ALDER CREEK GROVE

ALDER CREEK GROVE

OVERVIEW

Relative Overall Vulnerability

MODERATE
3.2

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

Wildfire Vulnerability
LOW - 0.3

Regen Vulnerability
MODERATE - 3.2

See the Grove Health & Resilience section below for more information.

Relative Management Priority

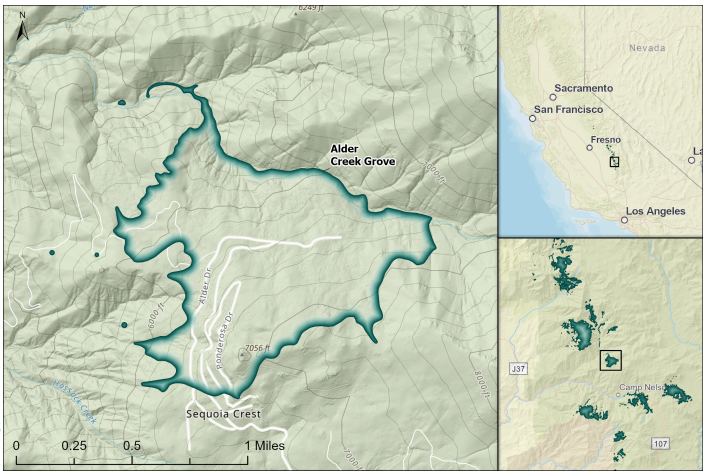
MEDIUM
3.2

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

Overall Vulnerability
MODERATE - 3.2

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)	557
Location	Tule and Kern River Watershed, Tulare County
Management Unit(s)	Save the Redwoods League, Giant Sequoia National Monument / Sequoia National Forest
Land Steward(s)	USFS SQF GSNM, Save the Redwoods League, Private

About Alder Creek Grove

Alder Creek Grove is a 557-acre grove in the Tule and Kern River Watershed region situated between 4,798 - 7,299 feet elevation at 36.18944°N on the west and northwest slopes of Jordan Peak in the drainages of the South Fork of Alder Creek and Hossack Creek. The grove is managed by Save the Redwoods League and Giant Sequoia National Monument/Sequoia National Forest. The grove's namesake, Alder Creek, runs through the northern portion of the grove. It is unique in that it partially resides within a residential community, aptly named Sequoia Crest. The highest density of sequoias exist on the private land in and adjacent to the community. “It is the only grove with such a high degree of private residential development” (Willard, 1994). Save the Redwoods League acquired ownership of the Alder Creek Grove in 2019. The League acts as stewards of the land, supporting restoration work and public access to those in search of outdoor recreation. The Sequoia National Forest and private sections of the grove were logged for non-sequoia timber, but it appears that old growth sequoias were not logged. Alder Creek Grove is home to the Stagg Tree - the fifth largest living giant sequoia. A unique genetic substrain of sequoias, known as the “pinkbark”, are concentrated in a pocket west of the Sequoia Crest residential community.

ALDER CREEK GROVE

HEALTH & RESILIENCE

MODERATE
3.2

Relative Overall Vulnerability

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

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

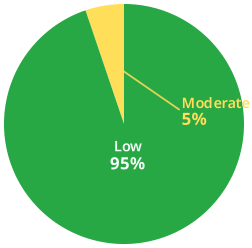
Components of Relative Overall Vulnerability

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.

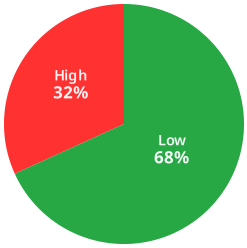
Wildfire Vulnerability

LOW - 0.3



Regeneration Vulnerability

MODERATE - 3.2

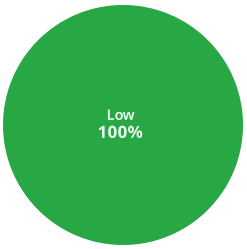


Additional Grove Health & Resilience Information

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

Beetle Activity

UNKNOWN

Beetle Activity in Alder Creek Grove has not been determined.
Please see the Grove Resilience Datasheet for details.

Tree Mortality

MEDIUM

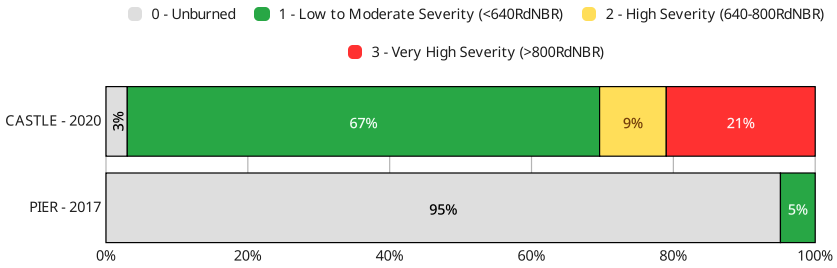
Tree Mortality in Alder Creek Grove is Medium according to the most current available USFS dead canopy data.
Please see the Grove Resilience Datasheet for details.

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, PIER - 2017
% of grove burned	100%
% of grove unburned	0%
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.



ALDER CREEK GROVE

MANAGEMENT CONSIDERATIONS

MEDIUM
3.2

Relative Management Priority

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

Additionally, the grove is 0.0 miles from a community and is 0.9 miles from recreational infrastructure. The grove is located partially within a residential community. 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

MODERATE - 3.2

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 Alder 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	16.9%	139.3
Prescribed Fire	11.3%	92.8
Pile Treatments	16.9%	139.3
Pile Burns	8.1%	66.9
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	31.8%	177.126

ALDER 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.