

Delia G. Malone
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SUMMARY

Delia works with the Colorado Natural Heritage Program as an ecologist and botanist conducting biological surveys of plants and natural communities throughout Colorado. Delia also works as adjunct faculty at Colorado Mountain College in their Sustainability program where she teaches Conservation Biology and Ecology.

When Delia isn't searching for rare plants and birds or teaching about them, she is hiking, skiing, snowshoeing or birding in Colorado's wild lands.

STATEMENT OF QUALIFICATIONS

- Science education instruction at the High School and College level.
- Assessment and monitoring of stream, wetland, riparian and upland ecosystems.
- Biological inventories of wildlife and vegetation.
 - Wetland and upland habitat and vegetation surveys and assessment;
 - Avifaunal point count surveys and monitoring;
 - Avian mist-netting and banding;
 - Small-mammal live-trapping;
 - Meso and large mammal tracking and surveys.

Related Science Skills:

- Data Analysis and statistical applications;
- Developing and implementing monitoring protocols for ecological assessment and analysis;
- Accomplished in the identification of Western plant, bird, and mammal species;
- Report and grant writing;

Related People Skills include:

- Achieving conservation through education of adults and youth;
- Accomplishing consensus between people and organizations with diverse and disparate perspectives;
- Working collaboratively with colleagues and with the public;
- Working with public and private landowners to achieve conservation and protection;
- Organizing and working with volunteers to participate in conservation and restoration activities.

Related Administrative Skills:

- Accomplished at using Microsoft Office, Excel, & Powerpoint;
- Recruitment and supervision of volunteers and project-office staff;
- Office organization and administering day-to-day office activities;
- Budgeting and fiscal management.

- EDUCATION.

M.S. Environmental Science, University of Colorado at Denver, 2002

M.S. Science Education, Loyola University of the South, 1988

Reading remediation specialist certification

Louisiana State Teaching certification in Biology, secondary level. Loyola University of the South, 1992

B.S. in Biology, Loyola University of the South, New Orleans, Louisiana 1983

High School Graduation, Centennial High, Pueblo, Colorado, 1972

CONTINUING EDUCATION.

- Cultural Resource Management on Military Lands, CSU, fall 2010
- Introductory and Colorado Natural Heritage Methodology training, winter 2010.
- Mexican Spotted Owl Survey Certification (USFWS), spring 2010.
- Advanced ageing and sexing passerines with Peter Pyle, spring 2006.
- Advanced predator tracking with Jim Halfpenny, winter 2005.
- Advanced training in MAPS (Monitoring Avian Production and Survivorship) protocols, spring 2004 and 2003.

EMPLOYMENT HISTORY.

2012 to present	Colorado Mountain College, Adjunct Professor Sustainability Studies Program; Ecology and Conservation Biology
2006 to present	Colorado Natural Heritage Program, Colorado State University, Ecologist/Botanist.
2007 to 2011	Co-Principal Investigator: Bird Communities as Indicators of Riparian Habitat Quality in the Roaring Fork Watershed, Southern Rocky Mountains, Colorado.
2006 to 2007	Consultant to Roaring Fork Conservancy: Co-author of the Roaring Fork Watershed plan, phase 1, State of the Watershed report.
2003 to 2006	Co-Principal Investigator: Roaring Fork Stream Health Initiative
2001 to present	Rocky Mountain Nature Association, Field class instructor
2000 to 2003	Principal Investigator: Impacts of Recreational Trails on Wildlife Communities. Prepared for: U.S. Environmental Protection Agency
1995 to 2000	Colorado Mountain College, Aspen campus, Adjunct Faculty Instructor; biology

REFERENCES.

David Anderson, Director & Chief Scientist, Colorado Natural Heritage Program
Phone: 970- 491-6891 email: david.anderson@colostate.edu

Dr. Diana Tomback, Professor of Ecology, University of Colorado at Denver
Phone: 303-548-4400 email: diana.tomback@ucdenver.edu

Dr. Adrian Fielder, Assistant Dean of Instruction, Colorado Mountain College
Phone: 970-510-7165 email: afielder@coloradomtn.edu

VOLUNTEER EXPERIENCE.

Sierra Club, Colorado Chapter, 2012 to present
Executive Committee
Wildlife Committee Chair

Roaring Fork Audubon Society,
Vice Chair, 2008 to present

Crystal River Caucus, Pitkin County
Chairperson, 2008 to 2018.

Colorado Breeding Bird Atlas,
Roaring Fork Watershed atlaser, 2007 to present

Independence Pass Foundation,
Board member 1995 to 2007.

Aspen Center for Environmental Studies
Trustee 1993 to 1999.
Chairperson of the North Star Committee,

The Watershed Coalition of the Roaring Fork Valley
Chairperson 1999 to 2009.

Aspen Air and Water Quality Board,
Board member 1996 – 1998

Sinapu: Colorado's Wolf Reintroduction Group,
Board member 1989 – 1992

PUBLICATIONS.

Malone, D. G., J.C. Emerick, J.E. Handwerk, and E. Tasker. 2018. Field Surveys for BLM Sensitive Plant Species for the Bureau of Land Management, Little Snake Field Office. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

J.E. Handwerk and D.G. Malone. 2018. Monitoring Colorado's SWAP Tier 1 plant species *Physaria pulvinata*, 2018. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Handwerk, J.E., and D.G. Malone. 2018. Monitoring Colorado's SWAP Tier 1 plant species *Penstemon debilis*, 2017. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Malone, D.G., L. Tasker and J. Handwerk. 2018. Final Report; Survey of Lands Affected by the Proposed Expansion of the Mid-Continent Limestone Quarry. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Handwerk, J. and D. G. Malone. 2017. USFWS-BLM Energy Streaming Funds Annual Progress Report Year 7. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Malone, D.G., M. Lyon and J.E. Handwerk. 2016. Biological Surveys for Colorado's SWAP Tier 1 and Tier 2 plant species of concern. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Handwerk, J., D. G. Malone and M. Lyon. 2016. USFWS-BLM Energy Streaming Funds, Annual Progress Report, Year 6. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Malone, D.G., J.C. Emerick, M. Lyon, J. Sovell, B. Kuhn and J. Handwerk . 2016. Survey of Critical Biological Resources: a resurvey and update of Potential Conservation Areas in Garfield County, Colorado. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Handwerk, J., B. Kuhn, and D. Malone. 2015. Plants. Chapter 4 *In* Colorado Natural Heritage Program 2015. Climate Change Vulnerability Assessment for Colorado Bureau of Land Management. K. Decker, L. Grunau, J. Handwerk, and J. Siemers, editors. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Handwerk, J. and D.G. Malone, *Spiranthes diluvialis* Survey on the Colorado River in Garfield County. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Handwerk, J.E., D. Malone, M. Lyon, and J. Emerick. 2015. *Sclerocactus glaucus* surveys at Orchard Mesa, Colorado, 2015. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Handwerk, J. and D.G. Malone, *Eutrema penlandii* Monitoring in the Mosquito Range, Colorado, 2015. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Handwerk, J.E., D. G. Malone, J. C. Emerick. C. Tortorelli, and D. Gannon. 2015. Survey for *Draba weberi* in the Mosquito Range in Colorado. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Malone, D.G. 2014. Survey of American Dipper (*Cinclus mexicanus*) Distribution, Abundance and Reproductive Success as a Baseline Indicator of Stream and Riparian Health on the Fryingpan River, Basalt, Colorado. Prepared for: Roaring Fork Conservancy, Basalt Colorado. Available: <http://www.roaringfork.org/publications/>

Malone, D.G., M. Lyon, and J. Handwerk. 2014. *Spiranthes diluvialis* Surveys in the Yampa River Basin. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado.

Jill Handwerk, Delia G. Malone and Peggy Lyon. 2014 Surveys for *Phacelia submutica*, *Sclerocactus glaucus* and *Penstemon scariosus* var. *albifluvis*. Colorado Natural Heritage Program. Colorado State University, Fort Collins, CO.

Handwerk, J., D. Malone and P. Lyon. 2013. Surveys of Federally Listed Plant Species 2013: *Sclerocactus glaucus* and *Eriogonum pelinophilum*. Prepared for U.S. Fish and Wildlife Service. Colorado Natural Heritage Program, Colorado State University, Fort Collins, Colorado .

J. Handwerk, P. Smith, D. Malone and B. Kuhn. 2013. Sagebrush Enhancement Project # CF-216 . Prepared for: National Forest Foundation and White River National Forest. Colorado Natural Heritage Program, Warner College of Natural Resources, Colorado State University

Malone, D.G., E. Carlson, G. Smith, D. Culver, and J. Lemly. 2012. Wetland Mapping and Fen Survey in the White River National Forest. Colorado Natural Heritage Program, Warner College of Natural Resources, Colorado State University.

Sovell, J., D. Malone, J. Ehrenberger and R. Rondeau. 2012. Survey of Natural Values Colorado State Land Board Stewardship Trust Lands – Priority 1 Parcels. Prepared for: Colorado State Land Board, 1127 Sherman St., Suite 300, South Platte Ranger District,

Denver, Colorado. Colorado Natural Heritage Program, Warner College of Natural Resources, Colorado State University

Lyon, P., D. Malone and J. Handwerk. 2012. Rare Plant Monitoring and Database Development Black Canyon of the Gunnison National Park and Curecanti National Recreation Area. Prepared for Black Canyon of the Gunnison National Park. Colorado Natural Heritage Program, Warner College of Natural Resources, Colorado State University.

Lyon, P., D. Malone and J. Handwerk. 2012. 2012 Rare Plant Surveys of Dinosaur National Monument. Colorado Natural Heritage Program, Warner College of Natural Resources, Colorado State University

Culver, D., D.G. Malone, and A. Shaw. 2011. Survey of Critical Biological Resources in Teller County, Colorado. Colorado Natural Heritage Program, Warner College of Natural Resources, Colorado State University.

Malone, D.G. and J. Stevens. 2010. Survey of Wetlands in Gilpin County, Colorado. Colorado Natural Heritage Program, Warner College of Natural Resources, Colorado State University.

Culver, D., D. Malone, S. Neid, and J. Handwerk. 2009. Survey of Critical Biological Resources Chaffee County, Colorado. Colorado Natural Heritage Program, Warner College of Natural Resources, Colorado State University.

Neid, S., D. Malone, and J. Jones. 2008. Survey of Seeps and Springs on Bureau of Land Management lands in northern Hinsdale County 2006-2007. Colorado Natural Heritage Program, Warner College of Natural Resources, Colorado State University.

Malone, D.G. and J.C. Emerick. 2008. Using Bird Indices of Biological Integrity to Assess Riparian Habitat Quality in the Southern Rocky Mountains. American Ornithological Union. Annual Meeting Poster Presentation. Cheyenne, WY.

State of the Roaring Fork Watershed Report. 2008. Principal Authors: Sharon Clarke, Kristine Crandall, John Emerick, Mark Fuller, John Katzenberger, Delia Malone, Michelle Masone, Albert Slap, Judith Thomas. Sponsor: Ruedi Water and Power Authority.
<http://www.roaringfork.org/sitepages/pid272.php>

CATALOG OF STREAM AND RIPARIAN HABITAT QUALITY FOR THE ROARING FORK RIVER AND TRIBUTARIES, CENTRAL COLORADO
Prepared for: Aspen Field Biology Laboratory, The Nature Conservancy, Colorado River Water Conservation District, and The Roaring Fork Conservancy.
Prepared by: Delia G. Malone and Dr. John C. Emerick
<http://www.roaringfork.org/collaborative/shi>

IMPACTS OF TRAILS AND RECREATIONISTS ON WILDLIFE

Prepared for: U.S. Environmental Protection Agency

EPA Project Number: MM988655-01

Prepared by: Delia G. Malone Primary Investigator and John C. Emerick Co-investigator

September 29, 2003

http://www.wildernessworkshop.org/PDFs/Trail_Study_Final_Report_Emerick.pdf