

MAKING A DIFFERENCE



BLM'S 1999 VOLUNTEER ANNUAL REPORT



Report produced by:



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The Bureau of Land Management's National Science and Technology Center supports other BLM offices by providing a broad spectrum of services in areas such as biological resources, engineering, lands and minerals, library assistance, mapping sciences, photo imaging, physical sciences, communications, and technology transfer.

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BLM's 1999 Volunteer Annual Report

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Washington, DC



Glenn Stockdale explained to students the difference between mature and immature bald and golden eagles at the BLM Butte, Montana, Field Office's Canyon Ferry Bald Eagle Viewing Program.

On the cover—Top: Three volunteers used a metal detector to search for early Spanish colonial artifacts. Middle: California Coastal National Monument, Monterey, California. Bottom: In, Rolla, Missouri, student volunteers from the local high school helped to clean up the Big Piney River on National Public Lands Day.

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To Our Volunteers

I am proud to present the 1999 Annual Volunteer Report. This publication provides an overview of the accomplishments of over 17,000 dedicated citizens who have worked this past year, either individually or as part of a group, in a broad array of volunteer positions for the Bureau of Land Management (BLM). This report celebrates your many accomplishments and the leadership of the BLM employees who work side-by-side with you. Hopefully, as you read it, you will gain an appreciation of the importance of your volunteer work.

The BLM is a little agency with a big job. It has a full-time staff of only 8,700 employees—fewer people than the city of Albuquerque, New Mexico, employs in its public school system. In spite of this, the BLM is responsible for managing nearly 1/8 of the land in the entire United States. (That's an area almost equal to all the land in the states of Texas and California put together.) Your support is critical to helping BLM live up to the challenge of managing these lands. Without you, many important projects simply would not get done.



A crew of volunteers improved a portion of trail outside an open vertical shaft at the historic Copper Globe Mine near Price, Utah, on National Public Lands Day 1999.

On behalf of the BLM workforce, I want to thank you for taking the time to give something back to your public lands. Your efforts make a difference. Keep up the great work!

Sylvia V. Baca
Acting Director



Volunteers built a fire pit at the Fort Benton, Montana, site on the Upper Missouri Wild and Scenic River.

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BLM's 1999 Volunteer Program

*I*n Fiscal Year 1999, some 17,300 individuals contributed their time and energies to improve our public lands. These dedicated volunteers donated more than 962,293 hours of work, the equivalent of 534.6 work years! The monetary worth of our volunteers' contributions is estimated to be over \$14 million. Our volunteers cleaned up recreation areas, restored wetlands, improved wildlife habitat, repaired fences, pulled weeds, built trails, and

completed hundreds of jobs to improve our public lands.

But volunteer contributions cannot be measured solely in terms of dollars saved. Volunteers help BLM educate others about the public lands and the complex management challenges the agency faces every day. And, they serve as role models for all of us, instilling pride in the public lands and in public land stewardship.



At Montana's Altman Confluence site near Billings, volunteers poured a 140-foot x 5-foot wheelchair-accessible sidewalk leading to a vault toilet; an extra 2-foot x 3-foot commemorative slab was also poured to allow National Public Lands Day volunteers to leave their signatures or initials. They indeed left their mark upon the land!

Volunteer Activity for Fiscal Years 1995-99

	1995	1996	1997	1998	1999
Total Participants	19,626	16,880	20,145	23,625	17,300
Total Hours	1,219,489	1,097,115	1,149,294	1,355,130	962,293
Value to BLM (\$)	13,602,369	12,369,325	14,428,428	19,378,359	14,270,805*
Work-Years	677	609	638	753	534.6
Average Hours per Volunteer	62	68	57	57	56
Value of One Work Hour (\$)	11.15	11.27	12.55	14.30	14.83**
Value of One Work Year (\$)	20,077	18,413	22,615	25,735	26,694

* The 1999 volunteer program was accomplished at a cost of \$3,213,362, a return of about \$4.40 to every \$1.00 expended.

** The value of volunteer contributions was calculated at the rate of \$14.83 per hour, a figure calculated by the Independent Sector (<http://www.indepsec.org>), a national leadership forum committed to volunteerism and citizen action. The amount was based on the latest data available on the average hourly wage for nonagricultural workers as published in the Economic Report of the President (2000 Edition).

Note: In FY 99, BLM initiated a new methodology for field offices to report volunteer activity. Therefore, to make reliable comparisons, readers should not compare this year's data with data from prior years, but only with data collected from this time forward.

National Totals

Program	Volunteer Hours	Hosted Worker Hours	Total Hours	Percentage of Program
Recreation	313,089	79,365	392,454	41%
Biological Resources	86,645	37,390	124,035	13%
Wild Horse and Burro	13,672	66,342	80,014	8%
Cadastral Survey	3,170	0	3,170	0%
Wilderness	13,531	0	13,531	1%
Riparian/Watershed	34,726	8,212	42,938	4%
Cultural/Historical	96,657	18,135	114,792	12%
Minerals	9,801	5,099	14,900	2%
Support Services	54,119	30,222	84,341	9%
Environmental	61,925	5,014	66,939	7%
Education/Interpretation				
Other	21,295	3,884	25,179	3%
Total	708,630	253,663	962,293	100%

The term "volunteers" as used in the text of this report includes "hosted workers." Volunteers work for BLM without being paid. They donate their time and, in some cases, equipment and money to assist BLM with a variety of jobs. Hosted workers, on the other hand, are paid by another organization, but work for BLM at no charge. Hosted workers made up about 27 percent of the total volunteer time in 1999. Their contributions are included in the State and National Totals tables.

Thanks to Our Partners!

The Bureau of Land Management depends on thousands of partner organizations across the country that help us meet the challenge of managing over 260 million acres of public lands. The partners listed here have been singled out for recognition by BLM field offices for their substantial contributions to the BLM program in 1999. Our partners

volunteer their time, talents, materials, and funds to help bring volunteer projects to life. They also help us educate the public about the special resources under our care. BLM is grateful to its partners for helping us meet our goals and for their shared commitment to the public lands.

NATIONAL ORGANIZATIONS

American Hiking Society

Americorps

Anglers United

Back Country Horsemen

Boy Scouts of America

Continental Divide Trail Alliance

Ducks Unlimited

Earthwatch Institute

Elderhostel

Girl Scouts of the U.S.A.

Hawk Watch International

Honda of America - Project Aware

Humane Society of America

Kawasaki Motor Corporation

McDonald's

Minerals Management Service

National Environmental Education & Training Foundation

National Forest Foundation

National Park Service

National Speleological Society

National Tree Trust

Oregon-California Trails Association

Pheasants Forever

Public Lands Foundation

Rocky Mountain Elk Foundation

San Bernardino National Forest Association

Sierra Club

Student Conservation Association

The Nature Conservancy

Trout Unlimited

U.S. Army Corps of Engineers

U.S. Bureau of Reclamation

U.S. Department of Justice,
Office of Juvenile Justice and

Delinquency Prevention

U.S. Fish and Wildlife Service

U.S. Forest Service

U.S. Geological Service

ALASKA

Backcountry Horsemen's Association

Northstar Volunteer Fire Crew

British Petroleum Exploration Alaska

ARIZONA

Public Lands Interpretive Association

Betty's Kitchen Protective Association

Golden Kiwanis

Hidden Shores RV Village

Lake Havasu City Parks & Recreation

Arizona Game & Fish Department

Arizona State Parks

Arizona Archaeology Society Site

Steward Program

Mojave County Sheriff's Shock

Incarceration Program

Teen Court Program

Lake Havasu Fisheries Improvement

Partnership Program

Arizona Strip Interpretive Association

U.S. Army—Fort Huachuca

Cochise County

City of Sierra Vista

Amigos del Rio

Shimano Corporation

Hualapai 4-Wheelers

Mohave Country Trails Association

Bullhead 4-Wheelers

Historic Route 66 Association of Arizona

Bashas'

Pepsi Cola Bottling of Safford

People for the West/USA

CALIFORNIA

Gear Grinder's 4-Wheel Drive Club

Friends of the Inyo Wilderness

Diamond T Apparel

Hard 4

Gear One

Yarnell Specialties

Gilmore Off-Road

Chenoweth Racing Products

Play-Tech Off Road

McKenzie's

Buggy World

Alumi-Craft

Mazzone Sand Cars

Sand Limo

Suspensions Unlimited

Off Road Warehouse

Lone Star Racing

Wilson's Machine Works

RLR Manufacturing

Hi-Jumpers/Prowlers

E.P. Construction

Funco Motorsports

Duncan Racing

Sand Cars Unlimited

Malcomb Smith Motorsports Inc.

Kawasaki of Riverside

Sweet Maries

IMS

Johnson's Bug Machine

Fullerton Sand Tires

Cycle Parts West

Chenoweth Fabrications

Orange County Honda

Sand Sports Magazine

Rick's Sand Buggy Repair and Parts

Jamison Engineering Inc.

Harrison Racing

Motorcycle Central

ALBA Action Sports

Scorpion Sand Products

Weekend Concepts

California Green Sticker Program

California Department of Corrections

Lassen County Special Weed Action Team

COLORADO

Colorado Native Plant Society

Montrose County Partners Organization

Western Slope 4-Wheelers Club

Delta County

Tammywhackers

North Fork Trails Network

A Grassroots Aspen Experience

Volunteers for Outdoor Colorado

Southwest Outdoor Volunteer Organization

Top of the Trail Volunteers

Public Lands Interpretive Association

Delta Correctional

National Railway Historical Society, Rio Grande Chapter

Telluride Institute

Colorado Plateau Mountain Bike Association

Colorado Fourteeners Initiative

Colorado Wild Horse and Burro Coalition

Superior 4x4s

Predator 4 WD Shop

Colorado Rockhoppers

Pikes Peak Mining Company

Rocky Mountain Trails Association

Friends of the Mustangs

Colorado OHV Coalition

Quaddusters ATV Association

Colorado Motorized Trail Riders Association

Rocky Mountain Field Institute

Colorado Land Cruisers Club

Garden Park Paleontology Society

Colorado Wildhorse Inmate Program

Colorado Department of Natural Resources

EASTERN STATES

Raps Road Association

Elbow Lake Association

Urban Tree House, Washington, DC

Anacostia National Park

Prince William Forest Park

Washington, DC Health Administration

Maryland Department of Natural Resources

Anacostia-Congress Heights Steering Committee

Greater Metropolitan Washington, DC Urban League

U.S. Environmental Protection Agency, Chesapeake Bay Project Office

Pohick Bay Regional Park

IDAHO

Cassia/Minidoaka County M-C Work Program

Great Basin Fire Prevention Team

Idaho Department of Lands

Belmont Care Center

St. Anthony Juvenile Center

Idaho Cave Survey Group

Joshua D. Smith Foundation

North Idaho Rugby

Spokane Mountaineers
Idaho Native Plant Society
Auto Tend
Sept Enterprises
Boise Little Theater
Power Bar
BLM Smokejumpers

MONTANA/DAKOTAS

Pompeys Pillar Interpretive Association
Pryor Mountain Citizens Watch
Public Lands Citizens Watch
Garnet Ghost Town Association
Canyon Ferry Bald Eagle Program
Montana Fish, Wildlife and Parks
Lewis and Clark County
Helena Chamber of Commerce
Montana Power Company
Montana Department of
Environmental Quality
Sunburst Association
The Outfit

NEVADA

High Rock Trekkers 4-Wheel Drive
Club
Aero-Pac Rocketry Club
Desert Survivors
Burning Man
White Pine County
Carson Kiwanis Club
City of Carson City
Nevada Division of Wildlife
Desert Research Institute
Elko Bighorns Unlimited
Boss Tanks

NAVCO Construction
Dean Connley Fencing
Soil and Water Enhancement Action
Team Coalition (SWEATCO)
152nd Air Force Reserve

NEW MEXICO

Los Amigos
New Mexico Mountain Club
Onate Project-Thirteen
Taos Archaeological Society
New Mexico Volunteers for the Outdoors
Santa Fe Southern Railway
Santa Fe Northwest Advisory Council
(SNAC)

OREGON

Maclearn School (Mckay Cottage)
Trail Tenders
Operation Rust Bucket
Oregon School for the Deaf
Oregon Commission for the Blind
Oregon Hunters Association
Oregon Department of Fish and Wildlife
Oregon Parks and Recreation
Department
Confederated Tribes of Siletz Indians of
Oregon
Geiger Federal Work Release Program
Coquille Indian Tribes
Oregon State Historic Preservation
Office
Pacific Northwest 4-Wheel Association
Sheridan Federal Prison
Wilderness Volunteers

UTAH

Utah Division of Wildlife Resources

Emery County

Crow Canyon Archaeological Center

Utah Museum of Natural History

Utah State Office of Education

Utah Division of Indian Affairs

Utah Office of Museum Services

Great Basin Environmental Education
Center

Salix Corporation

Edge of the Cedars Museum

Hill Air Force Base

Bonneville Resource Conservation and
Development Council

W.O.R.K. Program

Elbow Ranch Project

Utah Department of Youth Corrections

Vernal Junior High Escape Club

WYOMING

Sweetwater County

McDonalds

Spring Grazing Association

Solid Waste District #1

City of Cody

City of Rawlins

Shoshone Backcountry Horseman's
Association

Part Time Grotto

Sweetwater Snopokes Snowmobile
Club

It's Academic

*V*olunteers come in all shapes and sizes—and in all ages too. Students from elementary through graduate school have been making a real difference through their volunteer efforts on public lands. It only takes a few examples to demonstrate the impact that energetic and enthusiastic young people can have.

Take two University of Alaska archaeology students who conducted a survey of features along the historic Davidson Ditch north of Fairbanks. The ditch is on the National Register of Historic Places and dates to the 1920s and 1930s, but it has never been properly inventoried. The students gathered detailed descriptions of features associated with the ditch and logged GPS coordinates, all of which will contribute to better management of this historic resource in the future.

Students at Mattole Elementary School in California have been taking part in Adopt-a-Beach and Coastal Cleanup projects for nine years. In addition to science activities and a beach cleanup, this year fourth, fifth, and sixth graders put up a new mural at the Mattole Campground in the King Ranch National Conservation Area. As part of their learning while volunteering, the children each did an in-depth study of a particular sea creature, which they then painted on the mural.

Students come from foreign countries, too, to learn and volunteer on public lands. Experience International, a non-profit organization in Everson, Washington, sponsored several students in 1999, who worked with BLM resource professionals one-on-one. BLM benefits from the work of bright and eager volunteers, who in turn receive training and experience in their chosen fields.

They say that teachers “touch the future.” Thanks to a teacher in Florida, the future may yield a crop of young people pursuing careers in natural resources. At Jupiter Community High School, Environmental Research and Field Studies Academy, one teacher has served as a volunteer recruiter for BLM special projects for three years. He and his students participate in National Public Lands Day events that often evolve into year-long projects. This past year, student volunteers assisted with a wetlands restoration project that included re-planting more than 7,000 mangrove seedlings in Jupiter Inlet Natural Area.

The future for Jupiter Inlet looks brighter, and so does the future at many BLM sites across the country—thanks to the work of our many student volunteers.

Outstanding Volunteers Honored: Our 1999 Volunteer Award Winners



BLM Director Tom Fry (left) with Winners of the Bureau of Land Management's "Making a Difference" 2000 Volunteer Award Ceremony held Thursday, May 11, 2000, at the Department of the Interior in Washington, DC. From left to right: BLM Director Tom Fry; volunteer winner Sherry Hayes (sitting); volunteer winners Ed Walheim, Bill Cook, and Amy Craig; and BLM winner David Erickson. Standing in front of him is volunteer winner Barbara Robb; then Willie Robb; BLM winner Doug Huntington; and volunteer winner Davis Farrar, representing the Red Hill Council. Not pictured are representatives of the Friends of the Mustangs group from Colorado and Shirley Craig (mother of Amy Craig), also a winner, who was not able to attend due to an injury. Photo by Tami Heilemann, DOI.

SPECIAL PEOPLE "MAKING A DIFFERENCE!"

Seven outstanding BLM volunteers, two volunteer groups, and two exceptional BLM employees were recognized May 11, 2000, in BLM's "Making a Difference" national volunteer awards ceremony held at the renovated South Penthouse/Terrace of the Main Interior Building in Washington, DC. The awards were presented for outstanding service in 1999.

Since 1995, BLM has awarded the "Making a Difference" national level award to our exceptionally dedicated volunteers. These special people represent the best national examples of volunteer work on the public lands. And, they represent only a small fraction of the exceptional contributions that are made every day by thousands of people on public lands throughout the country.

A national panel of BLM and partner representatives selected the winners

from nominations submitted by all 12 BLM State Offices and the National Interagency Fire Center. The winners were selected for their exceptional contributions in making a difference in the management of the public lands, rather than for length of service or number of hours contributed. Collectively, these 11 winners represent eight BLM field offices in five western states.

VOLUNTEERS

Bill Cook

Bill Cook of Yermo, California, patrols two popular canyons in the Calico Mountains outside of BLM's Barstow Field Office, not once but TWICE each day. Bill not only picks up trash, he takes the time to talk to 95 percent of the visitors. His presence deters vandalism and inspires a conservation ethic among the public land users, many of whom pitch in and help when they see him working to clean up the public lands. Bill's daily routine started as a follow-up to a National Public Lands Day event where volunteers removed more than six tons of trash from the area in one day. When Bill offered to provide lunch for the event, little did he know he would be feeding 500 hungry volunteers. Bill also once helped rescue a teenager who had fallen into an abandoned mine in the area. Bill's presence on and care for

the land sets a very high standard for volunteerism in BLM.

Shirley and Amy Craig

For 11 years, the Craigs of St. George, Utah, worked for the BLM's Arizona Strip Field Office. For five years, George and Shirley Craig documented ancient rock art in the Little Black Mountain Rock Art Site, working evenings and weekends. Their daughter Amy joined them in 1993, and they began to share their expertise in rock art research with others, presenting papers and representing the BLM in Arizona, Nevada, Utah, and California. In January 1993, they were named Regional Site Steward Coordinators and began conducting training and field trips for other site stewards. In 1995, they received the Regional Coordinator of the Year Award from the State of Arizona. George Craig passed away in 1996, but his memory lives on as Shirley and Amy continue the work that he had been so much a part of. In addition to coordinating the site steward program, Shirley and Amy have continued their own rock art research and have recruited additional volunteers to assist.

Sherry Hayes

Sherry Hayes, of Bisbee, Arizona, is recognized for her significant contributions to the beautiful San Pedro National Conservation Area, the most

important riparian complex in the Sonoran Desert. As a member of the "Friends of the San Pedro River," she donated over 600 hours last year alone doing just about everything from marketing to bird banding. The mission of the Friends group is to support the BLM in its stewardship of the Conservation Area, located south of Tucson. Sherry did this in many ways. For example, she designed several computer database programs to track volunteer hours, purchase orders, and even bird locations. In addition, she redesigned the newsletter and started a web page for the area. Both indoors at the computer and outdoors on the land, Shirley has proven that one person can "make a difference."

Willie and Barbara Robb

Willie and Barbara Robb of Twentynine Palms, California, donated over 1,600 hours (the equivalent of 10 months) of their time to welcome visitors to the public lands near Twentynine Palms. They manage and staff an official BLM Visitor Information Outpost, saving the BLM well over \$30,000 per year. They play a key role in representing the BLM at the only public contact station within the community of about 90,000 people. In addition to selling maps, distributing free information, and answering myriad questions, the Robbs also promote goodwill within the community. Representing BLM at the local Earth

Day event sponsored each year by the U.S. Marine Corps, they reach more than 7,000 community members and tourists, many of whom have never heard of the BLM. Their dedication is evident by the fact that they also take on labor intensive jobs such as facility and road maintenance in their so called "spare" time.

Ed Waldheim

Ed Waldheim, of Glendale, California, has volunteered for nine years in the BLM's Ridgecrest Field Office promoting wise off-highway vehicle (OHV) use on the public lands in southern California. As leader of BLM's "Friends of Jawbone" volunteers, he supervises staffing of the Jawbone Visitor Station and conducts weekend volunteer events. He also set up "Smitty's Volunteers." This group of 35 OHV volunteers worked 14 weekends in 1999 in support of a six-year project to designate a 126-mile vehicle route across 63,000 acres in the Rand Mountains. The route will keep OHV users off sensitive habitat areas.

Another group established by Ed in 1999 assists BLM in implementing a 286-mile vehicle route system in the Jawbone-Butterbredt Area of Critical Environmental Concern (ACEC). These volunteers are restoring areas damaged by OHVs and are educating public land users in order to improve compliance with OHV rules. Ed also

spearheaded a project to map OHV routes and obtained a \$19,000 grant to distribute maps to users. Ed has been instrumental in obtaining additional grants to support various projects of the Ridgecrest Field Office.

VOLUNTEER GROUPS

Friends of the Mustangs

Judy Cady, President

Patsy Davis

Beverly Madaris

Debbie Welsh

For over 17 years, the Friends of the Mustangs group has been a major partner in the management of BLM's Little Book Cliffs Wild Horse Area just north of Grand Junction, Colorado. They have donated thousands of hours and are a key player in the success of the wild horse program in Grand Junction. This year, they worked 2,540 hours at a savings to BLM of over \$20,000. Members work hand in hand with BLM employees in all phases of the wild horse program, with an emphasis on management of the horse range. They inspect and repair springs, fences, and trails, and assist with range studies, horse monitoring, preadoption inspections, and adopted horse compliance. They also promote the wild horse program in parades, fairs, conventions, schools, and horse shows. In short, they have become part of the

solution in managing wild horses on the public lands, and set an excellent example for other volunteer groups.

Red Hill Council

The Red Hill Council, represented by Davis Farrar, is a grass-roots group of volunteers, neighbors, and community partners who came together to help BLM preserve the recreation and aesthetic values of the Red Hills area in central Colorado. Over the past two years, the Council has facilitated public discussion, conducted biological and cultural assessments, and coordinated volunteer work to improve this area which has become an increasingly popular recreation site for residents of the Roaring Fork Valley near Glenwood Springs. In addition, the Council has leveraged \$80,000 in direct and in-kind contributions from community partners to support the management goals of the area. They have set high standards for community partnerships while working for our public lands.

BLM EMPLOYEES

David Erickson

David Erickson, Outdoor Recreation Planner, has greatly expanded the volunteer program in BLM's Roseburg District Office in Oregon by recruiting volunteers to serve in a variety of roles, accomplishing work conservatively valued

at \$200,000. He recruited campground hosts for seven recreation sites in the BLM's Swiftwater Resource Area, who together contributed over 15,000 hours in volunteer service in 1999. Dave scheduled inmate crews, who worked 1,200 hours to construct and repair trails, stabilize streambanks, clear hazardous tree debris, and install drains. He also has coordinated Boy Scout projects and Job Corps assignments. In planning and supervising this work, Dave keeps community interests in mind and has gone out of his way to design trails that are accessible to the physically challenged. Dave is well respected as a leader and as one who can get things done.

Doug Huntington

Doug Huntington has provided outstanding leadership to the volunteer program in BLM's Eugene District in Oregon for many years. In 1999, his active involvement resulted in 277

volunteers contributing more than 35,000 hours of service to our public lands. Dave takes a "hands on" approach, guiding, training, and supervising volunteers, and carefully matching those with unique talents to special jobs. He also leads a special KidsArt program, which gives students an opportunity to create art with environmental themes. Students mentor local artists and display their pieces at an exciting "gallery opening" held at the Eugene District Office. Doug coordinates Eagle Scout and other service projects, and manages several large volunteer events each year, including National Trails Day, National Public Lands Day, and Good Neighbor Day. Without his dedication, many people would miss out on the satisfaction of "making a difference" for their public lands, and BLM would miss out on many outstanding opportunities as well.

Special Events and Programs

Battling Weeds is About Education, Partnerships, and Lots of Hard Labor

Eradicating weeds takes lots of determination, helping hands, and keen eyes, and that is exactly what BLM's "weed warriors" are bringing to the job. It is estimated that weeds (nonnative invasive plants) are spreading at a rate of over 4,600 acres a day on Federal lands alone. Volunteer assistance is essential in battling this invasion. Take "the Tammywhackers" as an example. In 1999, this group assisted in mapping invasive tamarisk trees along the 14-mile Gunnison River corridor in the Gunnison Gorge Wilderness Study Area and Special Recreation Management Area in Colorado. They then mounted an all-out attack on the hardy "tammies," laboring hard for two days chopping and applying chemical control. They did a great job and vowed to return to continue the fight against tammies in the future.

College students also are getting involved. BLM launched a pilot program in 1999 to employ student interns to battle the weed problem by developing and implementing community-based

education and volunteer programs. BLM's Fort Ord, California, Management Area, hosted the first two Student Conservation Association (SCA) interns under the program. These students organized an extensive weed education and "train the trainer" program that served to implement the field component of the Invasive Weed Education Plan, Within Our Grasp. They organized a "War on Weeds" symposium and spoke to over 2,400 people and personally visited 28 different local school and community groups with a one-of-a-kind education program. Additionally, they led local volunteers in weekend weed eradication efforts. The goal of the project is to put in place community programs that will be self-sustaining after the interns leave. The pilot effort was so successful it is being replicated in Cody, Wyoming, where the preliminary reports indicate it is taking off "like a weed."

Also in California, the Lassen County Special Weed Action Team (SWAT) and the BLM Eagle Lake Field Office organized the first county weed pull day, the culmination of "Lassen County Weed Week." SWAT is a consortium of more than two dozen local, state, and



Cub Scouts in California joined the Lassen County Special Weed Action Team (SWAT) to help pull weeds.

federal agencies; Lassen College students; boy scouts; private organizations; and individuals working to control noxious weeds in northeastern California. Donning sturdy gloves and toting plastic bags, volunteer teams fanned out across the campus of Lassen College to pull invasive weeds. The effort resulted in a pile of 60 weed-filled garbage bags, and a greater awareness in the community of the problems caused by these unwanted plants.



Volunteers pulled weeds at the Lassen County Special Weed Action Team (SWAT), Susanville, California.

National Public Lands Day: Local Events Deliver BIG Results

National Public Lands Day (NPLD) is an annual event begun in 1994 to encourage volunteerism to improve and enhance our nation's public lands. The National Environmental Education & Training Foundation (NEETF) is the national coordinator for NPLD events, which have grown in number from nine sites in 1993 to 186 in 1999, 39 of the latter on BLM lands.



National Public Lands Day volunteers helped to construct a shelterbelt electric fence to protect young trees and shrubs at Montana's Altman Confluence site.

In 1999, for example, (then) Acting BLM Director Tom Fry and U.S. Representative Sam Farr pitched in to help at Fort Ord on California's Monterey Peninsula, where volunteers painted tables, restored trails, pulled weeds, and planted native seeds. Gamlin Lake, Idaho, benefited when volunteers constructed



National Public Lands Day volunteers constructed a buck and pole fence to restrict OHV use in and around historic mining operation in Copper Globe Mine, Arizona.

one mile of trail and planted 1,000 trees and shrubs. Elsewhere in Idaho, 15 concrete Historic Oregon Trail markers were installed or relocated. At the Dripping Springs Natural Area in New Mexico, three hiking trails were hardened and improved for better handicap accessibility. BLM-sponsored NPLD sites in Utah enlisted over 170 volunteers, who participated in projects ranging from graffiti removal to trail construction and stabilization. The list of NPLD 1999 accomplishments is as varied as the public lands resources themselves.

From Alaska to Florida, NPLD 1999 volunteers generously contributed their talents to improving, enriching, and conserving the irreplaceable natural and cultural treasures on the public lands. All told, in 1999, 25,000 NPLD volunteers performed work with an

estimated value of \$5 million in all 50 states, the District of Columbia, and Puerto Rico. But NPLD's beneficial effects do not end with the day: successful events foster public lands stewardship and encourage volunteer service throughout the year.

A Memorandum of Understanding among BLM, NEETF, and the Public Lands Foundation was signed in May 1999. The instrument serves to formalize relationships and NPLD responsibilities among the three entities.



National Public Lands Day volunteers at Pohick Bay Regional Park in Virginia helped stabilize a trail near the bay.

Holter Dam Volunteer Campground Host Receives Departmental Award for Bravery

Tom Evans, a volunteer campground host at the BLM Butte (MT) Field Office's Holter Dam Campground, recently

received the Department of the Interior's Citizen's Award for Bravery for his daring attempt to save two young women whose car had plunged into the Missouri River.

Just after midnight on July 19, 1998, Mr. Evans saw the car veer off the road near the campground and then roll into the river. He responded swiftly and decisively; after asking others to call for help, Mr. Evans dropped his boat into the river and rowed toward the women's partly submerged car. Though the car kept moving in the swift current, Mr. Evans and two other men were able to pull the women from the vehicle and get them to shore. Sadly, both women died at the scene.

Mr. Evans was honored with the Citizen's Award for Bravery for the outstanding courage he displayed in endeavoring to save the women's lives. Only two of these Departmental awards are given each year; the awards are intended to honor private citizens who risk their lives to rescue an on-duty Departmental employee or any other person on Department of the Interior property.

Hot Time, Summer in the Cities

In 1999, BLM's Eastern States Office and several partners, including the Greater Metropolitan Urban League, hosted the third annual "Environmental Camp Out," a Washington, DC, "Wonderful Outdoor World" (WOW)



Overnight camping for inner city school kids was sponsored by Eastern States, the Urban League, and other partners.

event. Forty inner-city kids had an unforgettable camping experience in Prince William Forest Park near Dumfries, Virginia. While enjoying the great outdoors, the children learned urban "Leave No Trace" ethics and traveled the stations of "Pathways for Fishing." The highly successful event was made possible by the work of numerous volunteers, many of whom joined the kids on their overnight adventure.

BLM Milwaukee (WI) Field Office volunteers contributed to the Lindsay Heights Neighborhood Restoration Project, one of the largest volunteer efforts to ever take place in an individual Milwaukee neighborhood. BLM volunteers were the first to start the ball rolling in the plan to restore this community; over 300 volunteers joined the effort to clean up the neighborhood and to plant trees.

On National Public Lands Day, the nation's newest Urban Tree House was dedicated at Lynden Hill in Midtown Milwaukee. America's Outdoors, a Federal partnership among the BLM, Forest Service, and National Park Service, sponsored activities that included a ceremonial tree planting, tree identification walk, nature scavenger hunt, and area cleanup. With continued volunteer support, the Tree House will thrive as a community center for environmental education through hands-on experience.

Wild Things, I Think I Love You!

Since the inception of the BLM Volunteer Program in 1982, volunteers and hosted workers have assisted with nearly all the job functions associated with the BLM Wild Horse and Burro

Program. Most of the work has been concentrated within BLM's 200 Herd Management Areas (HMAs), located in Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, and Wyoming, encompassing close to 33.2 million acres of public lands. In these areas, volunteers have assisted in maintaining healthy herds (comprising more than 47,000 wild horses and burros) and a natural ecological balance on the range.

Herd management areas often encompass remote, harsh country. Working under extreme conditions poses challenges for the hundreds of volunteers whose primary tasks are monitoring of both the land and the herds, assisting with removal of excess animals, and preparing animals for adoption. Other volunteers assist with actual adoptions, which take place at about 100 temporary



At an Outdoor Recreation Fair cohosted by BLM and the Arizona Public Lands Information Center, a volunteer used his formerly wild burro—adopted from BLM—to help teach children about public lands.

and permanent adoption centers around the country each year. Some volunteers help with compliance checks, animal training, assistance to new adopters, public outreach at events, and titling animals to adopters. In 1999, nearly 14,000 hours of work performed by some 420 volunteers benefitted the Wild Horse and Burro Program. An additional 66,000 hours of work were performed by 31 Colorado State Penitentiary inmates, who helped to tame and halter break these living legends of the Old West.

Bad Boys Gone Good

Public lands offer many youth and prison inmates the opportunity to learn new skills and to carry out community



Members of "A Grassroots Aspen Experience," a nonprofit organization that focuses on providing youth at risk alternatives and strategies for success volunteered two days of river cleanup on the San Miguel River in celebration of National Rivers Week.

service projects, giving them the chance to identify new and constructive directions in their lives. For instance, during National Rivers Week, members of A Grassroots Aspen Experience, a non-profit organization that provides alternatives and strategies for success to at-risk youth, volunteered for two days on a river float to help cleanup the shoreline of the San Miguel River. The teens were mainly from the East, and really enjoyed their time in the "Wild West."

The Maclaren School (McKay Cottage) is a youth corrections program that has supported the Fishermen's Bend Recreation Area and the entire BLM Salem (OR) District since 1988. The crews of young people and supervisors visit the District's parks twice a week, from October through March, with supervisors guiding their charges through heavy or intensive labor projects. The Maclaren crews have contributed an estimated 24,000 hours of work over the last dozen years.

At the Medford (OR) District's Provolt Seed Orchard, Jackson County inmate crews and community service staff worked nearly 3,000 hours under a formal agreement between Jackson County Corrections and the BLM Medford District. These crews completed work projects that the Seed Orchard

would not normally have been able to accomplish, such as orchard cleanup and maintenance, irrigation, tree maintenance, and fire hazard reduction.

The Uncompahgre Basin Resource Area of the Montrose (CO) District worked with the Delta Correctional Facility Work Crew, whose members worked a grand total of 170 days in 1999. Under the supervision of a BLM hosted worker, the hard-working crew performed a wide variety of services benefitting several BLM resource programs. Primarily, crew members performed trail maintenance and relocation work on the Ute Trail within the Gunnison Gorge Wilderness Area. They also maintained recreation sites and participated in a number of site rehabilitation projects, sign installation projects, and trash cleanups. The work crew also assisted with the care of trees and other plantings along the Uncompahgre RiverWay Trail.

Seven inmates assisted Colorado State Penitentiary's Wildhorse Inmate Program by contributing over 22,000 hours in saddle training of wild mustangs adopted by the public. The Elk River Conservation Camp, a minimum-security California Department of Corrections facility, sent six work crews that worked 10,000 hours clearing fire breaks for the Arcata Field Office. Some 144 Cassia/Minndooka County, Idaho,

inmates provided over a thousand hours of work on recreation site maintenance projects. In Idaho Falls, volunteers from the Saint Anthony Juvenile Hall picked up litter on a dispersed recreation area called Red Road.

Beach, Lake, Creek, and River Cleanups

From the West Coast of California to the Rocky Mountains of Colorado, children and adults alike joined together to clean up the public lands. The beautiful King Range National Conservation Area on the coast of northern California benefited from the ninth annual Adopt-A-Beach and Coastal Cleanup. In addition to performing cleanup activities, fourth-, fifth- and sixth-grade students from Mattole Elementary School put up a new mural at the Mattole Campground and participated in science activities. At a distant shore along the California/Arizona border, the Lake Havasu's Adopt-a-Shoreline cleanup enjoyed its fourth successful year.

In Oregon's Medford District, the twelfth annual Jenny Creek Volunteer Work Project became part of the sixth annual National Public Lands Day in September. This local event has become an anticipated day when families and groups of volunteers of all

ages have a chance to “give something back” to their public lands. A number of volunteer projects were completed to make fencing more wildlife friendly, protect sensitive areas, provide or improve wood duck and songbird nest boxes, remove old fence and metal debris, restore stream channels, and improve habitat for fish by placing wood and rocks in the stream. Young children were naturally attracted to the fish habitat project as it provided ample opportunities for them to throw rocks in the creek. In addition, Boy Scout Troop #7 upgraded a segment of the Grizzly Peak Trail.

Also in Oregon, the seventh annual Rogue River Cleanup in May brought more than 200 volunteers prepared to hike the banks or take to the river in boats to collect trash. By the end of the day, they had collected approximately 50 cubic yards of trash (about five dump truck loads, including 300 tires). BLM employee volunteers provided drop sites for the garbage which was then transported to a dumpster and recyclable piles at the Rand Recreation Site. The Oregon Guides and Packers Association assisted with the cleanup by providing available spaces on several crafts for “boatless” volunteers.

In the heart of Colorado, the Montrose BLM recreation crew teamed up with the Montrose County Partners Organization for a river cleanup trip in honor of National Rivers Week. The young participants (ages 7-17) helped clean and mark campsites and pick up trash along the Escalante to Dominguez section of the Gunnison River. Along the way, the group learned about the ecology of the Gunnison River and discussed river management issues such as tamarisk invasion, endangered fish habitat preservation, and recreation use impacts.

Colorado’s eighth annual Arkansas River Cleanup/Greenup in May attracted 350 volunteers who contributed 2,100 hours to remove more than 25 tons of trash. This is down from 35 tons the previous year, which proves people are beginning to get the message not to litter the Arkansas River! The volunteers also planted 30 cottonwood and ponderosa pine trees along the riverbanks. This event’s great success is due to the generous contributions of the Arkansas Headwaters Recreation Area, the Greater Arkansas River Nature Association, the Colorado Lottery, several local businesses, and many individuals.

Volunteers to the Rescue, Wildlife Says, “Thanks!”

The public lands provide habitat for more than 3,000 species of animals, as well as thousands of plant species across the Western United States and Alaska. Large animals such as elk, bighorn sheep, caribou, deer, and moose share the public lands with hundreds of species of small mammals, waterfowl, fish, raptors, reptiles, and songbirds. BLM relies on volunteers to assist with habitat improvements as well as monitoring and inventorying the many and diverse animals and plants found on the public lands.

Volunteers in Idaho, Nevada, Utah, and Wyoming provided valuable data on raptor populations and nest occupancy and success in 1999. Raptors are birds of prey such as eagles, hawks, and falcons. In addition, volunteers from Hawk Watch International assisted BLM with the Goshute Raptor Project in Elko, Nevada. Their work included scientific research, data collection, and monitoring. The crew also completed wilderness study area surveillance work.

A great diversity of wildlife is found at the San Pedro National Riparian Conservation Area (NRCA) in Arizona. This 50,000-acre riparian area in the desert Southwest is home to more than

100 species of breeding birds, and it provides habitat for another 250 species of migrant and wintering birds. The American Bird Conservancy has recognized this area as a Globally Important Bird Area. The nonprofit “Friends of the San Pedro River” provides support to BLM in its stewardship of the San Pedro NRCA. The Friends conduct interpretive and guided trail hikes, maintain the grounds, assist with bird banding, and complete various additional tasks that enable the BLM to protect and showcase the San Pedro River and its wealth of resources.

Volunteers also play an important role in improving and maintaining fish habitat at Lake Havasu. The Lake Havasu Fisheries Improvement Program is a cooperative partnership with other land and resource agencies and an army of volunteers. This group continues to improve the public fishing access and fisheries habitat of this “sportsman’s paradise” on the Arizona/California border which attracts some four million visitors each year.

Big game species on the public lands are highly valued by sportsmen and other wildlife enthusiasts throughout the country. BLM relies on dedicated volunteers to improve habitat for these species such as desert bighorn sheep, mule deer, and elk. For example, in

Nevada, 21 volunteers from Nevada Bighorns Unlimited, the Fraternity of the Desert Bighorn, Mule Deer Foundation, and the White Pine Sportsman spent two days constructing three water catchments (guzzlers) to implement the White Pine County Elk Management Plan. The Wildlife and Habitat Improvement of Nevada organization provided the aprons. A backhoe was also loaned for use in the project. Among the volunteers were the Administrator of the Nevada Division of Wildlife and the Chairman of the Nevada Board of Wildlife Commissioners.

Let's Recreate in the Great Open Spaces

The public lands provide visitors with a wide array of recreational opportunities such as hunting, fishing, camping, hiking, boating, off-highway vehicle riding, mountain biking, and birding. The BLM manages vast resources to support these diverse pursuits: more than 200,000 miles of fishable streams, 2.2 million acres of lakes and reservoirs, 6,600 miles of floatable rivers, over 500 boating access points, 69 National Back Country Byways, and 300 Watchable Wildlife sites. The agency also manages over 4,500 miles of National Scenic, Historic, and Recreational Trails, in addition to thousands of miles of

multiple-use trails available for motorcyclists, hikers, equestrians, and mountain bikers.

From the solitude of the southern California deserts, to the roaring waters of Alaska's mighty rivers, to the mountain trails of Colorado, volunteers are working long and hard to enhance the recreational opportunities available to the public. In 1999, some 8,151 volunteers put in 392,454 hours of labor valued at \$5.6 million. In fact, over 40 percent of all volunteer time recorded in 1999 benefited the BLM's recreation programs.

Volunteers did everything from serving as campground hosts to staffing boat launch sites, visitor centers, and historic sites. They also helped BLM monitor visitor use, collect data, provide information and maps, explain rules, do maintenance and cleanup, open and close facilities, issue permits, collect fees, provide emergency assistance, build displays, direct traffic, and generally keep BLM facilities running smoothly. Without these loyal and trusted volunteers, BLM would not be able to provide the high quality of service that has been noted in recreational satisfaction surveys.

Many campground hosts return year after year to greet old friends and to

keep the campgrounds safe and inviting. Campgrounds on public lands in Alaska, Arizona, Colorado, Idaho, New Mexico, Oregon, and Utah depended on volunteer hosts in 1999. In Arizona, volunteers at Long Term Visitor Areas help BLM manage over 15,000 acres of public lands and issue more than 11,000 permits to the public.

In addition, BLM has joined with other federal and state agencies and non-profit organizations to offer “one-stop shopping” visitor information in a number of locations, including Arizona’s Public Lands Information Center, the Arizona Strip Interpretive Association, the Eastern Idaho Visitor Center, and Alaska’s Coldfoot and Yukon Crossing Visitor Centers. These centers all benefited from partnerships and volunteer service.

Caves Are Us

Caves are abundant on BLM lands, and require special management attention to provide for visitor safety and wildlife habitat. The National Speleological Society and its local grotto chapters and other volunteers provide BLM with assistance in inventorying, monitoring and protecting caves and related resources on the public lands. The Idaho Cave Survey group mapped and

inventoried numerous cave sites, including some that were unknown to the Idaho Falls District staff. They also installed informational and directional signs in caves for speleologists and the general public.

The Part Time Grotto, a Wyoming Bighorn Basin-based caving group, contributed more than 100 hours removing trash and graffiti painted on cave walls in the Spirit Mountain and Spence Caves. They also modified the entry gate at the Spirit Mountain Cave to allow bats access to inner cave passageways. The group helped guide a special tour of Horsethief Cave for Wyoming congressional aides and recruited members of the Gem State Grotto to travel from the Boise, Idaho, area to help with gate construction. The Part Timers also have been very cooperative in assisting BLM with monitoring cave usage and suggesting ways to improve cave management in the Cody, Wyoming, BLM management area.

Can You Dig It?

BLM manages thousands of archaeological and historic resources on the public lands and relies on volunteers for assistance with protecting and managing these sites. Volunteers assist

with inventory, monitoring, protection, and actual excavations and studies to determine the prehistoric environment.

In New Mexico, The Taos Field Office coordinated with the Santa Fe Northwest Advisory Council (SNAC) and Steven Post from the Office of Archaeological Studies (OAS) in the investigation of a predicted Oñate-era (late 16th or early 17th century) camp located on BLM-managed lands along the proposed route from La Cieneguilla to San Juan Pueblo. SNAC volunteers provided 400 hours in this effort, which included inventory of metal objects located with metal detectors. Even though this early historic camp was not located, the goal of involving the local community in an archaeological investigation was met. These volunteers will become proponents of proactive cultural resource management in the Santa Fe area well into the future.

SNAC volunteers also put in over 2,000 hours on the Archaic Sites Project, an archaeological inventory of about 1,700 acres of BLM lands in the Buckman Road/Santa Fe Ranch area northwest of Santa Fe, New Mexico. This was a professionally supervised, volunteer archaeological inventory that focused on identifying the pre-Puebloan cultural resources on the 18,000 acre tract. Supervised by staff

of the Museum of New Mexico, the volunteers included members of the surrounding community interested in the archaeological resources of the area. The primary project goal was to identify cultural resources within 16 study areas distributed across the tract. Ultimately, 14 areas were examined, totaling 1737 acres of surveyed space and yielding 115 archaeological sites. This project greatly enhanced BLM's knowledge of the archaeology of the area, and will form a good data base for the management of the cultural resources of the area.

In Alaska, The Fairbanks Field Office ran two field archaeology projects in 1999 through a cooperative field school run by the Department of Anthropology of the University of Alaska. In the first project, students spent two months mapping and excavating several small sites near Galbraith Lake on the North Slope of the Brooks Range. The field school was offered as a standard course through the University, which took care of advertising and ran the archaeological dig as a means of providing experience and training to students in archaeological field techniques. BLM provided logistics support in the form of camp equipment and transportation to and from the site, provided communications from the remote location, and made a BLM vehicle available to the crew while they

were on site. Sites excavated were on BLM-managed lands, and the crew stayed at a BLM-managed campsite.

In the second project, a recent graduate and a current graduate student from the University documented historic features along a portion of the Davidson Ditch. The Ditch was constructed in the 1920s to transport water 60 miles to important gold mining areas north of Fairbanks. The students walked 20 miles of the ditch, carrying Global Positioning System units and recording all flumes, penstocks, cabins, head-frames, siphons, and other features they encountered. As a result of their work, BLM now has an accurate map of the upper one-third of the ditch, based on GPS locations and including drawings and photographs of features. Over 60 individual features were documented along the 20-mile section of the ditch. BLM provided the GPS equipment, a satellite telephone for communications, transportation to and from the area, and computer equipment to convert GPS data to maps. The project was also supported by a small grant from the Alaska Gold Rush Centennial Task Force.

Arizona's longstanding Site Steward program continues to provide volunteers who monitor sites and report on evidence of looting or damage. Other volunteers provide guided tours at sites,

public outreach, and education.

Archaeological site records have been verified and corrected, and a database established through volunteer efforts.

Green Thumbs Help Botanists

Volunteers with a "green thumb" are helping BLM care for thousands of plant species growing on public lands throughout the country, from eastern Florida to western Oregon.

In Florida, volunteers are restoring native plants to Jupiter Inlet. Starting in 1997 and continuing through 1999, students of the Jupiter Community High School's Environmental Research and Field Studies Academy participated in National Public Lands Day events with the BLM's Jackson Field Office. During this time they removed exotic plants, planted over 250 scrub oaks, potted over 7,500 mangrove seeds, and salvaged 50 young mangrove plants. They also removed trash, monitored tortoise burrows, and continued their frequent on-site monitoring and nurturing of the plants.

Members of the Colorado Native Plant Society contributed over 100 hours collecting and mounting hundreds of plant specimens provided by the Rocky

Mountain Herbarium in 1999 in Colorado. The specimens will be placed in the Montrose District Herbarium for use by all interested individuals.

At BLM's Elko, Nevada, Field Office, some 45 volunteers worked an estimated 360 hours putting the finishing touches on a native plant arboretum to be used for environmental education. This work was done as part of National Public Lands Day.

The Sprague and Provolt Seed Orchards in Medford, Oregon, rely on a variety of volunteer assistance every year both in the orchards and the greenhouse nursery. In 1999, volunteers at the Sprague Seed Orchard contributed 1,049 hours while volunteers at the Provolt Seed Orchard put in 1,960 hours. Two hosted volunteers at the Sprague Seed Orchard performed security work by providing a presence at the orchard, doing facility and perimeter surveillance, and responding to security alarms. In exchange, the orchard provided these volunteers a place to park a mobile home. Volunteers also include people who regularly work in the greenhouse nursery; a retired BLM employee who builds, maintains, and inventories bird boxes each year at Sprague; an Eagle Scout who maintains and inventories bird boxes at Provolt; and high school students who earned

community service credits volunteering much of the summer in the Sprague greenhouses.

BLM also attracts scholars who are interested in conducting research on the public lands. For example, Dr. Helmut Mayrhofer of the Botanisches Institut, Graz, Austria, the world authority on calcareous lichens, worked for a week with the Idaho State Office botanist. There, he assisted with training and shared his expertise on the identification and ecology of calcareous microlichen of Birch Creek in both the Salmon and Idaho Falls Field Office areas. He also collected plant material to be used in classical taxonomic studies and in molecular analysis. Many of the plant collections Dr. Mayrhofer made in the Birch Creek area are new to science and it may take several years to determine their identity.

Loving Care Results in Fitting Tribute to Wildland Firefighters

A monument honoring thousands of firefighters and support personnel—past, present and future—was dedicated at a ceremony held May 25, 2000, at the National Interagency Fire Center (NIFC), in Boise, Idaho, the Nation's management and logistical support

center for wildland firefighting. The monument was conceived, developed, and paid for primarily by private wildland firefighter donations. NIFC employees and scores of local volunteers have provided hundreds of hours of labor since 1995 to assist in building this tribute to the efforts and sacrifices of wildland firefighters.

The monument covers about one acre and features three bronze statues representing firefighters on a wildland fire line. It also features a waterfall and native vegetation. Plaques honoring firefighters who gave their lives are located throughout the monument.

Volunteers played a major role in the development of the monument. They planted native shrubs and trees, installed a sprinkler system, and constructed a fence around the area. The volunteers also return each year to maintain the area.

BLM's Deputy Director, Nina Hatfield, focused on the importance of interagency cooperation in wildland firefighting efforts. "The yellow shirts (of the firefighters) cover the agency identifiers," Hatfield said. "The spirit of the monument lives in the many volunteers and contributors who came together to make it a reality."

Toiling on Vacation and on National Trails Day

The American Hiking Society (AHS) sponsors the Volunteer Vacations program to support trail work on public lands throughout the country. BLM is one of the sponsors of this program, which allows intrepid, paying vacationers to participate in work trips to challenging trail sites. In return for sponsorship, BLM gets an enthusiastic crew of several adults who contribute a week of valuable labor to a specific on-the-ground project, each led by a skilled AHS trail crew boss. For example, the Lander (WY) Field Office utilized an eight-person crew of retired Midwesterners, who worked for an entire week in Sinks Canyon, just west of Lander. They developed an improved trail route, built drainage crossings, and installed trailhead signs. In 1999, BLM hosted a total of eight AHS Volunteer Vacations projects, through which 85 individuals performed hundreds of hours of volunteer labor.

BLM also worked with AHS to coordinate numerous National Trails Day events in 1999. For example, the Colorado Plateau Mountain Bike Association (COPMOBA) held its annual trail maintenance day on the Dry Creek Loop Trail, a segment of the Tabeguache Trail just west of Montrose. Association members replaced vandalized

signs, picked up trash, and maintained water bars along the trail. Another Colorado event was hosted by the North Fork Trails Network (NFTN) on the Young's Peak Trail near Crawford. The trail, which had been damaged by heavy rains, was repaired and rerouted by the group with the help of BLM Recreation staff.

Two Canon City, Colorado District volunteer groups received the Outstanding Trail Sharing Award at the 14th National Trails Symposium in Tucson, Arizona. The Rocky Mountain Back Country Horsemen and the ATV Quad Dusters were given this award for their innovative and successful joint efforts and contributions to trails. The Clubs often work together on BLM projects and have constructed and maintained 20 miles of trails and packed out 33,000 pounds of trash from the back country and along 155 miles of county roads. This unique partnership between two diverse user groups continues to foster a sense of respect for each other and other trail users.

Celebration of National Trails Day this year in Canyon City found volunteers working at Ecology Park. This event was cosponsored by BLM and the Colorado Lottery. Work concentrated on rebuilding 200 yards of trail, including the resurfacing of 1/4 mile of trail.

Teaching Outside the Classroom

Volunteers regularly contribute to BLM environmental education programs, helping to teach both kids and adults about natural and cultural resources on the public lands. For example, the Anchorage (AK) Field Office hosted approximately 2,000 sixth-graders during the 1999 Outdoor Week, an annual, volunteer-supported event that has been held for the past 24 years. Special event instructors from many Federal agencies contributed their expertise, helping kids learn field techniques in such areas as gold panning, stream flow measurement, and water-quality sampling. Elsewhere in Alaska, volunteers contributed thousands of hours to environmental events at BLM's Campbell Creek Science Center in Anchorage and at the Northern Field Office in Fairbanks; they taught grade-school children about the interrelationships among plants, water, wildlife species, and other components of the environment.

In Colorado's Uncompahgre Field Office, 150 fourth-grade students from local communities enthusiastically participated in the annual interagency Norwood Environmental Appreciation Day. Students toured 10 stations, each emphasizing an environmental topic such as rangeland health, sustainable

forestry, watershed preservation, and Leave No Trace. Volunteers contributed to all aspects of this day of learning.

As part of their independent study work, several Utah State University student volunteers participate in the day-to-day operation of Pariette Wetlands, a 9,033-acre wetlands project managed by the Vernal (UT) Field Office. In 1999, students conducted extensive mapping, maintained water flows into wetland areas, and constructed nesting platforms for waterfowl.

In 1999, volunteers in the Butte (MT) Field Office's Canyon Ferry Eagle Program hosted public viewings of the four-week fall gathering of bald eagles. More than 8,000 visitors braved cold, autumn temperatures to view this annual spectacle and participate in volunteer-hosted eagle education programs. And, at the Vale (OR) Field Office's National Historic Oregon Trail Interpretive Center, the Trail Tenders partnered with BLM and Baker County/Union County schools to teach K-5 students about Oregon Trail history and Native American skills. Volunteers staffed 12 education stations and offered students the opportunity to use computers, scanners, and digital cameras to create websites.

Some Special Kids Enjoy a Day on the Trinity River

In August 1999, the Redding (CA) Field Office hosted more than 40 seriously ill children and their families on a 10-mile trip down the Trinity River, followed by an afternoon of games and food. The float trip, initially a joint proposal of BLM and the Redding medical community, quickly blossomed into a huge volunteer effort involving people from all across northern California. Local businesses, community organizations, and government agencies donated guides, boats, food, prizes, and—most important—loads of time to make this a great day for some special kids.

Interior Secretary Bruce Babbitt Joins Volunteers on the Missouri

BLM-Montana's Upper Missouri Wild and Scenic River volunteer program relies greatly on the dedicated volunteers who return each year to serve as campground hosts and river ranger interns. The residents of Fort Benton, Montana, embrace BLM and its volunteers as active contributors to community summer activities, which bring in considerable tourism revenue. In June 1999, Secretary Babbitt took a boat ride on



Interior Secretary Bruce Babbitt joined BLM volunteers building a fence at Munroe Island along the Upper Missouri Wild and Scenic River, Montana.

the famous Missouri, and worked with volunteers at Cow and Monroe Islands repairing fencing, building fire pits, and generally cleaning up the areas.

Recognizing Our Volunteers—Past and Present

In addition to nominating extraordinary volunteers for BLM's national-level "Making a Difference" Awards, BLM field offices also show their appreciation to volunteers through special recognition programs and gestures. For example, in Alaska, certificates and thank-you letters were sent to all 1999 volunteers; each volunteer with more than 80 hours of service also received

a specially designed certificate and a T-shirt, and some volunteers received awards from the BLM team members for whom they worked.

BLM's California Desert District Office and the Friends of Jawbone Canyon cohosted the third annual Moose Anderson Days trash cleanup. This weekend-long event commemorates the late Mark "Moose" Anderson, a former member of the California Off-Highway Vehicle Commission, who enthusiastically supported and promoted off-highway vehicle (OHV) recreation in California. Each year, Moose Anderson Days volunteers, including many OHV enthusiasts, remove huge amounts of trash from this desert canyon, and are recognized via on-site feasts, OHV tours, and commemorative "Moose" apparel. In 1996, BLM's Jawbone Canyon Visitor Contact Station was dedicated in Moose's memory.

In 2000, the Casper (WY) Field Office mourned the loss of Volunteer Coordinator Hal Boyd. Since 1992, Hal had been providing the office with reports on changes in federal legislation and analyses of the effects of those changes on public land programs such as cultural resources, grazing, and minerals. BLM Nevada Volunteer Program Coordinator John Eric Chappell also passed away in early

2000, after having donated his time to BLM for more than 30 years. Over the last eight years of his service, John helped to provide leadership to the BLM Nevada Volunteer Program, served as project manager for several major volunteer projects, helped to develop the Nevada State Office Learning Center, and initiated a BLM summer intern program for high school students around Nevada.

On a happier note, in 1999, the Vale (OR) District Office and its National Historic Oregon Trail Interpretive Center hosted/cohosted a Volunteer Banquet, Volunteer Faire, Volunteer Field Trip, and Volunteer Recognition Week. The “Dusty Ruts” Banquet

recognized Center volunteers for their services and contributions. The Trail Tenders took the lead role in the Volunteer Faire, a Baker City volunteer recruitment event that also provided BLM an opportunity to showcase the wonderful work of current local volunteers. In 1999, Oregon volunteers who donated at least 40 hours of service to BLM were treated to an educational field trip that included stops at the Tarnastlikt Cultural Center in Pendleton and the Columbia Gorge Discovery Center in The Dalles. Finally, during Volunteer Recognition Week, the Interpretive Center, in conjunction with the Oregon Trail Regional Museum, sponsored a dessert social for Center volunteers.

Volunteer Program by State/Center

Alaska

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	15,099	0	15,099
Biological Resources	267	0	267
Wild Horse and Burro	0	0	0
Cadastral Survey	0	0	0
Wilderness	424	0	424
Riparian/Watershed	515	0	515
Cultural/Historical	3,027	0	3,027
Minerals	580	0	580
Support Services	1,428	150	1,578
Environmental			
Education/Interpretation	3,214	0	3,214
Other	0	0	0
Total	24,554	150	24,704
Number of Participants			304
Funds Expended			\$83,753
Value of Work			\$366,360

Volunteers perform critical duties often in rugged terrain and harsh climates enabling BLM Alaska to meet its unique and widely scattered land management challenges. Wild and Scenic Rivers, wilderness areas, and majestic scenery draw thousands of outdoor enthusiasts to BLM recreation sites in record numbers. Fortunately for these outdoor enthusiasts, they have a small group of hearty volunteers there to provide customer services. Volunteers provided nearly 13,000 hours of service within the recreation program in 1999.

At seven campgrounds in the Anchorage, Glennallen, and Northern Field Offices volunteer campground hosts performed a variety of jobs with the emphasis on maintenance, safety, and visitor services. Four visitor contact station hosts at Yukon Crossing Visitor Contact Station, and one visitor host at Coldfoot Visitor Center provided customer service to the motoring public. One volunteer gave interpretive tours several times a week at the historic Fort Egbert. This year marked Bob and Thelma Bowser's eighth year serving as Coldfoot Visitor Center hosts where they met and assisted over five thousand visitors. They were among the 1998 National "Make a Difference" Award winners who were recognized in ceremonies in Washington, DC.

Other volunteers checked restoration projects and worked on habitat studies in the eastern National Petroleum Reserve Area and Icy Cape. Two rugged volunteers performed data collection for the recreation and wilderness programs, establishing site history information files and monitoring in the Wilderness Study Area (WSA) Monitoring Nigu Block.

Arizona

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	65,418	7,515	72,933
Biological Resources	1,822	1,300	3,122
Wild Horse and Burro	480	0	480
Cadastral Survey	40	0	40
Wilderness	247	0	247
Riparian/Watershed	19,200	800	20,000
Cultural/Historical	21,327	1,664	22,991
Minerals	1,131	0	1,131
Support Services	2,713	5,000	7,713
Environmental			
Education/Interpretation	4,200	1,904	6,104
Other	341	1,664	2,005
Total	116,919	19,847	136,766
Number of Participants			2,290
Funds Expended			\$76,768
Value of Work			\$2,028,240

Whether they are trekking through a wilderness area on a monitoring project, building a trail, or just greeting an estimated 9 million visitors, Arizona's volunteers continuously help BLM complete its mission. This year, hundreds of volunteers participated in Adopt-a-Shore events, trail work and many more activities. Serving as Site Stewards and Long-Term Visitor campsite hosts, they also helped care for and protect BLM Arizona's 14 million acres of public lands.

Offering long-term commitment to public lands, many volunteer events have become an annual, or biannual, celebration. In Lake Havasu City, the Hualapai 4-Wheelers Off-Highway Vehicle Club meet twice a year to clean

up areas along the lake. Other groups also regularly join BLM in recreation projects and trash pick-ups. These include volunteers from the Mohave County Trails Association, Mohave County Public Land Use Committee, Bullhead 4-Wheelers, and the Historic Route 66 Association. Volunteers also assisted with desert rehabilitation work to accommodate the 1999 Parker 400 race and protect the lands.

Celebrating a community project to clean up and restore public lands adjoining the Gila Box Riparian National Conservation Area, 742 people assisted BLM with the Gila Box Discovery Festival in April. Hundreds of visitors attended the dedication of the new Riverview Campground and enjoyed birding and history walks along Bonita Creek hosted by volunteers.

In May, hundreds more volunteers again helped with projects aimed at restoring the Gila River and Lake Havasu shorelines and then rolled up their sleeves to complete National Trails Day projects. Finishing up the year, volunteers from across the state helped promote National Public Lands Day. With their help, a successful outdoor recreation fair kicked off celebrations of public lands and a San Pedro River cleanup brought more awareness of everyone's responsibility to lend a hand.

California

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	33,584	8,672	42,256
Biological Resources	14,317	4,908	19,225
Wild Horse and Burro	542	0	542
Cadastral Survey	0	0	0
Wilderness	1,600	0	1,600
Riparian/Watershed	417	4,212	4,629
Cultural/Historical	13,259	0	13,259
Minerals	3,077	1,500	4,577
Support Services	3,816	580	4,396
Environmental Education/Interpretation	3,267	0	3,267
Other	282	0	282
Total	74,161	19,872	94,033
Number of Participants			2,225
Funds Expended			\$154,360
Value of Work			\$1,394,509

Volunteers in California performed work primarily benefiting recreation, wildlife, and cultural resources in projects throughout the state. For example, more than 2,000 volunteers participated in the El Centro Field Office's "Second Annual Glamis Dunes Clean-up" and collected approximately 5,000 bags of trash at the Imperial Sand Dunes Recreation Area. Approximately 45 businesses sponsored the event, and many groups, clubs, and dunes enthusiasts throughout southern California donated their time to help clean up the Dunes. The event was coordinated by a married couple from Orange, California, who worked all year long to plan and solicit donations from businesses and

corporations throughout California and Arizona. The couple coordinated with BLM for personnel, facilities, and vehicles. Several other projects benefitted public land recreation areas. For instance, members of the Backcountry Horsemen Association teamed with American Hiking Society (AHS) Volunteer Vacationers to complete annual trail maintenance work. Several hundred volunteers worked on the Pacific Crest Trail and labored on projects involved with the Adopt-a-Cabin program in the Rademacher Hills Viewshed Project. In the previous year, volunteers transformed this area into an urban greenspace with hiking trails and a visitor information center. Elsewhere, the Samoa Caretakers, an OHV club, contributed nearly 3,000 hours of work restoring recreation sites.

Plants and animals received some serious help from volunteers as well. Wildlife volunteers studied raptor habitat and usage and even rode horses to monitor remote parts of grazing allotments. Partners for Plants volunteers assisted a staff botanist with rare plant inventories. The Desert Survivors group helped with a vegetation restoration project, while others assisted in annual Bald Eagle and amphibian counts. Additionally, hundreds of people worked on small animal guz- zler maintenance projects, conducted on-the-ground monitoring, rehabilitated wildlife habitats, inventoried animal

species, reintroduced native plant species, and conducted research on numerous plants and animal populations. The Elk River Conservation Camp, a minimum security California

Department of Corrections facility, provided valuable assistance as well. Six work crews labored some 10,000 hours on fuelbreaks for the Arcata Field Office.

Colorado

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	14,489	22,114	36,603
Biological Resources	5,773	12,144	17,917
Wild Horse and Burro	3,391	66,342	69,733
Cadastral Survey	1,520	0	1,520
Wilderness	1,207	0	1,207
Riparian/Watershed	1,118	0	1,118
Cultural/Historical	15,030	996	16,026
Minerals	1,306	0	1,306
Support Services	10,338	4,780	15,118
Environmental Education/Interpretation	8,207	302	8,509
Other	929	0	929
Total	63,308	106,678	169,986
Number of Participants			2,398
Funds Expended			\$100,351
Value of Work			\$2,520,892

Volunteers young and old traveled from far and wide in Colorado to perform a host of volunteer assignments benefiting recreation, wilderness, environmental education, and cultural resources.

Members of the Western Slope 4-Wheelers Four Wheel Club assisted the BLM in its Adopt-a-Jeep Trail Project, helping to develop four new jeep trails in the Dry Creek Recreation Area. Club members contributed long hours to mapping, monitoring, and performing maintenance on the routes. As part of the "adoption" program, the club assisted BLM in monitoring, providing technical support, guide and patrol

services, and cleanup for all organized, permitted events on the trails. Two groups, the North Fork Trails Network and the Colorado Plateau Mountain Bike Association joined together and provided assistance in reconstruction and repair of trails. Additionally, volunteers from the Montrose Partners Organization assisted in a river cleanup. Thirty-five teachers and volunteers from Mesa State took part in a 2-day course taught by a staff ecologist that focused on the Gunnison River ecosystem. A Montrose High School Career Options Program student volunteer contributed over 120 hours assisting the Range staff in file management and map reproduction duties. Volunteers assisted with cultural clearances and inventories, and database management. Other volunteers spent time conducting geographic information system (GIS) inventories and electronic database administration for BLM staff wildlife biologists.

Delta Correctional inmates contributed hundreds of hours for range and wildlife improvement projects. The projects included repairing and building new range fences on Green Mountain, improving sage grouse habitat, installing gate and road closures, constructing fire lines for controlled burns, and improving water guzzlers.

Eastern States

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	0	0	0
Biological Resources	227	0	227
Wild Horse and Burro	78	0	78
Cadastral Survey	0	0	0
Wilderness	0	0	0
Riparian/Watershed	0	0	0
Cultural/Historical	143	0	143
Minerals	0	0	0
Support Services	4,539	0	4,539
Environmental			
Education/Interpretation	634	0	634
Other	0	0	0
Total	5,621	0	5,621
Number of Participants			747
Funds Expended			\$15,989
Value of Work			\$83,359

Eastern States Office's (ESO) volunteers helped promote public land stewardship through running week-long environmental education camps that involve challenged children, local schools, school boards, and State education and natural resource agencies. They assisted with National Public Lands Day events in Virginia, Florida, and Wisconsin.

As highlighted earlier, the Milwaukee Field Office volunteers led the way in establishing "America Outdoors," a center in Midtown that provides information on conservation, recreation, and public land resources. They also helped to preserve a neighborhood and gave life to an Urban Tree House that will serve as a meeting place for families to

gather and learn about natural and cultural resources.

Jackson District Volunteers helped BLM and the South Florida Water Management District restore wetlands in the Jupiter Inlet Natural Area, an Area of Critical Environmental Concern (ACEC), where BLM is focusing on habitat improvements for 18 special status species found there. Volunteers removed nonnative plant species and restored areas affected by past dredging. On the southern portion of the ACEC, a Recreation and Public Purposes Act lease is expected to authorize continued use of a town park and the restoration and maintenance of cultural resources, including a historic World War II-era barracks.

Volunteers continue in their crucial roles with BLM's Wild Horse and Burro Program. They assist with adoptions that account for about two-thirds of all adopted wild horses and burros, finding homes in the 31 States under Eastern States' purview. Volunteers assist at the 30-odd temporary site adoption events annually, where BLM-Eastern States places more than 3,500 animals into foster homes. Volunteers furthered the program by participating in compliance checks and talked to and otherwise guided prospective and new adopters with these living symbols of the Old West.

Idaho

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	7,912	2,500	10,412
Biological Resources	4,240	574	4,814
Wild Horse and Burro	0	0	0
Cadastral Survey	104	0	104
Wilderness	0	0	0
Riparian/Watershed	248	0	248
Cultural/Historical	4,480	0	4,480
Minerals	160	120	280
Support Services	514	1,560	2,074
Environmental			
Education/Interpretation	434	0	434
Other	0	0	0
Total	18,092	4,754	22,846
Number of Participants			755
Funds Expended			\$6,340
Value of Work			\$340,289

Volunteers in Idaho recorded rock art, built trails and fences, planted trees, and much, much more.

Eleven volunteers assisted the Idaho Falls Field Office archaeologist in documenting pictographs at Jackknife Cave and other caves, rock shelters, and rock surfaces in the Black Canyon Wilderness Study Area (WSA). They used recording methods that included detailed individual and panel sketches, color photography, and computer enhancement. Now, a detailed, completed inventory exists that provides a record of the number, type, and distribution of pictographs in the WSA. This information will be used to monitor changes in the condition of WSA rock art. It will also be available for rock art researchers and Native American tribes.

The Coeur d'Alene Field Office sponsored two volunteer days at the Gamlin Lake Recreation Area. In May, BLM and The Nature Conservancy (TNC) hosted the first volunteer day. And, then in September, BLM hosted one of the three Idaho National Public Lands Day (NPLD) events at the site. Approximately 30 volunteers at each of these volunteer days helped to build a fence, plant trees and shrubs, pick up trash, and construct hiking trails.

Jack O'Brien, a retired BLM employee, organized a group of hiking enthusiasts to assist BLM with the construction of approximately 6 miles of hiking trails at Gamlin Lake. Approximately 200 hours of volunteer time contributed to the layout and the construction of one mile of trail.

In the Idaho Falls area, students from Ricks College and the Boy Scouts worked together to clean up the Saint Anthony Sand Dunes. In another joint venture, the Idaho Cave Survey group worked alongside youth from the St. Anthony Hall Juvenile institution to clean up around cave entrances by and on a dispersed recreation area called Red Road. Birch Creek Campground Hosts provided visitor services to campers and helped to maintain the campground. Additionally, two volunteers monitored a WSA for compliance with regulations, and Boy Scouts helped repair a lava hiking trail on Hell's Half Acre Recreation Area.

Montana/Dakotas

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	21,742	0	21,742
Biological Resources	970	0	970
Wild Horse and Burro	463	0	463
Cadastral Survey	0	0	0
Wilderness	0	0	0
Riparian/Watershed	464	0	464
Cultural/Historical	607	0	607
Minerals	40	64	104
Support Services	1,801	3,112	4,913
Environmental			
Education/Interpretation	2,527	0	2,527
Other	37	0	37
Total	28,651	3,176	31,827
Number of Participants			531
Funds Expended			\$17,440
Value of Work			\$471,994

Montana/Dakotas BLM continued working collaboratively with several partner groups to preserve, interpret, and raise funds to build an interpretive center to better serve the public. For the past 16 years, the Garnet Preservation Association (GPA) has worked hand-in-hand with BLM to preserve Garnet Ghost Town. In 1999, GPA helped fund a major historic interpretation project, provided cost share funding for building stabilization and maintenance, and hired three paid staff during the summer months. In addition, GPA undertook an oral history project that will document first-hand accounts of early life in Garnet.

Eventually, these interviews will be available on the Internet via a web page that the BLM and GPA jointly developed. GPA continues to negotiate with private landowners to acquire critical inholdings. GPA volunteers serve a critical role as ambassadors for BLM in the Fort Missoula area.

Another successful volunteer partnership involved the Pompeys Pillar Historical Association (PPHA), a friends group for the Lewis and Clark Pompeys Pillar National Landmark. PPHA has set the framework in place for the funding of the new interpretive center at the landmark. Its goal is to match the \$2 million appropriated by Congress for the center. The upcoming Lewis and Clark Bicentennial will provide excellent opportunities to promote this historical landmark.



School students from Butte, Montana, and the surrounding area observed eagles in flight at the Canyon Ferry Bald Eagle Viewing Program. Students used spotting scopes and binoculars with assistance from BLM volunteers and staff.

National Fire Center

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	0	0	0
Biological Resources	1,006	86	1,092
Wild Horse and Burro	0	0	0
Cadastral Survey	0	0	0
Wilderness	0	0	0
Riparian/Watershed	0	0	0
Cultural/Historical	0	0	0
Minerals	0	0	0
Support Services	0	0	0
Environmental			
Education/Interpretation	0	0	0
Other	0	0	0
Total	1,006	86	1,092
Number of Participants			31
Funds Expended			\$3,137
Value of Work			\$16,194

Four volunteers labored on various functions in support of overall fire preparedness activities working a little over one thousand hours.

Another top project for the Office of Fire and Aviation located in Boise, Idaho, at the National Interagency Fire

Center (NIFC) was the Wildland Firefighters Monument Site. The site, recently dedicated, is a tribute to all wildland firefighters and support personnel. NIFC employees, through hundreds of volunteer hours, are the backbone of the site's construction and maintenance efforts.

One individual volunteer worked 743 hours in the Budget and Finance Section, processing bills and payrolls, filing, and performing other office work.

National Training Center

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	124	0	124
Biological Resources	0	0	0
Wild Horse and Burro	0	0	0
Cadastral Survey	0	0	0
Wilderness	0	0	0
Riparian/Watershed	0	0	0
Cultural/Historical	0	0	0
Minerals	45	0	45
Support Services	72	0	72
Environmental			
Education/Interpretation	0	0	0
Other	0	2,220	2,220
Total	241	2,220	2,461
Number of Participants			51
Funds Expended			\$0
Value of Work			\$36,497

The National Training Center received volunteer assistance in a variety of training support functions for several training courses benefiting the volunteer, human resources, and recreation programs of the BLM. Several hosted workers from the San Bernadino National Forest Association helped to further the implementation strategy to support the expanded development, delivery, evaluation of, and resource development efforts for, a partnership suite of training courses for entities that are partners with BLM and other Federal land management agencies.

In addition to the two hosted workers, the NTC had four eager volunteers

who worked on a variety of tasks. One volunteer worked with an NTC trainer conducting a follow-up phone survey for the Pathways course. Additionally, work was done on lesson plan objectives for BLM's Leadership Academy. Several volunteers performed administrative functions in support of Human Resources and Environmentally Responsible Recreation training. One volunteer worked with the recreation trainer on completing a task analysis for Outdoor Recreation Planners for the tasks of planning, implementing, and managing trails, and completed a training resource inventory for the tasks identified in the task analysis. A summary report of the findings of the task analysis and inventory was also completed.

A third volunteer assisted the Minerals Division at NTC with various duties in preparing for and holding the Earthwork and Reclamation Course. Additional work was performed on reorganizing and refiling five Minerals Courses. And, the fourth volunteer worked with the Information Technology Division assisting with help desk, troubleshooting NT Systems, and other duties as assigned.

NTC ran a National Public Lands Day event at Picket Post Mountain that is just south of Superior, Arizona. The project involved 51 volunteers who completed work on recreation site

maintenance and trail maintenance projects. This included brushing and some trimming. Volunteers built rock cairns to hold signs and then set them into holes drilled into posts. They then dug holes to set the posts. They used equipment to improve the tread and cleaned up the trail. This NPLD event

was a joint project with the AZ Trails Association, USDA Forest Service, Mountain Bike Association of Arizona, the AZ Mule and Donkey Association, and the Boy Scouts of America. The entertainment consisted of mule rides for anyone brave enough, and provided lunch compliments of the Forest Service.

Nevada

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	14,777	5,462	20,239
Biological Resources	7,947	13,448	21,395
Wild Horse and Burro	5,012	0	5,012
Cadastral Survey	0	0	0
Wilderness	258	0	258
Riparian/Watershed	839	3,200	4,039
Cultural/Historical	11,925	9,504	21,429
Minerals	280	3,415	3,695
Support Services	2,608	5,564	8,172
Environmental Education/Interpretation	10,056	2,808	12,864
Other	17,867	0	17,867
Total	71,569	43,401	114,970
Number of Participants			2,595
Funds Expended			\$923,469
Value of Work			\$1,705,005

In Nevada, volunteers put a great deal of work into recreation and cultural resource projects, building structures and participating in National Public Lands Day (NPLD) events.

Two married couples served as caretaker/hosts in the ghost town of Rhyolite, Nevada. Both couples lived onsite, providing a BLM presence to reduce vandalism and to give interpretive presentations on the Kelly bottle house and old town site. The hosts also kept visitor use counts on the estimated 70,000 visitors, issued weather condition reports, and performed emergency maintenance as required. One of the hosts took photographs for recording

cultural surveys. The couples collected trash, preserved historic resources, and helped organize and monitor the Rhyolite Festival. The Rhyolite hosts provided over 16,000 hours of volunteer service in FY 1999. These hosts are the ultimate BLM volunteers, returning year after year with additional ideas, knowledge, and ability. They demonstrate customer service at its finest.

The 152nd Air Force Reserve donated 360 hours rebuilding the structure that houses the generator at Hidden Cave and Indian Cache Cave, 10 miles east of Fallon, Nevada. Hidden Cave provides important, if unusual, clues about lifeways of Desert Archaic people. The reserve unit used horses to transport cement blocks, mortar box, roofing material, sand, cement, and even the water for mortar up the steep hillside to the construction site. In the past, the generator had to be stored inside the cave entrance, causing delays and inconvenience to visiting tour groups. The noise it caused intruded on visitors inside the cave. The new generator housing was designed to blend in with the hillside, providing unobtrusive protection for the equipment, as well as muffling the sound it creates. Now, weekly environmental/cultural interpretive tours are given at this site uninterrupted by noise.

Nevada also sponsored two National Public Lands Day events. One in Elko and the other in Ely led to the

completion of substantial work with good will and camaraderie thrown into the bargain.

New Mexico

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	25,922	6,792	32,714
Biological Resources	1,945	0	1,945
Wild Horse and Burro	104	0	104
Cadastral Survey	850	0	850
Wilderness	9,393	0	9,393
Riparian/Watershed	0	0	0
Cultural/Historical	11,677	5,971	17,648
Minerals	2,525	0	2,525
Support Services	4,305	0	4,305
Environmental			
Education/Interpretation	2,082	0	2,082
Other	1,503	0	1,503
Total	60,306	12,763	73,069
Number of Participants			865
Funds Expended			\$0.00
Value of Work			\$1,083,613

Archaeology volunteers performed various survey and inventory tasks and assisted with publicity in New Mexico this year. Under the guidance of staff archeologists, major cultural resource volunteer projects involving close coordination and collaboration with the Santa Fe Northwest Advisory Council (SNAC) and the Office of Archaeological Studies (OAS) resulted in important cultural resources being documented. The volunteers' contribution at north-central New Mexico sites helped to enhance the existing knowledge base of the Gallina culture. About half the time volunteers contributed was spent assessing and documenting

Gallina sites encountered during extensive foot surveys. For the sites encountered, descriptions and precise Global Positioning System (GPS) locations were recorded. These surveys have helped confirm the southern and western extent of the Gallina influence. In an attempt to locate an Onate-era (late 16th or early 17th century) camp located on BLM lands, volunteers used metal detectors to locate metal objects and to inventory those objects in the discovery process. Although this early camp was not located, the goal of involving the local community was met and new converts to cultural resource management were firmly established.

Early in 1999, members of the ABC television network contacted BLM and asked for support for a documentary that was being produced to detail the growing problem of vandalism of many of the archaeological resources in the American Southwest. The documentary was aired on ABC's Nightline show and was titled "Thieves of Time." In July 1999, ABC personnel and film crews visited several large sites near Albuquerque as part of this documentary. Volunteers provided significant on-site support of this effort. The program was successfully aired in September and received high accolades.

Oregon

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	80,169	21,206	101,375
Biological Resources	28,639	3,090	31,729
Wild Horse and Burro	738	0	738
Cadastral Survey	40	0	40
Wilderness	60	0	60
Riparian/Watershed	10,586	0	10,586
Cultural/Historical	3,978	0	3,978
Minerals	309	0	309
Support Services	16,465	5,289	21,754
Environmental			
Education/Interpretation	17,386	0	17,386
Other	903	0	903
Total	159,273	29,585	188,858
Number of Participants			2,532
Funds Expended			\$1,744,132
Value of Work			\$2,800,764

Volunteers acted as campground hosts, worked at National Public Lands Day (NPLD) events, assisted with myriad activities at the Oregon Trail Interpretive Center, helped run two seed orchards, and performed a full array of volunteer functions throughout Oregon and Washington.

In the Eugene Field Office area, Campground Hosts served at four sites—Clay Creek, Whittaker Creek, Sharps Creek, and Row River—while other volunteers worked at a variety of projects including trail construction, seed collection, and interpretive talks at the West Eugene Wetland Project.

An NPLD event was held at the West Eugene Wetlands. Over 50 volunteers participated in a trail construction project. Additionally, the Oregon Trail Interpretive Center hosted its first NPLD event in which volunteers played an active role.

In Eastern Oregon, the Trail Tender volunteers continued their exemplary support and volunteer service to the Oregon Trail Interpretive Center's living history, interpretive programs. The Tenders cosponsored with BLM the annual Pioneer Heritage Festival in July.

In the western part of Oregon, the Medford District's seventh annual Rogue River Cleanup brought over 200 volunteers together to collect approximately 50 cubic yards of trash (about five dump truck loads, including 300 tires).

As highlighted earlier in this report, volunteers worked at the Medford District's Seed Orchards where they performed a wide variety of jobs in the orchards and the greenhouse nursery. Three international students under the auspices of Experience International, a non-profit international trainee sponsor organization based in Everson, Washington, had two students from Latvia and one from South Africa training at the orchards for 6–18 months each.

Utah

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	26,933	4,344	31,277
Biological Resources	13,978	1,840	15,818
Wild Horse and Burro	2,528	0	2,528
Cadastral Survey	600	0	600
Wilderness	326	0	326
Riparian/Watershed	711	0	711
Cultural/Historical	9,821	0	9,821
Minerals	316	0	316
Support Services	3,076	2,980	6,056
Environmental			
Education/Interpretation	8,754	0	8,754
Other	190	0	190
Total	67,233	9,164	76,397
Number of Participants			1,560
Funds Expended			\$65,091
Value of Work			\$1,132,968

Utah continued to work with a wide variety of volunteer groups such as Utah State University, Vernal Junior High Escape Club, and Youth Corrections.

Among the most successful volunteer partnership was with Utah State University. Students participated in the

day-to-day operation of Pariette Wetlands, a 9,033 acre wetland development managed by the Vernal Field Office. As part of their independent study work, students counted birds, conducted mapping, maintained water flows into the wetland areas, and worked on nesting platforms for waterfowl.

National Public Lands Day 1999 was a great success with over 170 volunteers participating in a variety of projects including graffiti removal, trash cleanup, and trail construction and stabilization.

Volunteers at the John Jarvie Historic Site, located in a remote part of north-eastern Utah, hosted over 400 people in June for its Familyfest celebration. Volunteer artisans demonstrated trades from the 1800s, such as blacksmithing, woodworking, quilting, Dutch-oven cooking, and working with draft horses. This annual event, which opens the door to the past for visitors to the area, would not be possible without the hard work of many volunteers.

Wyoming

Program	Volunteer Hours	Hosted Worker Hours	Total Hours
Recreation	6,920	760	7,680
Biological Resources	5,514	0	5,514
Wild Horse and Burro	336	0	336
Cadastral Survey	16	0	16
Wilderness	16	0	16
Riparian/Watershed	628	0	628
Cultural/Historical	1,383	0	1,383
Minerals	32	0	32
Support Services	1,340	1,207	2,547
Environmental Education/Interpretation	1,164	0	1,164
Other	247	0	247
Total	17,596	1,967	19,563
Number of Participants			416
Funds Expended			\$22,532
Value of Work			\$290,119

In the Big Sky State, the Rock Springs Field Office, in partnership with Sweetwater County, hosted a National Public Lands Day event known as “Operation Desert Pride.” Forty volunteers spent a windy Saturday morning collecting over 110 yards of trash in an area south of Rock Springs. Waste Management of Wyoming donated a roll-off trash bin that was filled within

the first 30 minutes of the project. The volunteers then piled up the trash so that the front-end loader operator could place the trash into dump trucks. The equipment and the operator were donated by Sweetwater County. McDonald’s provided the volunteers with a barbeque lunch. Other partners included Rock Springs Grazing Association, Solid Waste District #1, and Western Wyoming Community College–Desert Voice.

And, at the Worland Field Office, volunteers were an important part of the ongoing development of the Red Gulch Dinosaur Track Site. The track site contains hundreds and maybe thousands of theropod footprints made approximately 165 million years ago that could alter views about the Sundance Formation and the paleoenvironment of the Middle Jurassic Period. In the past fiscal year, five volunteers contributed hundreds of hours to monitor the track site for vandalism and give informal tours to approximately 600 visitors.

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