


Large Wood Management Plan
Channel Rehabilitation Design Team



6/18/2014 Trinity Management Council Meeting

Large Wood Management Plan
Status

- Design Team Subgroup developed draft LWMP outline
- Design Team reviewed outline
- Design Team recommended developing the LWMP after TMC approval


Large Wood Management Plan

- Purpose and Need
- Design Team's Draft LWMP Outline
- Proposed LWMP Development Approach

LWMP Purpose and Need

- **Existing Conditions**
 - Dams block large wood transport and flow releases limit transport
 - Logging depleted source wood and limits future recruitment
 - Mining removed valley bottom tree stands and stored wood
 - Limited re-growth in river valley and encroachment
- **Need**
 - Large wood is essential to create and maintain complex channel morphology and aquatic habitat
 - Flow Study and ROD overlooked Large Wood Management
- **Purpose**
 - Provide a largely self-sustaining wood supply + Augmentation
 - Reestablish the dynamics between hillslope and riparian forests, wood recruitment, and wood jams
 - Define large wood storage that will foster natural fluvial processes, improve aquatic habitat features

Historic Context



Trinity River near the historic Swift Creek Confluence. Modified from Cardno ENTRIX and CH2MHill (2011). Large wood interpretations were completed by Tim Abbe (yellow and red print).

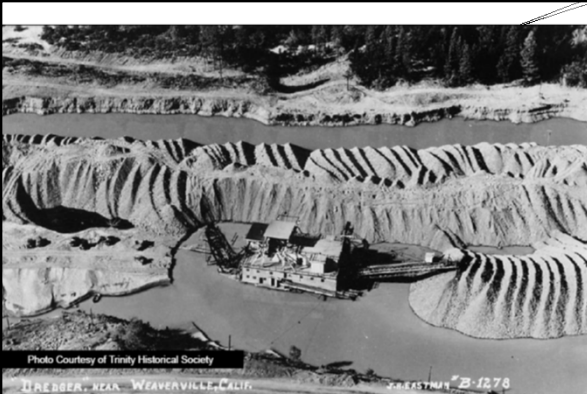



Photo Courtesy of Trinity Historical Society
HREBBER NEAR WEAVERVILLE CALIF. 1912
1278

Trinity River Valley Bottom Alterations

Current and Desired Conditions



The LWMP helps outline the desired conditions
Build on the immense body of work on large wood and its management

Current Conditions Desired Conditions

Major LWMP Components

- Context and Vision - Large wood budget ($I-O=\Delta S$)
- Short-term augmentation to increase storage/habitat
- Long-term augmentation to maintain storage/habitat
 - Injections and/or placements
 - Riparian and upland plantings
 - Encourage channel migration/erosion
 - Tributary and hillslope wood management
- Expected benefits/outcomes
- Risk management
- Adaptive management and monitoring

LWMP Development Approach

- Design Team sub-group will develop approach
- Envision hybrid approach
- Design Team sub-group will:
 - Outline scope of work for each element
 - Determine the best people or groups to complete work
 - TRRP staff and partners, agency experts, consultants, etc.

- Short and long term augmentation
- Objectives to achieve strategy
 - Placement locations (geomorphic and habitat context)
 - River wide
 - Reach scale
 - Site scale
 - Species
 - Size class distribution
 - Placement methods
 - Performance criteria (w/respect to objectives)
 - Interaction with other implementation
