

# FREEMAN CREEK GROVE

## FREEMAN CREEK GROVE OVERVIEW

### Relative Overall Vulnerability

**HIGH**  
6.5

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

#### Wildfire Vulnerability

**LOW - 0.4**

#### Regen Vulnerability

**HIGH - 6.5**

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

### Relative Management Priority

**HIGH**  
6.5

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

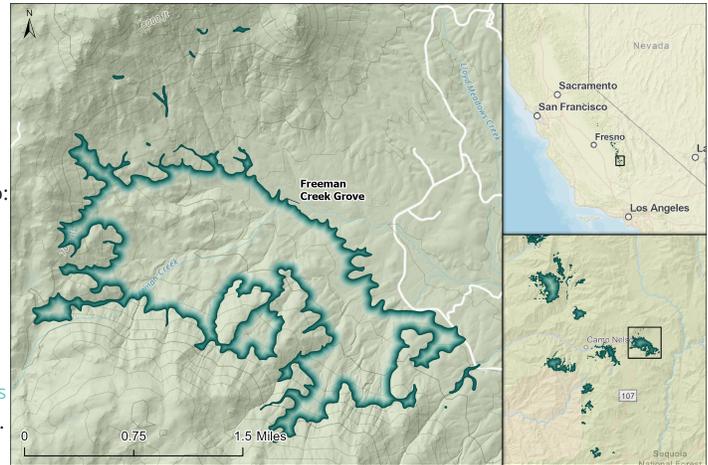
#### Overall Vulnerability

**HIGH - 6.5**

#### Treatment Feasibility

**GOOD - 10.0**

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



Grove Map - click map for more detailed spatial information

### Grove Information

Grove Size (Acres)	1413
Location	Tule and Kern River Watershed, Tulare County
Management Unit(s)	Giant Sequoia National Monument / Sequoia National Forest
Land Steward(s)	USFS SQF GSNM

## About Freeman Creek Grove

Freeman Creek is a 1,413-acre grove in the Tule and Kern River Watershed region situated between 5,659 - 7,416 feet elevation at 36.14069°N. It is managed by Giant Sequoia National Monument/Sequoia National Forest and located in the basin of Freeman Creek, Kern River watershed. Most of the giant sequoias are found south of Freeman Creek. It is the largest unlogged grove outside of a National Park. The southern section was greatly affected by the 2020 Castle Fire; about half of the grove burned at high severity. The grove once contained several notable giant sequoia trees, like the George Bush Tree, but some died as a result of the Castle Fire.

# FREEMAN CREEK GROVE HEALTH & RESILIENCE

**HIGH**  
6.5

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

Additionally, Freeman Creek Grove is at **Low** risk for negative impacts from drought stress, **High** levels of tree mortality have been detected in the grove, and the presence and activity of beetles in the grove is **Suspected**. 100% of Freeman Creek Grove has burned in large fires since 1984. See below for more detailed information.

**Relative Overall Vulnerability**

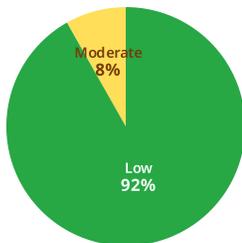
## Components of Relative Overall Vulnerability

**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.

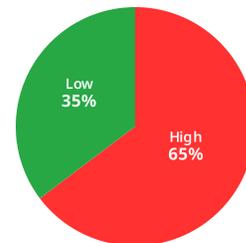
### Wildfire Vulnerability

LOW - 0.4



### Regeneration Vulnerability

HIGH - 6.5

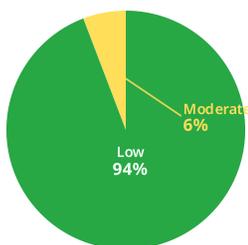


## Additional Grove Health & Resilience Information

Below is additional information about Freeman Creek 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

LOW



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

### Beetle Activity

SUSPECTED

Beetle Activity in Freeman Creek Grove is suspected, needs to be surveyed. Please see the [Grove Resilience Datasheet](#) for details.

### Tree Mortality

HIGH

Tree Mortality in Freeman Creek Grove is High according to the most current available USFS dead canopy data.

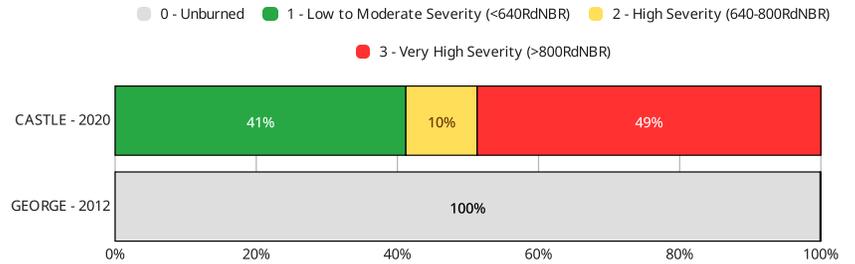
Please see the [Grove Resilience Datasheet](#) for details.

## 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	CASTLE - 2020, GEORGE - 2012
% of grove burned	100%
% of grove unburned	0%
Fire Return Interval Departure	Moderate

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



# MANAGEMENT CONSIDERATIONS

**HIGH**  
6.5

**Relative Management Priority**

Freeman Creek Grove is ranked **High** for Relative Management Priority because it has **High** Relative Overall Vulnerability and **Good** feasibility for implementing management actions toward restoration goals.

Additionally, the grove is 1.2 miles from a community and is 1.2 miles from recreational infrastructure. There are prehistoric sites within the grove, and a botanical area is located nearby. This is the only grove with a sage brush understory. There are California Spotted Owl and Goshawk PACs. 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

**HIGH - 6.5**

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

### Treatment Feasibility

**GOOD - 10.0**

Special Land Designation	None
Grove Manager Opinion	Fuel Treatments are Possible
Remote	No

## Additional Management Considerations

Below is additional information relevant to Freeman Creek 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	12.4%	286
Prescribed Fire	1.4%	32.4
Pile Treatments	10.4%	240.1
Pile Burns	0%	0
Replanting	16.4%	377.4

### 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	0%	0
Reforestation	64.7%	914.211

FREEMAN CREEK 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.