

# Jackson Demonstration State Forest

Forest Management Plan Update
Restoration Economy

Public Meetings
Fort Bragg and Ukiah



# Land Acknowledgement

We would like to recognize that JDSF is the unceded traditional territory of the local Indigenous people past and present. Honoring of the land itself by stewardship has and continues to occur throughout the generations. This land acknowledgement compels us all to continue to learn how to be better stewards of the land.

## **Community Agreements**

- Everyone has something to share. Be brief and give others the opportunity to speak.
- Be respectful. Practice listening. Respect our differences. Speak from your own experience.

# Stakeholder Interviews & Focus Groups

Talk to Miles or Jen if you want to schedule one.

Management Plan Review **Projected Timeline** We Are Here October 2024 to September 2024 December 2024 January 2025 **Consultant Contracted Public and Tribal JAG MP Meeting Engagement Meetings** April 2025 to October April 2025 to October February 2025 to 2025 2025 April 2025 **Tribal & Scientific** Draft Plan Public Review **Advisory Committee Draft Plan Development** Meetings Review March 2026 October 2025 to **Deliver Final Plan to** February 2026 **Management Committee Final Plan Development** for consideration

Comment Anytime

JDSF@fire.ca.gov

# Registration Packet Materials

<u>Jacksonstateforestplan.com</u>

Scroll down to "Jackson State Forest Management Plan" and click

- The Agenda
- JDSF Budget Information
- Newsletter articles

## Meeting Materials

Jacksonstateforestplan.com

Scroll down to "Jackson State Forest Management Plan" and click After each public meeting topic, materials and other documents will be posted.

# Objectives

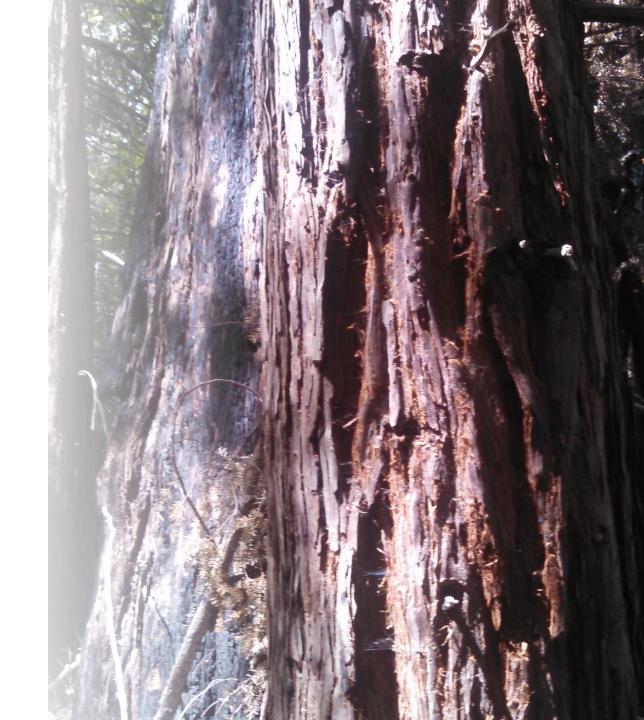
- Understand how meeting the management plan goals at JDSF require a qualified workforce and reliable funding
- Understand how funding provides Economic and Ecological Benefits at JDSF
- Provide input the management goals at JDSF over the next 10 years

#### **Meeting Topics**

Restoration Economy

Restoration Ecology

Estelle Clifton
Forester & Botanist
Clifton Environmental LLC



# Special Topic Meetings - held and upcoming

#### **Topic: Introductory Meeting**

- Monday, Oct. 21, 5-7 PM: Fort Bragg Town Hall
- Tuesday, Oct. 22, 5-7 PM: Ukiah Saturday Afternoon Clubhouse

#### **Topic: Tribal Co-Management**

- Tuesday, Oct. 29, 5-7 PM: Fort Bragg Town Hall
- Wednesday, Oct. 30, 6-8 PM: Ukiah Senior Center

#### **Topic: Restoration Ecology**

- Monday, Nov. 18, 6-8 PM: Ukiah Saturday Afternoon Clubhouse
- Thursday, Nov. 21, 5-7 PM: Fort Bragg Town Hall CANCELLED

#### **Topic: Restoration Economy**

- Thursday, Dec. 12: 6-8 PM: Ukiah Senior Center
- Friday, Dec. 13, 5-7 PM: Fort Bragg Veterans Hall

#### **Topic: Restoration Ecology**

Monday, Dec. 16, 5-7 PM: Fort Bragg - Town Hall MAKEUP



#### Restoration Economy and Workforce Development

- How Management, Restoration and Research are Funded at JDSF
- Understanding Economic Benefits of Management at JDSF
- Directing Reinvestments Back into the Forest
- Break
- Clarifying Questions
- Public Input on Restoration Economy at JDSF
- Prioritization of Funded Activities
- Closing and Next Steps

# Agenda

# Bike Rack

Items not on Today's Agenda

 Items on agenda that you want to comment on, but didn't have time

# Notecards

- If you have questions or comments during the presentation, please write these down for reference during the public input session
- Or you may write comments and leave with us at the end

#### Workforce Development and Healthy Forests

Estelle Clifton
Forester & Botanist
Clifton Environmental I.I.C.

- State Workforce Development Grants for Wood Products Industry
- Qualified Professionals to Perform Services
- Role of Demonstration State Forest Program

#### Workforce Development and Healthy Forests



- CAL FIRE's Climate and Energy Program- Funds forest health grants, post fire reforestation and regeneration grants, tribal wildfire resilience grants and Wood Products and Bioenergy team supports business development and workforce development projects
- Grants funded by California Climate Investments



- 2023-\$31 million in grant funds were awarded
- Vision- The creation of a robust and diversified wood products industry to facilitate the economic and sustainable management of California's forests



#### **Qualified Professionals & Areas of Expertise**

**Project Management** Silviculture Forest Engineering **Economics** Geology Wildlife Ecology Plant Biology Threatened and **Endangered Species Cultural Resources Tribal and Public** Engagement GIS CEQA **Communications** Aquatics Climate Change Biometrician

Millwright
Supervisor
Hooktender
Mechanic
Timber Falling
Truck Driver
Equipment Operator



Role of Demonstration State Forest Program

- The CAL FIRE Demonstration State Forests represent about 2% of the state's land holdings.
- Acquired to model sustainable management.
- Fill a unique role in demonstrating and understanding principles of sustainable forestry for social, ecological, and economic values.

# How Management, Restoration, and Research are Funded at JDSF

Kevin Conway
Demonstration State Forests
Program Manager

- Budget Overview
- Expenses
- Revenues
- Community Benefits

# Program Budget Overview

- Forest Resources Improvement Fund (FRIF)
  - Special Fund for State Forest Revenues
  - No General Fund Allocation
- Program required to generate revenue to support both personnel and management activities.
- CAL FIRE cannot use these funds for other purposes.

#### State Forest Allocation FY 2024

Location	Personnel	Operations	Program Total
Jackson	\$ 3,439,318.00	\$ 1,533,000.00	\$ 4,972,318.00
Boggs Mountain	\$ 602,207.00	\$ 90,000.00	\$ 692,207.00
Soquel	\$ 523,815.00	\$ 65,000.00	\$ 588,815.00
Latour	\$ 602,616.00	\$ 80,000.00	\$ 682,616.00
North Fork Mokelumne		\$ 30,000.00	\$ 30,000.00
Mountain Home	\$ 578,505.00	\$ 90,000.00	\$ 668,505.00
Program	\$ 883,638.00	\$ 1,258,901.00	\$ 2,142,539.00
Emmigrant Gap	\$ -	\$ 30,000.00	\$ 30,000.00
	\$ 6,630,099.00	\$ 3,176,901.00	\$ 9,807,000.00

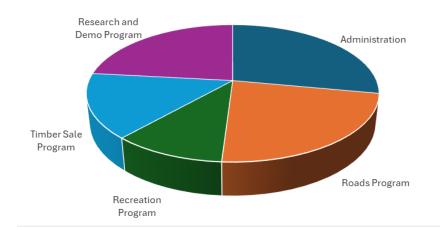
**Grand Total** 

\$ 9,807,000.00

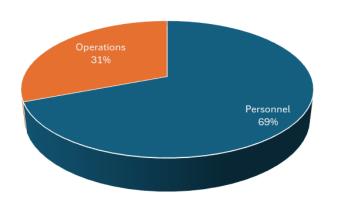
~\$1.5 million

#### ~5 million





#### JDSF FY 2024 Expenses



# JDSF Budget Overview

- 22 Permanent Personnel, 5 vacancies
  - +7 long-term vacancies (since 2008 due to budget)
  - ~8 annual seasonal Forestry Aides
- ~ \$5 million current annual budget
  - Average budget over last decade was ~\$3.7 million
  - JAG 2011 "A Vision for the Future Report" recommended an annual budget of \$6 million (~\$8.6 million today)
- Operational expenses, ~ \$1.5 million/year, may be shifted amongst core programs.
- Additional work done through revenue generating timber sale contracts.

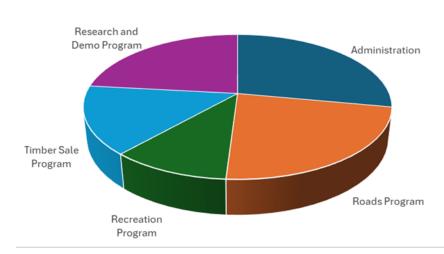
## JDSF Expenses

#### Administration (~25%)

- Forest Protection & Patrol; Illegal dump clean-up
- Roads Program (~25%)
  - Road & Bridge Maintenance
  - Roadside Invasive Weed Control
- Recreation Program (~10%)
  - Day Use and Campsite Facility Maintenance
  - Trail Development and Maintenance
  - Special Use and Mushroom Permits
- Sustainable Forestry Program (~15%)
  - Research & Demonstration Project Support
  - Fish and Wildlife Habitat Improvement
  - Road Maintenance, and Decommissioning
  - Wildlife and Road Monitoring
  - Shaded Fuel Breaks and Prescribed Fire
- Research & Demonstration Program (~25%)
  - Research & Demonstration Projects
  - Caspar Creek Support
  - Forest-wide Monitoring
  - Public Education and Outreach
  - Tribal Co-Management

#### ~\$1.5 million

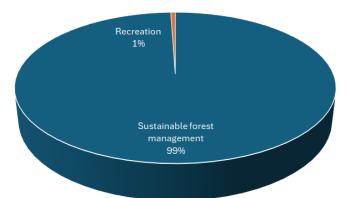
#### JDSF Operational Expenses



# JDSF Revenues

- ~\$5.5 million average annual revenue since 2011:
  - ~\$30,000/year from recreation fees
  - High of \$16 million (2018)
  - Low of \$900,000 (2022)

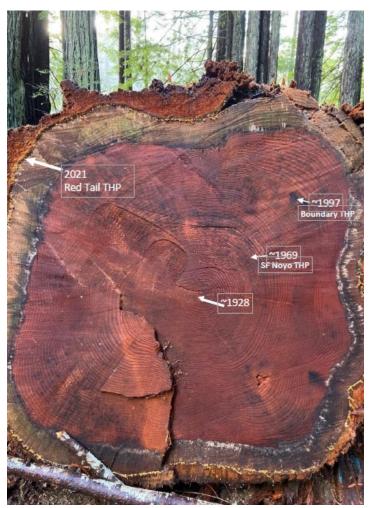
JDSF Average Annual Revenue





### JDSF Revenues

- Average Annual Harvest of 13 million board feet (MMBF) since 2011.
  - High of 22 MMBF (2012)
  - Low of 3.5 MMBF (2023)
- JAG envisioned a sustainable harvest level between 20-25 MMBF, not to exceed 35 MMBF annually to sustainably implement Management Plan.
- JDSF Option A supports sustainable forest management at these levels while providing for:
  - Recreation
  - Soil protection
  - Water quality and quantity
  - Wildlife and fisheries values
  - Carbon sequestration
  - Aesthetic enjoyment
- Regularly offering a steady volume of sales is best strategy for supporting local workforce and infrastructure.
- Multiplier effect per every 10 MMBF from 2008 analysis
  - 160 jobs
  - \$4.3 million in local wages
  - \$184,000 in local taxes generated



# Non-FRIF Funds

- One-time funds
  - FY 21 \$9 million for personnel, research, and recreation
  - FY 22 \$5 million for personnel and wildfire and forest resilience
  - FY 23 \$5 million for personnel and wildfire and forest resilience
- · Outside grants
  - · Forest Health Research Grants
  - Others
- Carbon not viable source of income due to voluntary management constraints
  - CA Forest Carbon Plan
  - Natural and Working Lands Strategy
  - Management Plan commits to increasing carbon stocks through higher biomass retention, longer rotation intervals, and increasing reserves.



# Other Expenses: Contracts and Taxes

- Over \$12 million in contracts for:
  - Research
  - Botanical and Wildlife Surveys
  - Road and Bridge Maintenance
  - Forest Labor
  - Sanitary services
- Taxes
  - In Lieu Property Taxes of ~\$125,000 annually
  - Yield Taxes based on harvest volumes of ~\$175,000 annually

Contract	Amount	Purpose	
CA Geologic Survey	\$ 500,000	O Professional geological support on Demonstration State Forests.	
UC Cooperative Extension	\$ 445,000	Public Outreach and Education to support community engagement at JDSF.	
Mendocino Resource	φ οποιοσο	Provide professional services such as environmental permitting, resource surveys,	
Conservation District	\$ 250,000	botanical studies, and wildlife surveys.	
Cal Poly San Luis Obispo	\$ 125,000	Cal Poly User Experience Program to perform a recreational user survey.	
Fort Bragg Septic	\$ 450,000	Pumping and sanitary services for bathroom facilities at campsites and day use areas.	
Forest Labor Crews	\$ 380,000	Forest Labor including reforestation, invasive weed removal, fuel reduction, and trail maintenance, and research support.	
Wildlife Surveys	\$ 250,000	California Northern Spotted Owl and Marbled Murrelet Monitoring	
Cultural Services Contracts	\$ 500,000	Support from local Tribes to manage JDSF, steward natural resources, and monitor protect cultural resources.	
Carbon Flux Towers	\$ 2,850,000	UC Davis and Lawrence Berkeley Labs to install and operate two carbon flux towers on JDSF to directly measure gas exchange between redwoods and the environment.	
USFS Pacific Southwest Research Station	\$ 3,800,000	Maintain monitoring equipment and infrastructure; collect, analyze data and maintain long-term datasets for Caspar Creek Experiment.	
Fire Fuels Mitigation	\$ 200,000	Masticate three sites to support research project.	
Fire Fuels Mitigation	\$ 175,000	Masticate 56 acres to support research project.	
Fire Fuels Mitigation	\$ 290,000	Treat fuels across 146 acres by chainsaw to lop and scatter material to less than 18 inches above the ground.	
Acoustic Monitoring	\$ 45,000	Purchase acoustic monitoring devices to monitor wildlife pre- and post-treatment for the Fire Fuels Mitigation Research.	
Adaptive Management Experiment	\$ 1,185,000	Test the concepts of Resistance, Resilience, and Transition for redwood forest persistence in the face of climate change.	
Cal Poly Humboldt	\$ 300,000	Climb, core, and analyze growth of selected redwoods at Jackson, Soquel, and Las Posadas State Forests to compare their performance across the range.	
Redwood Tree Improvement Coop	\$ 27,750	Support cooperative redwood tree improvement program with landowners across the range to improve operational reforestation of coast redwood forests.	
Mendocino Woodlands Road Improvement	\$ 745,500	Upgrade Road 720 to allow school bus access to allow CAL FIRE to decommission Road 700 for fish habitat improvement. Funded in part by California Climate Investments.	
Red Tail Road Upgrades	\$ 245,000	Upgrade road system in Red Tail THP unable to be completed by timber sale contractor due to public trespassing.	
Shaded Fuel Break	\$ 100,000	Perform roadside brushing and mowing to create or maintain shaded fuel breaks.	
Total Investments:	\$ 12,863,250		





# Community Benefits

- Advertised on Fort Bragg and Mendocino County tourism sites
- ~ 17 miles of Highway 20 frontage redwood forest
  - Contribute to Redwood Curtain experience of visitors
  - Over \$400,000 to maintain rest area at Camp 20 for coastal visitors
- Over 48 miles of multi-use trails and connected by wellmaintained road network.
- Unique coastal public land opportunities such as singletrack mountain bikes, mushroom foraging, and firewood cutting.
- Support numerous tours and special events that drive visitors to community.



#### **Direct & Indirect Economic Benefits**



#### **BENEFITS**

- Forest Management
  - Timber Sales Market Dependent
    - Source of funding for THP mitigation measures & timber sale contract inclusions (road upgrades, reforestation, etc).
- Research
  - Private Landowner Forestry Practices
- Recreation
  - Camping Fees
  - Mushroom & Firewood Permits
  - Special Use Events



### **Grants**

#### CAL FIRE FOREST HEALTH PROGRAM



- Funds active restoration & reforestation activities aimed to provide more resilient and sustained forests...
- Part of California Climate Investments, a statewide program of Cap-and-Trade dollars in effort to reduce GHG emissions, strengthening economy, and improving public health & environment.



#### FISHERIES RESTORATION GRANT PROGRAM

 Goal to recover & conserve salmon and steelhead trout populations through restoration activities that reestablish natural ecosystem functions...



## Research



- Traveling Researchers from Universities
  - Highlighting JDSF at conferences & publications.
- Field Tours with Public, Landowners, Regulators & Resource Professionals
- Involvement of management activities that engage local workforce
- Caspar Paired Watershed Study
  - Permanent USFS Employees





### Recreation

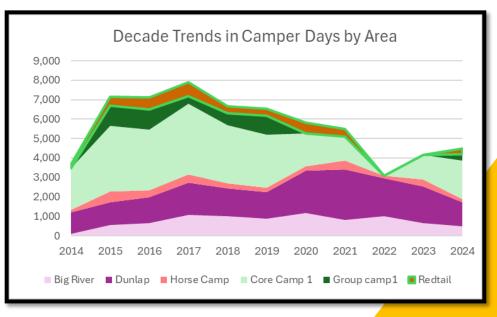
- Camping Fees
  - 3 Campgrounds 40 Tent Camping Sites
     & 1 Horse Camp. \$20 per day
- Mushroom & Firewood Permits
  - \$20 Commercial & Personnel Use Mushroom Permit
  - \$10 per chord. Usually limited to 2 chords.
- Special Use Event Permits
  - Activity or Event 1) will be advertised, 2) requests/requires fee
     3) attended by 20+ people
  - Biking, Hiking, Mushroom Foray, Running, Equestrian related events.
  - Costs depend on number of participants and days of event.



### **Economic Benefits**

#### **Looking at the Numbers - Campgrounds**

Year		npground fees \$	campground user days		
2014	\$	19,843	3,820	Т	
2015	\$	33,126	7,198	T	
2016	\$	37,386	7,188	Т	
2017	\$	39,982	8,025		
2018	\$	36,142	6,731		
2019	\$	35,304	6,660		
2020	\$	32,953	5,919	*	
2021	\$	37,335	5,573	*	
2022	\$	22,082	3,229	*	
2023	\$	26,354	4,230		
2024	\$	27,101	4,495	Į	
Average	\$		5,733	t	
* Covid or Camp One Closures					
camper fees incude extra vehicle fee					



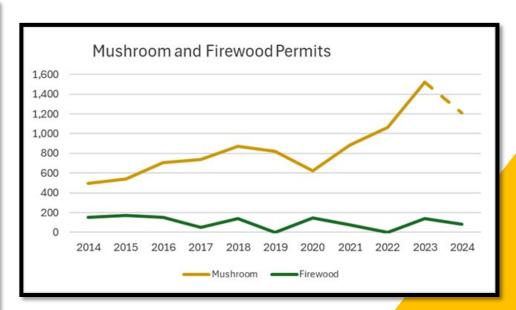
Camper Day = Total Campers for a Given Year.
Note: Data is User Self Reported



#### **Economic Benefits**

#### Looking at the Numbers – Mushroom & Firwood Permits

Year	Mushroom	Firewood	Total Fees
2015	540	172	\$14,280
2016	709	152	\$17,220
2017	739	53	\$15,840
2018	875	137	\$20,240
2019	820	0	\$16,400
2020	623	148	\$15,400
2021	885	75	\$19,160
2022	1066	0	\$21,340
2023	1521	143	\$33,240
2024*	1347	81	\$28,340
		Average	\$20,146
* As of 11	/26/2024		

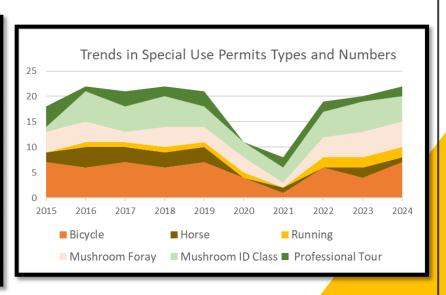




#### **Economic Benefits**

#### **Looking at the Numbers – Special Use Permits**

Year	Bicycle	Horse	Running	Mushroom Foray/ID Class	Total Fees
2015	7	2	0	5	\$2,000.00
2016	6	4	1	10	\$1,100.00
2017	7	3	1	7	\$10,100.00
2018	6	3	1	10	\$7,100.00
2019	7	3	1	7	\$9,700.00
2020	4	0	1	6	\$2,500.00
2021	1	1	0	4	\$2,200.00
2022	6	0	2	9	\$6,420.00
2023	4	2	2	11	\$9,100.00
2024	7	1	2	10	\$8,000.00
				Average	\$ 6,191.11



**Professional Tour = No fees** 



# Benefits to Local Economy Types of

- Forest Management supports significant amount of <u>Job Creation</u> in rural areas within Mendocino County.
  - Substantial proportion of better paying jobs related to forestry & forest industry.
  - Employment related to recreation activities are part of the larger diverse tourism & outdoor recreational industries.
- Spending \$\$ on gear/specialized equipment, travel/tourism, services, food/drink, etc.
  - Examples of gear/specialized equipment sold in Mendocino include, field supplies, bikes, horse saddles, camping supplies, guns and ammo, outdoor clothing, etc.
  - There are a number of hotels and fine dining in vicinity to JDSF.
- Increased Property Values
  - Potential home buyers prefer to live near parks and open spaces.

# Directing Re-Investments Back Into the Forest

Kevin Conway
Demonstration State Forests
Program Manager

- Timber Sale Overview
- Case Studies
  - Caspar 500 THP
  - Camp One THP

# Timber Sale Overview

Revenue generating projects

 Leverage permitting, skilled workforce, and specialized equipment for multiple objectives

Public opportunities to comment

Forest Management Plan

Jackson Advisory Group

THP permitting

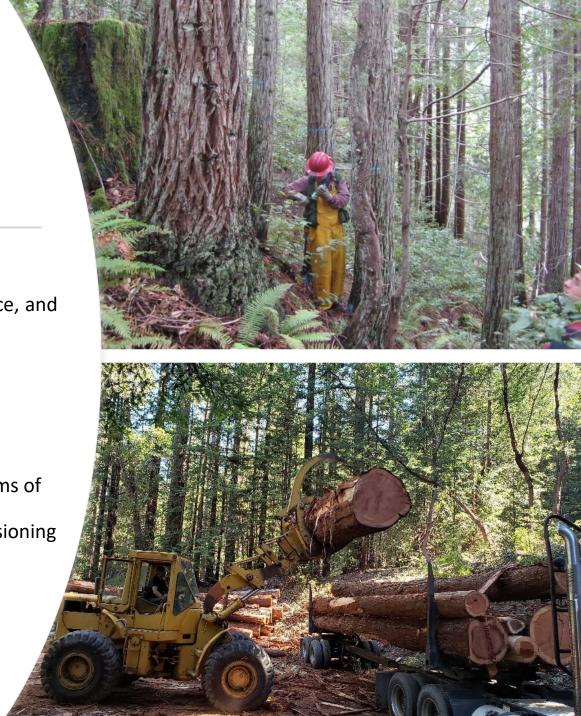
 CAL FIRE develops both THP and terms of contract. May include:

Road maintenance & decommissioning

Recreation improvements

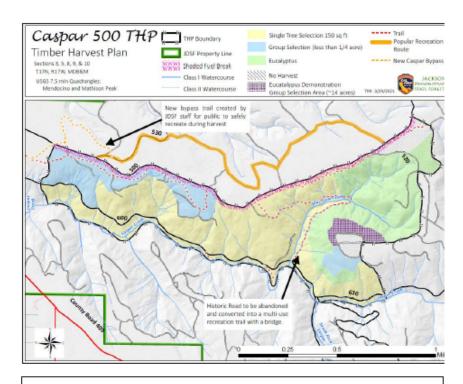
Research & demonstration

Enhanced slash reduction



# Case Study: Caspar 500

- Restoration
  - Road 600 decommissioning
  - Eucalyptus management
- Recreation
  - Bypass trail to minimize disruption
  - Road 600 trail conversion
  - Blue Gum Bridge placement by logger
  - Slash reduction along trails
  - Adopt new trail
- Forest Health
  - Shaded fuel break
  - Second entry, small gap selection



#### Recreation Benefits

This project presents an opportunity for recreation improvements such as:

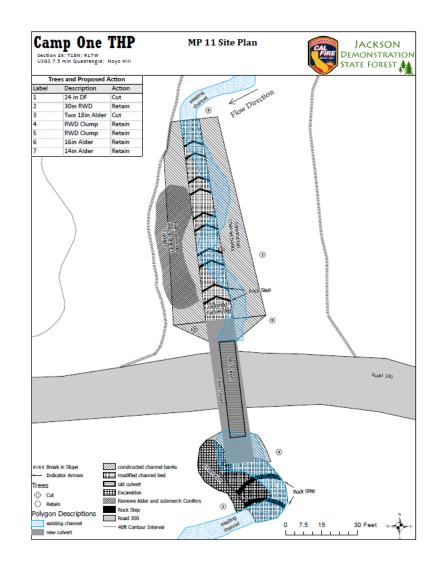
- Conversion and adoption of "Blue Gum Trail" which includes a multi-use bridge.
- Updated watercourse crossings to reduce sedimentation, erosion and promote safety.
- Trail closures will be minimized where feasible.
- JDSF staff created a bypass trail for continued access to trails outside of the project area.

User built bridges will be replaced with rocked fords to address safety and erosion concerns.

# Case Study: Camp One

#### Restoration

- Log source for South Fork Noyo River fish habitat improvement
- Culvert replacement for high water refugia
- Recreation
  - Replace bridge in campgrounds
  - Improve emergency egress
  - Campground buffers
- Forest Health
  - Shaded fuel break
  - Additional 50 acres of fuel reduction with no commercial tree removal
  - Commercial thin of young stand to promote growth of older, larger trees





#### North Coast Coho Project

25 Years of Restoring
Watersheds and
Supporting Rural
Communities



"Ecological
Restoration Is A
\$25 Billion
Industry That
Generates
220,000 Jobs"



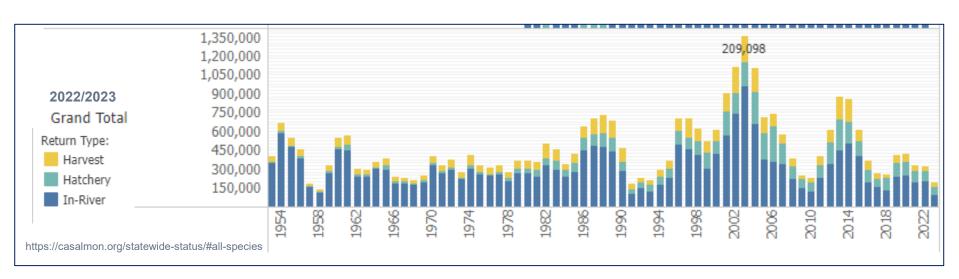
The restoration economy now provides more jobs than mining, logging, or steel production.

# We could lose 45% of CA's remaining salmon in less than 50 years









#### Collaborative Efforts







Are Key to Recovery Success

#### Where We Work

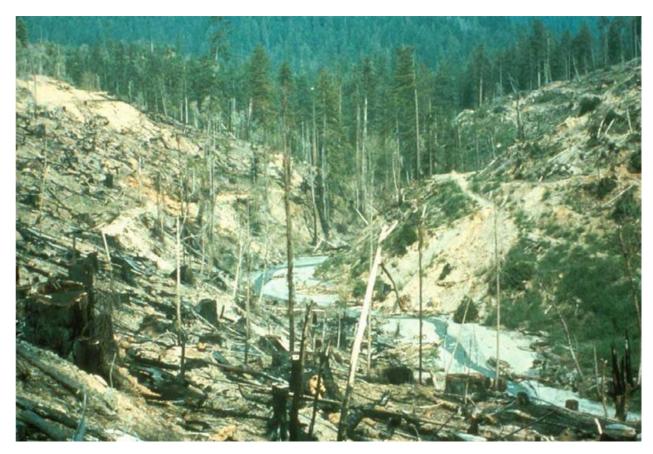
# TU partners manage more than 900,000 acres of land



Photo Credit: Leslie Elias



### **Legacy Timber Impacts**



Standley Creek, South Fork Eel River - 1970

- Extensive Road and Skid Trails
- Fish Passage Barriers
- Altered Hydrologic Network
- Altered Sediment Supply
- Even Aged Timber Extraction
- Riparian Impacts
- Water Quality Impairments

### **Restoration Project Types**

- Fish Passage Improvement and Barrier Removal
- Rural Road Improvements and Road Decommissioning
- Instream Habitat Enhancement
- Floodplain Habitat Enhancement
- Streamflow Conservation (forbearance, ponds, tanks, etc.)





#### Forest Health Restoration

- Low Tech Process Based Restoration
- Fuels Reduction (thinning, fuel breaks, etc.)
- Prescribed/Cultural Burns
- Reforestation
- Invasive Species Removal/Pest Control
- Un-even Age Management







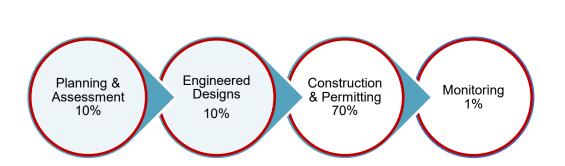


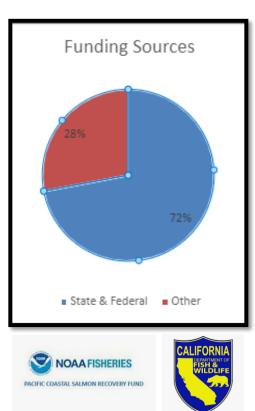




There is "growing evidence that the restoration industry not only protects public environmental goods but also contributes to a national economic growth and employment, supporting as many as 33 jobs per \$1 million invested" (BenDor 2015).

## Since 1998, the NCCP has raised and leveraged over \$50 million for over 150 restoration projects.







2022 Sonoma and Mendocino Counties Economic Development Strategy (CEDS)



recommends watershed restoration projects as a key strategy for reducing the impacts of natural disasters on local communities and economies.

### Recovery is Possible

16-Year Mendocino Coast Coho Adult Estimates							
	Ten Mile	Pudding			Albion	Navarro	Garcia
Survey season	River	Creek	Noyo River	Big River	River	River	River
2008/09	0	50	294	80	8	70	69
2009/10	190	9	286	134	0	452	9
2010/11	395	199	411	160	162	420	90
2011/12	1,127	415	228	269	66	244	0
2012/13	440	283	784	519	894	354	211
2013/14	3	0	723	155	0	0	3
2014/15	1,654	539	3,468	1,344	467	423	163
2015/16	241	135	5,112	744	137	178	170
2016/17	336	572	2,637	250	165	291	73
2017/18	1,011	497	2,043	963	56	229	399
2018/19	1,045	754	1,015	NS	NS	798	NS
2019/20	303	551	358	1,198	366	192	44
2020/21	2,479	399	1,541	866	146	517	318
2021/22	663	256	1,332	513	346	546	132
2022/23	1,075	107	1,299	490	169	127	270
2023/24	5,574	255	5,280	1,572	273	237	515
Downlisting Target	1,850	492	2,000	2,750	1,150	2,850	1,850
Recovery Target	3,700	983	4,000	5,500	2,300	5,700	3,700

NS = No survey

Note: In the 2018/19 survey season, the Navarro River estimate is for the North Fork only.



# **Contact Information**

www.northcoastcohoproject.org

Anna Halligan, NCCP Project Director

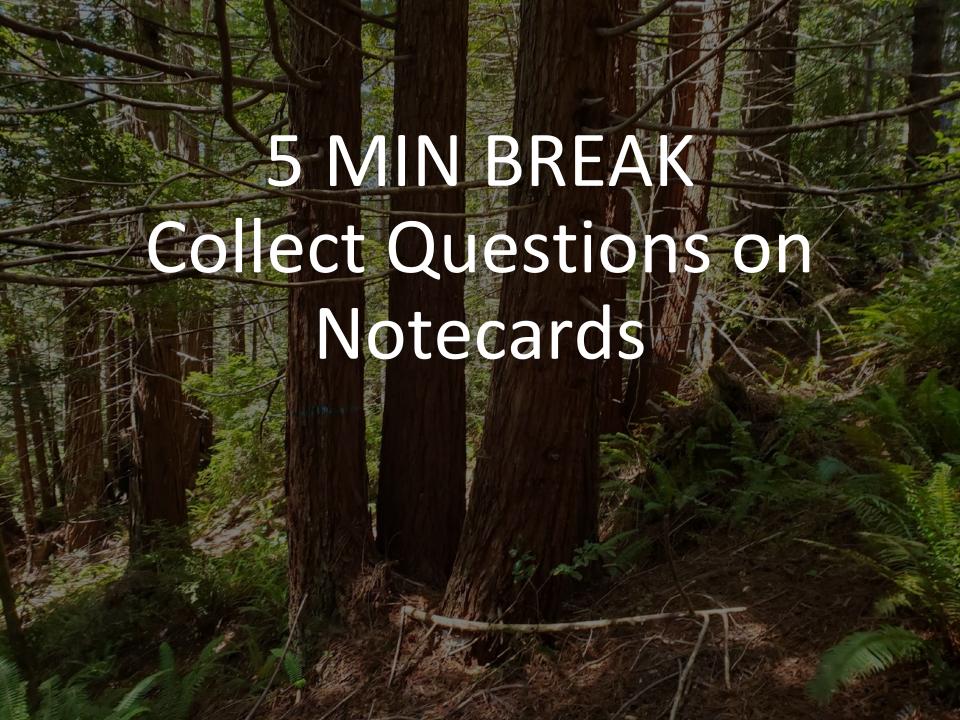
PO Box 1966, Fort Bragg, CA 95437

707 234 4003

i) ahalligan@tu.org

www.tu.org







### **Community Input**

- Two Groups, 2 zones in each group
- Can Rotate or stay in the same group
- After both rotations, you will have time to review what others have written and share your priority management objectives/activities for next 10 years at JDSF
- Remember community agreements
- Briefly Introduce Yourself when you speak: Name and where you live
- 20 minutes in each group
- Clarifying questions on these can be asked at groups sessions to CAL FIRE/ EC team

#### Facilitated Group Questions:

- 1. What is important to you?
- 2. What management activities would you like to see in this zone?

### **Clarifying Questions**

What information presented needs clarification?

All questions on notecards

#### Prioritization

- Review all comments
- Prioritize for next 10 years
- One dot per comment
  - 10 dots of each:
    - Green high priority
    - Yellow- medium priority
    - Red- Low or not a priority

# **Update Process and Next Steps for Community Input**

#### **Topic: Restoration Economy**

- Thursday, Dec. 12: 6-8 PM: Ukiah Senior Center
- Friday, Dec. 13, 5-7 PM: Fort Bragg Veterans Hall

#### **Topic: Restoration Ecology**

Thursday, Dec. 16, 5-7 PM: Fort Bragg – Veterans Hall

#### **Pre-register:**

https://jacksonstateforestplan.com/register

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