

QUIVIRACOALITION

NINTH ANNUAL CONFERENCE NOVEMBER 10-12, 2010

THE CARBON RANCH:

Using Food and Stewardship to Build Soil and
Fight Climate Change



A CARBON RANCH

INCREASES SOIL CARBON by:

- Improving land health;
- Rotational grazing;
- "No till" organic farming;
- Restoring riparian areas & wetlands;
- Increasing biodiversity;
- Slowing erosion & building soil;
- Improving water cycle.

REDUCES GREENHOUSE GAS EMISSIONS by:

- Reducing food miles;
- Reducing the ranch's carbon footprint;
- Producing local renewable energy;
- Protecting open space;
- Contributing to a local economy;
- Operating a photosynthesis-based business.

concept by Courtney White

Illustration by Jone Hallmark

QUIVIRA COALITION
Santa Fe, New Mexico
www.quiviracoalition.org

PROVIDES CO-BENEFITS including:

- Local, grassfed food;
- Local jobs, paychecks & taxes;
- Improved habitat;
- Maintenance of cultural diversity & heritage;
- Educational opportunities;
- Sense of community & place;
- Mentoring the next generation.

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Cover Artist Jone Hallmark

Jone's artwork has graced many products from cards and Christmas ornaments to children's book illustration and fabric. She and her family have been associated with Quivira for many years, and she was pleased to be asked to work with Courtney White to create "A Carbon Ranch" map. (polkadotponie.blogspot.com)

Conference Sponsors/ Supporters

This conference is made possible through the generous support of:

THE CLARENCE BURCH AWARD

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GRASSFED BEEF DONATIONS

All beef for the conference lunches and the awards banquet has been generously donated by local ranchers: Dan Flitner of the Hobo Ranch; Nancy Ranney of Ranney Ranch; and George Whitten, Jr. and Julie Sullivan of Blue Range Ranch/San Juan Ranch.


The Quivira Coalition is grateful to these producers for allowing us the opportunity to serve healthy local product.

During the banquet dinner, visit with friends while enjoying a delicious, totally local meal.

SUPPORTERS

Avery Anderson - silent auction item
Button Generator - website button
Nansy Carson - volunteer
Steve Carson - silent auction items
Elkhorn Ranch - super duper silent auction item
Embassy Suites, Albuquerque, New Mexico
Daniel Escutia - volunteer
Andrew Fynn - social media consultation
Acazia Gilmore, D.O.M. - silent auction item
Hobo Ranch - certified organic grassfed beef for conference meals
Jacona Valley Vineyards - auction item
James Family - silent auction item
Patricia Jenkins - volunteer
Jone Hallmark - 'A Carbon Ranch' map illustration
Kirk Gadzia - silent auction item
KUNM 89.9 FM, New Mexico's Community Powered Public Radio - advertising and promotion
Lois Mee - volunteer
William Mee - volunteer
La Montanita Co-op - conference bags and advertising
Paper Tiger - printing
Ranney Ranch - grassfed beef for conference meals
The Reel Life - silent auction item
Plants of the Southwest - silent auction item
Pleiades Foundation
Tarry Pesola - volunteer
Sangre de Cristo Mountain Works - auction item
Paul & Sarah Schwennesen, Double Check Ranch - silent auction item
Tom & Mimi Sidwell, JX Ranch - silent auction item
Jeremy Smith - volunteer and silent auction item
Craig Sponholtz - silent auction item
United Parcel Service - conference bags
Ute Creek Cattle Company
Vista Grande Gardens - silent auction item
Mollie Walton - volunteer
George Whitten, Jr. and Julie Sullivan, Blue Range Ranch/San Juan Ranch - certified organic grassfed beef for conference meals
Jim C. Williams - conference recording

An Essay from Courtney White

If you are concerned about climate change, then these are not the best of times. The recent decision by the U.S. Senate to postpone climate legislation and the failure of last year's Copenhagen summit to produce tangible progress on limiting greenhouse gases means Business-as-Usual still rules. 

The carbon dioxide (CO₂) content of the atmosphere has risen to 390 parts per million (ppm) – 40 ppm above what many scientists consider the level necessary to keep the climate stable for human life. And it is rising at 2 ppm per year, far faster than at any time in the Earth's climate history.

What to do? Some see salvation in high technology, including the 'capture' of CO₂ at its source and stored underground, or the 'scrubbing' of greenhouse gases from the atmosphere by hundred of thousands of boxcar-sized filtering machines.

The trouble is these technologies exist more in theory than reality, and even if they were practical, as well as safe, they are many years away from deployment. Meanwhile, the climate crisis is happening now.

Which leads to a novel idea: what about low technology?

As I see it, the only real possibility of large-scale removal of greenhouse gases from the atmosphere that can start today is plant photosynthesis and related land-based carbon storage activities – such as growing more grass.

There are only four natural carbon sinks on Earth: the atmosphere, the oceans, forests and other perennial vegetation, and the soil. The atmospheric sink is overflowing with CO₂, and the oceans are fast filling up – becoming alarmingly acidic as a result. Forests have a habit of being cut down or burned up, which releases stored CO₂ back to the atmosphere. That brings us to the dirt beneath our feet.

The potential for CO₂ storage in soils is three times greater than the atmosphere. And since two-thirds of the Earth's landmass is covered with grass, the potential

impact on the climate could be huge.

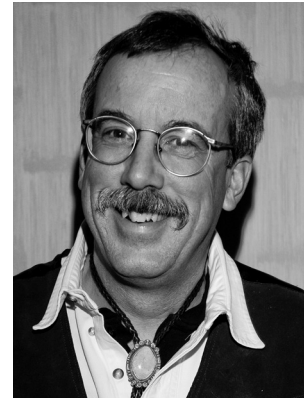
NASA's Dr. James Hansen, the nation's leading climatologist, postulates that 50 ppm of CO₂ could be pulled down and stored in the soil over the next fifty years. How? By employing the low technology of green plants, which transform atmospheric carbon into soil organic compounds that provide numerous benefits for humans and ecosystems alike.

In my experience in the arid Southwest, there are six strategies that can increase or maintain the carbon content of grass-dominated ecosystems. They include: (1) a switch to planned grazing systems using livestock as a land management tool, particularly on degraded

soils; (2) active restoration of degraded riparian and wetland zones; and (3) removal of woody vegetation, where this is appropriate, encouraging grass to

grow in its stead. Strategies to prevent carbon losses are: (4) the conservation of open space, sparing land from development and other land-use changes; (5) the implementation of organic no-till farming practices; and (6) management of land for long-term ecological and economic resilience.

Fortunately, many of the tools in the land management 'toolbox' that are required to implement these strategies have been tried and tested by practitioners, agencies and landowners over the past decade or two. Individually, these strategies have been demonstrated to be both practical and profitable.



continued page 4

The time has come to bundle them together into one economic and ecological whole, which I call a carbon ranch. The goal of a carbon ranch is to reduce atmospheric CO₂ while producing substantial co-benefits for all living things. These include local food production, improved ecosystem services, restored wildlife habitat, rural economic development, and the strengthening of cultural traditions – especially among young people.

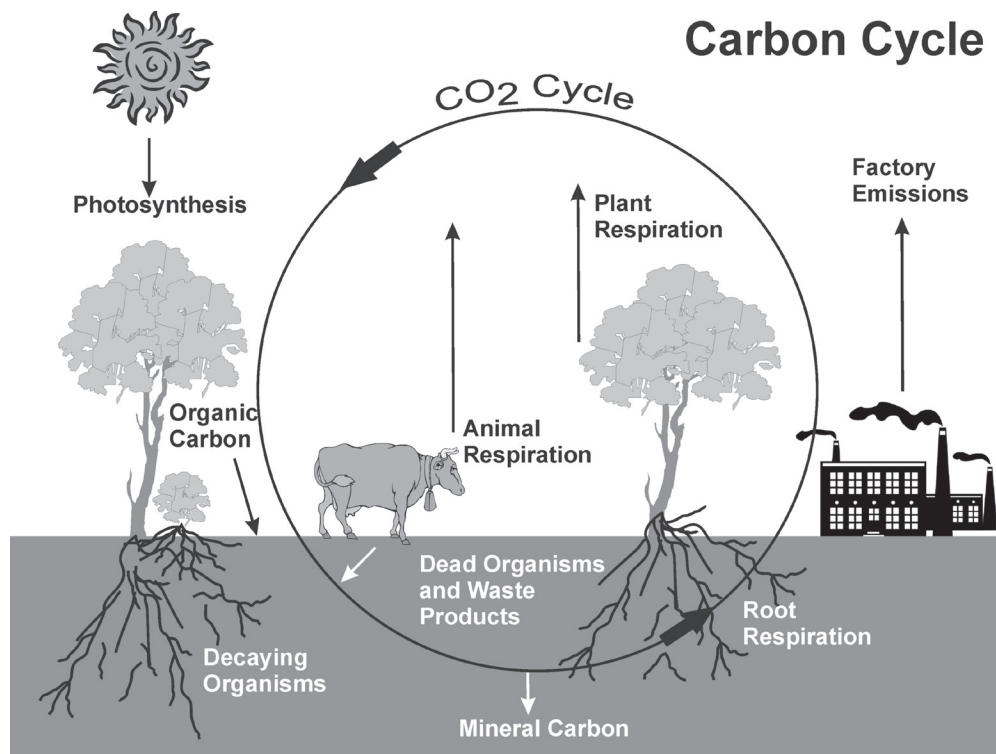
A carbon ranch also aims to reduce the amount of fossil fuel energy it uses, as well as the amount of greenhouse gases it produces. And if the ranch can produce local renewable energy in addition to local food – so much the better! In other words, one answer to the climate crisis is not to ‘eat less red meat,’ as is commonly asserted, but to obtain as much of your meat from a carbon ranch.

Of course, implementing a carbon ranch will be a big challenge, especially economically, though things could happen fast if early adopters were rewarded monetarily by governments for taking the leap into carbon ranching while waiting for the marketplace to develop.

Maintaining Business-As-Usual on a warming planet is not an option. But while we wait for policymakers to act, we can begin to fight climate change on the ground...one acre at a time.

Courtney

Courtney White, Executive Director



History/Future: Quivira Coalition

Founded in 1997 by two conservationists and a rancher, The Quivira Coalition is a nonprofit organization, based in Santa Fe, New Mexico, dedicated to building economic and ecological resilience in western working landscapes.

We do so via five broad initiatives: (1) improving land health; (2) sharing knowledge and innovation; (3) building local capacity; (4) promoting the concept of 'conservation with a business plan;' and (5) strengthening diverse relationships.

Specifically, our projects include: an Annual Conference, a ranch apprenticeship program, a long-running riparian restoration effort in northern New Mexico on behalf of the Rio Grande Cutthroat trout, a capacity-building collaboration with the Ojo Encino Chapter of the Navajo Nation, various outreach activities, and the promotion of the idea of a carbon ranch, which aims to mitigate climate change through food and land stewardship.

Background: In 1997, our goal was to expand an emerging 'radical center' among ranchers, conservationists, scientists and public land managers by focusing on progressive cattle management, collaboration, riparian and upland restoration, and improved land health. Our original mission was "to demonstrate that ecologically sensitive ranch management and economically robust ranches can be compatible."

We called this approach The New Ranch and described it as a movement that "operates on the principle that the natural processes that sustain wildlife habitat, biological diversity and functioning watersheds are the same processes that make land productive for livestock." The principles of The New Ranch were disseminated through workshops, lectures, publications, grants, consultations, collaborative land and water demonstration projects, a Journal, the New Ranch Network, a small loan program, and an Annual Conference.

From 1997 to present, at least 1 million acres of rangeland, 25 linear miles of riparian drainages and 12,000 people have directly benefited from The Quivira Coalition's collaborative efforts. We have also organized over 100 educational events on topics as diverse as drought management, riparian restoration, fixing ranch roads,

conservation easements, reading the landscape, monitoring, water harvesting, low-stress livestock handling, grassbanks, and grassfed beef. We also published numerous newsletters, Journals, bulletins, field guides, and books, including a rangeland health monitoring protocol and a 258-page manual on riparian restoration titled "Let the Water Do the Work."

We also managed the innovative Valle Grande Grassbank, located near Santa Fe, eventually becoming producers of local, grassfed beef ourselves.

But more importantly, The Quivira Coalition has lit sparks across the West that grew over time into small bonfires of change. Through our work, we've convinced ranchers to adopt conservation practices, environmentalists to value ranching, agencies to be more open to innovations, scientists to get more involved, and the public to support all of the above.

New Goal: Despite our success, the world kept changing – which meant we needed to keep changing too.

Although no one knows what the decades ahead will bring precisely, there are enough indicators of change to say with confidence that the 21st century has inaugurated a new era. Whether the concern is climate change, peak oil, ecosystem service decline, overpopulation, species extinction, or food and water shortages, the challenges ahead are daunting and varied.

We believe that one response to these multiple challenges is to increase ecological and economic resilience of communities and landscapes. The dictionary defines resilience as "the ability to recover from or adjust easily to misfortune or change." In ecology, it refers to the capacity of plant and animal populations to handle disruption and degradation caused by fire, flood, drought, insect infestation, or other disturbance. Resilience also describes a community's ability to adjust to change, such as shifting economic conditions, or a steady rise in temperatures.

**Quivira Coalition:
Building Resilience...
One Acre at a Time**

In 2005, the United Nations published its Millennium Ecosystem Assessment, a global evaluation of ecosystem services on which human well-being and environmental health depend. These services include the provision of food, fresh water, wood, fiber, fuel, and biodiversity; climate, flood, pest and disease regulation; nutrient cycling, soil stability, biotic integrity, watershed function, and photosynthesis; and spiritual, educational, recreational, and aesthetic experiences. According to the Assessment, nearly all of these services are in gradual or steep decline.

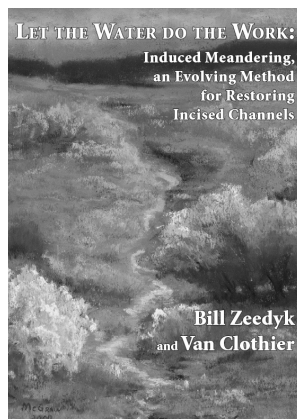
To help address these issues, in the fall of 2007 The Quivira Coalition Board adopted a new mission statement: "to build resilience by fostering ecological, economic and social health on western landscapes through education, innovation, collaboration, and progressive public and private land stewardship."

We work towards fulfilling our mission through three program areas: Outreach and Education; Capacity Building and Mentorship;; and Land and Water.

Outreach. From its inception, the Quivira Coalition has engaged in a variety of educational outreach activities, including an annual conference, a publications program, workshops, web sites, and public speaking engagements.

Annual Conference. This upbeat event, which regularly draws over five hundred people – a third of whom are ranchers – has become a successful forum for a 'radical center' of ranchers, conservationists, public land managers, and members of the public. Themes have included: Bridging the Urban-Rural Divide; Innovation and the Next Generation; and Building Resilience. Speakers have included: Wendell Berry, David Kline, Bill deBuys, Patty Limerick, Richard Louv, Deborah Madison, Jonah Western and many others. The theme of our 2009 Conference was "Living Leopold: the Rise of a New Agrarianism."

In partnership with restoration specialists Bill Zeedyk and Van Clothier, in 2009 the Quivira Coalition published, Let the Water Do the Work, an in-depth manual on how to restore sinuosity, health and function to incised riparian channels. The book debuted during Quivira's 8th Annual Conference. Let the Water Do the Work is distributed by the Quivira

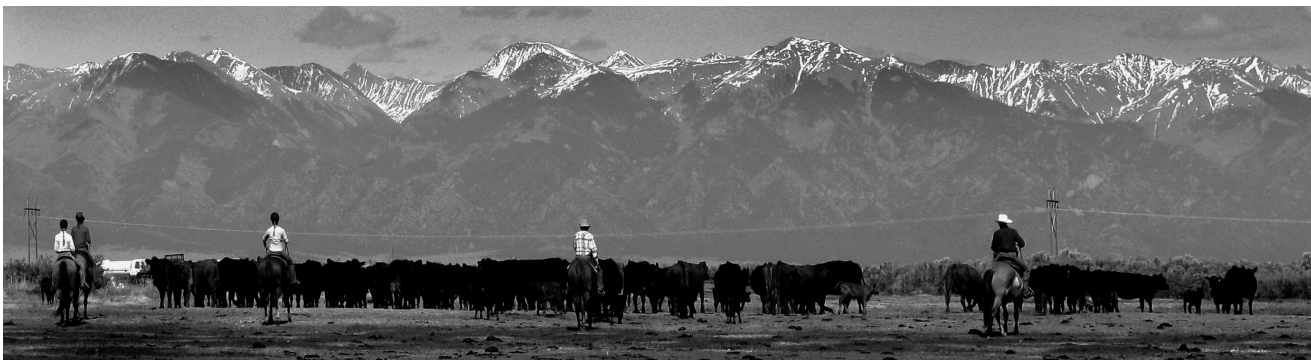


Conservation and Ranch Leadership and Youth (CARLY). This is a leadership development program targeted at young people who have made a sincere commitment to sustainable agriculture. We seek applicants who are willing to enter a year-long mentoring program that offers experiential training in all aspects of a resilient agricultural enterprise. We aim to strike a balance of mentorship activities and self-directed initiatives, with ample opportunities given to attend workshops, classes, and conferences that support Apprentice learning. Aspects of the curriculum include animal husbandry, range health monitoring, pasture rotation planning, herding, road restoration, range infrastructure maintenance, marketing grass-finished beef, business planning, small-scale gardening, and low-stress livestock handling. **Success:** In April, 2010, Amber Reed completed her apprenticeship at the San Juan Ranch, located in southern Colorado, and is now in a "level two" dairy apprenticeship at the James Ranch near Durango. Sam Ryerson completed his Apprenticeship at the San Juan Ranch this fall.

Tribal Partnerships. In 2005, the Quivira Coalition was approached by members of the Ojo Encino Chapter of the Navajo Nation for assistance with a workshop aimed at developing long-term grazing plans for recently treated rangelands. What began as a two-day grazing workshop has blossomed into a multifaceted effort that includes stream channel restoration, grazing plans, vegetation management, monitoring and erosion control. In many places on Chapter lands, there has been a two to four-fold increase in forage production as well as numerous broader ecological benefits. Additionally, we are supporting a pilot project by Chapter members to apply the immuno-contraceptive PZP to feral horses with the goal of slowing the growth in the unmanaged horse population on the reservation. Maybe even more importantly,



2009 Burch Award: Madison Valley Ranchlands Group (Charlotte and Lane Adamson, left; John and Donna Crumbley, right). Center - Andy Dunigan and Anne Wilson.



CARLY Apprentice horse clinic on the San Juan Ranch, Saguche, Colorado, May 16-17, 2009. (photo by Julie Bain)

the community is reengaged in the management of their land, and adjoining Navajo Chapters are interested in adopting the model. The ultimate goal of the Ojo Encino Project is to build sufficient organizational capacity within the Chapter so that members can develop strategic plans, implement projects and administer grants without outside assistance.

Comanche Creek...Building Resilience to Survive Climate Change. Since 2001, we have directed an innovative, collaborative restoration effort in the Comanche Creek watershed of the Valle Vidal unit of the Carson National Forest with the goal of improving the survival chances of the Rio Grande Cutthroat trout, New Mexico's state fish. Comanche Creek is typical of many areas that have experienced adverse human impacts historically, including poor timber management, overgrazing by livestock, and mineral extraction. The results of these land use practices led to increased erosion which has amplified the sediment load within the watershed. Today, the few remaining populations of Rio Grande 'cuts' face a significant new challenge: global warming, which includes a likely reduction in the abundance of clear, cold water that the trout require for survival. To build resilience for the Rio Grande Cutthroat trout to meet the challenge

of climate change, the project must: (1) expand the current habitat restoration work from selected segments of Comanche Creek to its entire 27,000-acre watershed; and (2) implement a sustained effort over a sufficiently long period of time to ensure the population's viability. This includes repeated maintenance, monitoring, and assessments.

Other past and current land health projects include treatments on the Dry Cimarron River, Mora River, Cedro Creek, Loco and Largo Creeks, Ponil Creek, the Valle Grande Ranch and Red Canyon Reserve (RCR). RCR is a 320-acre property willed to the Quivira Coalition in 2002 by Mike Belshaw and has become a successful demonstration project on how to restore and maintain the ecological integrity of small land parcels.

The Carbon Ranch Institute. This is a new project whose mission will be to explore and share climate change mitigation strategies that sequester CO₂ in soils and plants, reduce greenhouse gas emissions, and produce co-benefits that build ecological and economic resilience in local landscapes. This project will likely start with a book on carbon ranching, written by Courtney White.



Navajo horse trainer, Tom Chee, demonstrates ground work routine at Ojo Encino Horse Expo, October 2009. (photo by Avery C. Anderson)



Comanche Creek workshop participants, July 2010. (photo by Avery C. Anderson)

Opening and Keynote Speakers



OPENING SPEAKER

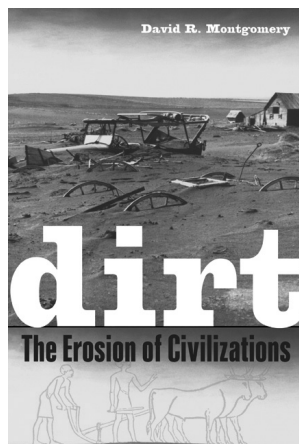
David R. Montgomery

Dirt: The Erosion of Civilizations

Wednesday, November 10, 7-9 pm

David R. Montgomery studies the evolution of topography and the influence of geomorphological processes on ecological systems and human societies. He received his B.S. in geology at Stanford University (1984) and his Ph.D. in geomorphology from UC Berkeley (1991). His published work includes studies of the evolution and near-extirpation of salmon, fluvial and hillslope processes in mountain drainage basins, the evolution of mountain ranges (Cascades, Andes, and Himalaya), and the analysis of digital topography. Current research includes field projects in the Philippines, eastern Tibet, and the Pacific Northwest of North America.

In 2008 Montgomery received a MacArthur Fellowship. His book, *Dirt: The Erosion of Civilizations* won the 2008 Washington State Book Award in General Nonfiction.



KEYNOTE SPEAKER

Christine Jones, Ph.D.

Soil Building Through Microbial Pathways: Mechanisms for Soil Carbon Sequestration

Thursday, November 11, 1:30 pm

Christine Jones is an internationally renowned and highly respected ground cover and soils ecologist. She has a wealth of experience working with innovative landholders to implement regenerative land management techniques that enhance biodiversity, increase biological activity, sequester carbon, activate soil nutrient cycles, restore water balance, improve productivity and create new topsoil. Christine has organized and participated in workshops, field days, seminars and conferences throughout Australia, New Zealand, South Africa, Zimbabwe and the USA and has a strong publication and presentation record.

New Agrarians



Amber Reed, CARLY apprentice, feeds a new calf, San Juan Ranch. (photo by Julie Sullivan)

"There is another way to live and think: it's called agrarianism. It is not so much a philosophy as a practice, an attitude, a loyalty and a passion – all based in close connection with the land. It results in a sound local economy in which producers and consumers are neighbors and in which nature herself becomes the standard for work and production."

– Wendell Berry

There are few challenges more daunting at this moment in time than encouraging the next generation of agrarian leaders, especially creating the opportunities that these future leaders need in order to learn from mentors and put their new knowledge to work. Today's new agrarians need on-the-ground opportunities to train with successful practitioners so that vital, experience-based knowledge can be transferred to a new generation of pathfinders.

In 2011, the **Quivira Coalition's 10th Annual Conference** will be dedicated to exploring issues faced by the next generation of agrarians. In preparation for next year's conference, we will be hosting a series of events at this year's conference focused on new agrarians:

1. **Thursday, November 11, 2010 @ 8pm: Film Screening** - Sierra Ballroom: ***The Greenhorns*** - a documentary film, now in post-production, explores the lives of America's young farming community - their spirit, practices and needs. It is the filmmaker's hope that by broadcasting the stories and voices of these young farmers, we can build the case for those considering a career in agriculture - to embolden them, to entice them, and to recruit them into farming.
2. **Friday, November 12, 2010 @ 3:30pm – 5:00pm: Opportunities and Challenges for New Agrarians in a Changing Climate.** The final event of the conference will be a New Agrarian Panel, where we will hear from six new agrarian leaders about the opportunities and obstacles they face in implementing agrarian stewardship practices on the land.

The panel will be led by Severine von Tscharner Fleming, a farmer, activist and organizer based in the Hudson Valley, NY. Over the past two years she has produced and directed a documentary film about the young farmers who are reclaiming, restoring, retrofitting and respecting this country of ours. That film, titled ***The Greenhorns***, grew into a small nonprofit organization that currently produces events, media and new media for and about the young farming community. Greenhorns mission is to "recruit, promote and support" the growing tribe of new agrarians. To that end, Greenhorns runs a weekly radio show on Heritage Radio Network, a popular blog, a wiki-based resource guide for beginning farmers, a GIS-based mapping project, and dozens of mixers and educational events for young farmers all around the country.

New Agrarian panelists include:

- Tyffany Herrera - tribal land restoration
- Vanessa Prileson - federal land management
- Amber Reed / Amy McMillin - small-scale dairy management
- Sam Ryerson - sustainable ranch management
- Tanya Stickford - solar energy production

Sam Ryerson, CARLY apprentice, works with San Juan Ranch Mentors on a winter grazing plan. (photo by Elaine Patarini)



Agenda

WEDNESDAY, NOVEMBER 10

7:00 Check-in - Lobby

Pre-Conference Workshop - Sandia Ballroom

8:30 Opening Remarks
Courtney White, Executive Director
Quivira Coalition

8:45 ***Bringing Life Back to Your Land: Moisture, Microbes, and Climate Change***
Craig Sponholtz, Dryland Solutions, Inc.,
New Mexico and
Doug Weatherbee, Mexico

10:00 Morning Snack Break - Lobby

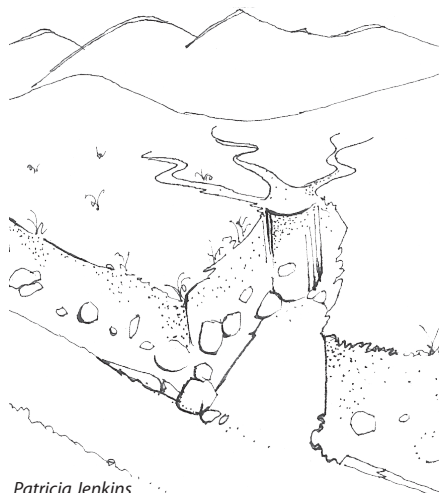
Noon Lunch - [location TBA]

1:30 ***Mob-grazing Workshop***
Greg Judy, rancher and 'mob-grazing'
educator, Missouri

3:00 Afternoon Snack Break, Lobby

5:00 Southwest Grassfed Livestock Alliance
(SWGLA) Meeting - Sierra Room

7- 9:00 **Wednesday Evening Presentation**
Sandia Ballroom
Dirt: The Erosion of Civilizations
David R. Montgomery, Author and
Professor of Geomorphology in the
Department of Earth and Space Sciences,
University of Washington, Seattle



Patricia Jenkins

THURSDAY, NOVEMBER 11

7:00 Check-in - Lobby

Plenary Conference Sessions - Sandia Ballroom

8:15 Opening Remarks
Courtney White, Executive Director,
Quivira Coalition

Session I - A Global Perspective

8:30 ***Mitigating Climate Change Through Food and Land Use***
Sara Scherr, Ecoagriculture Partners,
Washington, D.C.

9:15 ***Livestock, Landscapes and Livelihoods: the Contribution of Global Grazing-lands to Climate Change Mitigation and Adaptation***
Constance L. Neely, Ph.D., Senior
Consultant, Nairobi, Kenya and Rome, Italy

10:00 Morning Snack Break - Lobby

Session II: Case Study / the Marin Carbon Project

10:30 ***Range Science and Range Management: Finding Common Ground***
John Wick, Rancher and Director of the
Marin Carbon Project, California and
Jeffrey Creque, Ph.D., Researcher,
California

Noon Lunch - Sierra Room and Atrium

1:30 Keynote Address: ***Soil Building Through Microbial Pathways: Mechanisms for Soil Carbon Sequestration***
Christine Jones, Ph.D., Founder of the
Australian Soil Carbon Accreditation
Scheme (ASCAS), Founder, Amazing
Carbon

2:45 Afternoon Snack Break - Lobby

Session III: Putting It To Work

3:15 ***Healing the World with Holistic High Density Grazing***
Greg Judy, Rancher and 'mob-grazing'
Educator, Missouri

4:00 ***Organic Management Strategies to Improve Soil Health and Carbon Sequestration***

Jeff Moyer, Farm Director,
The Rodale Institute, Pennsylvania

5:30-7:30 Currier Award Ceremony - Sierra Room

The Michael S. Currier Environmental Service Award, administered by the New Mexico Community Foundation and sponsored by the Thaw Charitable Trust, honors individuals for their contributions to the environmental health of the American Southwest. This year the award will be presented to Courtney White, author and co-founder of the Quivira Coalition at a reception and ceremony with wine and hors d'oeuvres. A production by award winning documentarian Jack Loeffler, will highlight the success of Courtney's contribution to the health of working landscapes in the American Southwest. *Seating is limited to the capacity of the Sierra Room.*

8:00 **Film Screening** - Sierra Room
The Greenhorns, a documentary film, explores the lives of America's young farming community



Sam Ryerson and Avery Anderson riding the range on San Juan Ranch.
(photo by Elaine Patarini)

FRIDAY, NOVEMBER 12

7:00 Check-in - Lobby

Session IV: The Urban Perspective - Sandia Ballroom

8:30 ***Underground Economics: Making Markets to Solve Cities' Problems Through Soil Formation***
Abe Collins, Founder of New Soil Matrix, Inc., and New Soil Quantum, Inc., Vermont

9:15 ***A Watershed Perspective***
Brock Dolman, Director of the Occidental Arts & Ecology Center's Water Institute (OAEC), California

10:00 Morning Snack Break - Lobby

Session V: Case Study / Ranney Ranch

10:30 ***Working with Carbon: The Interplay of Range Management, Grassfed Beef, Wind and Biomass***
Nancy Ranney, Ranney Ranch Grassfed Beef, New Mexico and
Steven Apfelbaum, Senior Ecologist, Applied Ecological Services, Wisconsin

Noon Lunch - Sierra Room and Atrium

Session VI: Putting It All Together

1:30 ***Sequestering Carbon for the Carbon Market: Doing it and Proving it***
Dr. Bill Chameides, Dean of the Nicholas School of the Environment, Duke University, North Carolina

2:15 ***Carbon and Conservation for Pastoral Communities***
John Kamanga
Coordinator, South Rift Association of Land Owners (SORALO)
Southern Rift Valley region of Kenya

3:00 Afternoon Snack Break - Lobby

3:30 - 5:00 Special Session - La Ventana Room
Opportunities and Challenges for New Agrarians in a Changing Climate
New Agrarian Panel, led by Severine von Tscharner Fleming, Farmer, Activist and Organizer based in the Hudson Valley, New York

6:30 **Awards Banquet** - Sierra Room

Speaker Information

- Steven I. Apfelbaum
Author,
Senior Ecologist of Applied Ecological Services, Inc.
The Earth Partners, LLC
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- William Chameides
Dean of the Nicholas School of the Environment,
Duke University
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bill.chameides@duke.edu
- Abe Collins
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- Jeffrey Creque, Ph.D.
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Australian Soil Carbon Accreditation Scheme
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Rancher and Director of the Marin Carbon Project
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The Clarence Burch Award

T

he Clarence Burch Award is given by Andrew Dunigan and the Dunigan Family to honor the memory of Andy Dunigan's grandfather, an innovative and enterprising rancher who courageously embraced new ideas and methods of "doing business." The award recognizes individuals, organizations and others who have led by example in promoting and accomplishing outstanding stewardship of private and/or public lands.

The goals of the Burch Award are consistent with the mission of The Quivira Coalition and its New Ranch paradigm, i.e., to explore innovative ideas in ranch management and build bridges between ranchers, environmentalists, public land managers, scientists, and others with the goal of restoring western rangelands collaboratively.

2010 NOMINEES:

- Jim Crosswhite, Nutrioso, Arizona
www.ecbarranch.com
- Joyce E. Dearstyne, Executive Director of Framing Our Community, Elk City, Idaho
www.framingourcommunity.org
- Earth Care, Santa Fe, New Mexico
www.earthcare.org
- Framing Our Community, Elk City, Idaho
www.framingourcommunity.org
- Christopher Gill and the Circle Ranch, San Antonio, Texas
- National Center for Appropriate Technology, Butte, Montana www.ncat.org
- Rio Grande Headwaters Land Trust, Del Norte, Colorado - www.riograndelandtrust.org
- Don and Jane Schreiber Blanco, New Mexico
- Tom and Mimi Sidwell, JX Cattle Company, LLC, Tucumcari, New Mexico - www.jxranch.com

CLARENCE BURCH (1906-2000)

Rancher, teacher, conservationist, activist, international diplomat, and public servant to five governors, Clarence Burch lived an enviable career full of innovation, dedication, curiosity, and good humor. He was a man very much of his time, and yet miles ahead of it as well.

The eldest of nine children, Clarence was born in Bro-mide, Oklahoma, in what was then Indian Territory. Raised on various farms and ranches, he developed a love of the land that grew to become a passion for a lifetime. "My grandfather had an innate sense for natural forces," says Andy Dunigan. "Land was in his blood. Every discussion always started with a question about the weather."

One area that Clarence applied his "can-do" attitude to was water. While serving as Director of the Division of Water Resources in the 1940s, he traveled to every seat of Oklahoma's 77 counties to assess municipal and rural water needs. Shortly thereafter, with Clarence's encouragement, and over the objections of the oil companies, Governor Roy Turner signed the state's first groundwater restrictions into law.

He was a careful steward of his own land as well. "He knew that all he had to sell on his ranch was grass," recalls his son Tom. "So, he took care to do the job right." His grandson agrees. "He understood that land has its limits," recalls Andy. "And he emphasized collaborative solutions to natural resource problems."



Clarence Burch

Clarence's people skills extended to his family as well. Andy remembers him as an "extremely warm, charismatic man who got along with people from all walks of life." A son-in-law, Jim Wilson, says Clarence could "carry on a conversation on any topic" and did so right up to the end of his life.

Perhaps Andy sums up his grandfather's qualities best: "Clarence embodied what we call today 'The Radical Center.' He was more than just a rancher. He was a public servant, an activist, and a man very concerned about the land and sustainable practices. He was a remarkable man."

We at the Quivira Coalition are proud to honor Clarence Burch with an Annual Award presented in his name.

2010 Clarence Burch Award Winner: Altar Valley Conservation Alliance

In 1995, ranchers in the Altar Valley southwest of Tucson came together to create the Altar Valley Conservation Alliance (AVCA). Inspired by the Malpai Borderlands Group, the ranchers wanted to return fire to their high desert grasslands and keep the valley as a working landscape unfragmented by subdivisions such as those sprawling across much of southern Arizona. AVCA became a 501(c)(3) non-profit organization in 2000, the same year it completed an assessment of the Altar Valley watershed funded by the Arizona Water Protection Fund.

Those were hard years. During the late 1990s, Arizona was ground zero in the Western range wars. With its headquarters in Tucson, the Center for Biological Diversity targeted the Chilton family and its Montana allotment in Coronado National Forest. Co-founders of the Alliance, the Chiltons fought back, suing the Center for malicious libel. Courts eventually awarded the Chiltons \$100,000 in damages and \$500,000 in punitive damages, but rancor and bitterness were the order of the day. Conflict between ranchers and the first director of the Buenos Aires National Wildlife Refuge, which occupies the southern third of the valley, only added fuel to the fire—a cultural conflict that did not benefit the land.

Today, the Buenos Aires and the Chilton family have something in common: both have established refugia for the Chiricahua leopard frog, an endangered species, on their land. Neighboring Santa Margarita Ranch is also cooperating with biologists to protect leopard frogs in its stock tanks. AVCA and Buenos Aires are close partners who share personnel and equipment as they carry out conservation on the ground, not in the media or the courts. Thanks largely to the efforts of AVCA, land managers in the Altar Valley are starting to think like a watershed instead of as a patchwork quilt of competing jurisdictions.

The Alliance spearheaded the development of the Altar Valley Fire Management Plan, one of the largest in the West. That plan will be put into action through a 2010 grant of \$150,000 from the National Fish & Wildlife Foundation's (NFWF) Sky Island Grasslands initiative. Five prescribed burn plans are currently being written; the burn plans will cover Bureau of Land Management, Buenos Aires, Arizona State School Trust, and Pima County lands as well as private ranchlands. Another key partner is the Arizona Chapter of The Nature Conservancy (TNC), which will provide liability insurance in return for having its fire manager supervise the burns. Paraphrasing the fire manager for Buenos Aires, the Alliance is stimulating its county, state, federal, and private partners to think outside the box and work together across boundaries to accomplish conservation on a watershed scale.

The Alliance also spearheads an Altar Valley Watershed Restoration Plan, sponsoring workshops by water flow experts Bill Zeedyk and Steve Carson and bringing together volunteers and the Pima County Transportation Department to restore gullies and redesign rural roads to reduce erosion. These projects are directed by AVCA's half-time Restoration Coordinator, David Seibert. David has obtained grants from the Natural Resources Conservation Service (NRCS), U.S. Fish & Wildlife Service (USFWS), Buenos Aires, and Freeport-McMoRan Copper and Gold Foundation, to restore upland washes across the



Long time Altar Valley ranchers Charley Miller and John King were dreaming and scheming at a cattle sale back in the fall of 1995, and so began the Altar Valley Conservation Alliance.



Pat & Cora. Conserving the Altar Valley for future generations through restoration, community education and science.

valley. He is one of two part-time employees the Alliance has been able to hire to take our all-volunteer organization to the next level of organization and commitment. The other is Project Administrator Sherie Steele.

The collaborative environment facilitated by the Alliance has contributed greatly to regional conservation efforts. In recent years, Pima County has emerged as a major partner in the Altar Valley, with ownership and management interest in over 200,000 acres of private and leased land. These lands were purchased by Pima County between 2004 and 2010 in support of the County's Sonoran Desert Conservation Plan, and are now part of Pima County's Maeveen Behan Conservation Lands System. Just a few weeks ago, after years of collaborative effort, Alliance partners and Pima County staff were successful in gaining support for addition of a \$1.5 million Altar Valley watershed restoration project to the next Pima County bond initiative project list. This project would carry out an in-depth scientific and engineering study of the watershed, focused on designing restoration solutions for the highly eroded main stem of the Altar Wash; and it would provide funding to continue and build on the restoration and fire programs well underway. While the bond initiative is not on the ballot in Pima County yet, the groundswell of public support for considering watershed-based conservation infrastructure as an important community and regional endeavor is an accomplishment unto itself.

Fifteen years of common projects and face-to-face communication have created a network of partnerships in the Altar Valley based upon mutual trust. AVCA works closely with the Arizona Game & Fish Department, USFWS, Arizona State Land Department, NRCS, TNC, and Pima County's Natural Resources, Parks, and Recreation Department, among others. AVCA Community Meetings generally bring thirty to fifty people together---ranchers,

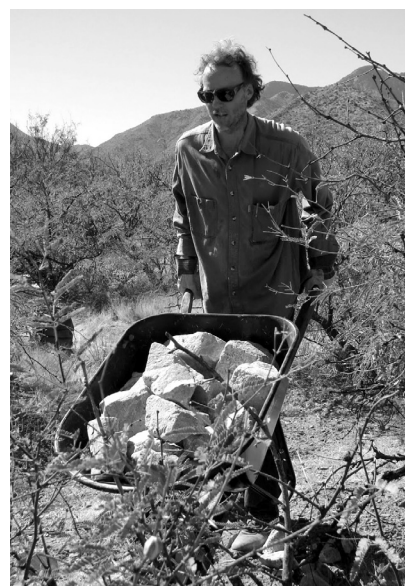
citizens, representatives from county, state, and federal agencies, members of other conservation NGOs---to share news, learn about issues, collaborate on conservation projects, and just stay in touch. The Alliance newsletter *The Rainmaker* then disseminates these stories to partners and the public. Our website, www.altarvalleyconservation.org is now online.

The mission of the Alliance is to leave "the next generation with a healthy, productive watershed, a thriving agricultural community, and rural life enriched by the culture and history of the Altar Valley." A new Science Advisory Board will help guide conservation efforts and select the recipient of the \$5000 Altar Valley Watershed Research Fellowship, awarded annually to encourage natural or social science research in the valley. This year's first fellowship went to Greg Butler, a student of Dr. George Ruyle at the University of Arizona, who is going to conduct a study entitled "Evaluating the Effects of Grazing Land Conservation Practices on Southwestern Watersheds" for his dissertation. The Clarence Burch Award funds will be added to an endowment for this fellowship, helping AVCA to utilize the best science available to make our mission come true.

Altar Valley Conservation Alliance

Mary Miller,
Vice-President

Tom Sheridan,
Community
Representative



Restoration Coordinator David Seibert doing the work he loves best!

2010 Recognition Awards for Outstanding Leadership in the Radical Center

The Fourth Annual Recognition Awards for Outstanding Leadership in the Radical Center are dedicated to the “four legs” of The Quivira Coalition’s original “chair” – ranchers, conservationists, civil servants, and researchers. We wish to recognize those individuals in each category who have shown remarkable and enduring leadership in the difficult job of working in the radical center – the place where people are coming together to explore their common interests rather than argue their differences, as author and conservation leader Bill deBuys has described it.

We believe that the radical center is where real change happens – on the “actual landscape of the back forty” as Aldo Leopold put it. But change needs strong leadership, especially in this era of seemingly endless partisanship. We think the time is right to honor those who have advanced the cause of the radical center with integrity, vision, and determination – sometimes against long odds. Each has inspired us with their dedication to family, community, healthy lands and advancement through their teaching, writing, research, service, work and good humor. Through their efforts and leadership they have been a strong voice for the common bonds that bind us together. We are proud to honor these fine individuals.

On behalf of the Board and staff of The Quivira Coalition, we are honored to award the “Outstanding Leadership” Awards for 2010 to:

RANCHING - Tom and Mimi Sidwell

Tom and Mimi Sidwell own and operate the 7,000-acres JX Ranch located in northeastern New Mexico, where they raise all-natural grass-fed beef and sell it through their website www.leannaturalbeef.com. Customers from all over the U.S. can buy their dry-aged whole, half or quarter of a beef or a smaller beef pack over the internet and have it shipped to them. The Sidwells manage the natural resources on their ranch using holistic range management principles. They have vastly turned this ranch around by, among other things, installing a multitude of range improvements including pipelines, water storages and electric fencing, as well as mechanically removing dense mesquite thickets, cholla, and juniper. This now enables them to rotate the whole herd, allowing for 105 days of rest in each of the 26 pastures, with short grazing periods. The result has been nothing short of amazing. Their goal is to improve the ecological health of the land, including that of water, vegetation, and animals, while at the same time making a living and sharing this unique lifestyle with others which they do through their “working cattle ranch” vacation offerings. Over the years, they have won awards for their stewardship management including: Society for Range Management, Excellence in Range Management Award



2008; Upper Hondo Soil & Water Conservation District, Outstanding Rancher 1991 & 1994 ; Goodyear/NACD Conservation Awards, Award of Merit for Outstanding Accomplishments in Resource Conservation 1991 & 1994; and, New Mexico Cattle Growers Association; Salt of the Earth Award 1993 & 1995 (Those volunteers who donate their time, energy, expertise and resources are the SALT OF THE EARTH).

Visit the JX Ranch website: www.jxranch.com

CONSERVATION - Dan Taylor

Dan directs the Water for Wildlife Project for Bat Conservation International (BCI), the Texas-based non-profit whose mission is to conserve the world's bats and their ecosystems in order to ensure a healthy planet. The Project's goals are to ensure safe and reliable water resources for both livestock and wildlife, in the face of climate change and drought. Dan previously directed BCI's Forests and Abandoned Mine Lands programs, and received his B.S. in Wildlife Biology from the University of Montana and an M.S. in Forestry from Northern Arizona University. Dan has more than 25 years of experience working on a wide range of wildlife conservation projects in North and Central America and Africa. Prior to BCI, Dan was a biologist with the Forest Service on the Kootenai, Mount Hood, and Prescott National Forests in Montana, Oregon and Arizona, respectively. Dan was also the first director of the Cockscomb Basin Jaguar Preserve while serving in the U.S. Peace Corps in Belize. He is particularly passionate about balancing natural resource utilization and wildlife conservation, his family, and whitewater rafting. Dan is being honored for his endless efforts in reaching out to rural communities to enhance wildlife habitat.



Visit Bat Conservation International's website:
www.batcon.org

CIVIL SERVICE - Maryann McGraw

Maryann is the Wetlands Program Coordinator and the Wetlands and Department of Transportation Team Leader with the New Mexico Environment Department (NMED) Surface Water Quality Bureau. Maryann has managed the New Mexico Wetlands Program since 2003. Since then, the Wetlands Program has been awarded 20 competitively-obtained grants for wetlands projects that are conducted throughout New Mexico. These projects include developing Wetlands Action Plans in partnership with watershed groups and stakeholders, designing and implementing wetlands/riparian/buffer restoration projects, developing best management practices specific to wetland type, devel-



oping monitoring protocols and conducting baseline monitoring specific to New Mexico's wetlands, and mapping and classifying wetlands resources in New Mexico. The Wetlands Program is committed to increasing public awareness around the state regarding the important functions and irreplaceable services that wetlands provide. The goal of the New Mexico Wetlands Program is to restore and protect New Mexico's remaining scarce wetlands resources for the benefit of all New Mexicans.

Visit NMED-SWQB's website:
www.nmenv.state.nm.us/SWQB

RESEARCH - Christine Jones, Ph.D.

Christine Jones is an internationally renowned and highly respected ground-cover and soils ecologist. She has a wealth of experience working with innovative landholders to implement regenerative land management techniques that enhance biodiversity, increase biological activity, sequester carbon, activate soil nutrient cycles, restore water balance, improve productivity and create new topsoil. Christine has organized and participated in workshops, field days, seminars and conferences throughout Australia, New Zealand, South Africa, Zimbabwe and the USA and has a strong publication and presentation record.



Christine received a Community Fellowship Award from Land and Water Australia in 2001. The LWA Community Fellowship Program was designed to "provide recognition to individuals with an outstanding track record in mobilizing and inspiring the community to better manage their land, water and vegetation."

In March 2007, Christine launched the Australian Soil Carbon Accreditation Scheme (ASCAS), the first incentive payment scheme for soil carbon in the world - making Australia a leading nation in the recognition of soils as a verifiable carbon sink. The ASCAS project rewards landholders for adopting innovative techniques designed to sequester soil carbon and improve soil water-holding capacity, thus reducing the atmospheric concentration of both carbon dioxide and water vapor, the two major greenhouse gases.

Visit the Amazing Carbon website:
www.amazingcarbon.com

Conference Extras

EXHIBITORS

Arriola Sunshine Farm

Dreaming New Mexico

Earth Works Institute

Green Fire Times

The Greenhorns

Holistic Management International

National Center for Appropriate Technology

New Mexico Land Conservancy

New Mexico Society for Range Management

Natural Resources Conservation Service
- Grazing Lands Conservation Initiative

Ojo Encino Ranchers Committee

Plants of the Southwest

Rangeland Hands, Inc.

Shining Horizons Land Management

Soil Carbon Challenge

Southwest Grassfed Livestock Alliance (SWGLA)

Tax Credit Connection, Inc.

Tooley's Trees

Universal Cattle Guards

US Fish and Wildlife

SILENT AUCTION

All items are located in the Ocotillo Room in our books and products sale room. Bids are submitted in writing starting noon Wednesday and ending at 1:30 pm Friday. Highest bidders will be announced at 3:00 Friday, during the plenary session. Settlement time is between 3:00-5:00 at the registration desk. Our appreciation and gratitude goes out to those who have donated services or products for this fund raiser. All proceeds benefit the Quivira Coalition.

HIGHLIGHTS:

Guest Ranch Lodging and Vacation

Land Restoration Consultations

Six Day Holistic Management in Practice Training Course

Grassfed Beef Packages

The Perfect Carbon Ranch Collectors Bicycle

Artisan Cheese

Signed Posters of "A Carbon Ranch"

Gift Baskets

Case of New Mexico Wine

Guided Fly Fishing Trip

And more!



Ann Adams and Cheryl Goodloe at Holistic Management International's Exhibitor booth during Quivira's 2009 Annual Conference.

BOOKS AND PRODUCTS SALES OCOTILLO ROOM

Steven Apfelbaum

- *Natures Second Chance*
- *Restoring Ecological Health to Your Land*

Richard Cates, Jr.

- *Voices from the Heart of the Land*

Dan Dagget

- *Beyond the Rangeland Conflict*

Christopher Field and Michael Raupach

- *The Global Carbon Cycle: Integrating Humans, Climate, and the Natural World* (a SCOPE book)

Kirk Gadzia and Nathan Sayre

- *Rangeland Health and Planned Grazing Field Guide*

Kirk Gadzia and Todd Graham

- *Bullseye: Targeting Your Rangeland Health Objectives*

Shannon Hayes

- *The Grass Fed Gourmet Cook Book*

• Jim Howell

For the Love of Land

• Greg Judy

- *Comeback Farms*
- *No Risk Ranching*

Rick Knight and Courtney White

- *Conservation for a New Generation*

Curt Meine

- *Aldo Leopold - His Life and Work* (with a new preface by the author and an appreciation by Wendell Berry)

David R. Montgomery

- *Dirt: The Erosion of Civilizations*

Dr. Gary Nabhan

- *Where Our Food Comes From*

Corinne Platt & Meredith Ogilby

- *Voices of the American West*

Quivira Coalition

- *Forging a West That Works*
- *The New Ranch Handbook*

Quivira Coalition and Dryland Solutions, Inc.

- *Erosion Control Field Cards*

Sara Scherr

- *Ecoagriculture*
- *Farming with Nature*
- *Mitigating Climate Change*
Worldwatch Report 179

Burt Smith

- *Moving 'EM - A Guide to Low Stress Animal Handling*

Courtney White

- *Revolution on the Range*

Bill Zeedyk

- *Introduction to Induced Meandering*
(April 2009 reprint)
- *Water Harvesting from Low-Standard Rural Roads*

Bill Zeedyk and Jan-Willem Jansens

- *Introduction to Erosion Control*
(April 2009 reprint)

Bill Zeedyk and Van Clothier

- *Let the Water Do the Work: Induced Meandering, an Evolving Method for Restoring Incised Channels*

Livestock in a Changing Landscape, Volumes 1 and 2



Red Canyon Reserve, February, 2003. (photo by Courtney White)

Acknowledgements

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We also send a special thanks and appreciation to our 2010 partners, supporters and workshop volunteers:

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Bob's Yard
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Bybee Family Foundation
Cañon Bonito Ranch
Cañon Rio Creations, LLC
Nansy Carson
The Christensen Fund
Carson National Forest Supervisors Office
Cimarron Watershed Alliance
Community Bank, Santa Fe
Compton Foundation
Margo Cutler
Craig Conley
A.T. and Cinda Cole
The Conservation Fund
William S. Cowles
Stephen P. Cramer
Chris Cudia
James A. "Buddy" Davidson Charitable Foundation
Beverly DeGruyter
Direct Mailing Services, LLC
Dixon Water Foundation
Dryland Solutions, Inc.
Earth Works Institute
Daniel Escutia
Dan Flitner, Hobo Ranch
Abe Franklin
Sterling Grogan
Hasbidito
Jone Hallmark
Gen Head
Healy Foundation
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Maryann McGraw
McNultyZahm, LLC
Karen Menetrey

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Mesteño Draw Ranch
Greg Miller
Zig Napkora
New Mexico Community Foundation
New Mexico Department of Game and Fish
New Mexico Environment Department
- Surface Water Quality Bureau
New Mexico Forest & Watershed Health Office
New Mexico Trout
Natural Resource Conservation Service
- Conservation Initiative Grant
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The Onota Foundation
David and Lucile Packard Foundation
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Paper Tiger, Santa Fe
Patagonia World Trout Initiative
Pecos/Las Vegas Ranger District, USFS
Philmont Scout Ranch
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Pete Pulis
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Santa Fe County
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Rio Puerco Alliance
Barbara Roastingear/Henry Oliver III Family Foundation
Sam Ryerson
Sandy's Services, LLC
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Santa Fe Garden Club
Santa Fe Watershed Association
Southwest Grassfed Livestock Association
Sulica Fund
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Thaw Charitable Trust
Ellie Trotter
Trout Unlimited - Truchas Chapter
US Forest Service, Region Three
USDA Natural Resource Conservation Service
Wind River Ranch
Zeedyk Ecological Consulting, LLC
AND THE ENTIRE QUIVIRA COMMUNITY!

Board of Directors/ Staff

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Vice-Chair - Sid Goodloe, Rancher

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- Ray Powell, Regional Director, Roots & Shoots,
Four Corners States
- Tim Sullivan, The Nature Conservancy
- Patricia Quintana, Rural Economic Strategist
- Nancy Ranney, Rancher

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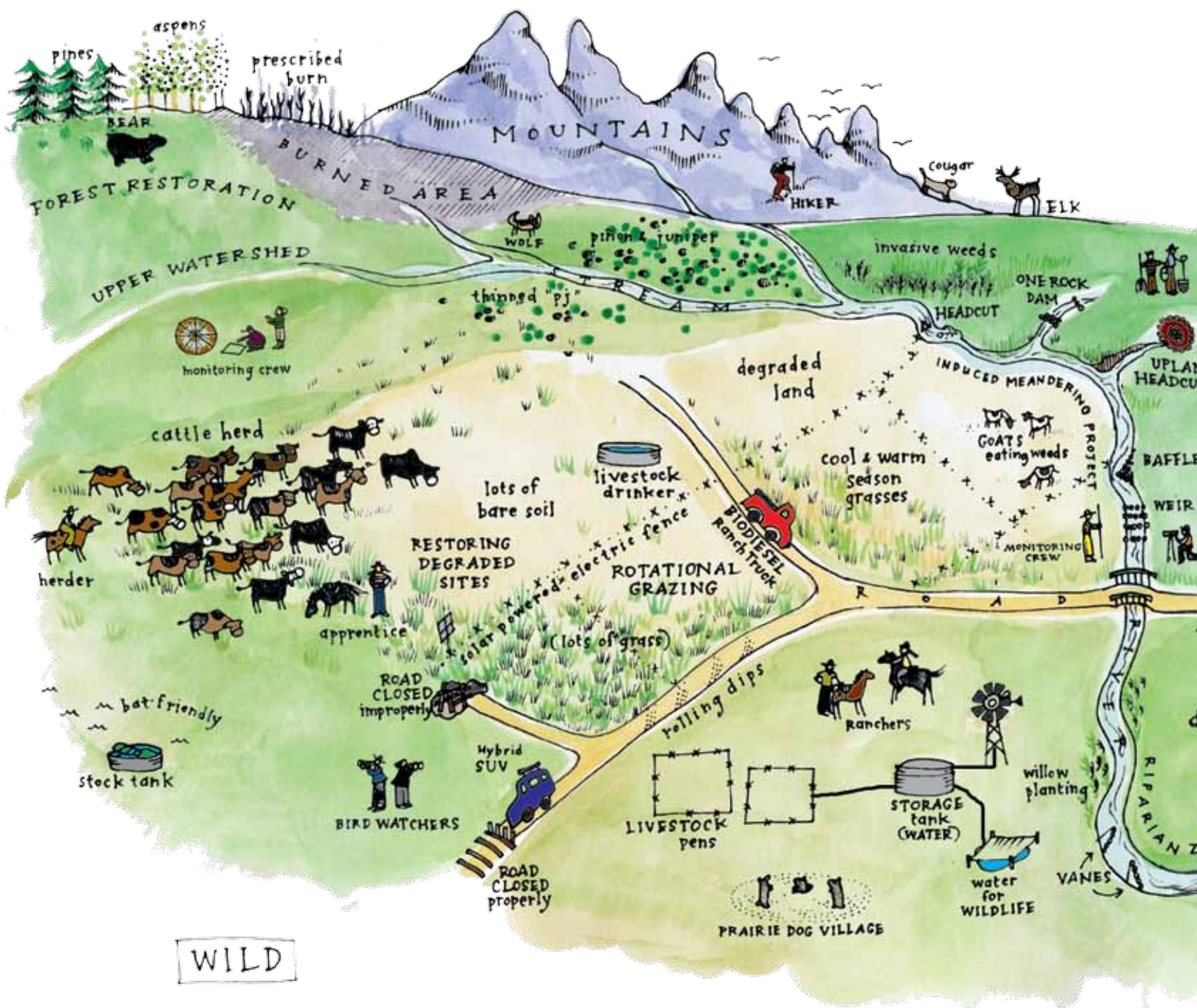
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*Nancy Ranney, Rancher, Quivira Coalition
Board Member and Conference Speaker.*



WILD

SEMI-WILD

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