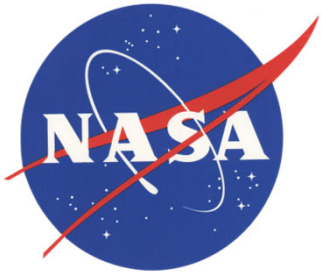




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Wildfires Across the West NASA RECOVER 2.0



A summary of the 2024 wildfire year by:

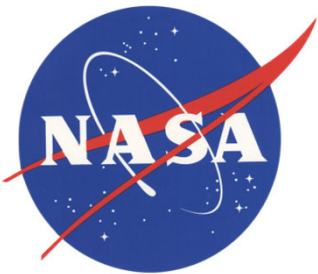
Keith T. Weber, GISP (PI), ISU GIS TReC

Brad Quayle (Co-PI), USDA Forest Service GTAC

ROAR

What is RECOVER 2.0?

- A Cloud-based platform for Post-wildfire management and long-term monitoring
- RECOVER 2.0 is a Customer-driven, Customer-centric* Decision Support System (DSS)



* Our “customers” are agency/organizational wildfire and land managers at the USDA Forest Service, DOI BLM, NPS, NWS, as well as state agencies, and county emergency managers

Data Architecture

- **Base Layers** with wall-to-wall coverage across the Western USA ($n = 37$)
- Uses authoritative data
- Automated processing with our **Large Fire Trigger**
 - Fires in the western US
 - **Burning 1,000 acres or more**
- Provides **RECOVER Data Packages**





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Using RECOVER

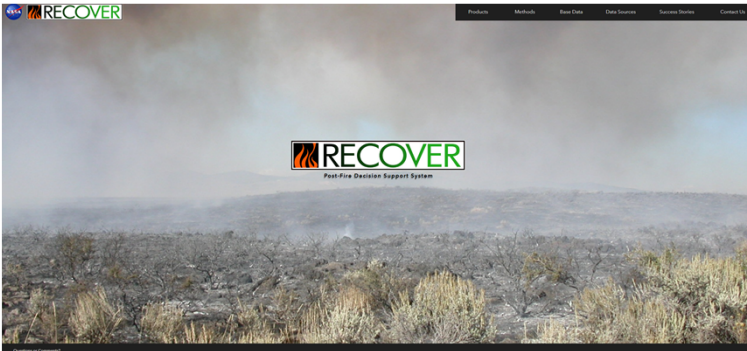
https://giscenter.isu.edu/research/Techpg/nasa_RECOVER2/index.htm

Web Page

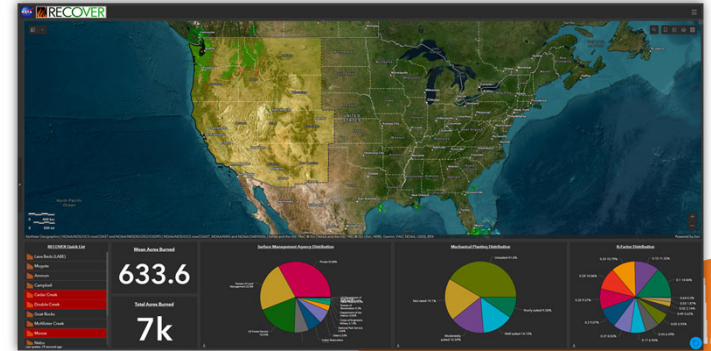
The screenshot shows the RECOVER web page with the following sections:

- RECOVER 2.0**: Includes a "DOWNLOAD" button and a description of the system's objectives.
- Objectives**: A paragraph describing the system's goals for wildfire recovery.
- Investigators**: A list of names and affiliations.
- Project Team**: A list of roles and names.
- Related Links**: A list of external resources.
- Additional links and disclosures**: A list of related documents and reports.

Experience Builder



Dashboard





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The Year in Review

- RECOVER provided assistance on 354 wildfires (from February 24th to November 4th, 2024)



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By the Numbers

- Mean (average) fire size: 15,981 acres
- Median fire size: 4,331 acres
- Number of megafires: 11
The California Park fire burned nearly a half million acres

A megafire is a fire that burns over 100,000 acres of land

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By State

STATE	NUMBER OF FIRES	TOTAL ACRES BURNED
US-AZ	41	227,082
US-CA	41	903,900
US-CO	14	43,703
US-ID	64	991,415
US-MT	19	119,169
US-NM	9	73,040
US-NV	11	83,496
US-OR	88	2,026,107
US-UT	12	87,866
US-WA	22	291,479
US-WY	32	801,923

* some fires may have burned across a state line

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Idaho Wildfires

- Mean (average) fire size: 15,490 acres
- Median fire size: 4,681
- Number of megafires: 2 (Paddock and Wapiti)

A megafire is a fire that burns over 100,000 acres of land

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Comparing with 2023

- Total fires RECOVER assisted with: 181
- Mean (average) fire size: 10,216 acres
- Median fire size: 2,737 acres
- Number of megafires: four (4)
- Idaho wildfires RECOVER assisted with: 12

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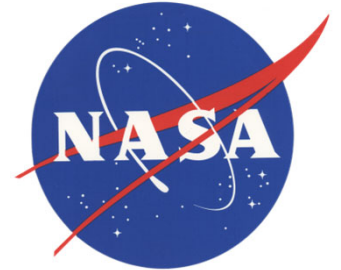
Side by Side

	2023	2024
Number of fires RECOVER assisted with	181	354
Mean (average) fire size: (acres)	10,216	15,981
Median fire size (acres)	2,737	4,331
Number of megafires	4	11
Idaho wildfires RECOVER assisted with	12	64

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Questions?



- Meet the RECOVER Team
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 - Ali Reiner²
 - Di Wu¹
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2 – USDA Forest Service Geospatial Technology and Applications Center (GTAC)

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