

INDIAN BASIN GROVE

INDIAN BASIN GROVE OVERVIEW

Relative Overall Vulnerability

MODERATE
3.1

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

Wildfire Vulnerability

MODERATE - 3.1

Regen Vulnerability

MODERATE - 2.8

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

Relative Management Priority

MEDIUM
3.1

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

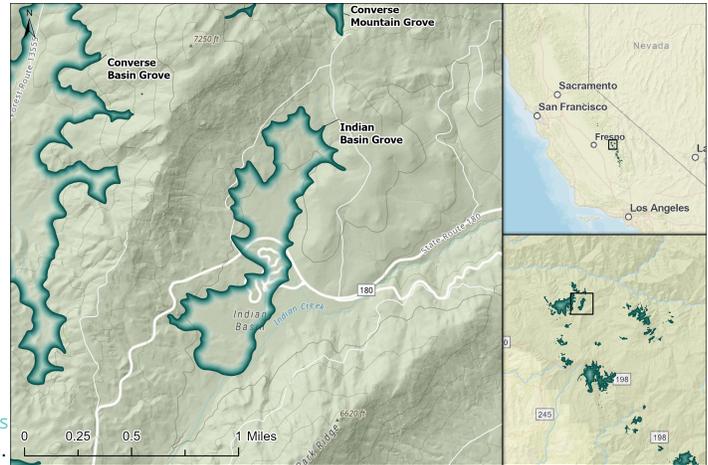
Overall Vulnerability

MODERATE - 3.1

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)	213
Location	Kings River Watershed, Fresno County
Management Unit(s)	Giant Sequoia National Monument / Sequoia National Forest
Land Steward(s)	USFS SQF GSNM

About Indian Basin Grove

Indian Basin Grove is a 212-acre grove in the Kings River Watershed region situated between 5,857 - 6,184 feet elevation at 36.80532°N. It is located on both sides of Highway 180 and in the drainage of Indian Creek, a tributary to Tenmile Creek within the Kings River watershed. Indian Basin Grove is managed by Sequoia National Forest/Giant Sequoia National Monument. It occurs at a low elevation for the southern Sierra and has a mostly southern exposure. Once home to many exceptionally large giant sequoias, this grove was heavily logged at the beginning of the 20th century and now only second growth sequoias remain. It is unique in that it is primarily on level ground, indicating that it must have had a dense concentration of very large sequoias.

INDIAN BASIN GROVE HEALTH & RESILIENCE

MODERATE
3.1

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

Relative Overall Vulnerability

Additionally, Indian Basin 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**. 0.3% of Indian Basin Grove has burned in large fires since 1984. See below for more detailed information.

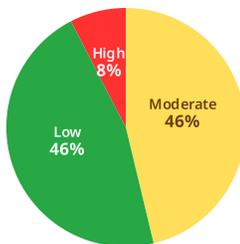
Components of Relative Overall Vulnerability

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.

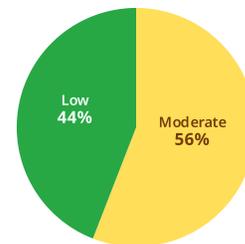
Wildfire Vulnerability

MODERATE - 3.1



Regeneration Vulnerability

MODERATE - 2.8

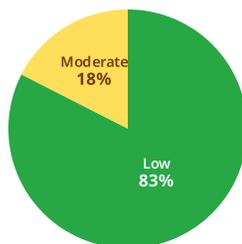


Additional Grove Health & Resilience Information

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

Beetle Activity

UNKNOWN

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

Tree Mortality

LOW

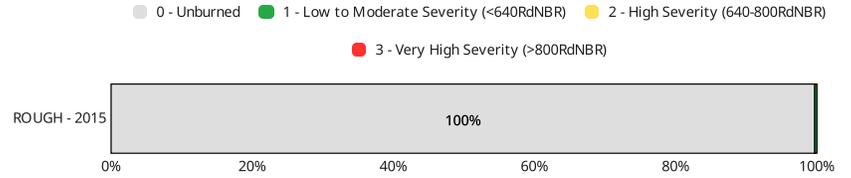
Tree Mortality in Indian Basin Grove is Low according to the most current available USFS dead canopy data. Please see the [Grove Resilience Datasheet](#) for details.

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	ROUGH - 2015
% of grove burned	0.3%
% of grove unburned	99.7%
Fire Return Interval Department	High

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



MANAGEMENT CONSIDERATIONS

MEDIUM
3.1

Indian Basin 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.

Relative Management Priority

Additionally, the grove is 4.1 miles from a community and contains recreational infrastructure. 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 - 3.1

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 Indian Basin 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	61.6%	231.7
Prescribed Fire	0%	0
Pile Treatments	15.1%	56.8
Pile Burns	24.4%	91.6
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	7.6%	16.188
Reforestation	0%	0

INDIAN BASIN 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.