

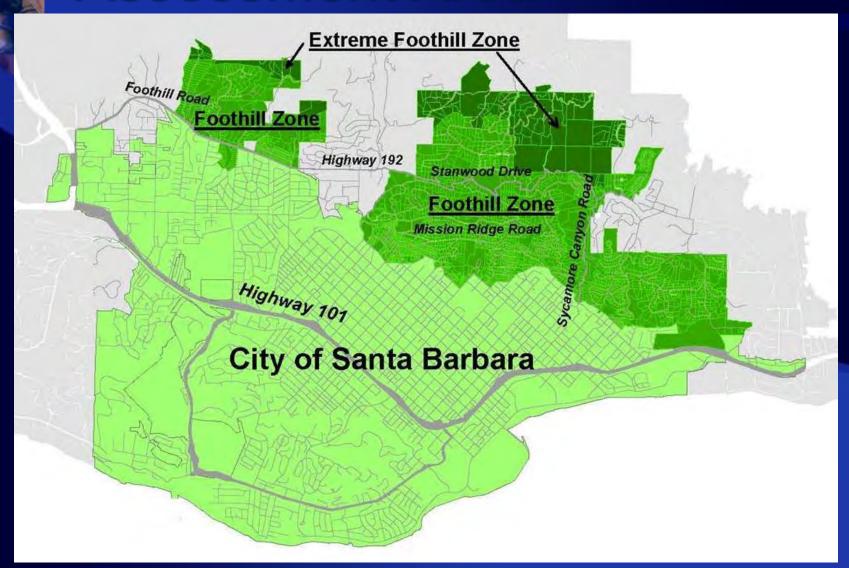
Wildland Fire Suppression Assessment District



# History

- July 11, 2006 City Council approved formation of Assessment District to fund specific services to reduce the impacts associated with wildfire
- Duration: One year
  - Allowing for an annual renewal

# **Assessment Area**

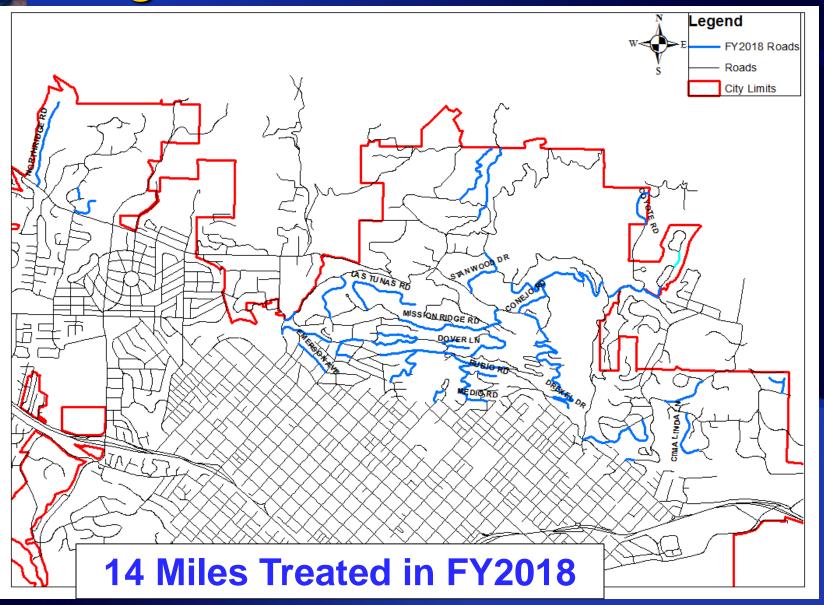




## WFSAD Services

- Vegetation Road Clearance (Sept. Jan.)
- Defensible Space Assistance
  - Voluntary Evaluations
  - Chipping Services (March-June)
- Vegetation Management
  - Community Fuels Treatment Network and Vegetation Management Units
    - Identified and prioritized in City Wildland Fire Plan

# Vegetation Road Clearance



# Chipping Services

- Encourages property owners to create defensible space
- Provides a cost effective way to dispose of material
- Over 300 tons of flammable vegetation removed in FY2018
- 3500 tons removed since 2008
- 100% of the chips recycled in FY2018





Chipping available to all Assessment District residents





# Vegetation Management



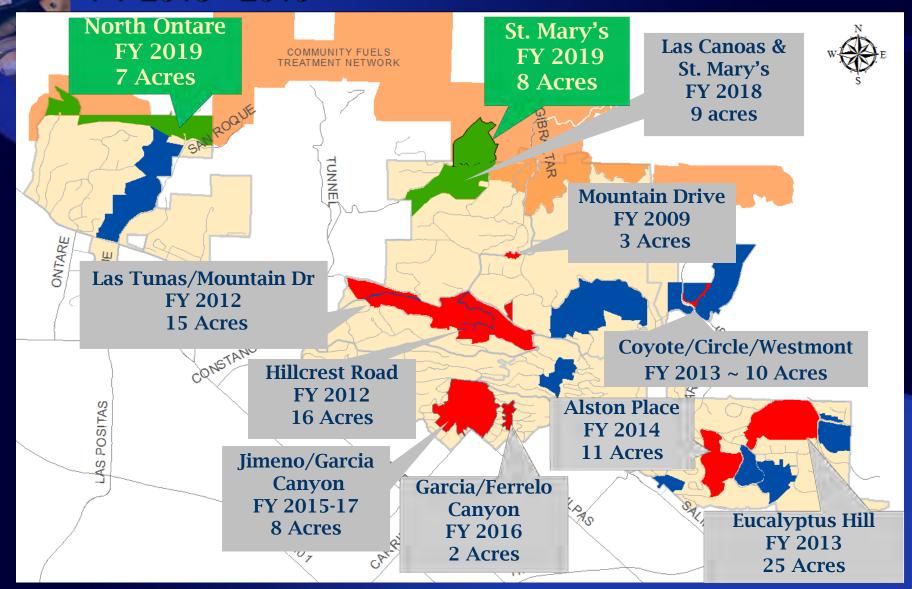
## **Challenges**

- Biological Requirements
- Limited Access

- Remove FlammableVegetation
- Remove Ladder Fuels
- Reduce Fuel Load 30-60%
- Remove Dead Vegetation
- Remove Exotic and Invasive Plant Species
- Protect natural resources, special status species (i.e. plants and animals)

# **Project Areas**

FY 2018 - 2019





- City of Santa Barbara FY2018
   Community Fuels Hazard
   Reduction Project
- •\$17,500 with 100% match
- Added funding for vegetation management
- Focus on the Community Fuels
   Treatment Network
- Project work will be completed in FY2019







# Wildland Program Funding FY 2019

General Fund Appropriation \$200,000



Wildland Fire Suppression Assessment Fund \$272,404

**Total Funding =** \$472,404



## Renewal Process

An Engineer's Report is required in the adopting resolution

CPI Increase of 3.6%

### Rate for 2018-2019:

\$82.20 per single family parcel-Foothill Zone

\$101.93 per single family parcel-Extreme Foothill





# Projects FY 2019

- Vegetation Road Clearance
- Chipping Services
- Voluntary Defensible Space Evaluations
- Complete Community Fuels Treatment Network vegetation management project





Assessing the Effectiveness of Fire
Management Strategies in the Wildland
Urban Interface: A City of Santa Barbara
Case Study

A Group Project submitted in partial satisfaction of the requirements for the degree of Master of Environmental Science and Management for the Bren School of Environmental Science & Management

Prepared By: Nico Alegria, Juliana Matos and Sarah McCutcheon Project Advisor: Dr. Sarah Anderson



## APPENDIX G – Letter and Brochure to California Association of Council of Governments

# Implementing a Wildland Fire Suppression Assessment District

Dear California Association of Council of Governments,

As we enter our fifth year of the historic California drought, and with the fire season quickly approaching, it is necessary to take all precautions to protect the safety and wellbeing of your constituents. In an effort to protect your citizens, it may be in your city's best interest to implement a special assessment district that levies annual fees for enhanced and increased fire protection. The City of Santa Barbara is the first city in the country to implement such a district, and for the past nine years since voter approval it has shown great success. The fire department implements the district, and the funds raised from the district augment the yearly expenses, allowing for better fire protection of homes in the wildland urban interface. A multi-criteria analysis shows that your city would also benefit from a similar district due to its weather, topography, and demographics. For more general and Santa Barbara-specific information, please review the attached fact sheet.

Sincerely,

Nico Alegria, Juliana Matos, Sarah McCutcheon Bren School of Environmental Science & Management



### Assessing the effectiveness of fire mitigation strategies in the wildland urban interface



Group Members: Nico Alegria | Juliana Matos | Sarah McCutcheon | Faculty Advisor: Dr. Sarah Anderson

#### Fire in California



While Rays are a natural and necessary part of marry feaffify ecosystems, they can also be a destructive force eiten. they impact human communities. Due to fire

appression, human disturbance, invalor posts, and climatic changes, fires in many areas now burn hotter and larger than they would have historically. Even fire-edapted ecosystems are: threatened by the increasing fire intensity, and recent studies show that fire frequency and severity may increase with a wanning climate.

> Setween 2004 and 2013. California experienced 37,432 from 1.5 million serve burners

\$4 billion instrum free

#### City of Santa Barbara's Wildland Fire Suppression Assessment District

To mitigate the risks from wildland fire, the City of Santa Barbara Fire Department created a one-of-its-kind Wildland Fire Suppression Assessment District

In exchange for a yearly fee of 565, residents receive additional fire protection services, such as:

- . Depring chapping
- Roedside destrunce.
- Defensible space inspections Vegetation management

Homas by militing from the District fall within areas of bigo fire Bazand.



Defensible space is one of the top Indicators for whether or not a home will survive a fire, making it an important service for residents to use.

#### Objectives



overall position of residents constitute fire mitigation special assessment district

Assess the effection reasons TO A THAT BE RETRIEFED. manhorite

sentiny other cities that may benefit. from a fire suppression district

#### **Determining Residents' Opinions**

Approval of the District in the Agree that the Dates to develop to



The recognising approval by residents of the special assessment district proves that there is vast potential for other cities to benefit from a arrow fire miligation program.

is fact, 72% of survey respondents living within the District said that they believe the fire mitigation program creates a safer community.

We repeived survey responses from 480 residents in the District and 92 residents of the roastal areas. Both surveyed regions are classified as high fire hazard areas, 70% of residents in the District rad high fire risk perception, where 70% of resignets in the coastal areas had low or medium fire risk

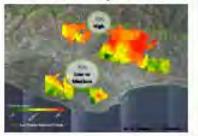


#### Strategic communication



Strategic communication efforts such as madings and social media outreach can help increase awareness. of the true fire risks residents face while living in Their Twightorhoods.

#### Fire Risk Perception in High Fire Hazard Areas



#### Assessing Vegetation Management Effectiveness



Flame Length (ft) Comparisons

5 mph	Obmitted worlds)	60 mph (Sant	a Anii wints)
- po-	- post	PIR	poid-
17.5	- 0.0	680-	17.2

Vegetation management reduces flame length goes. under Santa Ana conditions. Fuel removal returns flame lameth under Santa Ana conditions to baseline conditions are-treatment, making firelighting efforts less challenging. This once egain emphasizes the immortance of defensible space around structures.

## NewTorship Between Fire Risk and Fuel Removal William Report to



he more the better!



The linearity of response to feel removal. indicates that more removal is better. in chaparral ecosystems, rate of spread is not affected until approximately 25% of fuel is removed. This highlights the importance of a quick response time by the fire department.

#### **Finding Other Suitable Cities**

Once we found that residents approve of the District and that if is successful in reducing fire risk, we conducted a multi-criteria decision analysis in ArcGIS to identify other cities that would benefit from a similar fire mitigation program. To do this, we used expert input to determine indicators that ensure suitability.

Indicators of Suitability;

- WUI cities that fall within wildland grown interface.
- Fire Frequency cities with more frequent wildfire events.
- Vegetation cities with flammable vegetation
- Tupography cities with vivop slopes.
- IRAs cities that are not a part of State Responsibility Areasto avoid double taxation.



Program adoption

Given the success of the unique Santa Barbara District, other cities should consider adopting Special Assessment Districts. The more other than are protected, the better off California

#### Conclusions



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#### Acknowledgements

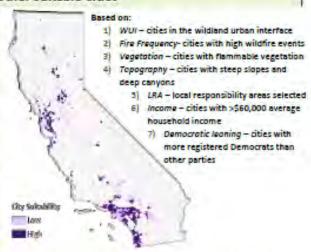
We would the to there the following people for making this project. possible: Serah Anderson, Ann Marx, Joe Foire, Chris Braden, Pat. McElroy, Best Best, John Blass, John Ahlman and the Fire Sale Council.



#### Other Suitable Cities

American Canyon Napa Anaheim Novato Antioch Oakland Pacifica Azusa Brentwood **Palm Springs** Brisbane Palmdale Calistoga Pasadena Chico Pernis Chino **Petaluma** Chula Vista Pittsburg Claremont Pleasanton Cloverdale Rancho Cordova Colton Rielto Richmond Concord Crescent City Riverside Sacramento Cupertino Diamond Bar San Bernardino Eastvale San Diego El Cerrito San Francisco Fairfield San Jose Fontana San Luis Obispo Fremont San Rafael Gilroy Santa Barbara Hayward Santa Cruz Santa Rosa Healdsburg Hercules Saratoga Jurupa Valley Seaside Lakeport Sierra Madre Lompoc Sonora South San Los Angeles Francisco Los Gatos St. Helena Mammoth Lakes Tracy Marina Truckee Martinez Union City Mill Valley Vacaville Milpitas Vallejo Monrovia Walnut Monterey Walnut Creek Whittier Moreno Valley Morgan Hill Windsor Woodside Morro Bay

FIND YOUR CITY ON THIS LIST AND START THE JOURNEY TOWARD PROTECTING YOUR RESIDENTS FROM WILDFIRES!



#### IMPLEMENTING A FIRE MANAGEMENT DISTRICT

In compliance with Proposition 218, any new fee, assessment, levy, tax, etc. for a special assessment district must be approved by the constituents in the district. Unlike a tax, which requires two-thirds voter approval, only a majority vote, weighted proportionally for each property, is needed for a benefit assessment. To begin the process, a notice of the assessment is posted, and an assessment ballot is mailed to property owners within the district. There must be a 45-day return period, followed by a public hearing. If approved, the City Council takes action by a resolution to levy the assessment. After the initial vote, the City Council votes yearly for renewal. There must also be a public meeting to preliminarily approve a budget for the next year's costs and services, which are supported yearly by an engineer's report. The report must include the consumer price index adjustment, the new maximum authorized assessment rate, the yearly budget, and the amount to be charged to each parcel.

#### CONTACT INFORMATION

For more on the findings of this project, visit bren.ucsb.edu/~sbfire For more about Santa Barbara's Wildland Fire Suppression Assessment District, contact Chris Braden, 805-564-5737

Fore more on how to get started on implementing a special assessment district, contact John Bliss, Vice President of SCI Consulting Group at 707-430-4300

