

# NELDER GROVE

## NELDER GROVE OVERVIEW

### Relative Overall Vulnerability

**LOW**  
2.4

This grove is ranked **LOW** for Relative Overall Vulnerability due to:

#### Wildfire Vulnerability

**LOW - 0.3**

#### Regen Vulnerability

**LOW - 2.4**

See the [Grove Health & Resilience](#) section below for more information.

### Relative Management Priority

**LOW**  
1.9

This grove is ranked **LOW** for Relative Management Priority due to:

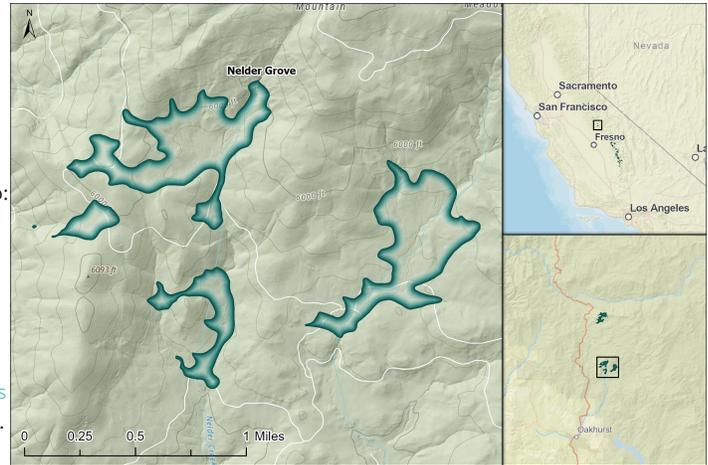
#### Overall Vulnerability

**LOW - 2.4**

#### Treatment Feasibility

**MODERATE - 6.7**

See the [Management Considerations](#) section below for more information.



Grove Map - click map for more detailed spatial information

### Grove Information

Grove Size (Acres)	331
Location	Central Sierra Nevada Watershed, Madera County
Management Unit(s)	Sierra National Forest
Land Steward(s)	USFS SNF, Private

## About Nelder Grove

Nelder Grove is a 331-acre grove in the Central Sierra Watershed region situated between 5,051 - 6,124 feet elevation at 37.43667 °N. It is managed by Sierra National Forest and located in the drainages of Nelder and California Creeks in the Fresno River watershed. The grove is spread between three units with very different conditions: a northern, southern, and eastern unit. Giant sequoias were heavily logged in Nelder Grove before 1900 resulting in the formation of dense, second growth thickets in the eastern unit. In the northern and southern units, an abundance of old growth sequoias were left intact. However, the 2017 Railroad Fire killed a large number of sequoia monarchs in the southern unit. Some notable giant sequoias remain, including the Nelder Tree.

# NELDER GROVE HEALTH & RESILIENCE

LOW  
2.4

Nelder Grove is ranked **Low** for Relative Overall Vulnerability because it is at a **Low** risk of being negatively impacted by the effects of severe wildfire and at **Low** risk for inadequate natural regeneration.

Additionally, Nelder Grove is at **Moderate** risk for negative impacts from drought stress, **Low** levels of tree mortality have been detected in the grove, and the presence and activity of beetles in the grove is **Unknown**. 80.5% of Nelder Grove has burned in large fires since 1984. See below for more detailed information.

**Relative Overall Vulnerability**

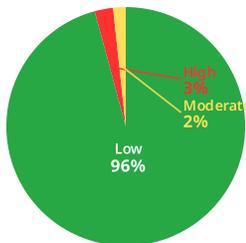
## Components of Relative Overall Vulnerability

**Relative Overall Vulnerability** is based on **Wildfire Vulnerability** and **Regeneration Vulnerability** using an area-weighted calculation. See [Grove Assessment Analysis Methods](#) for more details.

The pie charts below provide the percentage of the grove with high, medium, and low vulnerabilities. Click on the charts to view interactive maps of these vulnerabilities within the grove.

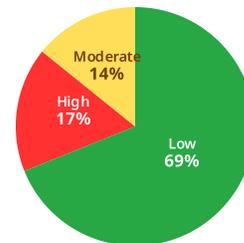
### Wildfire Vulnerability

LOW - 0.3



### Regeneration Vulnerability

LOW - 2.4

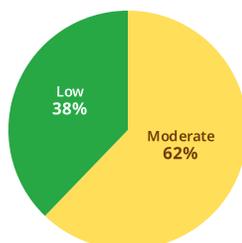


## Additional Grove Health & Resilience Information

Below is additional information about Nelder Grove's Health & Resilience. These data, their inputs, and any available notes and updates may be found in the [Grove Resilience Datasheet](#).

### Relative Drought Stress

MODERATE



Relative Drought Stress in Nelder Grove is Moderate based on an area-weighted average. Click on the chart for an interactive map.

### Beetle Activity

UNKNOWN

Beetle Activity in Nelder Grove has not been determined. Please see the [Grove Resilience Datasheet](#) for details.

### Tree Mortality

LOW

Tree Mortality in Nelder Grove is Low according to the most current available USFS dead canopy data.

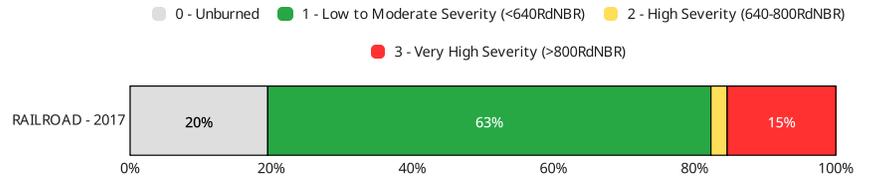
Please see the [Grove Resilience Datasheet](#) for details.

## Wildfire History

The table below provides information about large wildfires in this grove recorded since 1984. See [this map of wildfires and locations of high severity fire](#).

Wildfires	RAILROAD - 2017
% of grove burned	80.5%
% of grove unburned	19.5%
Fire Return Interval Departure	High

The chart below provides the percentages of the grove burned at different levels of severity for each wildfire since 1984.



# MANAGEMENT CONSIDERATIONS

LOW  
1.9

Relative Management  
Priority

Nelder Grove is ranked **Low** for Relative Management Priority because it has **Low** Relative Overall Vulnerability and **Moderate** feasibility for implementing management actions toward restoration goals.

Additionally, the grove is 0.4 miles from a community and contains recreational infrastructure. The grove comprises three sub-sections with very different ecological conditions: Shadow of the Giants (south section), Chimney Tree (east section), and Graveyard of the Giants (west section). Restoration treatments may differ depending on the unit. The grove contains tribal cultural resource sites. See below for more detailed information.

## Components of Relative Management Priority

**Relative Management Priority** is determined by combining the **Relative Overall Vulnerability** and **Treatment Feasibility** ranks. See [Grove Assessment Analysis Methods](#) for more details.

### Relative Overall Vulnerability

LOW - 2.4

See the [Health & Resilience](#) section above for the component metrics for the Relative Overall Vulnerability rank.

### Treatment Feasibility

MODERATE - 6.7

Special Land Designation	Nelder Grove Historical Area
Grove Manager Opinion	Fuel Treatments are Possible but Limited
Remote	No

## Additional Management Considerations

Below is additional information relevant to Nelder Grove's Management Considerations. These data, their inputs, and any available notes and updates may be found in the [Grove Resilience Datasheet](#).

### Treatment History

The table below lists treatment projects in and 90 meters around this grove implemented **since 2022**. See this [map of grove treatments](#).

Treatment Type	% of Grove	Acres
Mechanical Treatments	82.2%	594.2
Prescribed Fire	0%	0
Pile Treatments	82.2%	594.2
Pile Burns	1.7%	12.2
Replanting	0%	0

### Management Recommendations

The table below provides an estimate of the percentage and acreage of the grove that are recommended for evaluation for treatment based on the Vulnerability Models. See this [map of Grove Vulnerability Models](#).

Treatment Need	% of Grove	Acres
Fuels Reduction/Restoration	2.5%	8.275
Reforestation	16.9%	55.939

## NELDER GROVE REFERENCES

Willard, D. 1994. Giant Sequoia Groves of the Sierra Nevada: A Reference Guide.

Giant Sequoia Health & Resilience Assessment [Glossary](#) 

[How to Use the Giant Sequoia Health & Resilience Assessment](#) 

[Giant Sequoia Health & Resilience Assessment Analysis Methods](#) 

Find more giant sequoia science by searching the [GSLC Scientific Publications Library](#) .

Explore more groves or learn about the Giant Sequoia Lands Coalition.

## DISCLAIMER

The information presented in the Giant Sequoia Grove Health & Resilience Assessment is intended to supplement on-the-ground knowledge of giant sequoia groves for use in conjunction with current on-the-ground knowledge of grove condition and management activities when planning fuel treatment and reforestation projects. It should not be considered the only source of information about the condition of groves.