

Annualized Wildfire Hazard Data

based on proprietary high-fidelity California Forest ObservatoryTM vegetation fuels data

Composed of over 200 million individual wildfire simulations driven by hourly weather and proprietary 10-meter fuels data, our wildfire data are the highest-resolution, most up-to-date available today.

Wildfire Hazard: the product of probability and intensity

- Burn Probability: annual likelihood of fire burning a specific location
- Intensity:
 - Flame Length: expected flame height above ground
 - Spread Rate: how fast the flaming front advances

Data Highlights: Unprecedented scale and input quality produces best available hazard insights.

vs. Best Alternatives

- Fuels Data Fidelity: Current, 200% more accurate, 10x resolution.
- Weather Data: Current, hourly
- Scalable: Cloud-based simulation means rapid updates and alternative scenario generation possible

Key Use Cases: New insights for a rapidly developing and intensifying community and ecological threat.

- *Risk Management*: Paired with infrastructure and other asset data, better assess and manage risk
- Land Management: Prioritize actions to maximize wildfire risk mitigation
- Parcel-level insights: Plan and monitor strategies at individual asset and forest stand levels



Northern California wildfire hazard

Team: Ecologist founded and led.

Lead developer of the Forest Observatory, Salo Sciences is founded and led by forest ecology Ph.D.'s and remote sensing experts—veterans of The Nature Conservancy and Stanford University—who are dedicated to scientific rigor.





Coming soon to forestobservatory.com





Santa Barbara burn probability



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Compared to Wildfire Risk to Communities (US Forest Service) map of wildfire hazard, our Annualized Wildfire Hazard Data show:

Large shift in the geography of wildfire hazard in the Wildland Urban Interface (WUI)

- 41% of WUI lands have significantly higher wildfire hazard
- 26% of WUI lands have significantly **lower** wildfire hazard

Higher Home Exposure to 2020 Wildfires

• 15% higher wildfire exposure across the 18,000 homes and buildings impacted by the 2020 wildfire siege

Difference in Wildfire Hazard (WUI emphasized)

Salo Sciences shows

lower compared to USFS

