

Discussion Topics

- Defining the Wildland Urban Interface (WUI)
- Describing the WUI Problem
- What Berkeley Lab is Preparing For
- Berkeley Lab Wildland Fire Prevention Measures Past,
 Present, and Future

<u>Presenter's Caution:</u> Some of the videos in this presentation may be unsettling, as they show real evacuations in real wildland fire scenarios. Please watch at your discretion.







What is a Wildland Urban Interface?



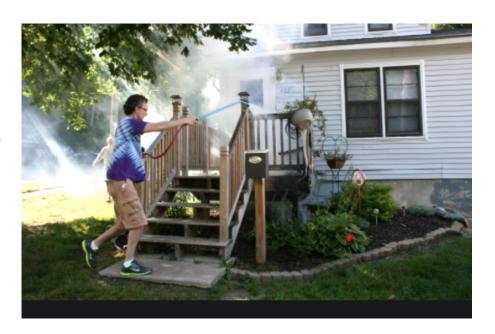
- Zone where structures and human development meet or intermingle with wildland or vegetative fuels
- Area where a wildland fire can potentially ignite homes and businesses





Perception vs Reality

Wildland fire perception



Wildland fire reality





The WUI Issue in the East Bay

- Strong winds, narrow canyons, dry brush
 - "Red Flag" Days
 - Seven in 2020 to date
- The East Bay Hills have had Diablo-driven wildland fires thirteen times since 1923:
 1923, 1931, 1933, 1937, 1940, 1946, 1955, 1960, 1961, 1968, 1970, 1980, and 1991.









Forest Overgrowth











- PAST EFFORTS
- Allocation of over \$8 million in resources to the reduction of the wildland fire risk both to and from the Berkeley Lab and the surrounding region
- A massive tree removal effort in 1995-1998 removed several hundred eucalyptus trees



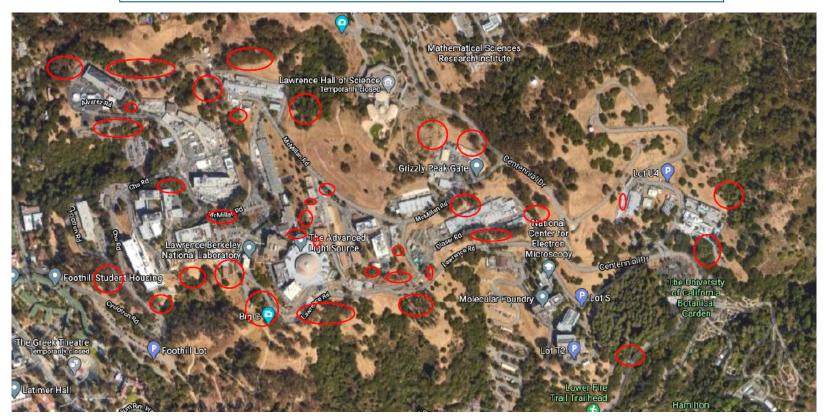








- RECENT EFFORTS
- Active tree removal, ground cover restoration, and annual fuels reduction since the 2010s









- RECENT EFFORTS
- Vegetation Management
 - Thinning and trimming of trees and understory
 - Removal of "high hazard trees"
 - Goats and ground cover

BEFORE













- CURRENT EFFORTS
- Vegetation Management
 - Property Line Fire Break reduces potential fire spread both to and from the Berkeley Lab













- CURRENT EFFORTS
- Leadership in the Hills Emergency Forum (HEF)
- Regional Issue Focus and Partnerships
- Annual Fuels Reduction









Berkeley Lab Wildland Fire Risk Mitigation - Infrastructure

- Building Construction
 - All new buildings use noncombustible concrete and steel
 - All occupied buildings have fire sprinkler protection
 - Class A roofs
 - Fire Protection Water Supplies
 - Roads and Buildings serve as active fire breaks
 - Comprehensive Vegetation Management Plan

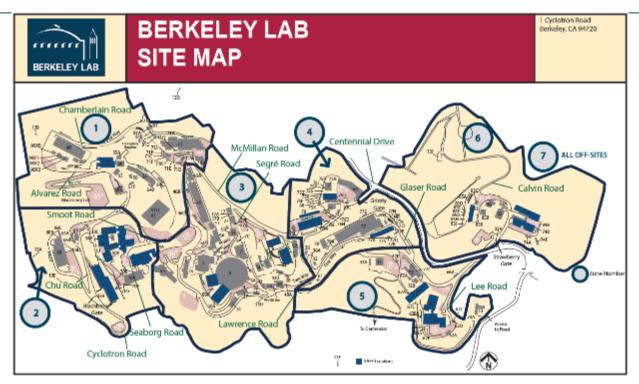






Wildland Fire Risk Mitigation at Berkeley Lab

- Evacuation Planning Emergency Management Zones and Building Plans
- Site Evacuation may not be possible
- Relocation to other buildings vs. evacuating









What Can You Do? Tips for the Home

- Fuel Management and Reduction is a Collaboration
- 2. Create a Defensible Space around your home
- Be Aware of Ember Threats
- 4. Home Improvements Fire Resistive Construction
- Be Informed, be Prepared nfpa.org

BACKPACK EMERGENCY GO Kit!









RESIDENTS REDUCING WILDFIRE RISKS







Questions?

Thank You