



Salmonid Restoration Federation

Central Coast Field School

*Culvert and Road Drainage Practices to Protect
and Benefit Salmon and Steelhead*

In the Central Coast Region

**Ranchers and Farmers: Full course is equal to 20 hours of
continuing education toward RWQCB Agricultural Waiver**

October 23-25, 2007

El Capital Canyon, California

Course Instructors:

Bill Weaver and Danny Hagans

Pacific Watershed Associates

The course will include several sessions in the field. At a minimum the following topics and examples will be covered in the course:

- 1) *Proper ditch relief and stream crossing culvert installation, with and without downspouts, flared inlets, trash racks, etc.*
- 2) *Proper installation of critical rolling dips or measures to eliminate stream diversions,*
- 3) *Classroom and field methods to determine appropriate culvert sizing for peak stream flows, sediment and woody debris in transport,*
- 4) *Proper approaches for addressing potential road fill and landing failures, as well as spoil disposal techniques,*
- 5) *Illustrate a variety of road bed and ditch drainage approaches. These include when, where and how to convert insloped and ditched roads to outsloped roads with or without a ditch, when, where and how to construct rolling dips with and without rock, and when, where and how to dispose of berms along roads,*
- 6) *How to properly excavate a stream crossing fill to minimize post excavation erosion and sediment delivery to streams, and*
- 7) *How to reduce roadbed width on excessively wide segments of road.*

Course fee: \$100 (fees are non-refundable)

Includes lodging for October 23rd and 24th, and class materials.

Class will begin Tuesday morning and end Thursday afternoon. Space is limited to 30 participants.

To register for the field school, complete the following information:

Name: _____

Position: _____

Organization: _____

Email: _____

Address: _____

City, Zip: _____

Phone: _____

Fax: _____

Submit with payment to: CCSE: 592 S. 13th Street, Grover Beach CA 93433 or fax to 805-473-8167 (Checks payable to CCSE)

For more information contact Nicole at Central Coast Salmon Enhancement at 805-473-8221

Sponsored by: California Department of Fish and Game Coastal Salmon Recovery Program