

# Coho HELP Projects

Eighteen projects were completed from 2013 to 2018 (Figure 1). Eight projects are located within the Southern Oregon/Northern California Coho Evolutionarily Significant Unit (SONCC ESU), and ten projects are located within the northern extent of the Central California Coast ESU (CCC ESU).

*2013*

## **Scott River Bank Stabilization and Riparian Restoration Project**

**Who:** Siskiyou RCD, Cascade Stream Solutions

**Where:** Scott River, tributary to Klamath River, Siskiyou County, SONCC ESU

**What:** Bank Stabilization and Riparian Planting

**How:** Bank contoured, rock and large wood to stabilize bank, and trees planted

**Funded by:** State Resources Control Board Non-Point Source Pollution.

**Implemented:** 2013

## **South Fork Garcia River Instream Wood Enhancement Project**

**Who:** Mendocino Redwood Company and Trout Unlimited

**Where:** South Fork Garcia River, tributary to Garcia River, Mendocino County, CCC ESU

**What:** Large Wood Placement

**How:** Accelerated Recruitment Method—the direct felling of trees into the stream using a chainsaw (unanchored)

**Funded by:** CalFire CFIP, TNC, NOAA Restoration Center

**Implemented:** 2014

## **Parks Creek Diversion #5 Coho Passage Project**

**Who:** Emmerson Investment, Inc. and USFWS

**Where:** Emmerson Ranch, Parks Creek, tributary to Shasta River, Siskiyou County, SONCC ESU

**What:** Culvert Removal

**How:** Culvert Removed, head-gate repositioned, roughened channel with gradient, willow plantings

**Funded by:** USFWS Partners Program

**Implemented:** 2014

*2014*

## **Off-Estuary Habitat Enhancement of Waukell Creek, Lower Klamath River – Phase II**

**Who:** Yurok Tribe, State Lands Commission and Green Diamond Resource Company

**Where:** Waukell Creek, tributary to Klamath River, Del Norte County, SONCC ESU

**What:** Large Wood

**How:** Large wood clusters, trees pounded in vertically with logs and debris lodged in between.

**Funded by:** USFWS Partners, US EPA, US BOR Native American Affairs

**Implemented:** 2015

## **Marble Gulch Instream Coho Habitat Enhancement Project**

**Who:** Trout Unlimited, Mendocino Redwood Company

**Where:** Marble Gulch, tributary to North Fork Noyo River, Mendocino County, CCC ESU

**What:** Wood Placement

**How:** Accelerated Recruitment with traditional anchoring techniques along the higher gradient.

**Funded by:** CDFW FRGP, TNC, NOAA Restoration Center

**Implemented:** 2015

**Stream Habitat Enhancement and Augmentation Project – South Fork Ten Mile River**

**Who:** Trout Unlimited, Hawthorne Timber Company (managed by Campbell Global)

**Where:** South Fork Ten Mile River, tributary to Ten Mile River, Mendocino County, CCC ESU

**What:** Large Wood Placement

**How:** Large streamside conifers (with root masses intact) were uprooted and toppled into the stream, to help stabilize existing large woody debris.

**Funded by:** TNC

**Implemented:** 2015

**North Fork Gualala River Wood in the Stream Project**

**Who:** The Conservation Fund, Casper, CA

**Where:** North Fork Gualala River, tributary to Gualala River, Mendocino County, CCC ESU

**What:** Large Wood Placement

**How:** Accelerated Recruitment and imported trees (anchored and unanchored)

**Funded by:** Mendocino RCD with California Forest Improvement Program

**Implemented:** 2014

**Tryon Creek Stream Crossing Upgrade at Moseley Ranch**

**Who:** Alexandre Dairy, National Resources Conservation Service (NRCS)

**Where:** Tryon Creek, tributary to Smith River, Del Norte County, SONCC ESU

**What:** Farm road crossing upgrade

**How:** Culvert removed and replaced with bridge

**Funded by:** NRCS

**Implemented:** 2015

*2015*

**HELP Workshop 3-17-15, Casper, CA**

**Who:** The Nature Conservancy, CDFW and Partners

**Where:** Casper, CA

**What:** Instructional workshop

**How:** Presentations and Discussions

**Bear Creek Instream Enhancement Project**

**Who:** Humboldt Redwood Company

**Where:** Bear Creek, tributary to Eel River, Humboldt County, SONCC ESU

**What:** Large Wood Placement

**How:** Grip-hoisting near-stream logs into structures and accelerated recruitment

**Funded by:** Humboldt Redwood Company

**Implemented:** 2015

**North Fork Elk River Instream Enhancement Project**

**Who:** Humboldt Redwood Company

**Where:** North Fork Elk River, tributary to Elk River, Humboldt County, SONCC ESU

**What:** Large Wood Placement

**How:** Available near-stream logs were strategically arranged into clusters.

**Funded by:** Humboldt Redwood Company

**Implemented:** 2015

**Beith Creek Instream Wood Phases I and II**

**Who:** City of Arcata Environmental Service Department

**Where:** Beith Creek, tributary to Humboldt Bay via Gannon Slough, Humboldt County, SONCC ESU

**What:** Large Wood Placement

**How:** Anchored logs and root wads in clusters

**Funded by:** USFWS Coastal Program

**Implemented:** 2015 and 2016

**South Fork Usal River Instream Coho Enhancement Project, Phase II**

**Who:** Trout Unlimited, Usual Redwood Forest Company, LLC (managed by Campbell Global)

**Where:** S.F. Usal River and Julia's Creek, tributaries to Usal River, Mendocino County, CCC ESU

**What:** Large Wood Placement

**How:** Accelerated Recruitment (unanchored)

**Funded by:** TNC

**Implemented:** 2016

*2016*

**Lower Mill Creek Bank Stabilization Project**

**Who:** Siskiyou Resource Conservation District (Siskiyou RCD)

**Where:** Mill Creek, tributary to Shackelford Creek, tributary to the Scott River, Siskiyou County, SONCC ESU  
**What:** Large Wood Placement and Bank Stabilization

**How:** In-stream coarse wood and root wad elements installed at key locations to induce lateral scour and deflect thalweg away from the bank

**Funded by:** USFWS Partners Program

**Implemented:** 2016

*2017*

**Churchman Creek Large Wood Augmentation Project**

**Who:** Trout Unlimited, Lyme Redwood Forest, Company, LLC.

**Where:** Churchman Creek, tributary to South Fork Ten Mile River, Mendocino County, CCC ESU

**What:** Large Wood Placement

**How:** Accelerated Recruitment (unanchored)

**Funded by:** State Water Resources Control Board (SWRCB)

**Implemented:** 2017

**Redwood Creek Large Wood Augmentation Project**

**Who:** Trout Unlimited, Lyme Redwood Forest, Company, LLC.

**Where:** Churchman Creek, tributary to South Fork Ten Mile River, Mendocino County, CCC ESU

**What:** Large Wood Placement  
**How:** Accelerated Recruitment (unanchored)  
**Funded by:** State Water Resources Control Board (SWRCB)  
**Implemented:** 2017

**Mill Creek Large Wood Augmentation Project**

**Who:** Trout Unlimited, Lyme Redwood Forest, Company, LLC.  
**Where:** Churchman Creek, tributary to Ten Mile River, Mendocino County, CCC ESU  
**What:** Large Wood Placement  
**How:** Accelerated Recruitment (anchored and unanchored)  
**Funded by:** SWRCB  
**Implemented:** 2017

**North Branch North Fork Navarro River Large Wood Augmentation Project**

**Who:** Trout Unlimited, Mendocino Redwood Company  
**Where:** North Branch North Fork Navarro River, tributary to North Fork Navarro River, Mendocino County, CCC ESU  
**What:** Large Wood Placement  
**How:** Accelerated Recruitment (unanchored)  
**Funded by:** SWRCB and NOAA Restoration Center  
**Implemented:** 2017

**Lower Little North Fork Noyo River Large Wood Augmentation Project**

**Who:** Trout Unlimited, Lyme Redwood Forest, Company, LLC.  
**Where:** Lower Little North Fork Noyo River, Tributary to Noyo River, Mendocino County, CCC ESU  
**What:** Large Wood Placement  
**How:** Accelerated Recruitment (unanchored)  
**Funded by:** SWRCB and NOAA Restoration Center  
**Implemented:** 2018

Table 1: List of project streams, tributary to, project type, ESU, applicant, date request received, date approved, and year completed. Bank = Bank Stabilization, Wood = Wood Placement, Culvert = Culvert Removal, Withdrawn = WD.

Stream	Trib. to	Type	ESU	Applicant	Completed
Scott R.	Klamath R.	Bank	SONCC	Siskiyou RCD	2013
SF Garcia R.	Garcia R.	Wood	CCC	TU	2014
French Ck.	Scott R.	W/D	NA	Siskiyou RCD	W/D
Parks Ck.	Shasta R.	Culvert	SONCC	Emmerson Investments	2014
Lower Waukell Ck.	Klamath R.	Wood	SONCC	Yurok Tribe	2015

<b>Stream</b>	<b>Trib. to</b>	<b>Type</b>	<b>ESU</b>	<b>Applicant</b>	<b>Completed</b>
Marble Gulch	NF Noyo R.	Wood	CCC	TU	2016
SF Ten Mile R.	Ten Mile R.	Wood	CCC	TU	2016
NF Gualala R.	Gualala R.	Wood	CCC	Conservation Fund	2014
Tryon Ck.	Smith R.	Culvert	CCC	Alexandre Dairy	2015
Bear Ck.	Eel R.	Wood	SONCC	Humboldt Redwood	2015
NF Elk R.	Elk R.	Wood	SONCC	Humboldt Redwood	2015
Beith Creek	Humboldt Bay	Wood	SONCC	City of Arcata	2015/2016
SF Usal R.	Usal R.	Wood	CCC	TU	2016
Lower Mill Ck.	Scott R.	Bank	SONCC	Siskiyou RCD	2016
Churchman Ck.	SF Ten Mile R.	Wood	CCC	TU	2017
Redwood Ck.	SF Ten Mile R.	Wood	CCC	TU	2017
Mill Ck.	Ten Mile R.	Wood	CCC	TU	2017
N.Br.NF Navarro R.	NF Navarro R.	Wood	CCC	TU	2017
Little NF Noyo R.	Noyo R.	Wood	CCC	TU	2018



Figure 1: CDFW map showing Coho HELP projects by type—Culvert Removal, Large Wood Placement, and Streambank Stabilization, locations and Evolutionarily Significant Unit (ESU).