RESOLUTION NO. 2019-94

A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE COUNTY OF NAPA, STATE OF CALIFORNIA ADOPTING THE NAPA COUNTY DEFENSIBLE SPACE GUIDELINES

WHEREAS, on July 23, 2019, the Board of Supervisors adopted an ordinance to amend Chapter 8.36 of the Napa County Code which sets forth procedures for abating fire hazards in the unincorporated areas of Napa County; and

WHEREAS, the County now desires to adopt this Resolution amending the Napa County Defensible Space Guidelines for compliance with Chapter 8.36.

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of the County of Napa as follows:

1. The above recitals are true and correct.

2. This Resolution shall become effective on the 31st day following adoption of Ordinance No. 1443.

3. The attached Napa County Defensible Space Guidelines (dated June 2019), are hereby adopted.

THE FOREGOING RESOLUTION WAS DULY AND REGULARLY ADOPTED by the Board of Supervisors of the County of Napa, State of California, at a regular meeting of the Board held on the 23nd day of July, 2019, by the following vote:

| AYES: | SUPERVISORS | PEDROZA, WAGENKNECHT, DILLON, RAMOS and GREGORY |
|----------|-------------|-------------------------------------------------|
| NOES: | SUPERVISORS | NONE |
| ABSTAIN: | SUPERVISORS | NONE |
| ABSENT: | SUPERVISORS | NONE |

NAPA COUNTY, a political subdivision of the State of California

By:

RYAN GREGORY, Chair of the Board of Supervisors

| APPROVED AS TO FORM | APPROVED BY THE NAPA COUNTY | ATTEST: JOSE LUIS VALDEZ |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|
| Office of County Counsel | BOARD OF SUPERVISORS | Clerk of the Board of Supervisors |
| By: <u>Shana A. Bagley (e-sign)</u> Deputy County Counsel Date: <u>July 10, 2019</u> | Date: July 23, 2019 Processed By: Deputy Clerk of the Board | By: The Aug Valor |

ATTACHMENT A



Napa County Defensible Space Guidelines June 2019

A. Purpose

These guidelines are intended to provide minimum requirements for fuel modification measures for property owners to create defensible space around structures and are to be used in conjunction with Napa County Code Chapter 8.36. A defensible space perimeter provides firefighters with a safer working environment that allows them to protect structures from encroaching wildfires and minimizes the chance that a structure fire will escape to the surrounding area.

The vegetation surrounding a structure is fuel for a fire. Research and experience have shown that fuel modification within 100 feet of a structure increases the probability of withstanding a wildfire. *Fuel reduction and modification through vegetation management is the key to creating good defensible space.*

B. Definitions

Aerial Fuels: All live and dead vegetation in the tree canopy or above surface fuels, including tree branches, twigs and cones, snags, moss, and high brush.

Defensible Space: means the area around a structure within a 100-foot radius or to the property line, whichever is less, in which combustible vegetation and other prohibited materials must be treated, cleared, or reduced to slow the spread of fire to and from the structure. The obligations under Napa County Code Chapter 8.36 pertaining to maintenance of defensible space around any structure include the obligation to establish and maintain a buffer within 30 feet of any structure and a reduced fuel zone that extends to 100 feet away from a structure or to the property line adjacent to the structure if less than 100 feet from the structure.

Ladder Fuels: Fuels that can carry a fire vertically between or within a fuel type.

Prohibited Materials: Combustible vegetation, green waste, rubbish, or weeds as defined in Napa County Code section 8.36.030. "Fuel" means the same as "prohibited materials."

Reduced Fuel Zone: The area between 30 and 100 feet away from a structure.

Structure: Any constructed building or improvement used for shelter, support, or any other use or occupancy.

Surface Fuels: Loose surface litter on the soil surface, normally consisting of fallen leaves or needles, twigs, bark, cones, and small branches that have not yet decayed enough to lose their identity; also grasses, low and medium shrubs, tree seedlings, heavier branches, and downed logs.

C. Defensible Space Considerations

Arrange planted and native trees, shrubs, and other fuel sources in a way that makes it difficult for fire to transfer from one fuel source to another. <u>This does not mean cutting down all trees and shrubs</u>, or creating a bare ring of soil across the property.

Tree cutting or removal may require a permit from a State agency. For example, a permit is required from the California Department of Forestry and Fire Protection (CAL FIRE) to remove trees that are used for commercial purposes.

Vegetation (grasses, shrubs, and trees) provides valuable ecological functions by maintaining and improving water quality, providing habitat for terrestrial wildlife, and shading and protection for aquatic species (fish) when adjacent to rivers, streams, and drainages. Removal and the modification of vegetation can cause soil disturbance, soil erosion, and can introduce non-native invasive plants that harm native environments. Always keep soil disturbance to a minimum, especially on steep slopes.

Special permits may be required, and extreme care must be taken, in areas near springs, ponds, streams, and watercourses. Erosion prevention techniques such as minimizing use of heavy equipment, avoiding stream or gully crossings, using mobile equipment during dry conditions, and re-vegetating all disturbed soil areas can help reduce soil erosion.

Avoid removing vegetation associated with wet areas or water (springs, ponds/lakes, and watercourses) and using heavy equipment in these areas. Clearing/removal or modifying vegetation in regulated stream setback areas requires special controls and supervision as well as permits from local and state agencies. Please contact the Napa County Planning, Building & Environmental Services Department for direction prior to removing vegetation in these areas. It is not necessary to clear vegetation to bare mineral soil to establish adequate defensible space; this can cause unwanted erosion/soil loss and invasive weeds.

D. Fuel Treatment Requirements

In order to comply with the Napa County Fire Hazard Abatement Ordinance, all property owners shall implement Fuel Treatment Requirements 1, 2, 3, and either 4a or 4b, as described below:

1. Maintain a buffer by removing and clearing all prohibited materials within 30 feet of each structure. Single specimens of trees or other vegetation may be retained provided they are well-spaced, well-pruned, and create a condition that avoids spread of fire to other vegetation or to a structure. Remove all tree limbs that are touching a structure or are within 10 feet of a chimney or stovepipe. Do not store firewood within 30 feet of any structure.

2. Remove dead and dying woody surface fuels and aerial fuels within the Reduced Fuel Zone. Loose surface fuels shall be permitted to a maximum depth of 3 inches. This requirement is primarily intended to eliminate trees, bushes, shrubs, and surface debris that are completely dead or with substantial amounts of dead branches, leaves, or needles that would readily burn.

3. Provide at least 100 feet of defensible space around all structures on the property, or to the property line if it is less than 100 feet from the any structure. While 100 feet is a minimum, brushes and shrubs may require longer clearance distances depending on topography and fuel loads.

When a building is less than 100 feet from a property line and prohibited materials on an adjacent parcel present a fire hazard for the building, the owner of the parcel where the hazard exists shall be responsible for fuel modification, on that owner's land, which is within 100 feet of the structure to the extent required.

Property owners of vacant parcels one acre or less in size shall maintain fuel on their property consistent with the fuel treatment requirements.

Remove downed logs or stumps anywhere within 100 feet from a structure, unless embedded in the soil and isolated from other vegetation. Standing dead trees (snags) may be retained provided that they occur at a rate of approximately one per acre, are well-spaced from other vegetation, and will not fall on structures or on roadways/driveways.

4. Within the Reduced Fuel Zone, one of the following fuel treatments (4a or 4b) shall be implemented. Properties with greater fire hazards will require greater vegetation management and fuel treatments. Additional removal of surface fuels outside of the required 100 foot zone might be needed to provide adequate defensible space. Combinations of the methods may be acceptable as long as the intent of these requirements is met.

4a. <u>Reduced Fuel Zone: Defensible Space with Continuous Tree Canopy</u> (*this is the preferred method*).

To achieve defensible space while retaining a stand of larger trees with a continuous tree canopy, apply the following treatments:

• Remove all surface fuels greater than 4 inches in height. Single specimens of trees, shrubs, or other vegetation may be retained provided they are well-spaced, well-pruned, and create a condition that avoids spread of fire to other fuel types or to a structure.

• Remove lower limbs of trees ("prune") to at least 6 feet up to 15 feet (or the lower 1/3 branches for small trees). Properties with greater fire hazards, such as steeper slopes or more severe fire danger, will require pruning heights in the upper end of this range.

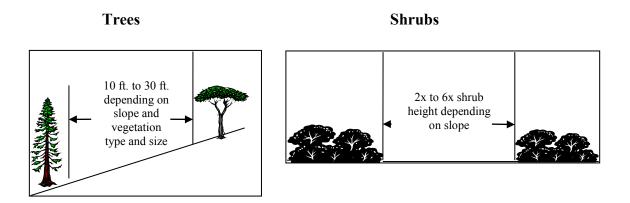
4b. Reduced Fuel Zone: Fuel Separation

In conjunction with Fuel Treatment Requirements 1 through 3, maintain a minimum distance between fuels surrounding each structure from 4 feet to 40 feet in all directions, both horizontally and vertically.

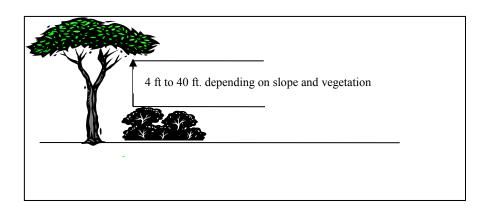
3 Napa County Defensible Space Guidelines - June 2019 Buffer distances between vegetation will depend on the slope, vegetation size, vegetation type (brush, grass, trees), and other fuel characteristics (fuel compaction, chemical content, etc.). Properties with greater fire hazards will require greater buffers between fuels. For example, properties on steep slopes having large sized vegetation will require greater spacing between individual trees and bushes. Groups of vegetation (numerous plants growing together less than 10 feet in total foliage width) may be treated as a single plant. For example, 3 individual manzanita plants growing together with a total foliage width of 8 feet can be "grouped" and considered as one plant and spaced accordingly. See Plant Spacing Guidelines, below.

Clearance requirements include:

• <u>Horizontal clearance</u> between aerial fuels, such as the outside edge of the tree crowns or high brush.



• <u>Vertical clearance</u> between lower limbs of aerial fuels and the nearest surface fuels and grass/weeds. Vertical clearance removes ladder fuels and helps prevent a fire from moving from the shorter fuels to the taller fuels.



PLEASE CONSULT LOCAL AND STATE AGENCIES TO DETERMINE IF PERMITS ARE REQUIRED

| | PLANT SPACING GUIDELINES | | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--|
| | These guidelines are designed to break the continuity of fuels and be used as a "rule of thumb" for achieving compliance with the | | |
| | Napa County Fire Hazard Abatement Ordinance (Napa County Code chapter 8.36). | | |
| | Minimum horizontal space | | |
| | from edge of one tree canopy to the edge of the next | | |
| TREES | Slope | Spacing | |
| | 0% to 20% | 10 feet | |
| | 20% to 40% | 20 feet | |
| | Greater than 40% | 30 feet | |
| | Minimum horizontal space between edges of shrubs | | |
| SHRUBS | Slope | Spacing | |
| | 0% to 20% | 2 times the height of the shrub | |
| | 20% to 40% | 4 times the height of the shrub | |
| | Greater than 40% | 6 times the height of the shrub | |
| VERTICAL SPACE | Minimum vertical space between top of shrub and bottom of lower tree branches: 3 times the height of the shrub | | |

