

# Applied Watershed Restoration Course

**Craig Sponholtz of Dryland Solutions, Inc.**

**19-22 October 2011**

**Pritzlaff Ranch near Las Vegas, New Mexico**

**\$550 Tuition includes breakfast and lunch daily**

Increase your working knowledge of **water harvesting**, **erosion control** and **stream restoration** practices with this four-day, intensive, hands-on workshop. Applied Watershed Restoration is designed for landowners and land managers, as well as practitioners, farmers, ranchers, restorationists and advanced students of Permaculture. It emphasizes working with, rather than against, nature and will establish the foundational knowledge needed to work effectively with our most precious resource, water. Acquire the critical skills needed to recognize the root-causes of watershed problems and identify the best opportunities to make improvements. Learn how to assess, design, plan and implement projects that utilize runoff as a resource. In addition, gain exposure to cutting-edge watershed restoration methods including **natural channel design**, **induced meandering** and **agro-ecological restoration**. Directly apply these new skills during the **watershed restoration practicum** and graduate with the confidence to evaluate the pros and cons of any water harvesting, erosion control and restoration techniques.



## Course Outline:

### Watershed Patterns and Processes

- I. Reading Water Patterns and Processes
- II. Form and Function of Channel Systems
- III. Erosion and Deposition Dynamics
- IV. Watershed Health and Degradation

### Landscape-Scale Passive Water Harvesting

- I. Passive Water harvesting Features
- II. Traditional Runoff Farming
- III. Agro-Ecological Restoration
- IV. Water harvesting Earthworks
- V. Simple Irrigation Systems

### Degradation Prevention and Restoration

- I. Watershed Restoration Principles
- II. Restoration Project Development
- III. Low Energy Sheet flow Treatments
- IV. In-Channel Grade Control Treatments
- V. In-Channel Headcut Treatments
- VI. Bank Erosion Treatments
- VII. Watershed Restoration Applications

### Watershed Restoration Practicum

- I. Site Assessment and Survey Skills
- II. Restoration Project Design
- III. Project Planning and Logistics
- IV. Site Layout
- V. Hands-on Structure Building

For more information visit: [www.drylandsolutions.com](http://www.drylandsolutions.com)

Or email us at: [info@drylandsolutions.com](mailto:info@drylandsolutions.com)

# Applied Watershed Restoration Workshop Information

## PAYMENT INFORMATION

Tuition= \$550.00

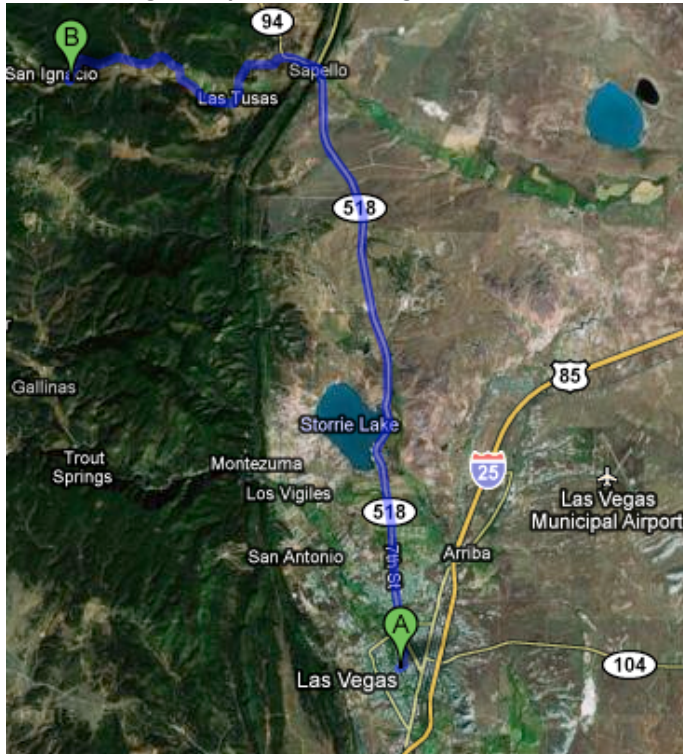
\$175 deposit due at registration, \$375 final payment due by 10/12/2011

Payments: register and make paypal payments @ [www.drylandsolutions.com](http://www.drylandsolutions.com)

## GETTING to Pritzlaff Ranch from Las Vegas, NM

Distance: 20 miles Time: 35 minutes

Search Google Maps for Lat/ Long: 35.769288,-105.345454



1. Head **north** on **NM hwy 518** out of Las Vegas, go 12 miles
2. Turn **left** onto **NM- 94**, go 0.7 mile
3. Turn **left** onto **NM- 266**, go 5.9 miles
4. Turn **left** onto **Co Rd 3**, go 0.1 mile
5. Go approximately 100 yds and turn right onto the Pritzlaff driveway, follow the signs

The workshop will begin promptly at 9:00 am, Wednesday, October 19<sup>th</sup>, and each subsequent morning. Please be on time. Breakfast will be ready at 8:00 am. If you're planning on staying nights at the ranch, you're welcome to arrive Tuesday evening. We'll end by 5:30 Wednesday, Thursday and Friday, and by 2:00 pm on Saturday. A packing list will be included in your registration packet, to help you plan for the workshop.

## **LODGING**

**Camping:** Camping on the Biophilia Foundation's Pritzlaff Ranch is free for workshop participants; no reservations are required. Bring your own camping gear. Drinking water will be available on-site. Please note that kitchen or cooking facilities will not be available for campers. If you wish to prepare your own dinners at the ranch, please plan accordingly by packing your own camp stove and fuel, pots and pans, utensils, and whatever food and beverages you wish to bring.

**Indoor Lodging On-Site:** Very limited lodging is available at Pritzlaff Ranch. Dorm-style lodging is \$25/night, and individual rooms (adequate for couples or individuals) are \$40/night. Use of the ranch kitchen for dinner prep is included with paid lodging; please provide your own food and beverages. Please make lodging arrangements with Pritzlaff Ranch staff directly by contacting Kina Murphy via email: [kina@sevilleta.unm.edu](mailto:kina@sevilleta.unm.edu). Room is very limited; plan on making your reservations as early as possible.

**Lodging in Las Vegas, NM:** Hotels and Bed & Breakfasts are available in nearby Las Vegas, NM, located approximately 30 minutes from Pritzlaff Ranch. For information on lodging options in Las Vegas, please refer to the following website: <http://www.lasvegasnewmexico.com/>.

## **FOOD**

Registration to the Applied Watershed Restoration workshop includes breakfast and lunch, Wednesday through Saturday. Bring your own travel mug for coffee or tea, and your own reusable water bottle for daily use, so we don't produce unnecessary waste. Please bring your own snacks as needed between meals.

Participants will make their own sack lunches each day after breakfast, with provided ingredients. Please indicate dietary needs on the registration form below (vegetarian, gluten-free, lactose-intolerant, etc...).

Plan on making your own arrangements for dinner: bring your own food, camping stove, fuel, pots and pans, or plan on driving a half-hour down to Las Vegas, NM for dinner each night. For a list of places to eat in Las Vegas, go to: <http://www.lasvegasnewmexico.com/>.

## **AMMENITIES**

This workshop includes both lecture and fieldwork components. Lectures will be in an indoor classroom, with restrooms available during the day. Potable water will be available to refill containers and water bottles. Showers will be available to all participants.

## **WEATHER PREPAREDNESS**

October temperatures in Las Vegas, NM average around 55-75°F in the daytime, and near freezing at night. Come prepared to work outside in a wide range of temperatures and conditions; this workshop includes a significant fieldwork component. Bring closed toe shoes for field work as well as additional layers, warm hat and gloves, an extra change of clothing in the event of rain or snow, rain gear, etc... You will receive a Registration Packet with a full list of recommended clothing and other items, upon registering.

**For more information visit:** [www.drylandsolutions.com](http://www.drylandsolutions.com)

**Or email us at:** [info@drylandsolutions.com](mailto:info@drylandsolutions.com)