


Boulder County Parks and Open Space Research Papers

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Last updated: October 2, 2009

Subject	Report Title	Year	Researcher Name / Email Link	Researcher Organization	Researcher Department	Property	Grouping	Focus	Parks and Open Space Contact / Email Link
Ecosystems	Effects of Prescribed Burning and Trail Use on Ponderosa Pine Forest Birds on Heil Ranch. Analysis of Pre-treatment Years (1999-2000). First Year Community Analysis for Prescribed Fire Sites	2000	Alexander Cruz	CU Boulder	Dept of Environmental, Population and Organismic Biology	Heil Valley Ranch	Prescribed Burn	Ponderosa Pine	Mark Brennan
Ecosystems	Forest Fire Effects on Benthic Invertebrate Populations	2000	Nada Sroysaard	WP Natural Resource Consulting, Inc.		Walker Ranch	Fire	Benthic Invertebrates	Randy Coombs
Ecosystems	Revegetation Experiment in an Active Prairie Dog Town with Vegetation Graphics	2000	Patrick Murphy	Ecotone Corporation			Revegetation	Prairie Dog	Claire DeLeo
Ecosystems	Effects of Thinning, Prescribed Burning, and Trail Use on Ponderosa Pine Forest Birds on Heil Ranch 2001	2001	Alexander Cruz	CU Boulder	Dept of Environmental, Population and Organismic Biology	Heil Valley Ranch	Prescribed Burn	Ponderosa Pine	Mark Brennan
Ecosystems	Revegetation Experiment in an Active Prairie Dog Town, Second Year Monitoring Report	2001	Patrick Murphy	Ecotone Corporation			Revegetation	Prairie Dog	Claire DeLeo
Ecosystems	Effects of Forest Management and Trail Use on Ponderosa Pine Forest Birds on Heil Ranch.	2002	Alexander Cruz	CU Boulder	Dept of Environmental, Population and Organismic Biology	Heil Valley Ranch	Forest Management	Ponderosa Pine	Mark Brennan
Ecosystems	Effects of Forest Management and Trail Use on Ponderosa Pine Forest Birds on Heil Ranch, Boulder County Open Space	2003	Alexander Cruz	CU Boulder	Dept of Environmental, Population and Organismic Biology	Heil Valley Ranch	Forest Management	Ponderosa Pine	Mark Brennan
Ecosystems	Eastern Colorado Paleoenvironment	2003	Kevin Gilmore	University of Denver	Dept of Geography	Mud Lake	Forest Thinning	PaleoEcology	Claire DeLeo
Ecosystems	Continued Study of Bat Abundance and Distribution at Heil Valley Ranch and the Effects of Forest Thinning on Bat Foraging Activities in Foothills Ecosystems	2003	Rick Adams	University of Northern CO	Dept of Biological Sciences	Heil Valley Ranch	Forest Thinning	Bats	Mark Brennan
Ecosystems	Effects of Forest Management, Trail Use and Wildfire on Ponderosa Pine Forest Birds on Heil Ranch, Boulder County Open Space	2004	Alexander Cruz	CU Boulder	Dept of Environmental, Population and Organismic Biology	Heil Valley Ranch	Forest Management	Ponderosa Pine	Mark Brennan
Ecosystems	Bat Species Abundance and Distribution, the Effects of Forest Thinning and Burning on Bat Foraging Activity and Incidence of West Nile Infection in Bats at Heil Valley Ranch, 2004	2004	Rick Adams	UNC Greeley	Dept of Biological Sciences	Heil Valley Ranch	Forest Thinning	Bats	Mark Brennan
Ecosystems	Pollination in an Urbanizing Landscape: Effects of Habitat Fragmentation on Wild Bee Assemblages	2004	Sarah Jack Hinners	CU Boulder	Dept of Ecology and Evolutionary Biology and CIRES	Multiple	Habitat Fragmentation	Bees	Mark Brennan
Ecosystems	Bat Species Abundance and Distribution, the Effects of Forest Thinning and Burning on Bat Foraging Activities and Incidence of West Nile Infection in Bats, and Calcium Water Hole Experiments at Heil Valley Ranch	2005	Rick Adams	University of Northern CO	Dept of Biological Sciences	Heil Valley Ranch	Forest Thinning	Bats	Mark Brennan
Ecosystems	Bat Species Abundance and Distribution, the Effects of Forest Thinning and Burning on Bat Foraging Activity, Incidence of West Nile Virus in Bats, and Calcium Water Hole Experiments at Heil, 2006.	2006	Rick Adams	University of Northern CO	Dept of Biological Sciences	Heil Valley Ranch	Forest Thinning	Bats	Mark Brennan
Ecosystems	Mechanical Thinning Effects on Herbaceous Species Distributions and Invasion Pathways in Ponderosa Pine Forests of Boulder County, CO.	2007	Brett Wolk	CSU Fort Collins	Dept of Forest, Rangeland and Watershed Stewardship		Prescribed Burn	Tree Regeneration	Chad Julian
Ecosystems	Bat Species Abundance and Distribution, the Effects of Forest Thinning and Burning on Bat Foraging Activities and Incidence of West Nile Infection in Bats, and Calcium Water Hole Experiments at Heil Valley Ranch, 2007	2007	Rick Adams	Colorado Bat Society		Heil Valley Ranch	Forest Thinning	Bats	Mark Brennan
Ecosystems	Ponderosa Pine Thinning on Aberts Squirrel	2008	Catherine Kleier	Regis	Science Dept.	Heil Valley Ranch	Forest Thinning	Aberts Squirrel	Mark Brennan
Ecosystems	Stopover Use of Thinned vs Unthinned Ponderosa Pine Forests by Neotropical Migrant Passerines	2008	Clark Rushing			Multiple	Forest Management	Birds	Mark Brennan
Forestry	Survey of Critical Biological Resources in Boulder County	2001	Stephanie Neid	Colorado State University	Colorado Natural Heritage Program	Multiple	Survey	Resources	
Forestry	Effects of Wildfire on Ponderosa Pine Ecosystems at Walker Ranch	2001	Eric Petterson	WP Natural Resource Consulting, Inc.		Walker Ranch	Wildfire Effects	Ponderosa Pine	Randy Coombs
Forestry	The Historic Range of Variability of Fire in the Montane Zone: Past Fire Types and Fire Effects.	2002	Rosemary Sherriff	CU Boulder	Dept of Geography	Multiple	Wildfire Effects	Montane Zone	Randy Coombs
Forestry	Effects of Thinning and Chipping on Tree Regeneration and Understory Plant Communities in a Ponderosa Pine Forest.	2006	Brett Wolk	CSU Fort Collins	Dept of Forest, Rangeland and Watershed Stewardship	Heil Valley Ranch	Forest Thinning	Understory Vegetation	Chad Julian
Forestry	Effects of Forest Thinning and Chipping on Soil Properties and Understory Vegetation at Heil Valley Ranch	2006	Elisa Miller	CU Boulder	Dept of Ecology and Evolutionary Biology	Heil Valley Ranch	Forest Thinning	Understory Vegetation	Chad Julian
Forestry	Impacts of woodchip amendments and soil nutrient availability on patterns of understory vegetation establishment following thinning of a ponderosa pine forest	2008	Elisa Miller	CU Boulder	Dept of Ecology and Evolutionary Biology	Heil Valley Ranch	Forest Thinning	Understory Vegetation	Chad Julian
Forestry	Rehabilitating Slash Pile Burn Scars In Upper Montane Forests	2008	Paula Fornwalt	USDA Forest Service	Rocky Mountain Research Station	Multiple	Forest Management	Understory Vegetation	Chad Julian
Plant Ecology/Weeds	The Use of Mycorrhizal Fungi in Restoration of Highly Disturbed Soils	2002	Michelle DePrenger-Levin	Denver Botanic Gardens		Heil Valley Ranch	Revegetation	Mycorrhizal Fungi	Claire DeLeo
Plant Ecology/Weeds	Eldorado Fire at Walker Ranch Vegetation Reestablishment Monitoring 2002	2002	Patrick Murphy	Ecotone Corporation		Walker Ranch	Fire	Vegetation Reestablishment	Claire DeLeo
Plant Ecology/Weeds	Management Strategies for the Establishment of Warm and Cool Season Grasses in Downy Brome Infested Rangeland	2003	George Beck	CSU Fort Collins	Dept of Bioagricultural Sciences and Pest Management		Weed Control	Downy Brome	Steve Sauer
Plant Ecology/Weeds	The Effects of a Fall versus Spring Prescribed Burn on the Control of Cheatgrass and Japanese Brome at Rabbit Mountain Open Space	2003	Michelle DePrenger-Levin	Denver Botanic Gardens		Rabbit Mountain	Prescribed Burn	Japanese Brome	Claire DeLeo
Plant Ecology/Weeds	The Use of Mycorrhizal Fungi in Restoration of Highly Disturbed Soils at Heil 2003	2003	Michelle DePrenger-Levin	Denver Botanic Gardens	Research and Conservation Department	Heil Valley Ranch	Revegetation	Mycorrhizal Fungi	Claire DeLeo
Plant Ecology/Weeds	Management Strategies for the Establishment of Warm and Cool Season Grasses in Downy Brome Infested Rangeland	2004	George Beck	Colorado State University	Department of Bioagricultural Sciences and Pest Management		Weed Control	Downy Brome	Steve Sauer
Plant Ecology/Weeds	The Effects of Fall and Spring Prescribed Burns on the Control of Cheatgrass and Japanese Brome at Rabbit Mountain Open Space	2004	Michelle DePrenger-Levin	Denver Botanic Gardens		Rabbit Mountain	Prescribed Burn	Japanese Brome	Claire DeLeo
Plant Ecology/Weeds	Use of the Natural Herbicide, Catechin, for Noxious Weed Management, Trail-side Weed Control, and Natural Areas Revegetation Efforts in Boulder County	2004	Philip Westra	CSU Fort Collins	Dept of Bioagricultural Sciences and Pest Management		Weed Control	Catechin	Steve Sauer
Plant Ecology/Weeds	Kochia Control to Aid Establishment of Perennial Grasses and Forbs	2005	George Beck	CSU Fort Collins	Dept of Bioagricultural Sciences and Pest Management		Weed Control	Kochia	Steve Sauer
Plant Ecology/Weeds	An Evaluation of the Establishment and Efficacy of the Biocontrol Agent Mecinus janthinus on the Invasive Weed Linaria dalmatica	2005	Mary Jamieson	CU Boulder	Dept of Ecology and Evolutionary Biology		Weed Control	Mecinus janthinus	Steve Sauer
Plant Ecology/Weeds	The Effects of a Fall and Spring Prescribed Burn on the Control of Cheatgrass and Japanese Brome at Rabbit Mountain Open Space	2005	Michelle DePrenger-Levin	Denver Botanic Gardens		Rabbit Mountain	Prescribed Burn	Japanese Brome	Claire DeLeo
Plant Ecology/Weeds	Analysis of Canada Thistle Biomass Reduction from NOP Approved Non-Tillage/Cultivation Control Methods	2006	Adrian Card	CSU Extension	Cooperative Extension		Weed Control	Canada Thistle	Steve Sauer
Plant Ecology/Weeds	Establishing Native Plants on Abandoned Farmland at Rabbit Mountain Open Space (Cemex): Year 1	2006	Cynthia Brown	CSU Fort Collins	Dept of Bioagricultural Sciences and Pest Management	Rabbit Mountain		Native Plants	Claire DeLeo
Plant Ecology/Weeds	Broadleaf Rangeland Herbicide Effects on Established and Seedling Native Forbs, Shrubs, and Grasses	2006	George Beck	CSU Fort Collins	Dept of Bioagricultural Sciences and Pest Management		Weed Control	Kochia	Steve Sauer
Plant Ecology/Weeds	The Role of Soil Nitrogen Availability of the Defensive Chemistry of an Invasive Plant Linaria Dalmatica Scrophulariaceae	2006	Mary Jamieson	CU Boulder	Dept of Ecology and Evolutionary Biology	Multiple	Weed Control	Mecinus janthinus	Steve Sauer
Plant Ecology/Weeds	Boulder County Weed Mapping Project: Species Base Maps	2006	Phil Westra	CSU Fort Collins	Dept of Bioagricultural Sciences and Pest Management		Weed Mapping		Steve Sauer
Plant Ecology/Weeds	Establishing Native Plants on Abandoned Farmland at Rabbit Mountain Open Space (Cemex): Year 2	2007	Cynthia Brown	CSU Fort Collins	Dept of Bioagricultural Sciences and Pest Management	Rabbit Mountain		Native Plants	Claire DeLeo
Plant Ecology/Weeds	Broadleaf Rangeland Herbicide Effects on Established and Seedling Native Forbs, Shrubs, and Grasses	2007	George Beck	CSU Fort Collins	Dept of Bioagricultural Sciences and Pest Management		Weed Control	Kochia	Steve Sauer
Plant Ecology/Weeds	Evaluation of the Potential for Teaching Cattle to Graze Late Season Diffuse Knapweed	2007	Kathy Voht	Livestock for Landscapes, LLC			Cattle Weed Control	Diffuse Knapweed	Rob Alexander
Plant Ecology/Weeds	Eldorado Fire at Walker Ranch: Vegetation Reestablishment Monitoring 2007	2007	Patrick Murphy	Ecotone Corporation		Walker Ranch	Fire	Vegetation Reestablishment	Claire DeLeo
Plant Ecology/Weeds	Establishing Native Plants on Abandoned Farmland 2006-2008	2008	Cynthia Brown	CSU Fort Collins	Dept of Bioagricultural Sciences and Pest Management	Rabbit Mountain		Native Plants	Claire DeLeo
Plant Ecology/Weeds	We'd Eat It!	2008	Kathy Voht	Livestock for Landscapes, LLC		Cohig	Cattle Weed Control	Diffuse Knapweed	Rob Alexander
Visitor Studies	Mountain Bike Use and Compliance on the Canyon Loop Trail at Betasso Preserve	2003	Parks and Open Space	Boulder County	Resource Management	Betasso Preserve	Survey	Mountain Bikes	Michael Bauer
Visitor Studies	Recreation Conflict at Six BCPOS Properties: A Baseline Study	2003	Parks and Open Space	Boulder County	Resource Management	Betasso Preserve	Survey	Recreation Conflict	Michael Bauer
Visitor Studies	Characteristics and Preferences of Mountain Bikers on Boulder County Parks and Open Space	2003	Stacey Schulte	Planning Alternatives		Multiple	Survey	Mountain Bikes	Michael Bauer
Visitor Studies	Visitor Support for Dog Restriction at Heil Valley Ranch, Hall Ranch and Rabbit Mountain	2004	Parks and Open Space	Boulder County	Resource Management	Betasso Preserve	Survey	Dogs	Michael Bauer
Visitor Studies	Five-Year Visitor Study	2005	Parks and Open Space	Boulder County	Resource Management	Betasso Preserve	Survey	Visitor Demographics	Michael Bauer
Visitor Studies	Nature as Your Neighbor: Results of the 2005 Survey of Adjacent Landowners	2005	Stacey Schulte	Planning Alternatives		Multiple	Survey	Adjacent Landowners	Michael Bauer
Visitor Studies	Managing Your Natural Resources - Living Near Boulder County Parks and Open Space Forest Ecosystems	2007	Parks and Open Space	Boulder County	Resource Management	Betasso Preserve	Survey	Resource Management Policy	Michael Bauer
Visitor Studies	Latino and Hispanic Perceptions	2008	Abby Hickcox	CU Boulder	Dept of Geography	Multiple	Survey	Visitor Demographics	Pascale Fried
Visitor Studies	Natural and Cultural History Programs: A Survey of Participants from 2006 to 2008	2008	Parks and Open Space	Boulder County	Resource Management		Survey		Michael Bauer
Visitor Studies	Walker Ranch Management: A Survey of Visitors and Neighboring Landow	2008	Parks and Open Space	Boulder County	Resource Management	Walker Ranch	Survey	Visitor Demographics	Michael Bauer
Wildlife	Utilization of Scent-Station Surveys to Determine the Response of Predators to Recreation on Heil Ranch.	2000	Bill Given	Colorado Urban Wildlife Institute		Heil Valley Ranch	Survey	Scent Stations	Mark Brennan
Wildlife	Monitoring of Prairie Dogs on Boulder County Open Space 2000	2000	Carron Meaney			Multiple		Prairie Dog	Mark Brennan
Wildlife	Monitoring of Prairie Dogs on Boulder County Open Space 2001	2001	Carron Meaney			Multiple		Prairie Dog	Mark Brennan
Wildlife	Utilization of Scent-Station Surveys to Determine Predator Abundance and Spatial Use on Caribou Ranch (Baseline for Response to Recreation)	2002	Bill Given	Colorado Urban Wildlife Institute		Multiple	Scent Stations	Predators	Dave Hoerath
Wildlife	Butterfly Survey at Heil	2002	Jan Chu			Heil Valley Ranch	Inventory	Butterflies	Mark Brennan
Wildlife	Final Report: Census and Radio Telemetry of Bats at Heil Valley Ranch, 2002	2002	Rick Adams	Colorado Bat Society		Heil Valley Ranch	Radio Telemetry	Bats	Randy Coombs
Wildlife	Utilization of Scent-Station Surveys to Determine Predator Abundance and Spatial Use on Caribou Ranch Open Space (2nd Year of Baseline for Response to Recreation)	2003	Bill Given	Western Wildlife Institute		Multiple	Scent Stations	Predators	Dave Hoerath
Wildlife	Butterfly Survey	2003	Jan Chu			Heil Valley Ranch	Inventory	Butterflies	Mark Brennan
Wildlife	Spatial Patterns of Historical Plague Incidence on Black-tailed Prairie Dog (Cynomys ludovicianus) Colonies	2004	Amelia Markeson	CU Boulder	Dept of Ecology and Evolutionary Biology	Multiple	Plague	Prairie Dog	Mark Brennan
Wildlife	Effects of Dogs on Wildlife Communities	2004	Ben Lenth	CSU Fort Collins	Dept of Ecology and Dept of Forest, Rangeland and Watershed Stewardship	Multiple	Survey	Dogs	Mark Brennan
Wildlife	An Inventory of Butterflies - Heil Valley Ranch Open Space 2002 - 2004 and Caribou Ranch Open Space 2004	2004	Jan Chu			Multiple	Inventory	Butterflies	Mark Brennan
Wildlife	An Inventory of Butterflies on Open Space Properties	2005	Jan Chu			Multiple	Inventory	Butterflies	Mark Brennan
Wildlife	Mammal and Flea Occurrence in Association with Black-tailed Prairie Dog (Cynomys ludovicianus) Colonies: Implications for Interspecific Plague Transmission	2005	Robert Brinkerhoff	CU Boulder	Dept of Ecology and Evolutionary Biology	Multiple	Plague	Prairie Dog	Mark Brennan
Wildlife	Plague and Prairie Dog Predators	2005	Sharon Collinge	CU Boulder	Dept of Ecology and Evolutionary Biology		Plague	Prairie Dog	Mark Brennan
Wildlife	Effects of Dogs on Wildlife	2006	Ben Lenth	CSU Fort Collins	Dept of Ecology and Dept of Forest, Rangeland and Watershed Stewardship	Multiple	Survey	Dogs	Mark Brennan
Wildlife	Butterfly Inventory and Research on Open Space Properties	2006	Jan Chu			Multiple	Inventory	Butterflies	Mark Brennan
Wildlife	Life after Plague: Black-tailed Prairie Dog Demography in Repopulated Colonies	2007	Katherine McClure	CU Boulder	Dept of Ecology and Evolutionary Biology	Multiple	Plague	Prairie Dog	Mark Brennan
Wildlife	Butterfly Inventory of the Benjamin Property	2008	Jan Chu			Benjamin	Inventory	Butterflies	Mark Brennan
Wildlife	http://www.bouldercounty.org/openspace/resources/res_funding/res_fund_pdfs/SGR/2009/2009McClure.pdf	2009	Katherine McClure	CU Boulder	Dept of Ecology and Evolutionary Biology	Multiple	Plague	Prairie Dog	Mark Brennan