

# Crossboundary Traditional Knowledge and Landscape Management





# Introductions. WRTC Fire Team

- **Erin Banwell** - fire ecologist, fire effects monitoring, prescribed fire practitioner
- **Miller Bailey** - training specialist, safety officer, crew development
- **Andrea Bustos** - community organizer, geographer, ecosystem health
- **José Luis Duce** - mentor/leader, force multiplier, global fire practitioner
- **Ellen McGehee** - fire ecology and effects, fire operations, planning
- **Qwalen Berntsen** - fire cache management, logistics, adaptive management





# Introductions. WRTC Fire Team



- Fire is for Everyone

**THE WATERSHED CENTER**  
HAYFORK, CALIFORNIA

## Fire Management Team 2022 Accomplishments

2022 was a busy year for the Fire Management team at the Watershed Center. The team was on the road visiting counties around California and helping to bolster community fire resilience with a variety of trainings, burn projects, and certification opportunities. The reach of their work was supported by the addition of four new team members, increasing the team's size from two to six.

### BY THE NUMBERS

- 8** Counties Served  
Trinity, Plumas, Lake, Butte, Santa Barbara, San Bernardino, Nevada, Humboldt counties received in-person training, with even more counties receiving remote support.
- 41** Burns  
Broadcast burning and pile burning projects treated a total of 524.5 acres.
- 104** Completed Training Days  
Trainings included: NWCG certification courses, TREX weekends, DEIJ trainings, burn planning workshops
- 2,616** Trainees and Participants  
Community members, fire practitioners, volunteers, and more
- 31,513** Participant Training Hours  
The fire team trained and mentored participants in active fire operations and in outdoor classroom settings.

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[thewatershedcenter.com](http://thewatershedcenter.com)

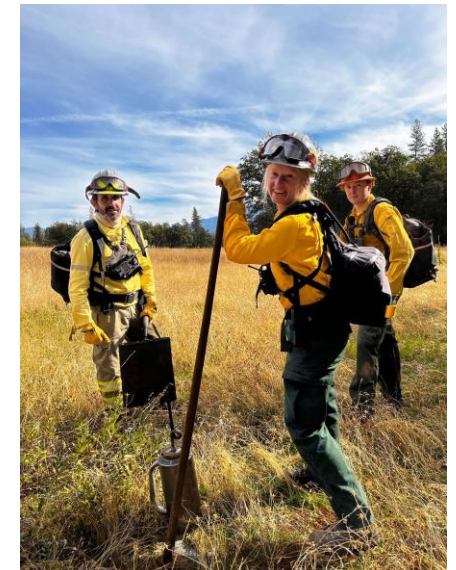
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# Trinity County



- Trinity Integrated Fire Management Partnership
  - WRTC-led, multi-organization, cross boundary, grant based
    - WRTC, TCRC, VFDs, USFS, CAL FIRE
  - Volunteer Opportunities on rx burns
  - NWCG training program (Spring)
  - Local private landowners
  - Hyampom, Hayfork, Lower Trinity PBA's support





# Statewide Capacity Building

- Trainings
  - NWCG and Non-NWCG courses
  - Hands-on field trainings, workshops, webinars
- PBA Coaching
- RX Burns Planning and Implementation
- Technical Advising and Mentoring
  - Wildfire / Rx fire workforce development
  - Qualification management / PTB evals
  - Rx fire planning, permitting, burn plans





# Prescribed Burn Associations (PBA)

- A grassroots workforce model
- Landowners and other concerned residents (who are often volunteers) form a partnership
- PBA members pool their skills and knowledge
- Plan and implement prescribed burns on private lands
- **Neighbors Helping Neighbors**

## California PBA/Community-Based Burning Efforts

Blue: group formed and burning

Orange: group in formation

Yellow: having conversations about forming



*Map created by Jeff Stackhouse, University of California Cooperative Extension; Katie Roberti, California Cattlemen's Association; May 2021*





October 2022.

Robinson  
Rancheria, CA.  
Lake County  
PBA

First burn for  
Robinson  
Rancheria in  
an oak  
woodland since  
fire was illegal  
for tribes to  
implement.





Photo Credit:  
Chad Manley  
June 2023

Hayfork, CA  
Trinity Co.

Hayfork PBA  
burn, starthistle  
reduction.





Photo Credit:  
José Duce

May 2023

San Juan  
Bautista, CA

Central Coast  
PBA. S290  
Class



# Crossing Boundaries Partners

- PBA's (Prescribed Burn Associations)
- TRES (Prescribed Fire Training Exchange)
- Southern California Mountains Foundation
- Inland Empire Resource Conservation District
- Star Creek Land Stewards, Inc.
- North Bay Jobs With Justice
- International Exchanges









# Crossing Boundaries Knowledge and Experiences





# INDONESIA





**BRASIL**





ECUADOR





# HONDURAS





# CHILE





# Navarra-Spain/France





# PORTUGAL





# Crossing Boundaries Management Strategies



## *Ulex europaeus*

**Synonyms:** *Ulex europaea*

**Common names:** gorse; common gorse; furze; prickly broom

*Ulex europaeus* (gorse) is a woody leguminous shrub (family Fabaceae). In California *Ulex europaeus* can be found in coastal counties and the northern Sierra Nevada foothills. It invades infertile or disturbed sites, sand dunes, gravel bars, fence rows, overgrazed pastures, logged areas, and burned-over areas. Besides becoming a significant fire hazard, it can successfully out compete native plants in part because of its association with nitrogen-fixing bacteria, which facilitate its colonization of nitrogen-poor soils.

**Cal-IPC Rating:** High

**CDFA Rating:** -\*



Photo: Joseph DiTomaso



# Crossing Boundaries ...





# Crossing Boundaries ...





# Crossing Boundaries Knowledge and Experiences





Thank you!!! – Gracias!!!

