

Description: Provide an archive of daily precipitation observations from dozens of locations in Larimer County that is a public resource for any other group, organization or individual to use and apply.

Information Lead: Colorado Climate Center

Watershed: Both Cache la Poudre and Big Thompson; primarily the elevation ranges of the basins and geographic areas where people live.

Data Collection Status: Ongoing

Includes Maps: Yes

Larger Dataset Name: CoCoRaHS

Information Form: Database and GIS Mapping Layer

Contact:

Nolan Doesken
nolan@atmos.colostate.edu
970-491-3690

Address:

Dept. of Atmospheric Science
Colorado State University
Fort Collins, CO 80523-1371

Information Access: www.cocorahs.org

19. Water Quality Assessments

Description: Water Quality Assessments. Includes Ecology and Limnology information. Information Lead: Northern Colorado Water Conservancy District

(NCWCD) Watershed: Both Cache la Poudre and Big Thompson;

Upper Big Thompson and Upper Poudre

Data Collection Status: Ongoing

Date(s) Information was Created: Various, 2007-present

Includes Maps: Yes

Includes Modeling: Yes

Information Form: Report/Document and Online Reference

Contact:

Judy Billica
jbillica@northernwater.org
970-622-2332

Address:

220 Water Ave
Berthoud, CO 80513

Information Access: see reports at

<http://www.northernwater.org/WaterQuality/WaterQualityReports1.aspx>



20. Suspended Sediment, Turbidity, Discharge, Conductivity, Bedload, Site Surveys

Description: Suspended sediment, turbidity, discharge, conductivity, bedload, site surveys. Includes Management and Planning information.

Information Lead: US Forest Service, Rocky Mountain Research Station

Watershed: Cache la Poudre; Area below Old Flowers Rd.
Data Collection Status: Ongoing

Date(s) Information was Created: 1989, 1997, 2013, 2014

Includes Maps: Yes

Includes Modeling: Yes

Larger Dataset Name: Larger collaborative dataset

Information Form: Scientific Paper and Database

Contact:

Sandra Ryan
sryanburkett@fs.fed.us
970-498-1015

Address:

240 W. Prospect Rd
Fort Collins, CO 80526

Information Access: <http://www.fs.fed.us/research/people/profile.php?alias=sryanburkett>

21. Source Water Monitoring

Description: The collection and assessment of water quality data helps the City meet present and future drinking water treatment goals. Includes Management and Planning information.

Information Lead: City of Fort Collins Utilities

Other Participants: City of Greeley, Tri-Districts, Northern Water
Watershed: Both Cache la Poudre and Big Thompson; Upper Cache la Poudre River Watershed and C-BT Project area

Data Collection Status: Ongoing

Includes Maps: Yes

Information Form: Database and Report/Document

Contact:

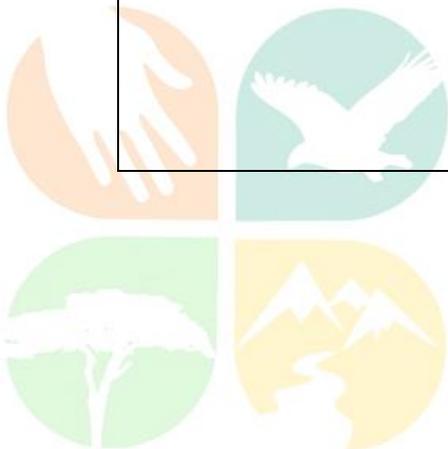
Jared Heath
jheath@fcgov.com
970-416-2287

Address:

4316 Laporte Avenue
Fort Collins, CO 80521

Information Access: Contact Jill Oropeza or Jared Heath

Jill Oropeza
City of Fort Collins Water Treatment Facility
4316 Laporte Avenue
Fort Collins, CO 80521
joropeza@fcgov.com
970-416-2529



22. Road Erosion

Description: Measuring road erosion, road-stream connectivity, and the effectiveness of road decommissioning. Includes Management and Planning information.

Information Lead: Colorado State University

Watershed: Cache la Poudre; Redfeather Lakes area Data

Collection Status: Ongoing

Date(s) Information was Created: Not yet

Includes Modeling: Yes

Information Form: Scientific Paper and Report/Document

Contact:

Lee MacDonald

lee.macdonald@colostate.edu

970-491-6109

Address:

1499 Campus Delivery
Fort Collins, CO 80523-1499

Information Access: Retain rights to prior publication

23. Mapping Cache la Poudre and South Platte River Degradations: Cumulative Basin Impacts

Description: Online maps and timeline of degradation events in the South Platte River Basin. Includes Management and Planning information.

Information Lead: Save the Poudre: Poudre Waterkeeper

Watershed: Cache la Poudre

Data Collection Status: Ongoing

Date(s) Information was Created: Present

Includes Maps: Yes

Information Form: Multimedia (video, recording, picture)

Contact:

John Bartholow

john.bartholow@savethepoudre.org

970-223-6488

Address:

PO Box 20
Fort Collins, Colorado 80522

Information Access: <http://www.savethepoudre.org/when-where-map.html>



24. Runoff Curves

Description: This information was crucial in selection of burned areas to aerially mulch as well as in what to design to for post flood stabilization. Includes Wildfires, Risk Assessments, Climatology information.

Information Lead: USDA-NRCS

Other Participants: USGS, USFS

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Ongoing

Date(s) Information was Created: 2012 - 2014

Includes Maps: Yes

Includes Modeling: Yes

Information Form: Scientific Paper

Contact:

John Fusaro
john.fusaro@co.usda.gov
970-295-5658

Address:

2150 Centre Ave.
Bldg. A, Suite 116
Fort Collins, CO 80526

Information Access: Dr. Steven Yochum USDA-
NRCS 2150 Centre Ave.
Bldg. A, Suite 116
Fort Collins, CO 80526
steven.yochum@co.usda.gov
970-295-5657



Management and Planning

25. Larimer County Open Lands Master Plan and Our Lands Our Future Report

Description: Survey of preferences on how open lands sales tax dollars should be spent. Acquisition of water for instream flows was more popular than acquisition for agriculture or recreation.

Information Lead: Larimer County Natural Resources

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Completed

Date(s) Information was Created: 2013-2014

Includes Maps: Yes

Information Form: Report/Document

Contact:

Jeffrey Boring
jboring@larimer.org
970-619-4569

Address:

1800 South County Rd 31
Loveland, Colorado 80537

Information Access: <http://www.co.larimer.co.us/openlands/>

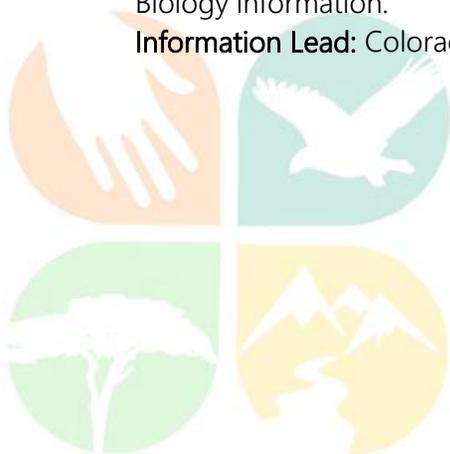
Additional Contact: Zac Wiebe
1800 South County Road 31
Loveland, CO 80537
wiebezm@co.larimer.co.us
970-679-4534

26. Article in the Scientific Journal "Biological Conservation"

Focus: Conservation Biology

Description: This article reports the results of a study on bird and mammal habitat use along an exurban development gradient. The objective of the work was to help land use planners and developers consider how housing density/landscape permeability affects birds and mammals when planning, designing and managing residential development in rural areas. Includes Conservation Biology information.

Information Lead: Colorado State University



Other Participants: The authors are a former MS student and two faculty at Colorado State University and a research scientist at Wildlife Conservation Society. Funding was provided by the Center for Collaborative Conservation, the School of Global Environmental Sustainability, the Truman Foundation and the Denver Audubon Society

Watershed: Cache la Poudre; north fork of the Cache la Poudre watershed

Data Collection Status: Completed

Date(s) Information was Created: 2014

Includes Maps: Yes

Includes Modeling: Yes

Information Form: Scientific Paper

Contact:

Liba Pejchar
liba.pejchar@colostate.edu
970-491-1819

Address:

Campus Delivery 1474
Dept. of Fish, Wildlife and
Conservation Biology
Fort Collins, CO 80523

Information Access: <http://www.sciencedirect.com/science/article/pii/S0006320714002043>

This article may only be accessible to individuals or institutions that subscribe to this journal.
Contact Liba Pejchar for a pdf.

27. A Modeling Assessment of the Thermal Regime for an Urban Sport Fishery

Focus: Ecology and Limnology

Description: A modeling assessment that explores how water temperature is almost certainly a limiting factor in the maintenance of a self-sustaining rainbow trout (*Oncorhynchus mykiss*, formerly *Salmo gairdneri*) and brown trout (*Salmo trutta*) fishery in the lower reaches of the Cache la Poudre River near Fort Collins, Colorado, USA. Irrigation diversions dewater portions of the river, but cold reservoir releases moderate water temperatures during some periods.

Survey Completed by: Fossil Creek Software

Information Lead: USGS

Other Participants: USGS

Watershed: Cache la Poudre near Fort Collins

Data Collection Status: Completed

Date(s) Information was Created: 1991

Includes Maps: Yes

Includes Modeling: Yes

Information Form: Scientific Paper

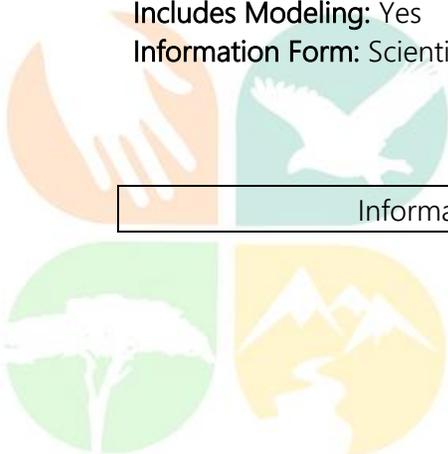
Contact:

John Bartholow
john.bartholow@savethepoudre.org
970-223-6488

Address:

5402 Old Mill Rd.
Fort Collins, CO

Information Access: <https://www.fort.usgs.gov/publication/4061>



28. Cache la Poudre River National Heritage Area Management Plan

Focus: History

Description: Cache la Poudre River National Heritage Area Management Plan.

Information Lead: Cache la Poudre River National Heritage Area

Other Participants: National Park Service, City of Fort Collins, Town of Windsor, City of Greeley, Larimer County, Weld County

Watershed: Cache la Poudre; From the Gateway Park to the confluence with the South Platte

Data Collection Status: Completed

Date(s) Information was Created: 2013

Includes Maps: Yes

Information Form: Report/Document and Online Reference

Contact:

Kathleen Benedict
kbenedict@poudreheritage.org

970-352-1267

Address:

8313 West F Street
Greeley, CO 80631

Information Access: <http://parkplanning.nps.gov/document.cfm?documentID=54856>

29. Environmental Flow Issues in the Poudre River, CO

Focus: Hydrology, Water Quality, and Water Quantity

Description: This paper presents issues that should be considered in the determination of an environmental flow need. One issue is the increase of operational flashiness of a working river during the irrigation season, a second is reduction of winter habitat, a third is reduction of the river's capacity to scour and flush sediment, and the last is unnaturally high flows attributable to water accounting. Includes Hydrology, Water Quality, and Water Quantity information.

Survey Completed by: Fossil Creek Software

Information Lead: Torries Peak Analysis

Other Participants: Robert T Milhous, Torries Peak Analysis

Watershed: Cache la Poudre; Cache la Poudre River near Fort Collins

Data Collection Status: Completed

Date(s) Information was Created: 2010

Includes Maps: Yes

Includes Modeling: Yes

Information Form: Report/Document

Contact:

John Bartholow
john.bartholow@savethepoudre.org

970-223-6488

Address:

5402 Old Mill Rd.
Fort Collins, Colorado

Information Access: <http://fossilcreeksoft.com/S7B-1.pdf>

30. Constructing an Interdisciplinary Flow Regime

Recommendation *Focus: Hydrology, Water Quality, and Water Quantity*

Description: Constructing an Interdisciplinary Flow Regime Recommendation for the Cache la Poudre near Fort Collins. Includes Hydrology, Water Quality, and Water Quantity information.

Information Lead: Fossil Creek Software

Watershed: Cache la Poudre; Cache la Poudre River near the Lincoln Ave. USGS gage

Data Collection Status: Completed

Date(s) Information was Created: 2010

Includes Maps: Yes

Includes Modeling: Yes

Larger Dataset Name: USGS and other gage records and reconstruction

Information Form: Scientific Paper and Report/Document

Contact:

John Bartholow
john.bartholow@savethepoudre.org
970-223-6488

Address:

5402 Old Mill Rd.
Fort Collins, Colorado

Information Access: <http://fossilcreeksoft.com/MainstemPoudreFlowRec5.pdf> <http://onlinelibrary.wiley.com/doi/10.1111/j.1752-1688.2010.00461.x/abstract>

Post-print version has viewing and copyright restrictions

31. Estimating the Extent of NISP's Impacts On Riparian Areas and Wetlands Along the Cache la Poudre River

Focus: Hydrology, Water Quality, and Water Quantity

Description: A report on NISP's impacts on riparian areas including wetlands along the Cache la Poudre River. Includes Hydrology, Water Quality, and Water Quantity information.

Information Lead: Save the Poudre: Poudre Waterkeeper Watershed: Cache la Poudre

Data Collection Status: Completed

Date(s) Information was Created: 2012

Includes Maps: Yes

Includes Modeling: Yes

Information Form: Report/Document

Contact:

John Bartholow
john.bartholow@savethepoudre.org
970-223-6488

Address:

PO Box 20
Fort Collins, Colorado 80522

Information Access: <http://www.savethepoudre.org/stp-correspondence/2012-12-17-combined-wetlands-letter-and-reports.pdf>

32. A Better Future for the Poudre River

Focus: Hydrology, Water Quality, and Water Quantity

Description: The Save the Poudre: Poudre Waterkeeper and Western Resource Advocates (WRA) first developed an alternative to NISP, the “Healthy Rivers” alternative, in 2008. The Better Future Alternative was developed by WRA to incorporate more current Colorado State Demography Office population projections, revised NISP participant demands and supplies from a 2011 report by Harvey Economics, data from the Colorado 2010 Statewide Water Supply Initiative, and other recent reports. Includes Hydrology, Water Quality, and Water Quantity information.

Survey Completed by: Save the Poudre: Poudre Waterkeeper

Information Lead: Western Resource Advocates

Other Participants: prepared by Laura Belanger, with valuable contributions from Stacy Tellinghuisen and Amelia Nuding. We are grateful to Drew Beckwith, John Gerstle, Charles (“Chuck”) Howe, Becky Long, Dan Luecke, and Bart Miller for their review and feedback.

Watershed: Cache la Poudre

Data Collection Status: Completed

Date(s) Information was Created: 2012

Includes Maps: Yes

Includes Modeling: Yes

Information Form: Report/Document

Contact:

John Bartholow
john.bartholow@savethepoudre.org
970-223-6488

Address:

PO Box 20
Fort Collins, CO 80522

Information Access: http://www.westernresourceadvocates.org/water/nisp/bfa_121312.pdf

33. Green-Gray Analysis

Focus: Hydrology, Water Quality, and Water Quantity

Description: To investigate the potential cost savings associated with investments in green infrastructure solutions to water quality issues in the Cache La Poudre and Big Thompson Watersheds. Includes Hydrology, Water Quality, Water Quantity information.

Information Lead: Colorado Conservation Exchange;
Center for Collaborative Conservation

Other Participants: Center for Sustainable Economy
(CSE) World Resources Institute (WRI)

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Completed

Date(s) Information was Created: 2013

Includes Modeling: Yes

Information Form: Report/Document

Contact:

Robin Reid
robin.reid@colostate.edu
(970) 491-3983

Address:

224 Student Services Bldg
1401 Campus Delivery
Fort Collins CO 80523

Information Access: <http://sustainable-economy.org/front-range-green-vs-grey-analysis/>

34. Floodplain Regulation and Administration

Focus: Law and Policy

Description: Mapping of floodplains. Management of allowable construction in and adjacent to waterways. Includes Law, Policy, and Regulations information.

Survey Completed by: Larimer County

Information Lead: City of Greeley

Other Participants: State of Colorado

Watershed: Both Cache la Poudre and Big Thompson;
To river channels.

Data Collection Status: Ongoing

Includes Maps: Yes

Includes Modeling: Yes

Larger Dataset Name: Hydrological modeling based on rainfall data.

Information Form: GIS Mapping Layer and Report/Document

Contact:

Suzanne Bassinger
sbassinger@larimer.or
g 970-498-7148

Address:

200 W. Oak Street Fort
Collins, CO 80521

Information Access: www.larimer.org

Additional Contact: Eric Tracy, Floodplain
Administrator 200 W. Oak Street
Fort Collins, CO 80522
etracy@larimer.org
970-498-5729

35. The Farm Facts About NISP

Focus: Wildfire, Risk Assessments, Climatology

Description: A report on the potential effects and threats on farms if the NISP were to be completed. Includes Wildfires, Risk Assessments, Climatology information.

Information Lead: Save the Poudre: Poudre Waterkeeper

Watershed: Cache la Poudre

Data Collection Status: Completed

Date(s) Information was Created: 2011

Includes Maps: Yes

Includes Modeling: Yes

Information Form: Report/Document

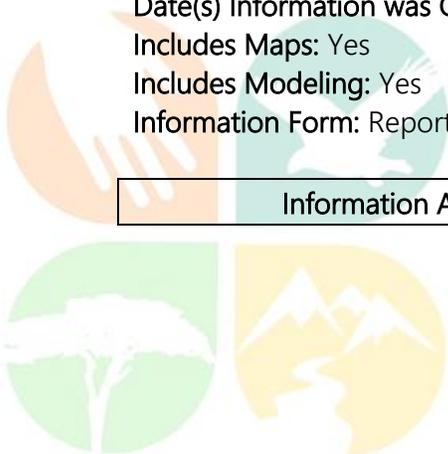
Contact:

John Bartholow
john.bartholow@savethepoudre.org
970-223-6488

Address:

PO Box 20
Fort Collins, CO 80522

Information Access: <http://savethepoudre.org/docs/farm-facts-april2011.pdf>



Wildfires, Risk Assessments, Climatology

36. Watershed Hazard Prioritization

Description: The assessment is a prioritization of small watersheds in the High Park burned area used to target watershed protection measures. Includes Hydrology, Water Quality, and Water Quantity information.

Information Lead: JW Associates

Other Participants: High Park Fire restoration group

Watershed: Cache la Poudre; High Park Fire burned area

Data Collection Status: Completed

Date(s) Information was Created: 2012-13

Includes Maps: Yes

Includes Modeling: Yes

Larger Dataset Name: Cache La Poudre

Wildfire/Watershed Assessment

Information Form: Report/Document and GIS
Mapping Layer

Contact:

Brad Piehl

bpiehl@jw-associates.org

970-406-0085

Address:

PO Box 3759

431 Silver Circle

Breckenridge, Colorado 80424

Information Access: <http://www.jw-associates.org/highparkfire.html>

37. Colorado-Big Thompson Small Watershed Hazard Assessment

Description: Small watershed hazard assessment of the CBT project area used to target areas for watershed protection designed to protect the CBT collection system and watersheds from adverse impacts from wildfires and other events. Includes Hydrology, Water Quality, and Water Quantity information.

Information Lead: JW Associates

Other Participants: Northern Water

Watershed: Both Cache la Poudre and Big Thompson; CBT Project Area

Data Collection Status: Ongoing



Date(s) Information was Created: 2013
Includes Maps: Yes
Includes Modeling: Yes
Larger Dataset Name: Big Thompson Wildfire/
Watershed Assessment, Cache La Poudre Wildfire/
Watershed Assessment and Upper Colorado Headwaters
Wildfire/ Watershed Assessment
Information Form: Report/Document and GIS Mapping
Layer

Contact:
Brad Piehl
bpiehl@jw-associates.org
970-406-0085
Address:
PO Box 3759
431 Silver Circle
Breckenridge, Colorado 80424

Information Access: <http://www.jw-associates.org/cbthp.html>
Need to get approval from Northern Water.

38. Colorado-Big Thompson Project - Final Report on Small Watershed Targeting and Zones of Concern Prioritization

Description: The report supports pre- and post- wildfire planning for the Colorado-Big Thompson Project. The report prioritizes zones-of-concern at a small watershed scale above key water supply features given the relative importance of each zone-of-concern to project operations, and physical characteristics of the watershed that describe the relative hazard of generating flooding, debris flows and increased sediment yields following wildfires that could have impacts on water supplies. Includes information on Management and Planning.

Information Lead: Northern Water Conservancy District

Other Participants: Colorado-Big Thompson Headwaters Partnership (technical guidance)

Watershed: Both Cache la Poudre and Big Thompson;
Portions of the BT and Poudre watersheds that are within
the Colorado-Big Thompson Project watershed

Data Collection Status: Completed

Date(s) Information was Created: 2014

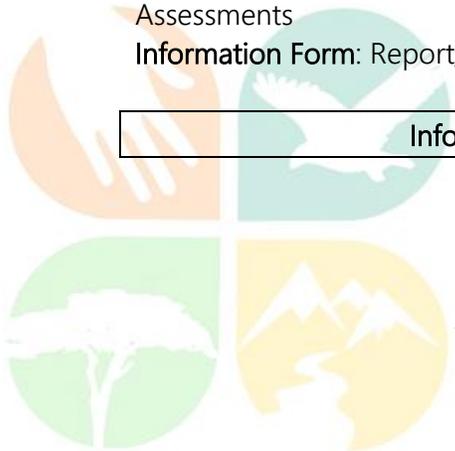
Includes Maps: Yes

Larger Dataset Name: Tiers off of the Upper Colorado
Headwaters and Big Thompson Wildfire/Watershed
Assessments

Information Form: Report/Document and GIS Mapping Layer

Contact:
Jerry Gibbens
jgibbens@northernwater.org
970-622-2299
Address:
220 Water Avenue
Berthoud, CO 80513

Information Access: <http://jw-associates.org/cbthp.html>



39. Private Property Fire Mitigation Plans

Description: Creation of wildfire mitigation plans for individual residences in the Wildland-Urban Interface. Includes information on Management and Planning.

Information Lead: Larimer County

Watershed: Both Cache la Poudre and Big Thompson

Data Collection Status: Ongoing

Date(s) Information was Created: ongoing Information

Form: Report/Document

Contact:

Suzanne Bassinger
sbassinger@larimer.or
g 970-498-7148

Address:

200 W. Oak Street
Fort Collins, CO 80521

Information Access: Information is for private property owner use.



Appendix A

Activity Survey Questions

1. Organization Contact Information.
2. Which watershed does your organization affect?
3. Activity Name?
4. What type of activity is this (main focus)?
5. What type of activity is this (secondary/main focus)?
6. If you selected "other" to either of the two previous questions of activity type, please describe.
7. Where does this activity take place?
8. Please follow this link to place marker where each of your activities are occurring (click on and read "map description" at top left for further instructions): [Link to Google map]
9. If placing markers for your activities does not adequately describe their location in the watershed, then please briefly describe activities location.
10. Is the activity currently active or completed?
11. What years did the activity begin and end? (e.g., 2012 – Present; 2010 – 2013)
12. Please briefly describe the activity and its relation to the watershed and river impacts; 1-2 sentences.
13. Is your organization the lead organization on this activity?
14. If "No" to the previous question, please list lead organization.
15. Please list any other organizations that participate in this activity and how they do so.
16. Please, if possible, place a weblink below to access specific information on this activity. If there is no specific page, please enter your organization's home webpage.
17. Please list contact information specific to this activity if different from original contact information.
18. Any additional comments?
19. May we contact you for further information?



Appendix B

Information Survey Questions

1. Name of the information/data.
2. What field or type of information would you organize this information into?
3. What secondary field or type of information would you organize this information into (if needed)?
4. If you selected "other" to either of the two previous questions, please describe here.
5. To which watershed does this information/data apply?
6. If the information/data apply only to a specific portion of the watershed, please describe/name area.
7. Is the data collection or other analysis completed or still ongoing for this type of information?
8. Year information was created/published
9. Does this information include any maps/mapping?
10. Does this information include any modeling?
11. Is this information based off or related to a larger dataset or report? (e.g., annual water quality monitoring data)
12. If "yes" to the previous question, please describe or name dataset/report
13. In what type of media format is your information presented?
14. Is there a second type of format (if needed)?
15. If you selected "other" for either of the two previous questions, please describe here.
16. Please briefly describe the information and its relation to the watershed. Include the purpose of the activity, types of management actions undertaken, and current or anticipated impact; 1-3 sentences.
17. Is your organization the main contact organization for this information?
18. If no to the previous question, who is the lead organization for this information?
19. Is (or did) anyone else participating in this information collection or reporting? (e.g., local NGO (monitoring), city government (funding))
20. Where can this information be accessed? Provide a weblink if applicable.
21. Are there restrictions on how this data can be accessed or is the information sensitive?
22. If "yes", what are the restrictions and how is it sensitive?
23. Who can we list as a contact for additional information about this activity? (Only provide if different from original contact information.)
24. Any additional comments?
25. May we contact you for further information?





 **CENTER FOR COLLABORATIVE conservation**

