

USDA Forest Service

URBAN FOREST CONNECTIONS

webinar series

Second Wednesdays | 1:00 – 2:15 pm ET

www.fs.fed.us/research/urban-webinars



PLANNING IN THE WILDLAND-URBAN INTERFACE



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Land Use Planning Solutions in the WUI



Urban Forest Connections Webinar | Molly Mowery, AICP | June 12, 2019



American Planning Association

Creating Great Communities for All

PAS REPORT 594

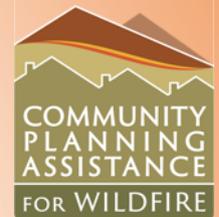
PLANNING THE WILDLAND-URBAN INTERFACE

Molly Mowery, AICP, Anna Read, AICP, Kelly Johnston, RPF, and Tareq Wafaie, AICP

AUTHORS

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Community Planning Assistance for Wildfire



ARIZONA

Flagstaff
Pinetop-Lakeside

CALIFORNIA

Mammoth Lakes
Mariposa County
Redding
San Diego

COLORADO

Boulder County
Gunnison County
Huerfano County
San Luis Valley
Summit County

IDAHO

Boise

MINNESOTA

Bemidji

MONTANA

Lewis & Clark County
Missoula County
Park County

NEW JERSEY

Township of Ocean

NEW MEXICO

Los Alamos
Santa Fe
Taos County

OREGON

Ashland
Bend
Sisters
Wasco County

TENNESSEE

Pigeon Forge

WASHINGTON

City of Chelan
Chelan County
Wenatchee

TEXAS

Austin

SOUTH DAKOTA

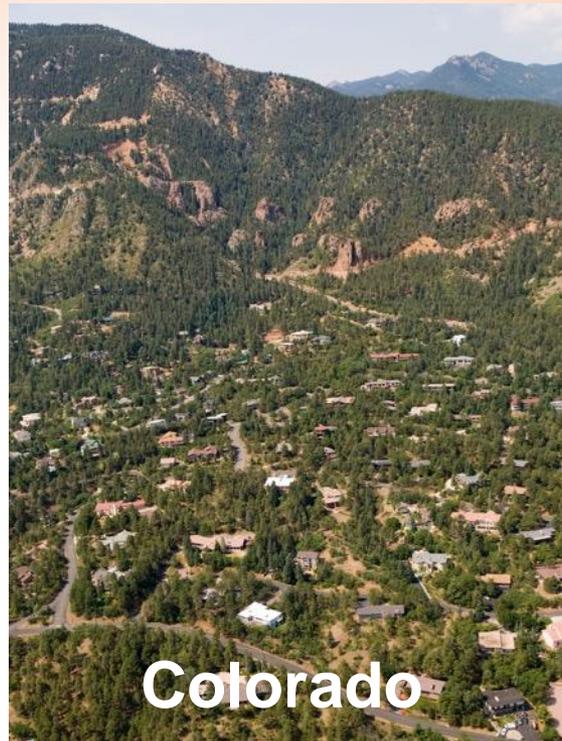
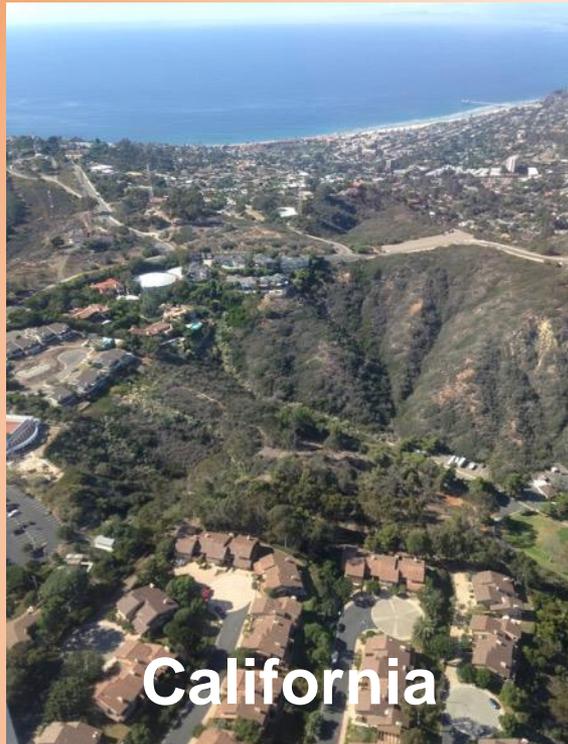
Deadwood



● 2019 CPAW Communities
● Prior CPAW Communities

planningforwildfire.org

Expanding our *perception* of the WUI



WUI characteristics and wildfire impacts



WILDLANDS



INTERMIX



INTERFACE



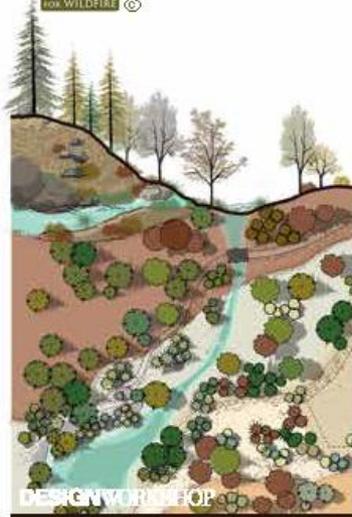
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EMBER ZONE



CONTINUUM OF WILDLAND TO URBAN DENSITIES



WILDLANDS



RURAL



SUBURBAN



GENERAL RESIDENTIAL



URBAN / TOWN CENTER

Land use & destruction patterns – low density



Black Forest Fire, 2013 (Colorado)

Credit: CBS Denver

Land use & destruction patterns – high density



Highway 31 Fire, 2009 (South Carolina)

Credit: SC Forestry Commission

Wildland fuels
+
Built fuels



Image Credit: WPI

Wildland fuels
+
Built fuels



Image Credit: WPI

Wildland fuels
+
Built fuels



Image Credit: WPI

**Wildland fuels
+
Built fuels**



Image Credit: WPI

Wildland fuels
+
Built fuels



Image Credit: WPI

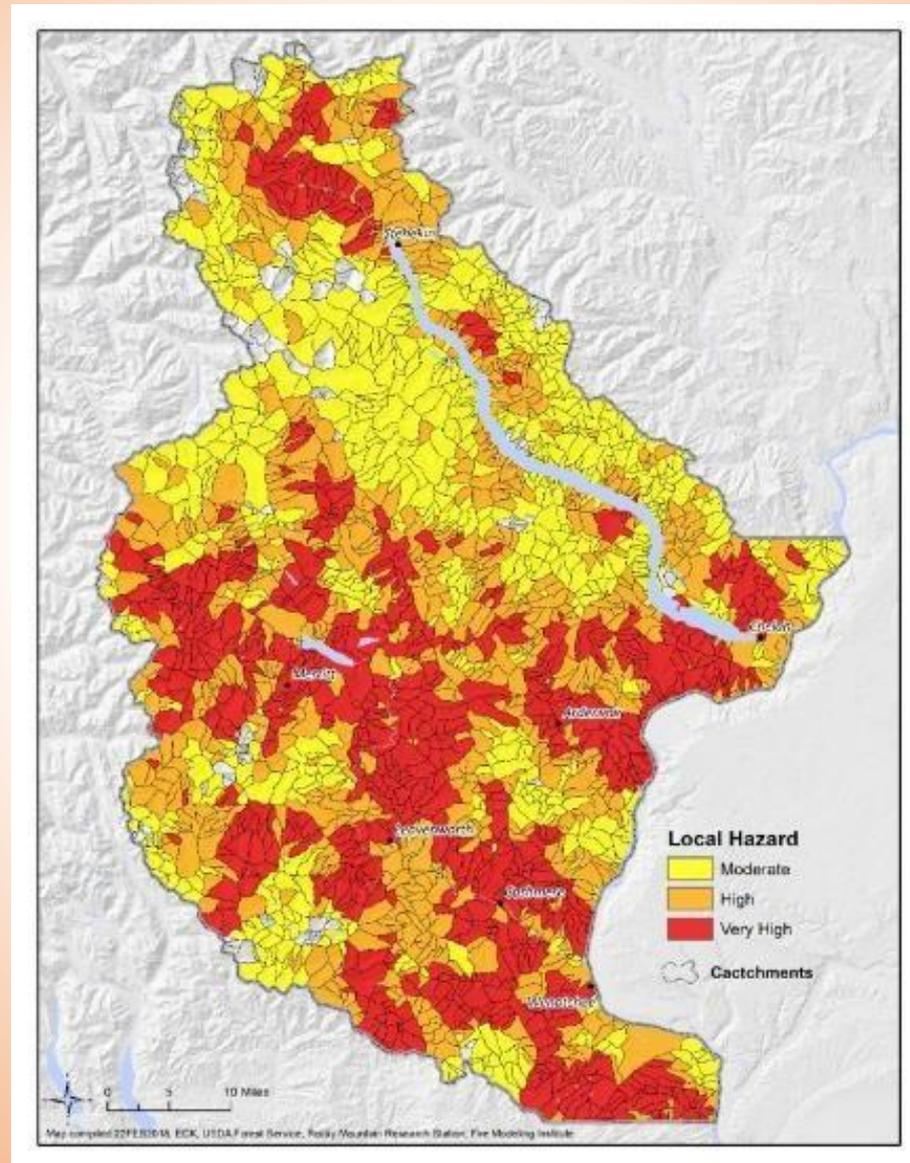
Plans

- Comprehensive Plans
- Parks and Open Space Plans
- Watershed Plans
- Climate Adaptation and Mitigation Plans
- Resiliency Plans
- Subarea Plans
- Capital Improvement Plans
- Hazard Mitigation Plans
- Community Wildfire Protection Plans

Regulations

- Subdivision Regulations
- Zoning/ Land Development Code
- Building Code
- Fire Code
- WUI Code

Community Scale: Growth and Development



Community Scale: Land Uses



Image Credit: WPI

Community Scale: Parks and Open Space



Image Credit: WPI

Subdivision Scale: Water Supply & Access



Image Credits: WPI

Subdivision Scale: Setbacks



Sleepy Hollow Fire, 2015 (Washington)

Subdivision Scale: Vegetation Management



Image credit: National Interagency Fire Center

Waldo Canyon Fire, 2015 (Colorado)

Building/Lot Scale: Property Landscaping



Image Credit: City of Wenatchee, WA

Sleepy Hollow Post-Fire Neighborhood, 2015 (Washington)

Building/Lot Scale: Property Landscaping



Image Credits: South Carolina Forestry Commission

Highway 31 Fire, 2009 (South Carolina)

Credit: SC Forestry Commission

Building/Lot Scale: Materials & Attachments



Image Credit: Tennessee Division of Forestry



Image credits: Kelly Johnston, WPS

Integrating WUI concepts

- Federal and state requirements
- Local plans and policies
- Local codes and regulations



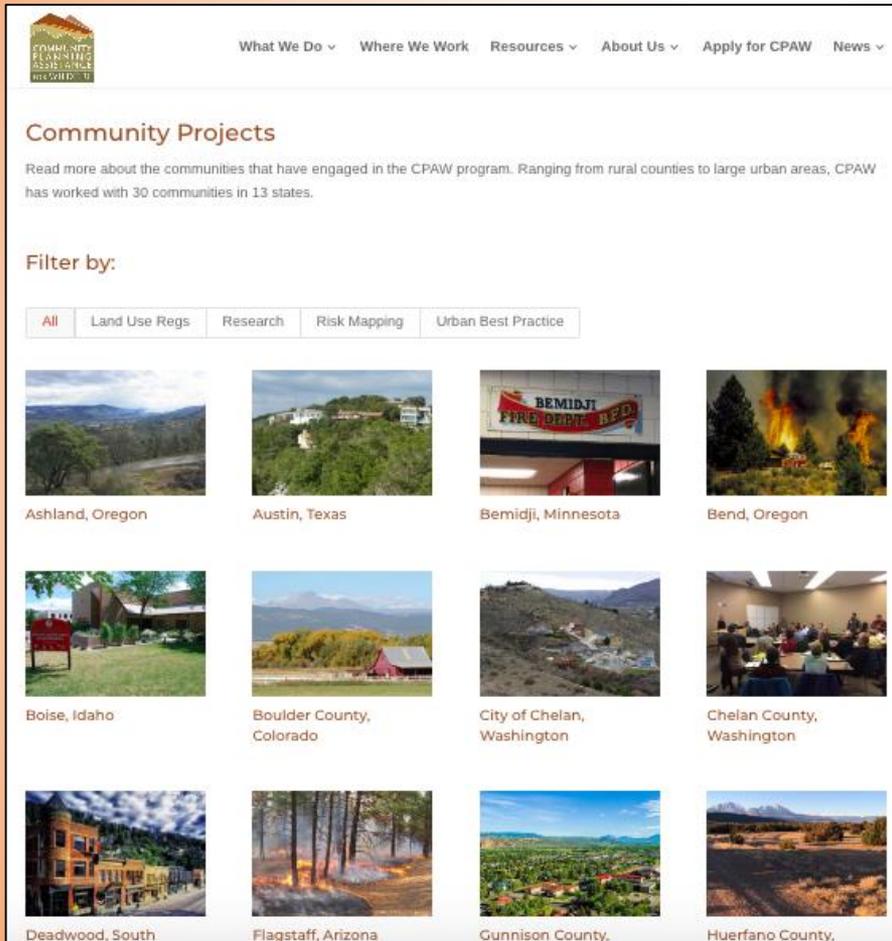
Collaboration

- Land managers & natural resource specialists
- Fire departments
- Educators
- Developers, builders
- Homeowner associations
- Other resource and industry professionals

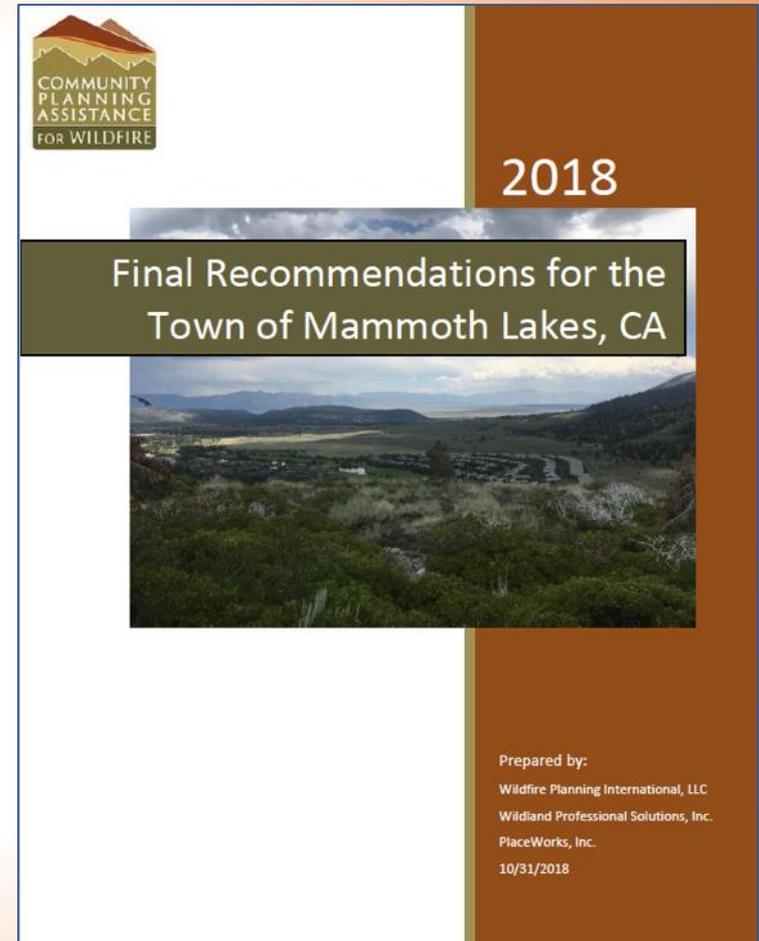


Image Credits: CPAW, WPI

Learning and Sharing



The screenshot shows the website for Community Planning Assistance for Wildfire. At the top, there is a navigation menu with links: What We Do, Where We Work, Resources, About Us, Apply for CPAW, and News. Below the menu is the 'Community Projects' section, which includes a brief description: 'Read more about the communities that have engaged in the CPAW program. Ranging from rural counties to large urban areas, CPAW has worked with 30 communities in 13 states.' A 'Filter by:' section contains buttons for 'All', 'Land Use Regs', 'Research', 'Risk Mapping', and 'Urban Best Practice'. The main content area displays a grid of 12 project cards, each with a representative image and a location name: Ashland, Oregon; Austin, Texas; Bemidji, Minnesota; Bend, Oregon; Boise, Idaho; Boulder County, Colorado; City of Chelan, Washington; Chelan County, Washington; Deadwood, South; Flagstaff, Arizona; Gunnison County; and Huerfano County.



The cover of the report features the 'COMMUNITY PLANNING ASSISTANCE FOR WILDFIRE' logo in the top left corner. The year '2018' is prominently displayed in the top right. The title 'Final Recommendations for the Town of Mammoth Lakes, CA' is centered in a dark green banner over a scenic landscape photograph. In the bottom right corner, the text reads: 'Prepared by: Wildfire Planning International, LLC; Wildland Professional Solutions, Inc.; PlaceWorks, Inc. 10/31/2018'.

planningforwildfire.org



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**Wildfire Planning
International**