



Salmonid Restoration Federation

# Central Coast Field School

Culvert and Road Drainage Practices to Protect and Benefit Steelhead and Water Quality In the Central Coast Region

**October 25-27, 2005**

Arroyo Grande, 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.*

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

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

Includes lodging for October 25 & 26, and class materials.

Class will begin Tuesday at 8am and end Thursday at 6pm. Space is limited to 30 participants.

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

Name: \_\_\_\_\_ Position: \_\_\_\_\_

Organization: \_\_\_\_\_ Email: \_\_\_\_\_

Address: \_\_\_\_\_ City, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Submit with payment to: CCSE: PO Box 277, Avila Beach CA 93424 (Checks payable to SRF)

**For more information contact Central Coast Salmon Enhancement at 805-473-8221** (Scholarships are available)  
**Sponsored by: California Department of Fish and Game Coastal Salmon Recovery Program**