Marin Community Wildfire Protection Plan (CWPP)

2020 Refresh Project

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Introduction

- Marin CWPP 2020 Refresh Project
- Project funding
  - Marin County Fire Department (MCFD)
  - FEMA Grant: Marin County Hazard Mitigation Plan
- Project team and stakeholders
Introduction

- Since 2017, wildfires in California have been the deadliest and most destructive in recorded history.
- 2017 brought 5 of the top 20 most destructive WUI fires, including the Tubbs fire in nearby Napa and Sonoma counties.
- 2018 again brought several large, destructive fires in northern California (Mendocino Complex, Carr, and Camp fires).
- 2020, more than 4 million acres burned in California the most in State history.

As the number of acres burned and property/structure loss increases, more attention has been directed at pre-fire planning and public preparedness throughout California.

Photo credit: CALFIRE
Recent Developments and Accomplishments

• Board of Supervisors Lessons Learned 2017 North Bay Fires & Marin Civil Grand Jury Report – Wildfire Preparedness: A New Approach; April 2019
• Passage of tax Measure C in March 2020
• Formation of the Marin Wildfire Prevention Authority (MWPA)
• Since 2017
  – Overall increased emphasis on emergency preparedness
  – Increased number of inspections throughout the County
  – Increased number of Firewise Communities
  – Increased outreach and training focused on home hardening, defensible space, and fire smart plants
  – Development of local-scale hazard assessments & CWPPs
  – Development of MWPA priorities
Recent Developments and Accomplishments

MWPA priorities and funding

- Improvements to alert and warning systems and evacuations
- Vegetation management for fire hazard reduction
- Grant program
- Public education
- Defensible space and home hardening evaluations
- Local wildfire prevention mitigation
- Ecologically Sound Practices (ESP) partnerships
Updated Fuels Map

What is a fuels map?

A fuels map is a vegetation map with associated topography and biomass attributes used as inputs for modeling fire behavior potentials.
County-Level Fire Hazard Assessment
Preliminary Results – Peak Fire Conditions
Parcel-Level Fire Hazard Assessment Approach

**Step 1**
Prepare parcel map and assessor records

- Year built
- Total area and perimeter
- Assessed value

**Step 2**
Prepare building footprint map & ignition zone buffer

**Step 3**
Prepare local weather and fuel moisture data

- Flame length
- Rate of fire spread
- Burn probability

**Step 4**
Perform fire behavior modeling

**Step 5**
Perform suitability modeling to develop composite map of potential fire hazard and threat

200' Home Ignition Zone Buffer
Parcel Boundary
Building Footprint
Flame Length (From FlamMap)
Rate of Spread (From FlamMap)
2020 CWPP Refresh – Other Activities & Updates

- Solicited comments and feedback from stakeholders
  - FIRESafe MARIN
  - Marin Municipal Water District (MMWD)
  - Marin County Parks and Open Space
  - State Parks & National Park Service
  - Fire Agencies
  - Marin Conservation League
- Updated Project Priority List from the current Appendix B
- Online, interactive county-level and parcel-level maps to be posted
- Added/updated sections to address specific issues such as invasive species and environmental considerations, climate change, etc.
- Added data from Collector App (inspection data)
- Updated mitigation recommendations based on accomplishments
Mapped Data from Collector App (inspection data)

- Properties inspected
- Structures with wood roofing
Section 8
Mitigation Measures

- Public & Community Outreach
- Wildfire Preparedness & Planning
- Reducing Structural Ignitability
- Defensible Space
- Vegetation Management

- Non Residential Vegetation Management
- Evacuation Planning & Preparation
Section 9
Recommendations & Action Plan

- Encourage & support public & community outreach
- Improve and encourage actions to reduce structural ignitability
- Continue to improve defensible space
- Continue to improve vegetation mgt practices
- Continue to focus efforts on improving alert and warning systems & evacuation planning
- ID and evaluate wildland fire hazards
- Support Implementation of Wildland Fire Protection Plans
Questions and Discussion