

Ground Truth



Quarterly Publication of the Diablo Trust – A Northern Arizona Collaborative Grassroots Land Management Team



The Diablo Trust is a 501(c)(3) land management team created in 1993 to promote the social, biological and economic sustainability of 426,000 acres of intermingled federal, state, and private lands southeast of Flagstaff, AZ by engaging in a collaborative stewardship process that is in harmony with the natural environment and the broader community.

The phrase “Learning from the land and sharing our knowledge, so there will always be a West” captures our mission.

Ground Truth is the quarterly publication of the Diablo Trust, mailed free of charge to everyone on our mailing list.

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Contributors are solely responsible for the content of their articles, and the opinions expressed in articles, linked materials, and comments are not necessarily those of the Diablo Trust.

Reflections of the Land Exhibit Opens in June

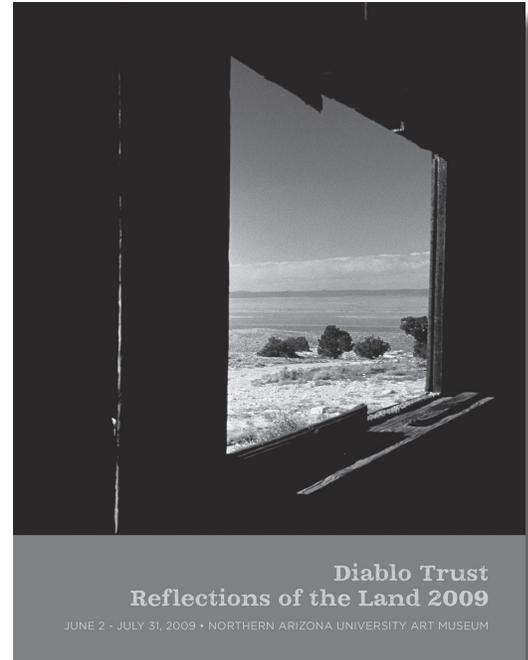
The Diablo Trust is pleased to announce our third “Reflections of the Land” Exhibit, opening in June at the NAU Museum of Art.

A reception, featuring live music, dance and readings will be held June 6, from 5:30 - 8 pm at the Museum and nearby Ashurst Auditorium.

The artists involved in the show produced literary, performing and visual arts as a result of their experiences at the Diablo Trust’s “Artist’s Days on the Land” on the historic northern Arizona Bar T Bar and the Flying M ranches.

The museum is open Tues. - Sat., 12 - 5 pm and closed all university holidays. This event is free and open to the public with a suggested \$2 per person donation. For more information, visit www.nau.edu/artmuseum or call (928)523-3471. The museum is located on the corner of Knoles and McMullen Circle in the historic Old Main building.

More information is also available on the Diablo Trust website at www.diablotrust.org.



Diablo Trust
Reflections of the Land 2009

JUNE 2 - JULY 31, 2009 • NORTHERN ARIZONA UNIVERSITY ART MUSEUM

Diablo Burger: Hip & Sustainable By Mary Tolan

Downtown Flagstaff just got hipper. And not only because of the cool orange “ride ‘em cowgirl” stools and the copper tabletops at the new Diablo Burger. But because this tiny burger shop on Heritage Square is offering Flagstaff and northern Arizona homegrown, grass-fed, open-range raised beef.

Diablo Burger was started partially to make use of the cattle bred on the Bar T Bar and Flying M ranches, which together make up the Diablo Trust - which is independent of the new restaurant. “Beef is and has been northern Arizona’s largest cash crop,” said Derrick Widmark, Diablo Burger’s owner. “Until now it’s all gone elsewhere. Yet we eat beef. We were paying extra to get beef from elsewhere. That doesn’t make any sense.”

Widmark, who is also Diablo Trust’s Communications and Program Coordinator, opened up shop with the hopes of supplying local beef and other local products to people who want to eat sustainably and, of course, who are looking for a decent burger. “Sustainability. For better and for worse, the word means different things to different people,” said Widmark, perched at one of the high tables in his intimate 26-seat restaurant (the tabletops can be lowered for someone in a wheelchair). He moved to Flagstaff three years ago and has worked for the Diablo Trust since his arrival. “At Diablo Burger we strive to connect the community to the producers of food who have demonstrated -- as these two ranches have -- very good stewardship of our lands.”

[cont’d on page 6]

Diablo Trust



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Acknowledgements

Western Silhouettes by Ace Reid, Jr., originally published in "Rawhide Bound," by Ed Bateman, Sr., Moss Publishing Co., San Angelo, Texas, 1950.

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Getting to Know... Tim Crews

Tim is Professor of Environmental Studies and Agroecology at Prescott College. Along with Tom Sisk and Matthew Loeser, Tim has overseen a 10-year study of grazing plots on Diablo Trust that will be the subject of our 2009 Summer Day on the Land (see back page). In addition, Tim was the keynote speaker of this year's Diablo Trust Annual Meeting on Ecosystem Services (and he was kind enough to provide an article summing up his talk; that article begins on the next page).

"I participate in the Diablo Trust because I think it is worthwhile. The Trust has tried, and succeeded, more than most governmental or non-governmental groups, in figuring out what to do next in a broad, participatory and honest manner. The Diablo Trust looks at the big picture, both socially, ecologically and inter-generationally, and is not afraid to grapple with very challenging questions."



Tim Crews, picking wolfberries

Tim's Diablo Trust Profile

Born in: Santa Fe, New Mexico

Childhood hero: Dudley Do-right

Current heroes: Wendell Berry, Wes Jackson, and the three women in my house

Favorite College Class: Natural History Field Quarter

Book you recently enjoyed: "The Sparrow" by Mary Doria Russell

Hobbies: Bicycling, gardening, raising chickens, softball, reading about nitrogen

Fondest Outdoor Memory: That's too big of a question!

Favorite Western: "Unforgiven"

Favorite Western-Wear Item: Bolos!

Favorite Ranch Recipe: Bean Burritos

Where the great adventure of life is taking you next: Heading to the UK for sabbatical at Rothamsted Research north of London

As of yet unrealized life's dream: Seeing a super nova

Favorite Quotation: "Perfection of means and confusion of goals seem -- in my opinion -- to characterize our age."

- Albert Einstein

Money Matters & Your Support Will Make a Difference

Please check out our new "One Dollar Per Acre"
Fundraising video at www.diablotrust.org

What the Heck are Ecosystem Services? (And What it Might Take for them to Save the Day)

By Tim Crews

The next time you buy a loaf of bread, ask yourself, “how much of the \$3.19 I am paying goes to the entity actually responsible for producing it?” Well, according to the website “Thank a Farmer,” about 18 cents went to the wheat farmer. But wait a second, you now ask yourself, do farmers actually grow the wheat – or are they mainly facilitators? Good question. Indeed, what really grew the wheat was rain that fell from the sky and an incredible Mollisol soil, complete with rich dark organic horizons and a complex, dynamic microbial community. No money currently pays for the climate and the Mollisol soil – two examples of “Ecosystem Services” that tend to be taken for granted, that is until they change or go away.

productivity, as well as aesthetic properties that promote human well being, such as education, recreation or spiritual renewal.

Central to all definition of ecosystem services is the idea that the environment should not be considered a “free good,” but rather should be managed or stewarded as natural capital. And like other forms of capital, it will depreciate without appropriate care (Daily et al. 2009). For example, the natural capital of the wheat-growing Mollisol soil described above has been taken for granted as a free good, one that will always be there. Without proper stewardship, however, this soil capital will be degraded through

Table 1. One way of thinking about different types of ecosystem services and examples of existing or potential ecosystems services relevant to the Diablo Trust.

Types of Ecosystem Services ¹	Examples of Subcategories	Examples of existing or potential Diablo Trust Ecosystem Services
Provisioning	Food Fiber Genetic resources	Beef production, hunting
Regulating	Climate Waste treatment Pollination	Carbon sequestration Storm water runoff control, Composted sludge application
Cultural	Education Research Recreation Cultural heritage Religious/spiritual	K-12 place-based education IMfOS monitoring, NAU/Prescott College research plots Artists’ days on the lanch
Supporting	Plant production Water cycling Nutrient cycling Biodiversity	Wood harvesting Water purification and recharge Protection of endangered species

¹ after Havstad et al. 2007 and Peters et al. 2006

The term “ecosystem services” is synonymous with another term, “nature’s services,” and both were launched into the mainstream in the late 1990s when Stanford researcher Gretchen Daily edited the volume “Nature’s Services: Societal Dependence on Natural Ecosystems,” (1997). Most simply, ecosystem services consist of the wide range of benefits that nature provides to households, communities and economies. These include functional properties of ecosystems that help to clean water and air, regulate water and nutrient cycles, control pest organisms, support plant

erosion, through loss of organic matter and soil structure, or when it is covered by buildings, lawns and roads.

Livestock production on non-irrigated rangelands also represents an important example of how sustainable food production relies heavily on ecosystem services – in this case, perennial plant productivity. Every year the soil microbial community, including players such as mycorrhizal fungi and nitrogen fixing bacteria, interacts with the soil, which interacts with the climate, which further interacts with particular perennial grasses and shrubs and annual

[cont’d on next page]

Ecosystem Services [cont'd]

forbes, to result in photosynthesis – edible plant growth – across a beautiful but fairly harsh landscape. By using livestock to harvest and convert this plant growth, open-range raised beef is one of the few food sources produced in the U.S. that does not carry a significant fossil fuel footprint. Why? Because nature is doing most of the work – planting, fertilizing, controlling pests and more.

But we all know that livestock production in the West continues to barely survive on the economic margin. This raises the question, are there other highly valued services being provided from lands like the Diablo Trust which are currently taken for granted? Services that would be sorely missed if they were to one day disappear? I have listed some Diablo Trust ecosystem services on Table 1, but if readers have other ideas – brilliant or mundane – please pass them along to the Diablo Trust. There is good reason to believe that several of these services are robust and hold considerable promise for helping with the bottom line of the Diablo Trust ranches, and in turn the conservation of local ecosystems. That said, we do face some formidable challenges in moving ecosystem services from concept to economic construct. Here I will explore three such challenges, recognizing that others may exist still.

Challenge #1 - What happens when different ecosystem services conflict? Some ecosystem services may not be compatible with one another, either because of conflicting human values or ecosystem processes. I will give an example of each. As participants in the Diablo Trust are well aware, the public holds different values for public lands. Livestock production, recreation and conservation of biodiversity are all non-equivalent but legitimate “ecosystem services.”¹ There is a significant degree of compatibility between these interests, but there are perceived or actual areas where these interests fail to overlap.

¹Some might challenge the extent to which recreation is an ecosystem service since it depends less on ecological processes, but consider an all-terrain vehicle driver who wants to recreate in the ponderosa woodland as opposed to the streets of Mesa. Are they not valuing an ecosystem service that is currently free? Similarly, people may question the extent to which biodiversity constitutes an ecosystem service that is of benefit to humans. Acknowledging that we do not know which organisms play key roles in making human life possible on the Colorado Plateau, the desire to protect all species – that is, Aldo Leopold’s land ethic – is a human value, which the ecosystems of Diablo Trust could accommodate.

Which ecosystem services are most important? The one with the constituency willing to pay the most? The one that offers the greatest number of people the greatest benefit? The Diablo Trust has become more adept than most land management organizations at working with the public when conflicting values are on the table, but a far-ranging discussion of potential ecosystem services is likely to deliver even greater levels of complexity.

No less tricky are potential “ecological conflicts” embedded in some of the services themselves. An example that is clearly relevant to the Diablo Trust lies in purported tradeoffs in soil organic carbon storage associated with intensive rotational grazing practices on the one hand, and herd reduction to obtain carbon sequestration credits on the other. When asked how they might improve the health and productivity of the rangelands they manage, many ranchers inspired by Holistic Resource Management will reply that they would increase their stocking rate and thus animal impact over short durations. Indeed, research conducted by Matthew Loeser on the NAU/Prescott College research plots situated on Anderson Mesa demonstrated higher rates of productivity under grazed (clipped) treatments than ungrazed treatments (Loeser et al. 2005). However, this increase in aboveground productivity may occur because plants are allocating more growth aboveground than belowground in response to grazing. Currently, in order to receive carbon sequestration credits (and therefore payments) through the Chicago Climate Exchange, ranchers have to decrease, not increase their stocking rates. The assumption is that rangelands are degraded, and the only way of restoring them (and sequestering carbon) is to reduce the herd size (Ahearn 2009).

Challenge #2 - Limits to science. Does intensive rotational grazing result in lower soil carbon storage? The answer is that we don’t know – first because the quantitative science is lacking. Gretchen Daily and colleagues (2009) recently wrote “The science of ecosystem services needs to advance rapidly. In promising a return (of services) on investments in nature, the scientific community needs to deliver the knowledge and tools necessary to forecast and quantify this return.” But the fact is, even if society were to make the investment in science, the complexity, heterogeneity and variability of landscapes makes certain ecosystem services very difficult if not impossible to quantify accurately – and carbon sequestration may fall into this group. The ability for a soil to store carbon varies with soil type, vegetation type, topographic position, and annual climate dynamics. The ability of scientists to accurately estimate carbon sequestration over a diverse landscape through time is questionable no matter how intensive the study.

[cont'd on page 9]

A Letter from Ryna Rock, President of the Arizona Wildlife Federation

Getting together with old friends is always fulfilling.

That's how it felt at the Annual Meeting of the Diablo Trust back in February. Their gracious invitation to me was the first step in a new beginning. The atmosphere was welcoming and communal. The matters up for discussion were varied, some troubling, some enlightening, and all approached thoughtfully and inclusively. I had a great time, and I had been part of a healing process long overdue between the Arizona Wildlife Federation and this part of Arizona's ranching community. More and more we are coming to the realization that the challenges facing Arizona's wildlife and habitat, its public lands and undeveloped private lands and all those who love the outdoors from all walks of life and all corners of the state, are insurmountable faced separately as lone entities. Solutions-based collaborations are becoming more and more necessary in the face of a "perfect storm" of negative impacts to our wild places and iconic landscapes.



Ryna Rock (center) with Jack Metzger, Kit Metzger and Judy & Bob Prosser at the 2009 Diablo Trust Annual Meeting

What a difference a decade or two makes! Viewing the gathering at the Annual Meeting I could hardly believe the mix of people and interests who were there. My first thought was how much we had missed in all the intervening years since what I will refer to as the "flare-up" had occurred. Since I was not a participant in any of that negativity, I felt no need to revisit any of it, but rather to acknowledge the destructiveness it unleashed within the conservation and ranching communities. My goal is to move past all that, and to become part of the solution. As I addressed the gathering, I looked out over the faces and knew that many had no idea of what I spoke, but I felt they did know that I came in sincerity and that what I was doing, simply needed doing for those who did know. On the faces of those, I saw a whole host of feelings displayed, all to the good. They were feeling what I was, thankfulness that we were going to be working together for a better future for the things that we all care deeply about.

For those who are unfamiliar with us, the Arizona Wildlife Federation (AWF) was created in 1923 as the Arizona Game Protective Association by sportsmen conservationists who carried those same kinds of feelings. In those days many were tied to the land through ranching and agriculture, and efforts to restore wildlife to their historic habitats were dependent upon those critical, early partnerships. Those early conservationists knew that it would be through collaboration with others who shared their concerns that they would create the Arizona Game and Fish Department and Commission, which is basically the same today as it was then. In later years we became the AWF, the state affiliate of the National Wildlife Federation, and the oldest conservation group in Arizona with a broad spectrum of outdoor enthusiasts as members from all walks of life and parts of the state. We remain advocates for wildlife and habitat, working to keep their management science based and free of political or economic influences.

Ryna Rock, President, Arizona Wildlife Federation

Diablo Trust



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Kit Metzger

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Thomas Sisk

Helen Sisk

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Acknowledgements

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credited, are property of the
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Meanwhile, back at the Ranch...

Well another winter has come and gone, spring has sprung and things are turning up green. By now, as I write this in mid-April, we know just how much snow melt ran, and how full the high country tanks and lakes are. So now the guessing game starts on will it be a warm or cold spring, for fast or slow forage growth? Will it be windy and blow water and soil moisture away? Now that it is safe to get out of winter coveralls, we take a notch up on the ball cap, pull up the stampede string and start working a new set of fences. Good place for windfarms this northern Arizona!

Calving on Flying M is going well and by the time you all read this we will be taking the freshly branded calves to the mountain. Not everything has changed over the years, we can text message, email, and phone instantly, but the cattle still walk between 1 and 2 miles and hour, and it just takes awhile. Kind of a nice thing in this fast moving world.

Speaking of fast... as quick as Greenhouses go up they can come down, not once but twice. I don't think they have 70 MPH winds in Iowa as often as we do. If you think a kite can fly, try a 4' x 14' polycarbonate sheet in a 60 mile an hour wind. We did finally get it up and now we are readying to plant. So with luck and a little cursedness we will have local vegetables in the Farmers' Market this summer. The plan is for some cold frames as well and a garden patch that I am sure will grow 30 lb. rabbits if nothing else. We also started selling Flying M Beef at the CSA (Community Supported Agriculture) in Flagstaff, thanks to Ellen Parish. We met Ellen while she was doing a bird survey for the wind farm. She had sold her own beef in California and is really excited selling local beef here. So far customers seem happy with the product and we are learning about retail. Ever tried beef breakfast sausage? Boy does it make a great breakfast burrito!!

By now you all know of the best restaurant in downtown Flag!! Derrick and his crew have a way with cows, don't they!! Now, if a cow doesn't perform on this outfit we will tell her it's a calf a year or you too will soon be a Marilyn or a Cheech! Congratulations, Diablo Burger!

We still have some EQIP (Environmental Quality Improvement Projects) on the calendar for this summer, two pipelines. One will bring more dependable water to the area at Melbourne that has been regrassed -- is that a word? Well whatever it's called the antelope sure like it. We have seen more animals and tracks in that area than ever, so I think we can all call the hard work and meetings a success. We also have a couple of dirt tanks to repair from last summer's washouts. How can the wind blow all the moisture out of the soil and leave one foot of water in a washed out tank? Truly, the mysteries of land management are never-ending.

Now we start looking towards the southeast for those afternoon thundershowers. A little early perhaps but that's what keeps us going, meanwhile back at the ranch...

See you at the next meeting or if you get out this way drop in, the coffee is always on.

*Kit Metzger,
Flying M*

Diablo Trust President's Report

By Mandy Roberts Metzger

There is comfort in simple things. Last Sunday, a treasured jar of spiced jelly from the kitchen of Evelyn B. Chilson (Judy Prosser's mother) was found in a cupboard, stashed inconspicuously behind dried pinto beans and a bag of red lentils. It had been repeatedly hidden by members of the family ensuring that the jelly would not be consumed without proper presentation at a holiday dinner.

Evelyn Chilson traditionally gifted her spiced jelly at Christmas and when Evelyn died the remaining jars increased greatly in significance. The jelly custom is symbolic of how two historic ranching families, the Flying M and Bar T Bar, have partnered and shared for decades. Knowledge of the land and experience with weather, markets, and doing business across multiple jurisdictions has been a basis for a continuum of stewardship across the vast landscape to which the Diablo Trust is dedicated.



Unfortunately, that continuum of information does not always easily extend to the agencies that share the responsibility for management of these intermingled ownership lands. Recently, Diablo Trusters met with the folks at the Blue Ridge Ranger District of the Forest Service to help provide context and history to management actions being carried out across the landscape. Juxtaposing ideas and training that arrive with each new agency recruit along side the site-specific knowledge of ranchers, scientists and others working the land for decades can create significant challenges. There can be holes in the sharing of information; unnecessary repetitions of process; reinvention of the wheel and general missing of opportunities. Perhaps, one of the most critical roles that Diablo Trust plays is providing a continuum of coordinated information gathering and analysis (one of the primary goals of our IMfoS -- Integrated Monitoring for Sustainability -- project). Diablo Trust has discussed creating a formal repository of information from all of our land management partnering agencies in order to easily reflect the extensive, ongoing stewardship activities.

In the meantime, a reflection of a different sort is about to take place. "Reflections of the Land," Diablo Trust's forum for the arts (see page 1) is in full swing preparing for the Opening Night at Northern Arizona University's Museum of Art on Saturday, June 2nd. If you have attended a "Reflections" Opening or Exhibit in the past, you know that artists gather to present their reflections of the Diablo Trust land area through both performing and visual arts. Attendance at these celebrations and exhibits has been record-setting for the Museum in the past. The celebration is fun and inspirational. Please join us on June 2nd to support northern Arizona artists and their work.

The Diablo Trust's recreation planning team continues apace; the RecP3 has met monthly for going on almost a year, and the complex work of attempting to plan recreation management with an equal respect for ecological, ranching, and open-access priorities will soon result in a proposed Recreation Management Plan that we hope can support our long-term sustainability, and serve as a model for other Western communities facing the same challenges.

Diablo Trust has long supported community, local economies and working together. We were very happy to welcome Ryna Rock, President of Arizona Wildlife Federation (AWF) to our annual meeting and look forward to partnering with the Federation on projects of mutual interest. In addition to partnering agencies, we have long worked with the Arizona Antelope Foundation and know that many of our large land projects could not have occurred without all entities' dedication to Anderson Mesa and the landscape in general. Volunteers are the heart and soul of every non-profit. Diablo Trust is no exception. Thank you!

Lastly, kudos to Derrick Widmark and Diablo Burger (see Mary Tolan's article on page 1). If you haven't been 'in the circle on the square' in downtown Flagstaff, you are in for a surprise. And with greenhouse production beginning at the Flying M, produce from the ranch may soon flank the Blake and Blutarsky burgers being grilled on Heritage Square. It is back to basics for many of us in this tough economy. Local beef burgers, art and spiced jelly -- simple comforts filling vital needs.

Summer Volunteer Days

This year we are looking at August 8 & 9 for our volunteer event. We will be focusing on removing electric fence from the Lake Mary allotment. This allotment is located west of Lower Lake Mary and is used as a grass bank. Based on GPS collar data, pronghorn from have been using the long meadows in this area for years.

We will meet at 8:00 am on both days, at the very western edge of Lower Lake Mary (closest to Flagstaff). Please bring enough food and water for the full day of work, long sleeves, eye protection and pliers, we will have some gloves. Folks are free to camp just about anywhere near the project. Thanks for the help.

Henry Provencio

Wildlife Biologist/Flagstaff Center

Coconino National Forest

Phone: (928) 214-2436 Fax: (928) 214-2460



Don Hancock, who participated in a 2007 Summer Volunteer Day, installing antelope-friendly wire along a stretch of fence near Mud Lake

Diablo Burger *[cont'd from page 1]*

Judy Prosser, who with her husband Bob owns the Bar T Bar Ranch, said she's thrilled to have a local restaurant serving their beef. "We're happy to finally find a way to get local beef into the community, which we've been trying to do for a long time," Prosser said. "It's a source of pride." She said one of the outcomes of Diablo Burger is that more locals now know about Diablo Trust beef. "We've always known that we had good eating beef. But it's nice to have that endorsement from other people, too," she said. "All I've ever eaten here is our own beef. You kind of assume that all beef tastes good. But ours is a consistent product. People know what they're getting."



The "Blake" from Diablo Burger: served with home-made Hatch Chile Mayo, Sharp Cheddar and DB Frites

While this rancher is especially happy about the local beef being used at Diablo Burger, she confessed that, for her, the Diablo Burger rosemary-sage Frites (French Fries) are "to die for." In addition to getting the equivalent of about one cow per week from the ranches, Diablo Burger also relies on local farmers for produce - using fruits and vegetables from northern Arizona (when the seasons allow), and from Peoria's McClendon's Select year-round. And even some vegetarians have jumped shipped to try a local burger. "There is a political aspect for some vegetarians. They don't want to support industrialized foods," Widmark said. So those vegetarians are more likely to eat a burger made from local beef. Some of the remarks written in the restaurant's comment notebook back that up.

"I gave up being a vego just for you guys!" one enthusiast wrote.

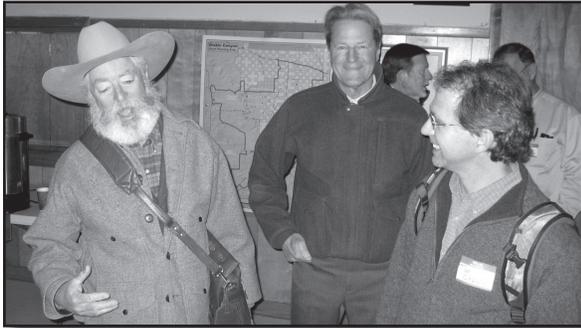
"It was worth the karma," wrote another convert. Other folks simply stated their thanks. "Finally something local to be proud of other than Ted Danson!" Another way of saying, "Cheers!"

The Diablo Burger frites are double-fried in peanut oil (so avoid if you have peanut allergies) and are seasoned with rosemary, salt and other herbs. Burgers range from the \$6.50 plain burger (the Monk) to \$9.25 for the Blutarsky: blackened, bacon, sharp cheddar and guacamole. Milkshakes are made with hormone-free milk and ice cream from Straus Family Creamery, and cost \$4.75. The walls are painted trendy yet striking Aztec yellow, fresh clay and butternut brown, and the tables were made by the local Mayorga's Welding. "Our motto is 'All About Local.' Some folks have criticized us for it, but as much as possible, we put our money where our motto is. Local craftsmen built this place," Widmark said of the renovation.

[For more information on Diablo Burger, please visit www.diabloburger.com]

Mary Tolan is Associate Professor of Journalism at Northern Arizona University

Views from the Ground



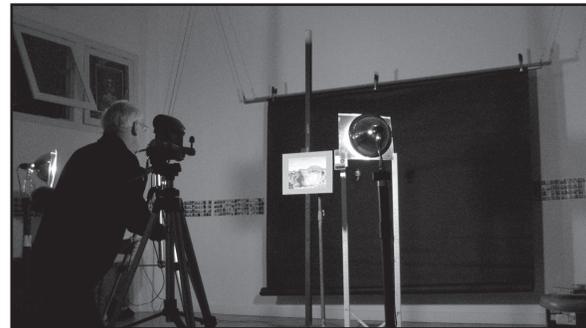
2009 Diablo Trust Annual Meeting Featured Speakers
(from l. to r.) Dennis Moroney, Rick Knight & Tim Crews



Another meeting of the Recreation Planning Project Panel
(RecP3) in the Arizona Game & Fish Conference Room



Dave Shaffer, photographing artwork for the catalog of
the 2009 “Reflections of the Land” exhibit



Thanks to the Flagstaff Photography Center and Dave
for their great help in archiving all of the artwork

Ecosystem Services *[cont'd from page 4]*

Challenge #3 - Valuing non-commodity services. It is easy enough to comprehend how price might be determined for provisioning ecosystem services that result in the production of a commodity. The cost of a pound of beef should “pay” for the land’s ability to produce it (of course this is actually more complicated than it appears, but at least the product has a market context). However, determining the value of regulating, cultural and supporting ecosystem services (Table 1), and how the services should be paid for or otherwise protected, is far more challenging. Critical questions such as what particular services might be worth in future generations, and who should pay for services that have always been free in the past can be complicated and contentious. Nevertheless, it is important to remember that the whole rationale for calling attention to ecosystem services in the first place was because much of the value that ecosystems provide to human society was falling outside the market economy, as it is currently defined. We must get creative in determining how to recognize and internalize what nature provides to our well-being.

These challenges will prove difficult to overcome, but if any organization is up for the task, I think the Diablo Trust might be. Several academic groups and NGOs are developing models to help land managers evaluate potentially relevant ecosystem services. One such model that the Diablo Trust may want to consider is the InVEST model developed by the Natural Capital Project, a partnership between Stanford University, The Nature Conservancy and World Wildlife Fund (Nelson et al. 2009, Daily et al. 2009). InVEST is initiated with stakeholder input on different land use scenarios, and then projects the value of services associated with the scenarios into the future. Tools such as this may prove useful to help Diablo Trust structure a decision making process involving many flavors and varieties of ecosystem services.

*Tim Crews is profiled in
the “Getting to Know...” column on page 2*



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“Learning from the land and sharing our knowledge... So there will always be a West”

Upcoming Diablo Trust Events

Saturday, June 6: Opening Night Reception, 2009 “Reflections of the Land” Exhibit at the NAU Museum of Art 5:30 - 8 pm. The museum is located on the corner of Knoles and McMullen Circle in the historic Old Main building on North Campus. Musical Performances, Readings and Viewing of the Artwork. Tony Norris, Master of Ceremonies. Wine, appetizers and dessert will be served.
For further information, please call the office at (928) 523-0588.

Friday, July 10: Summer Day on the Land at the Reed Lake Grazing Impact Study Plots
Lake Mary Road, west of Mormon Lake 8:30 - 10 am.
This year, the Summer Day on the Land will take place in the plots of a ten-year Grazing Impact Study conducted by Tom Sisk, Tim Crews and Matthew Loeser, the results of which have been published in Conservation Biology Volume 21, No. 1, 87-97 (see http://www.diablotrust.org/news_articles.htm)
For further information, please call the office at (928) 523-0588.

Saturday, August 8 & Sunday, August 9: Summer Volunteer Days (See Page 8 for more information)

Saturday, August 22: 2009 Camp-out Under the Stars location to be determined, but please Save the Date.
To view pictures from last year’s Camp-out, please visit
http://www.diablotrust.org/slideshow_picasa_campout-2008.htm

Please visit our website, <http://www.diablotrust.org/>, for details and further information on these and all future events.

Funding for this newsletter is provided by these organizations and supporters like you.

