

# MERCED GROVE

## MERCED GROVE OVERVIEW

### Relative Overall Vulnerability

**LOW**  
0.1

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

#### Wildfire Vulnerability

**LOW - 0.1**

#### Regen Vulnerability

**LOW - 0.1**

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

### Relative Management Priority

**LOW**  
0.1

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

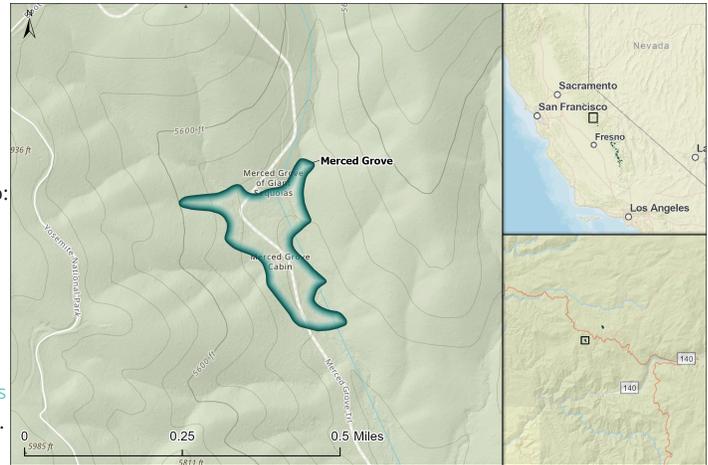
#### Overall Vulnerability

**LOW - 0.1**

#### 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)	16
Location	Central Sierra Nevada Watershed, Mariposa County
Management Unit(s)	Yosemite National Park
Land Steward(s)	NPS Yosemite

## About Merced Grove

Merced Grove is a 16-acre grove in the Central Sierra Watershed region situated between 5,322 - 5,546 feet elevation at 37.74954 °N. The grove is located in a small valley in the drainage of Moss Creek, tributary to the Merced River. It is managed by Yosemite National Park. An old growth grove, Merced is home to about 20 large giant sequoia trees and can be reached by hiking a short dirt trail from Highway 120. It typically does not get as many visitors as some of the other groves in Yosemite National Park, but still has high recreational use.

# HEALTH & RESILIENCE

LOW  
0.1

Merced 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.

**Relative Overall Vulnerability**

Additionally, Merced Grove is at **Low** 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**. 0% of Merced Grove has burned in large fires since 1984. See below for more detailed information.

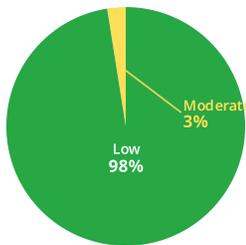
## Components of Relative Overall Vulnerability

**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.

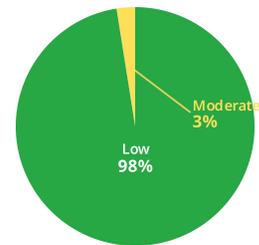
### Wildfire Vulnerability

LOW - 0.1



### Regeneration Vulnerability

LOW - 0.1

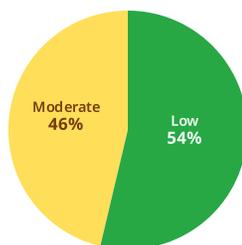


## Additional Grove Health & Resilience Information

Below is additional information about Merced 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 Merced Grove is Low based on an area-weighted average. Click on the chart for an interactive map.

### Beetle Activity

UNKNOWN

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

### Tree Mortality

LOW

Tree Mortality in Merced 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](#).

% of grove burned	0%
% of grove unburned	100%
Fire Return Interval Departure	High

# MANAGEMENT CONSIDERATIONS

LOW  
0.1

Relative Management  
Priority

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

Additionally, the grove is 4.8 miles from a community and is 0.8 miles from recreational infrastructure. There is a high amount of outdoor recreation use in this grove. 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 - 0.1

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 Merced 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	82.9%	46.3
Prescribed Fire	0%	0
Pile Treatments	32.5%	18.1
Pile Burns	0%	0
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	0%	0
Reforestation	0%	0

## MERCED 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.