



**Wildfire & Landscape Resilience
Interagency Treatment Dashboard Virtual
Public Workshop
November 14, 2023**



AGENDA

1. Welcome + Agenda Review
2. Opening Remarks
3. Tracking System Overview
4. Dashboard Overview
5. Q&A
6. Break (5 min)
7. Breakout Groups
8. Breakout Group Report Out
9. Live Polling
10. Closing Remarks



Wildfire & Landscape Resilience Interagency Treatment Tracking System

November 2023



BREAKOUT GROUPS

- Scientists (Data Users)
- Land Managers (Data Reporters/Contributors)
- Wildfire & Forest Policy
- Management Planners (Data Users)
- Other Users and General Public

BREAKOUT QUESTIONS



1. Dashboard: What features you would like to see added/changed?
2. Dashboard: What features have been difficult to use or could be improved?
3. Dashboard: Do you like the way the activities are grouped into categories? If not, how should we change the categories?
4. Tracking System: Is it clear what activities are tracked, which data sources are included, and how the data are processed? If not, what other documents, graphics, or tools could we add to help explain this work?
5. Do you understand “footprint” vs. “activity” and how could we better communicate that?
6. We plan to release the “full” tracking system data set (work in units other than acres, other forms of management and land management org types) on the UCSD-hosted Wildfire and Landscape Resilience Data Hub as a GIS feature service. Should it instead become part of the Dashboard with the same curation tools (data layers, summary tables and figures, etc)?
7. How could the Tracking System and Dashboard better support your work?



TREATMENT TRACKING: GOALS

Assemble federal, state, local, private data to:

- Support transparency
- Facilitate planning, support fire suppression operations
- Provide data for assessing benefits/costs beyond “acres treated”
- Track progress toward state/federal acreage targets

INTERAGENCY TREATMENT TRACKING: DEVELOPMENT HISTORY



- Led by Task Force's Monitoring, Reporting, and Assessment Work Group; technical support via Spatial Informatics Group, LLC.
- Work started in 2021
 - Informed by existing tracking systems (e.g., CAL FIRE, USFS) & meetings with land managers and scientists from state & federal agencies
- Draft Framework Released Spring 2022
- Public Workshop May 2022
- Framework Finalized Summer 2022



All Activities and *Categories* within the Task Force Tracking System

Fuels Reduction

Biomass Removal
Chaining/Crushing
Chipping
Discing
Dozer
Handline
Herbicide Application
Invasive Plant Removal
Landing Treated - Area Mitigated
Lop and Scatter
Mastication
Mowing
Pest Control
Piling
Pruning
Roadway Clearance
Slash Disposal
Thinning (Manual)
Thinning (Mechanical)
Tree Release and Weed
Trees Felled (> 6in dbh)
Utility Right of Way Clearance
Yarding

Timber Harvest

Alternative Prescription
Aspen/Meadow/Wet Area Restoration
Clearcut
Commercial Thin
Conversion
Group Selection Harvest
Oak Woodland Management
Rehabilitation of Understocked Area
Removal of Hazard Trees and Snags - Area
Salvage Harvest
Sanitation Harvest
Seed Tree Prep Step
Seed Tree Removal Step
Seed Tree Seed Step
Shelterwood Prep Step
Shelterwood Removal Step
Shelterwood Seed Step
Single Tree Selection
Special Products Removal
Transition Harvest
Variable Retention Harvest

Tree Planting

Site Preparation
Tree Planting
Tree Seeding

Watershed & Habitat Improvement

Habitat Revegetation
Erosion Control
Pest Control
Road Obliteration
Stream Channel Improvement
Wetland Restoration

Prescribed Fire

Broadcast Burn
Pile Burning
Wildfire Achieving Resource Benefit

Land Protection

Easement
Land Acquisitions

Targeted Grazing

Prescribed Herbivory

PROJECT ATTRIBUTES



Field Name	Description
Primary_Funding_Source_Name	The name of budget funds providing primary support of the project.
Primary_Funding_Org_Name	The name of the primary organization providing funding for the project.
Primary_Administering_Org_Name	The name of the primary organization administering the funding.
Primary_Implementing_Org_Name	The name of the primary organization implementing the funding by providing staff, volunteer, or contract labor.
Reporting_Org_Name	Name of the organization reporting the project into this database.
Project_Contact	A contact name for the organization. Not specific to the project.
Project_Email	A contact email for the organization. Not specific to the project.
Project_Name	Common name for each project
Project_ID	Unique identifier for each project
Project_Start_Date	Date funding is first obligated to the project for planning or implementation purposes.
Project_End_Date	Date all treatments were fully implemented and complete.
Project_Status	Project status
Lat/Lon	

TREATMENT ATTRIBUTES



Field Name	Description
TreatmentID	A unique identifier for the treatment within a project (for that organization), usually a number or an alpha-numeric code, rather than a full name. Preferred that it does not include text that identifies which organization, in case that must be kept private.
Treatment_Name	The name of the treatment.
County	The primary County in which the treatment resides, by area.
WUI	Defined via data layer
Primary_Objective	The primary goal of the treatment (see options).
Secondary_Objective	The secondary goal of the treatment (see options). Optional field.
Tertiary_Objective	The tertiary goal of the treatment (see options). Optional field.
Estimated Retreatment Date	Approximate estimated date at which the treatment will need to be performed again.
Treatment_Status	Treatment status
Treatment_Start_Date	Date the treatment started, usually the date of the first activity
Treatment_End_Date	Date all treatment activities were completed.
Treatment Area (Acres)	Area receiving treatment
Ownership_Group	The general level of the agency or organization

ACTIVITY ATTRIBUTES (1 OF 2)



Field Name	Description
Activity_Id	A unique identifier for the activity
Activity_Name	A name for this activity, if applicable
Primary_Funding_Source_Name	The name of budget fund supporting this activity.
Primary_Funding_Org_Name	The name of the organization providing primary funding for this activity.
Secondary_Funding_Source_Name	The name of budget fund providing secondary support for this activity.
Secondary_Funding_Org_Name	The name of the organization providing secondary funding for this activity.
Tertiary_Funding_Source_Name	The name of budget fund providing tertiary support for this activity.
Tertiary_Funding_Org_Name	The name of the organization providing tertiary funding for this activity.
Administering_Org_Name	The name of the primary organization administering the funding.
Implementing_Org_Name	The name(s) of the organization implementing the funding by providing staff, volunteer, or contract labor.

ACTIVITY ATTRIBUTES (2 OF 2)



Field Name	Description
Activity_Description	The practice used to achieve management objectives.
Activity Unit of Measure	The units used to measure and quantify the activity accomplished
Activity Quantity	The planned quantity of an activity when it reaches completion.
Activity Status	The current status of the activity.
Broad_Vegetation_Type	Identify the primary broad vegetation type for the activity area.
Residue Quantity	If applicable, enter the amount in bone dry tons of biomass residues (activity fuels) generated by the activity.
Residue Fate	If applicable, enter the portion of residues (activity fuels) generated by the activity that were left on site, treated, or removed. Multiple entries allowed; must total 100.
Activity Start Date	Expected or actual beginning date.
Activity End Date	Expected or actual stop date for work. For land acquisitions and easements, end date is when the acquisition or easement has been fully executed and is legally in effect.
Activity Percent Complete	If the Activity Status is "Active", enter the cumulative portion of Activity Quantity that has been completed as of the date reported.

ATTRIBUTE DOMAINS



- Project/Treatment/Activity Status
- Treatment Objectives
- Broad Vegetation Type
- Activity Descriptions
- Residue/Activity Fuel Fate
- WUI Designation
- Ownership Group

ATTRIBUTE DOMAINS



Status	Status Defined
Planned	Regulatory documents have been completed (NEPA, CEQA, THP) and/or funds have been obligated to complete the work.
Active*	All documents complete, funding is available, and work is occurring at the site.
Complete	All work required for full implementation has finished. For land acquisitions and easements, complete is when the acquisition or easement has been fully executed and is legally in effect.
Cancelled†	Planned work was stopped prior to completion and will not be revisited with the formerly obligated funds.

* Best aligns with “Accomplished” in the USDA Forest Service database because those activities are under contract, but work may not yet have begun.

†For USDA Forest Service activities, this status is derived from date information within FACTS. USDA Forest Service activities with a “Cancelled” status may be cancelled, paused, or have an unknown status.

Broad Vegetation Type	Vegetation Type Definition
Forest	Land exhibiting greater than or equal to 10% canopy cover comprised of live trees.
Grass/ Herbaceous	Natural vegetation dominated by grass and/or other herbaceous vegetation. Woody vegetation (trees and shrubs) is infrequent and less than 10% canopy cover.
Shrublands and Chaparral	Land exhibiting greater than or equal to 10% canopy cover comprised of shrubs or chaparral. These lands are dominated by woody plants but lack tree cover. Shrubs and chaparral area defined as woody plants that are less than 8 meters tall and usually have many stems arising at or near the base of the plant.
Sparse	Areas characterized primarily by low levels of natural vegetation, typically resulting from harsh growing conditions.
Wetland	Land that is covered or saturated by water for all or portions of a year, and do not fall within other categories. Includes vernal pools, mountain meadows, and peatlands.

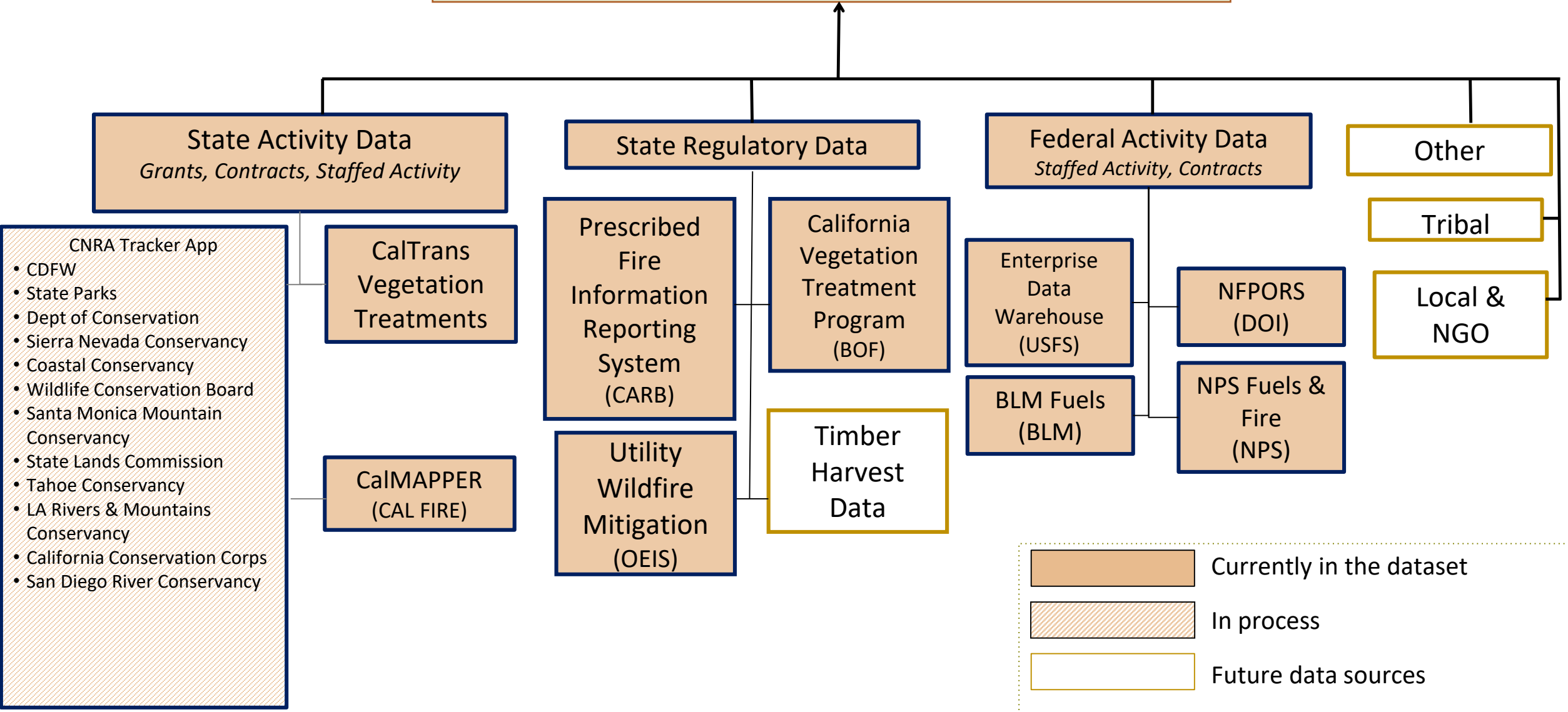
ATTRIBUTE DOMAINS



Major Owner Type	Major Owner Definition
Federal	Owned by the United States government, including US Department of Agriculture, US Department of Interior, US Department of Defense, or other agencies.
State	Owned by the State of California, including Department of Parks and Recreation, Department of Fish & Wildlife, State Lands Commission, Department of Forestry & Fire Protection, Department of Transportation, or other agencies.
Local	Owned by municipal, county, special district, or joint powers authority.
Private - Non-Industrial	Owned by a company or individual(s) not operating a primary wood-processing plant.
Private - Industrial	Owned by a company or individual(s) operating a primary wood-processing plant.
NGO	Owned by a not-for profit, citizen's group that is organized on a local, national or international level to address issues in support of the public good.
Tribal	(a) all land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation; (b) all dependent Indian communities within the borders of the United States whether within the original or subsequently acquired territory thereof, and whether within or without the limits of a state; (c) all Indian allotments, the Indian titles to which have not been extinguished, including rights- of-way running through the same; and (d) lands owned by Indian tribal governments, including those outside of the boundaries of (a), (b), or (c).



Task Force Interagency Tracking System



DATA CONVERSION



Existing data sources have their own structure and terminology; must be converted
Examples: CAL FIRE CalMAPPER, USFS FACTS

Conversion Process (Simplified)

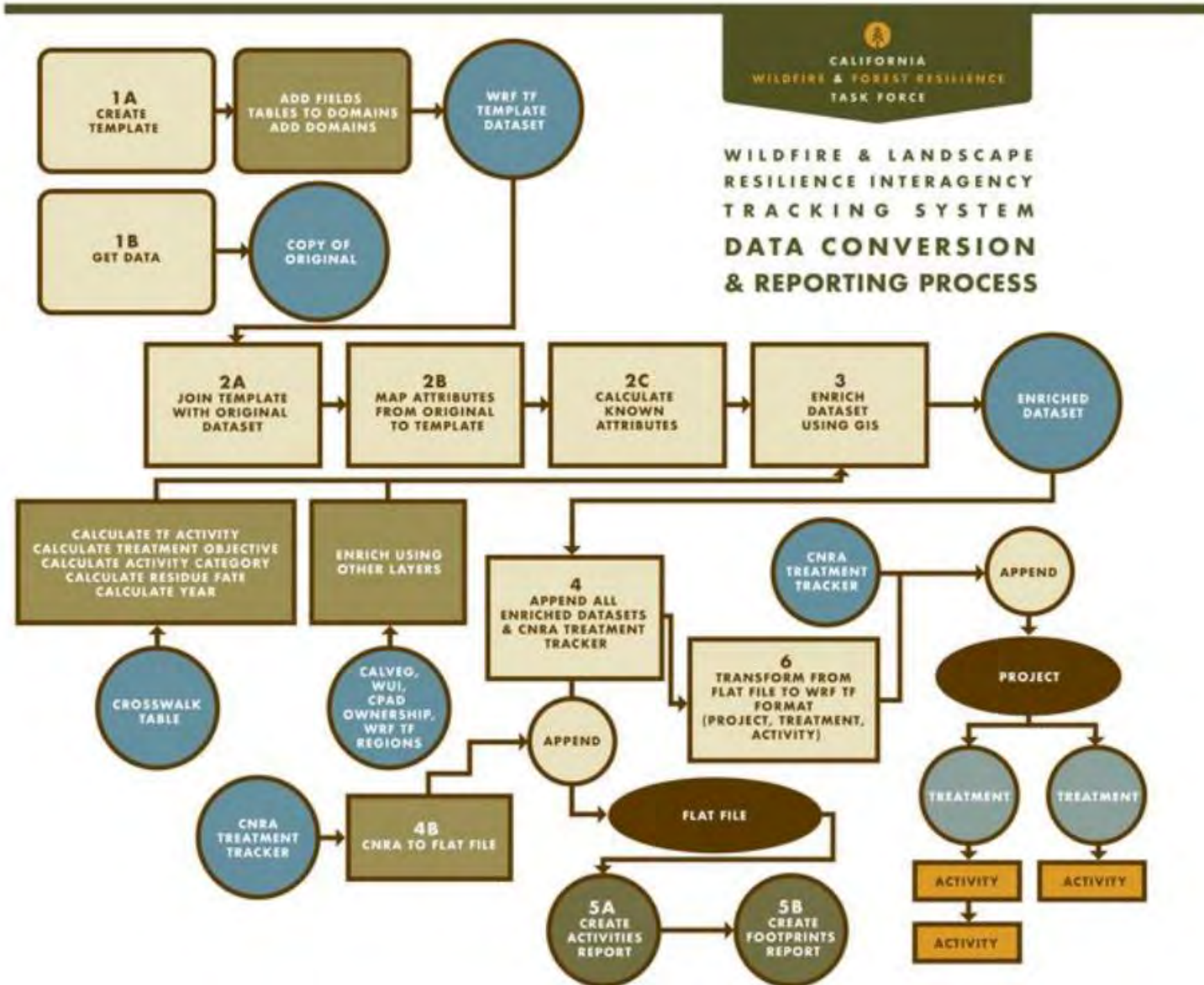
- Map attributes from source dataset
- Develop “crosswalk” for each source dataset
- Enrich source data using GIS
- Transform enriched dataset to Task Force scheme

Not all attributes in the Task Force scheme are found in source datasets

Missing attributes:

- Filled via GIS (e.g., County, WUI, Ownership, Vegetation Type)
- Inferred (e.g., Residue Fate, Treatment Objective)
- Left blank

DATA CONVERSION



DOCUMENTATION



<https://wildfiretaskforce.org/treatment-dashboard/>

SUPPORTING DOCUMENTATION*

- [System Framework & Data Dictionary \(pdf\)](#)
- [Dashboard Instructions For Use \(pdf\)](#)
- [Activity within Dashboard Categories \(pdf\)](#)
- [Data Conversion & Reporting Methods \(pdf\)](#)
- [Reporting Entity Data Notes \(pdf\)](#)

*Note: Documents may include envisioned Dashboard features or functionality that are not yet available in the current BETA version.



Interagency Treatment Tracking Dashboard *Beta Release*

November 2023



DASHBOARD: GOALS

- Support transparency
- Demonstrate the tracking system data
- Show progress toward state/federal acreage targets (“million acres”, etc.)

INTERAGENCY TREATMENT DASHBOARD BETA VERSION





Task Force Interagency Tracking System

- Treatments in units other than acres (each, tons, miles, etc)
- Data from local governments, NGOs, other private landowners
- Work outside calendar 2022
- Planned or canceled work
- Evenaged timber harvest
- Some postfire salvage harvest
- Ecological restoration

Utility Wildfire Mitigation
Some Caltrans
Some CAL FIRE
Some USFS
Some Prescribed Burn (PFIRS)
Some Timber Industry

FILTER

Beta Interagency Treatment Dashboard

Acres of work done in *calendar* year 2022
from active and complete treatments
State, federal, and timber industry

DASHBOARD ACTIVITY CATEGORIES



Activities within the Dashboard Categories

Mechanical & Hand Fuels Reduction

- Biomass Removal
- Chaining/Crushing
- Chipping
- Discing
- Herbicide Application
- Invasive Plant Removal
- Landing Treated - Area Mitigated
- Lop and Scatter
- Mastication
- Mowing
- Pest Control
- Piling
- Pruning
- Roadway Clearance
- Slash Disposal
- Thinning (Manual)
- Thinning (Mechanical)
- Tree Release and Weed
- Trees Felled (> 6in dbh)
- Utility Right of Way Clearance
- Yarding

Uneven-aged Timber Harvest

- Alternative Prescription
- Aspen/Meadow/Wet Area Restoration
- Commercial Thin
- Group Selection Harvest
- Oak Woodland Management
- Rehabilitation of Understocked Area
- Sanitation Harvest
- Single Tree Selection
- Special Products Removal
- Transition Harvest
- Variable Retention Harvest

Tree Planting

- Site Preparation
- Tree Planting
- Tree Seeding

Prescribed Fire

- Broadcast Burn
- Pile Burning
- Planned Treatment Burned in Wildfire

Targeted Grazing

- Prescribed Herbivory



Footprints

Calendar Year

2022



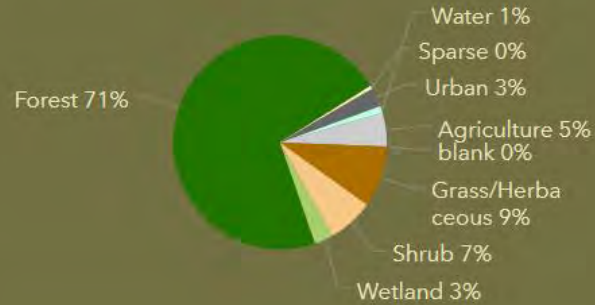


Beta Interagency Treatment Dashboard

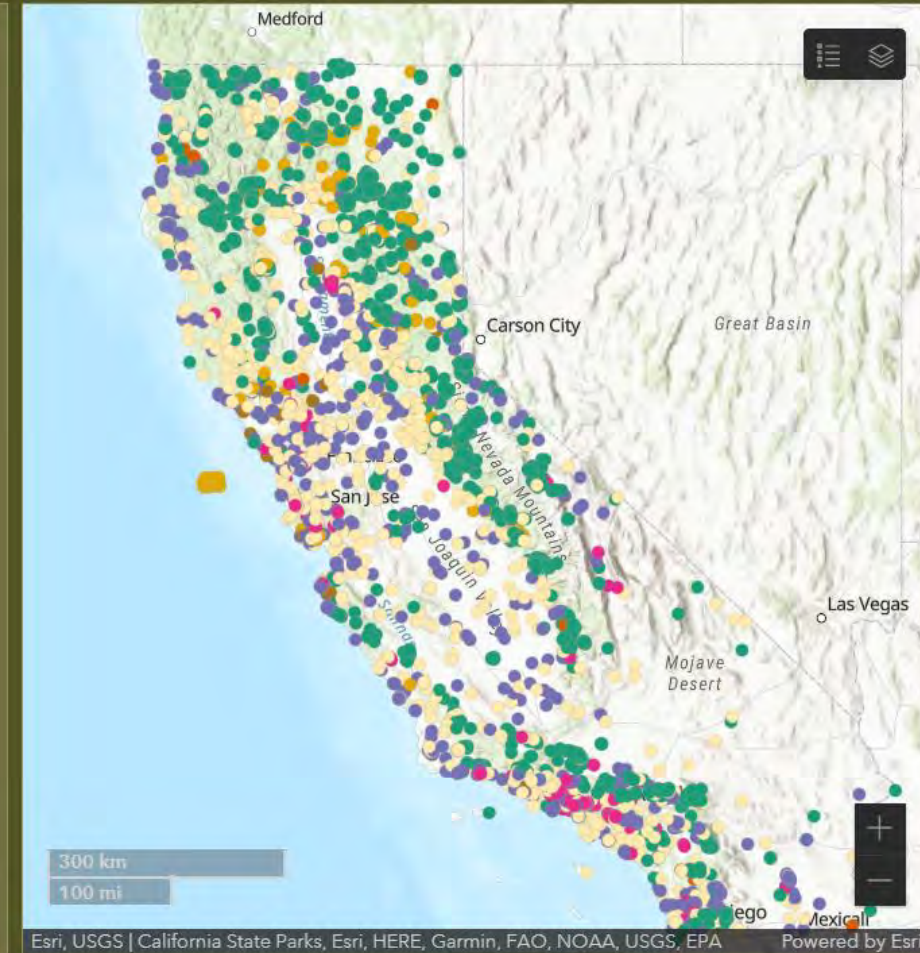
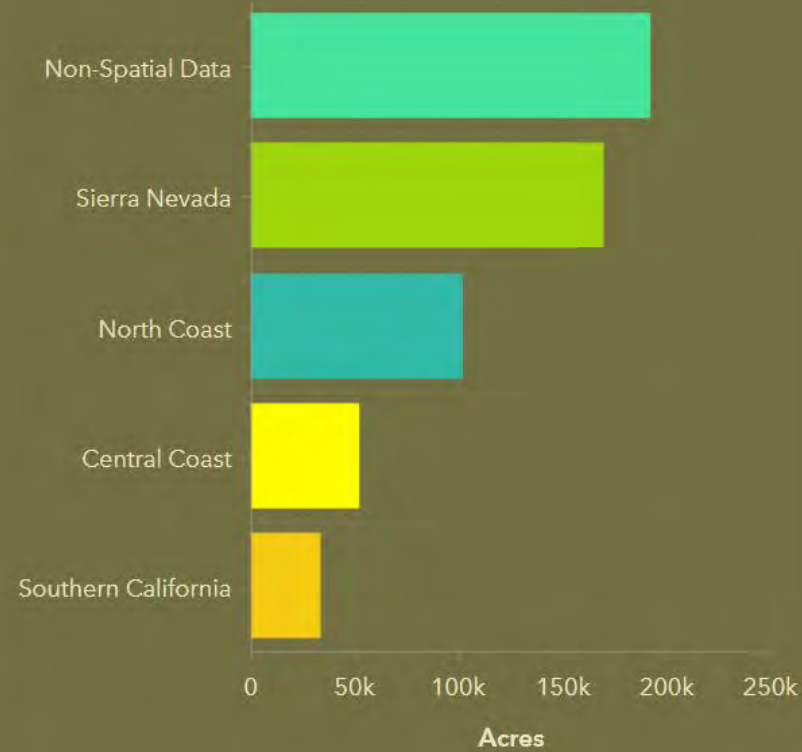
Data Refreshed 8/22/2023

Ownership	Footprint Acres
Private - Industrial	216,970
Federal	156,277
State	116,775
Private - Non-Industrial	50,633
Local	2,805
NGO	1,379
Total	545,788

Footprints by Vegetation Type



Footprint Acres by Task Force Region



COUNTING ACTIVITY & FOOTPRINT ACRES



Unit 1: 70 acre treatment area

Activity 1: 40 acres Mastication

Activity 2: 30 acres Thinning—Planned for 2023

Activity: 40 acres
Footprint: 40 acres



Unit 2: 200 acre treatment area

Activity 1: 200 acres Thinning (Hand)

Activity 2: 200 acres Broadcast Burn

Activity: 400 acres
Footprint: 200 acres



CA

WILDFIRE & FOREST RESILIENCE

TASK FORCE

ACTIVITY DASHBOARD OVERVIEW



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[Learn More](#)

[Activity](#)

[Footprints](#)

Beta Interagency Treatment Dashboard

Data Refreshed 8/22/2023

Entity Type
All Entities

Task Force Region
All Regions

County
All Counties

Land Ownership
All Ownerships

Calendar Year
2022

Reporting Entity

Activity Acres

Timber Companies	201,253
CAL FIRE	125,982
U.S. Forest Service	121,439
CA Department of Transportati...	114,901
CA Department of Fish and Wi...	104,739
U.S. Fish and Wildlife Service	36,664
Bureau of Land Management	25,234
Department of Defense	13,163
CA State Parks	5,926
National Park Service	1,981
Tahoe Conservancy	148
San Gabriel and Lower Los An...	79
CA Department of Conservation	30
	751,539

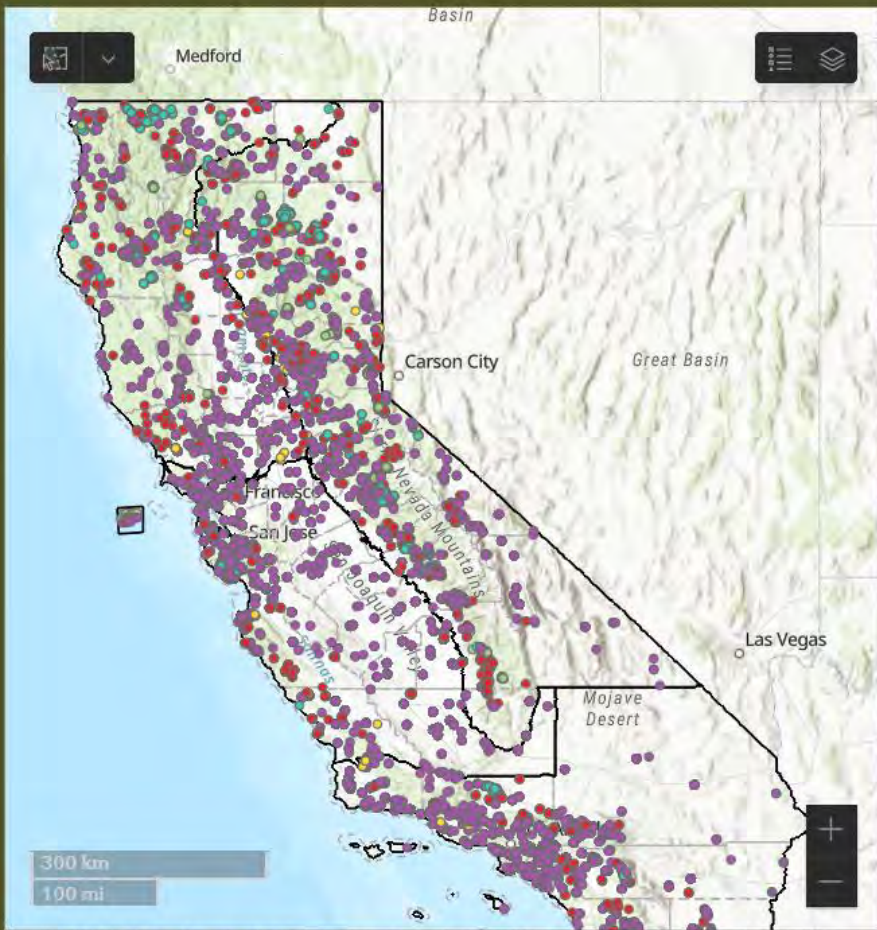
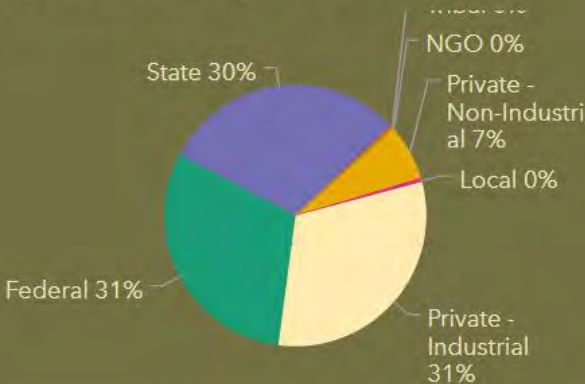
[Reporting Entity Data Notes](#)

Activity Category

[What's in these categories?](#)



Activity Acres by Ownership



ACTIVITY DASHBOARD DEMO



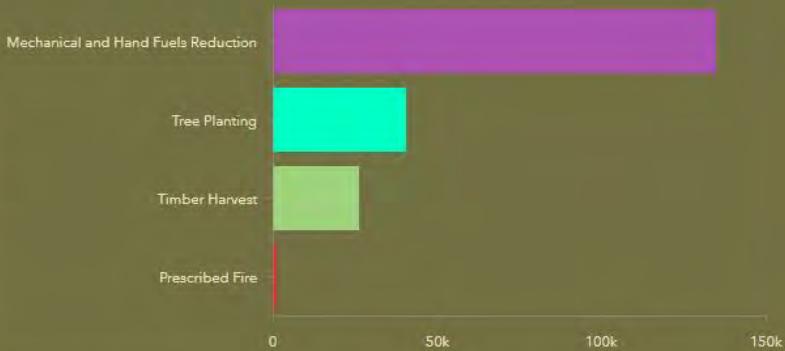
TIMBER COMPANY DATA



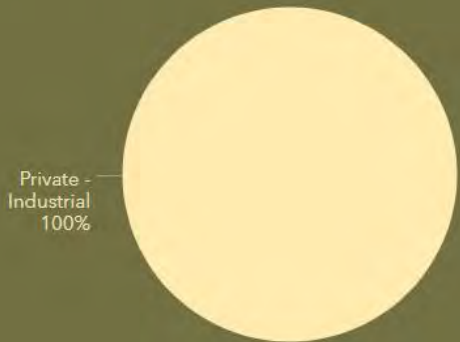
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Total	751,539
Reporting entity data notes	

Activity Category

What's in these categories?



Activity Acres by Ownership



POINTS, POLYGONS, AND ATTRIBUTES



LANDING PAGE: ADDITIONAL RESOURCES

WildfireTaskForce.org



Supporting Documentation

- Framework document
- Methods for data processing

Data

- Feature service
- Geodatabase
- Tabular data (csv)

FAQs

- Differences vs Other Viewers



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NEXT STEPS



Gather User Feedback

- Send us your feedback!

Database Improvement & Expansion

- Improve State reporting processes
- Improve Timber Industry data
- Improve data on Planned treatments
- Expand to Tribal, Local, & NGO Entities

Data Updates

- Quarterly: Data update for dashboard
- Annual: Summary report in 2024
- Release full tracking system database in 2024, including historical data



QUESTIONS & ANSWERS



ADDITIONAL RESOURCES

WildfireTaskForce.org



Supporting Documentation

- Framework document
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FAQs

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5-MINUTE BREAK



BREAKOUT GROUPS

BREAKOUT QUESTIONS



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7. How could the Tracking System and Dashboard better support your work?



**BREAKOUT GROUP
REPORT OUT
(2 MIN PER GROUP)**



LIVE POLL: PRIORITIES FOR REVISIONS

CLOSING REMARKS



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