

# The Mendocino Family of Companies

*Forest Stewards First and Foremost.*



**Allweather  
Wood®**  
NATURALLY DURABLE



**Humboldt  
Sawmill™**  
REDWOOD AND DOUGLAS-FIR





This handbook provides an overview of our operations in forest management, manufacturing, and distributing redwood, Douglas-fir, and preservative treated forest products.

Our goal is to provide an understanding of our long-held objective in having an environmentally sustainable and economically viable business.

*“From the beginning, our stated purpose for the Mendocino family of companies has been to demonstrate it is possible to manage productive timberlands with a high standard of environmental stewardship, and also operate a successful business. For us, responsibility begins in the forest.”*

## The Forest First and Foremost.

Coast redwood and Douglas-fir trees grow along a narrow strip of coastline from southern Oregon down to the Big Sur area of Monterey County, California. We are responsible for managing more than 440,000 acres of this sustainable, renewable resource.



(see larger map)



# Forest Stewardship Council® Certification.

The mark of responsible forestry.

The **Forest Stewardship Council® (FSC® C013133)** was created to improve the practice of responsible forestry worldwide. A non-profit, non-governmental organization, FSC certification and forest management standards are widely considered to be among the most stringent in the world.

FSC is supported by member organizations including The Home Depot, Procter & Gamble, International Paper, Professional Logging Contractors of Maine, Great Lakes Timber Professionals Association, World Wildlife Fund, Greenpeace, Natural Resources Defense Council, Sierra Club, National Wildlife Federation, and The Nature Conservancy, among others.

Soon after its formation in 1998, **Mendocino Redwood Company (MRC®)** determined that the best benchmark for forest stewardship was certification to the standards of the FSC and publicly committed itself to achieving this goal. **Humboldt Redwood Company (HRC)** also publicly committed to attaining FSC certification when it began as a business in 2008.

The forestlands of **MRC** and **HRC** are certified to FSC standards. Furthermore, the companies' manufacturing and distribution operations are certified to FSC chain-of-custody standards.

In addition, **MRC** holds a group certificate that enables local landowners to be certified to FSC standards at no cost (FSC® C012230).



The mark of  
responsible forestry



# Our Forest Friendly Practices Include:

- Growing more than we harvest.
- Preserving trees that meet our old growth definition either as individual trees or as a stand of trees.
- We eliminated traditional clearcutting as a harvesting method.
- Our wildlife biologists conduct annual surveys for sensitive species including, among many, northern spotted owls, marbled murrelets, and red-legged frogs.





## Protecting Habitat.

We budget millions of dollars annually, along with funds contributed by restoration partners, to maintain, upgrade, relocate, and retire roads and bridges. Road and bridge improvements have the most immediate, positive impact on reducing sediment in streams, thereby helping to protect and improve salmon and steelhead habitats.

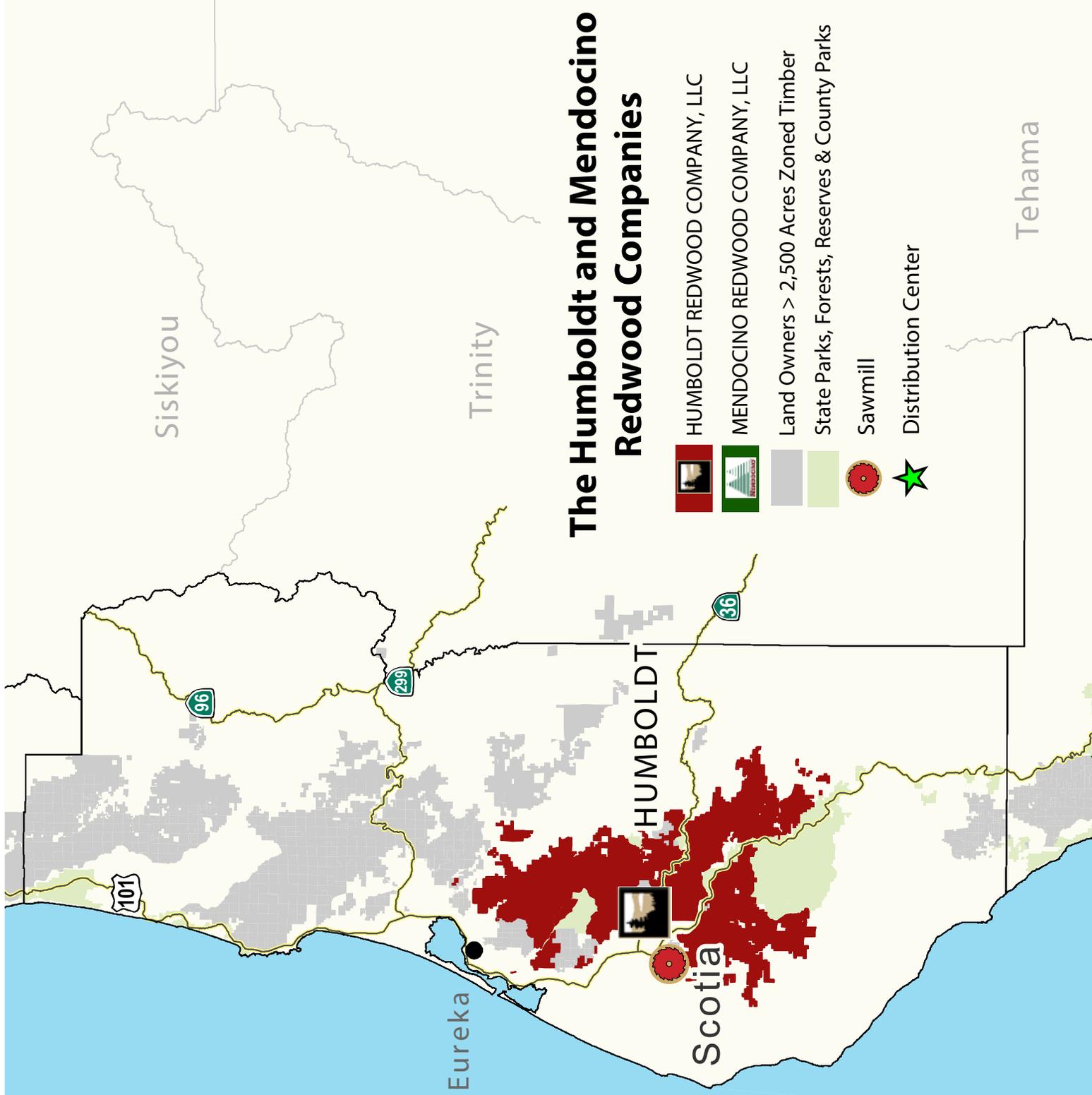
|                                    | Our Timberlands  |
|------------------------------------|--|
| Total Acreage                      | Approximately 440,000  |
| Annual Harvest Levels              | <3% of total acreage   |
| Reforestation                      | >12 million redwood and Douglas-fir seedlings planted since 1998 |
| Roads Under Management             | More than 4,000 miles of roads                                   |
| Road Restoration                   | Controlled over 1.7 million cubic yards of sediment since 1998   |
| Northern Spotted Owl (NSO) Habitat | 267 active sites   |
| Marbled Murrelet Habitat           | Approximately 7,800 protected acres                              |

## Preserving Old Growth.

Our old growth policy preserves trees from harvesting.

1. Any redwood tree,  $\geq 48''$  diameter at breast height (dbh), established prior to 1800.
2. Any Douglas-fir tree,  $\geq 36''$  dbh, established prior to 1800.
3. Any tree (conifer or hardwood) established prior to 1800, regardless of dbh, with a preponderance of species-specific old growth characteristics.
4. Any tree (conifer or hardwood) established prior to 1800, regardless of dbh or presence of old growth characteristics, that cannot be replaced in size or ecological function within 80–130 years.





# The Humboldt and Mendocino Redwood Companies



HUMBOLDT REDWOOD COMPANY, LLC



MENDOCINO REDWOOD COMPANY, LLC



Land Owners > 2,500 Acres Zoned Timber



State Parks, Forests, Reserves & County Parks



Sawmill



Distribution Center

Tehama

Siskiyou

Trinity

HUMBOLDT

Scotia

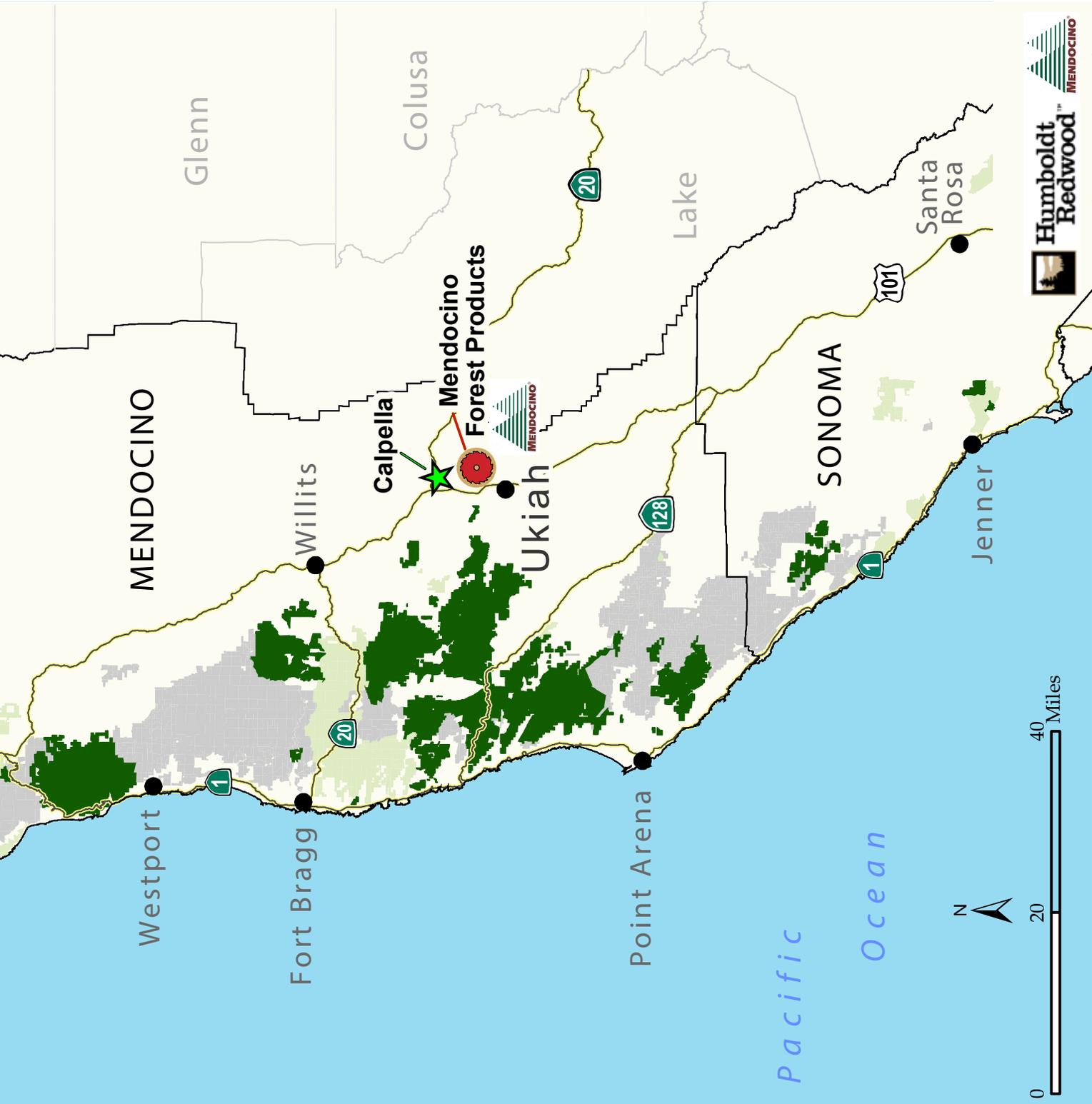
Eureka

101

96

299

36



# Redwood and Douglas-fir Manufacturing.

Optimizing Output. Maximizing Quality.

*“Operational excellence in our sawmills is important to how we manage our businesses in a sustainable manner.”*

Our commitment to environmental responsibility extends beyond the forest. Operational excellence in our sawmills is important to how we manage our businesses in a sustainable manner.

Through state-of-the-art optimization systems, which scan every log prior to cutting, we are able to determine the most efficient and effective way to produce lumber and timbers to meet customer demand. This maximizes solid lumber products.

The flexibility and efficiency in our manufacturing operations translates into a variety of superior quality redwood and Douglas-fir lumber products.

## The Scotia Mill

Humboldt Sawmill Company's Scotia, California sawmill can cut lumber up to 24' in length, and up to 8" x 14" in dimension\* and process logs up to 60" in diameter. The Scotia complex has dry kilns, a planing mill, and a power plant.

*\*Larger sizes may be available upon request.*

## The Ukiah Mill

Mendocino Forest Products' Ukiah, California sawmill is a small log mill, processing logs up to 28" in diameter and lumber up to 20' in length and up to 4" x 12" in dimension. The Ukiah complex also features a fenceline, and a remanufacturing plant capable of manufacturing pattern stock, resawing products, and surfacing timbers. The Ukiah complex also has dry kilns and a planing mill.

# Eco-friendly Operational Processes.

- Wood byproducts, such as sawdust, shavings, bark, and chips, are sold for use in power generation, landscape coverings, soil amendments, pulp, or reconstituted wood products.
- We use an environmentally responsible wood protection product registered with the Environmental Protection Agency (EPA) to prevent the growth of mold, stain, and decay organisms on our redwood and Douglas-fir lumber products.
- Engineering and Maintenance teams at both mills undertake initiatives to reduce energy consumption through equipment retrofits or replacements. Examples include lighting retrofits to reduce power consumption by 50%, more energy efficient compressors, and automation to shut down equipment when not in use.

|                   | Humboldt Sawmill Company                               | Mendocino Forest Products                   |
|-------------------|--|---|
| Log Processing    | Large and small logs<br>Max. 60" diameter; 24' lengths | Small log<br>Max. 28" diameter; 20' lengths |
| Species           | 65% Redwood; 35% Douglas-fir                           | 60% Redwood; 40% Douglas-fir                |
| Airyard/Dry Kilns | ✗  | ✗   |
| Planer            | ✗  | ✗   |
| Fenceline         |  | ✗   |
| Remanufacturing   |  | ✗   |




# Preservative Treated Manufacturing.

Innovative. Best-in-Class Technology.

**Allweather Wood** is the largest producer and distributor of waterborne preservative treated wood products in the Western United States.

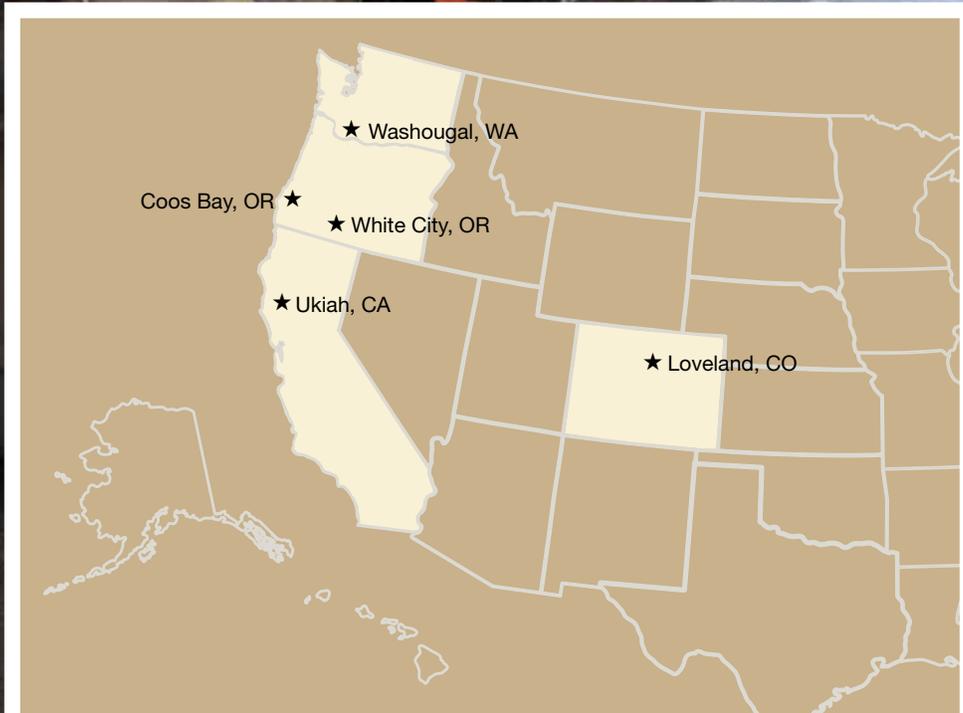
The company operates five wood preserving plants with locations in California, Colorado, Oregon, and Washington. These state-of-the-art facilities enable year-round production of a variety of preservative systems and wood species, including Hem fir, Douglas-fir, and Southern Yellow Pine.

Each facility features:

- High-speed incisors
- Custom pre-staining capabilities
- Computer controlled treatment cylinders
- Distribution capabilities
- Third-party quality control inspection in accordance with American Wood Protection Association (AWPA) industry standards



# Map of our Treating Plants.



# Retail Distribution.

## The Right Products. On Time.

Our retail distribution network includes hundreds of **independent lumber yards** and the **largest home improvement retailers**, stretching from California through the Pacific Northwest to Alaska, and east to the Rocky Mountains. We also distribute lumber and plywood to the Hawaiian Islands, Guam, and throughout the greater Pacific Rim.

All of our distribution centers have the capacity, equipment, and trained personnel to produce special orders to meet customer demand. End users of our products include architects, builders, contractors, designers, developers, and homeowners.

Products are loaded in our nine distribution centers for delivery to our customers. On average, we load over 20,000 trucks per year of forest products.



# Map of our Distribution Centers.



# Douglas-fir Products.

The standard in structural framing.



## Lumber.

Rough or S4S.

1" and 2" dimension to WWPA standards. Available up to 12" wide and 24 feet long.



## Timbers.

Rough or S4S.

Green Douglas-fir timbers from 4" x 6" to 12" x 24" up to 24 feet in length.



## Uppers.

### Appearance.

Green Douglas-fir uppers are available in rough and S4S in a range of dimensions, lengths, and grades.



# Preservative Treated Products.

Ready for whatever nature brings your way.



## Decking.

**Durable and affordable.**

Preservative treated decking is available in Douglas-fir, Hem fir, and Southern Yellow Pine (SYP) species in 2" x 4", 2" x 6", 2" x 8", 2" x 10", and 2" x 12" dimension.

**Product lines include:**

- Allweather Wood Classic Douglas-fir Decking
- Allweather Wood Deck (Hem fir)
- Allweather Wood Superior KDAT Decking (SYP)



## Fencing.

**Graded for appearance.**

Preservative treated fencing is graded for appearance and manufactured from Douglas-fir, Hem Fir, Ponderosa, and Lodgepole Pine species.

**Product lines include:**

- Ranch fencing
- Round fencing
- Stained fencing



## Lumber, Timbers, Plywood. Stand up to the elements.

Preservative treated lumber, timbers, and plywood are available in a wide range of preservative treatment options, dimensions, and species.

### Product lines include:

- Above ground
- Ground contact
- Fire retardant treated
- Landscape timbers
- Refusal
- Superior KDAT

## Poles & Round Stock. Heavy-duty applications.

Preservative treated poles and round stock are available for heavy-duty agricultural and industrial applications. Wood species treated include Douglas-fir, Hem fir, Lodgepole Pine, and Ponderosa Pine.

### Product lines include:

- Peeler cores
- Posts
- Power poles
- Tree stakes



# Redwood Products.

Naturally strong, naturally beautiful.



## Decking.

The heart of outdoor living.

Redwood deck boards are available in nominal sizes of 2" x 4", 2" x 6", and 2" x 8". Additional dimensions are available as well. All decking products are available in lengths from 6 – 20 feet, surfaced four sides (S4S).

Grades available may include:

- Superior Heart
- Superior Common
- Clear
- B Grade
- Heart B
- Heart Clear



## Fencing.

The backyard workhorse.

Redwood fence boards and panels are available in a number of dimensions and designs. Fence boards from (nominal) 1" x 4" through 1" x 12" in a range of lengths. Available fence board styles include Square-top, Dog-ear, and Ridge & Valley. Available fence panel styles include Lattice-top and Dog-ear.

Grades available may include:

- Construction Heart
- Construction Common



## Timbers.

Strong, versatile, beautiful.

Redwood timbers from 4" x 6" to 12" x 24" up to 24 feet in length.

## Uppers.

High value, superior beauty.

Redwood uppers are available in 1" and 2" dimension in lengths from 6 – 20 feet.

Grades available may include:

- Heart B
- Heart Clear
- Clear
- B Grade

*Redwood uppers are available rough, surfaced four sides (S4S), surfaced one side two edges (S1S2E), or run to pattern.*



# Redwood is the New Green.

Many scientists believe one of the primary causes of climate change is excess greenhouse gas emissions, which trap heat in the atmosphere. Reducing greenhouse gases has been identified as one of the best ways to combat climate change.

Using redwood is a great way to reduce greenhouse gases and lower carbon footprint.

As trees grow, they absorb carbon dioxide from the atmosphere. Through photosynthesis, carbon gets stored in wood fibers and oxygen is released back into the air. The faster a tree grows, the more photosynthesis occurs and the more carbon is removed from the atmosphere. Since redwood is a fast growing species, the trees excel at removing carbon from the air and greenhouse gases in the atmosphere.

This is referred to as carbon sequestration, the process of removing carbon from the atmosphere and depositing it in a “reservoir”. In this case, the reservoir is a tree. As redwood trees are harvested and processed into lumber, much of the carbon removed from the air continues to be stored in redwood decks, fences and other structures. Redwood lumber is about half carbon by weight, lasts a long time, and keeps carbon out of the atmosphere for decades.

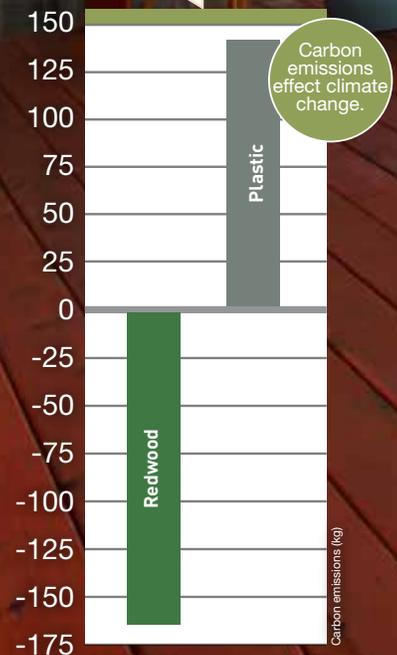
Each year our companies grow more trees than we harvest, which increases the net carbon sequestered. Our managed forests are continually replanted, so more carbon will be removed from the air by the next generation of planted trees, continuing a cycle of carbon removal and storage.



## Global Warming

Our sustainably managed forests pull carbon out of the atmosphere and store it throughout their life. That's why the **redwood bar is below zero**. It removes carbon from the atmosphere and stores it.

When you build with redwood, you become part of the solution.



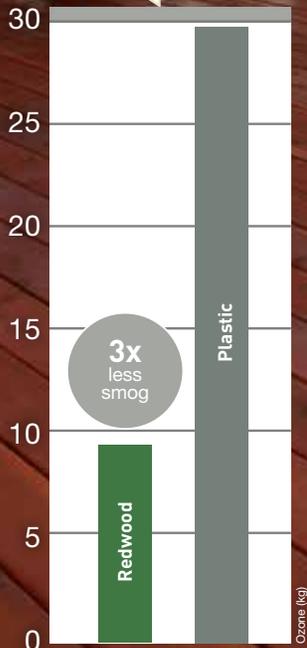
# Redwood vs. Plastic Composite.

While alternative materials, such as plastics and composite lumber, attempt to mimic the strength and durability of redwood, they often fall short. Some of the additives used in plastics and composites to achieve these characteristics can be toxic. A comparison of second growth redwood to composite lumber products reveal some of these serious environmental shortcomings.

## Smog

Do you like breathing clean air? Is anybody really in favor of dirty air?

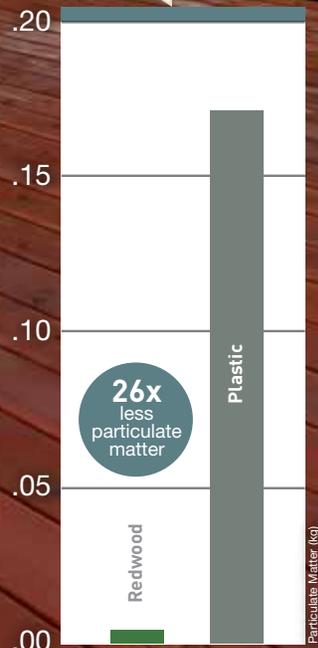
Redwood contributes three times less smog to the atmosphere than plastic.



## Air Pollution

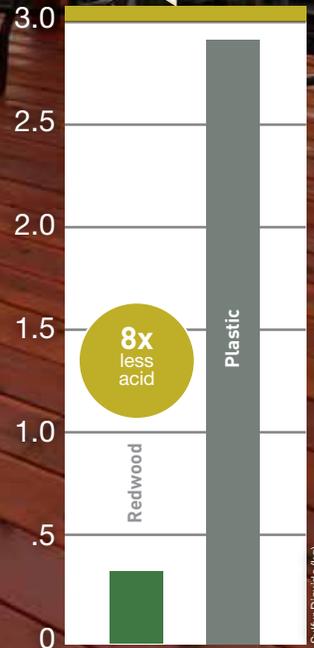
If you like your air without harmful particulates, redwood is the clear winner. Redwood lumber introduces 26-times less particulate matter into our air than plastic.

When you choose redwood, we can all breathe a little easier.



## Acid Rain

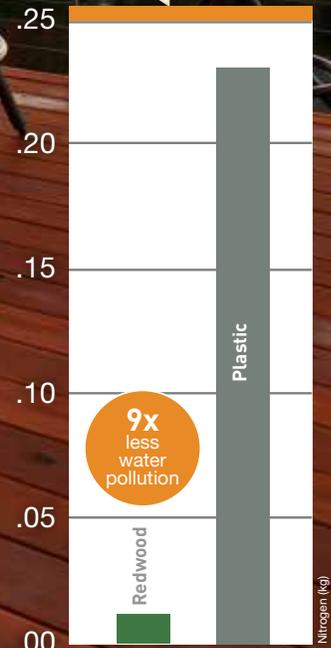
Water is a closed system, so it's important to keep harmful chemicals such as sulfur dioxide out. That's where acid rain comes from. Redwood contributes 8 times less acid to the water supply than plastic.



## Water Pollution

Introducing too much nitrogen into a pond or stream can produce algae blooms which destroy the habitat for many species of fish, creating what are known as "dead zones." It's called eutrophication.

Redwood lumber is 9 times less damaging to marine habitats than plastic.





## Case Study Casa Soria.

When Los Angeles-based influencer and interior designer, **Orlando Soria**, renovated his parents' home, he identified two main concerns. First was the cramped kitchen, second was the adjacent, unattractive outdoor space.

To remedy both concerns, Soria and the construction and architecture teams he worked with, decided to expand the kitchen to twice its size, while removing and replacing the existing outdoor space.

The family chose redwood to construct the new outdoor space, which includes a small deck, shade structure, stairs, and railings. Large 8" x 8" redwood timbers form the posts of the shade structure, which is higher than the previous structure, giving it a more spacious feel while allowing more light to filter into the newly renovated, adjacent kitchen.



*“I’ve always loved the vibe of redwood for decking, so when I learned we were getting to remodel the deck, I was thrilled to get to use redwood.”*

*- Orlando Soria*





## Case Study ZO Wines.

Visitors to **ZO Wines**, a family owned farmstay and winery estate in Healdsburg, California, have a unique space to enjoy the award-winning wines. A Japanese-inspired redwood pagoda was added to the property, providing an intimate area for tasting and relaxing. The main home on the property, dating to 1906, also features a large redwood deck and shade structure.

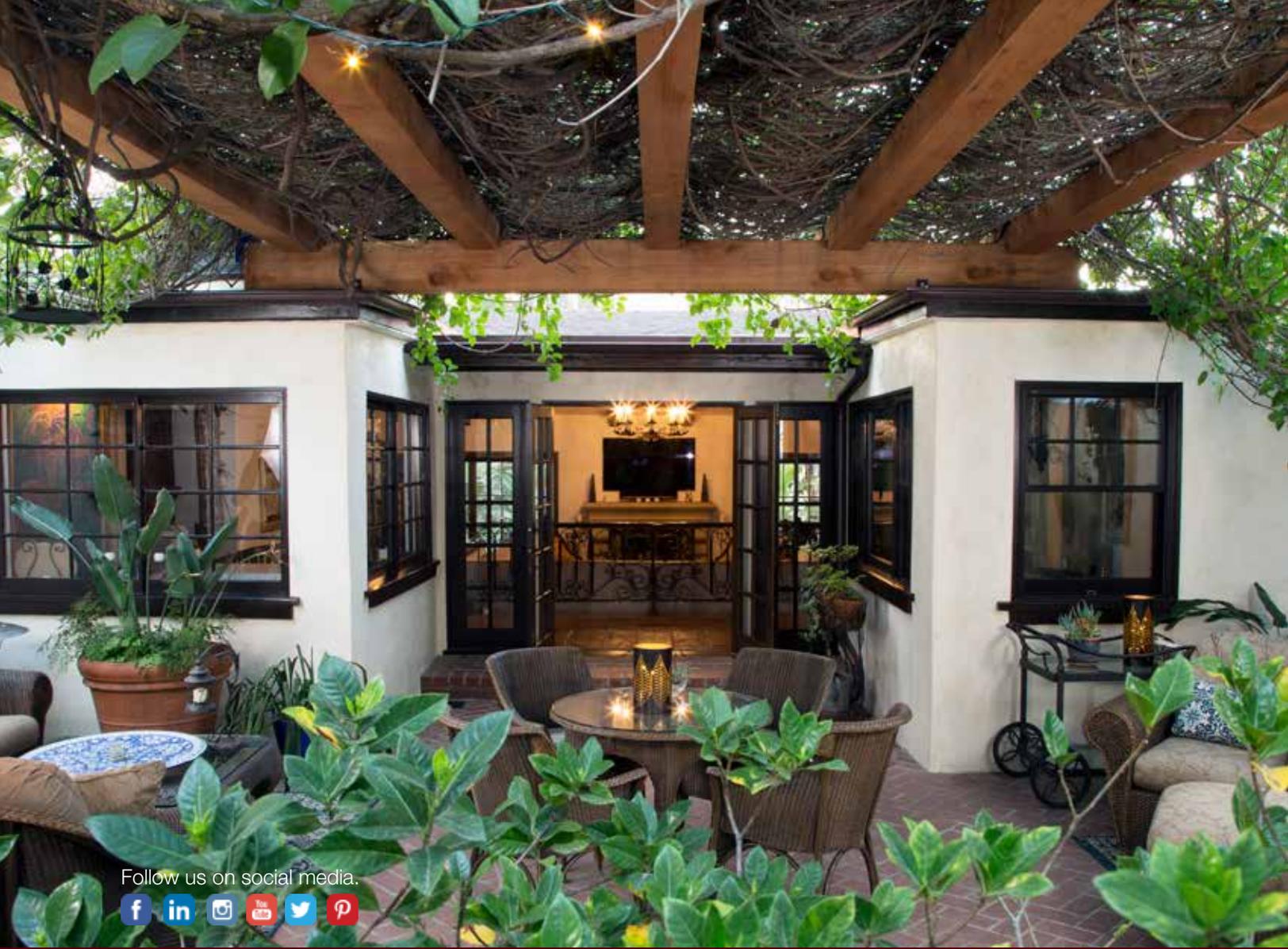
Matching the local aesthetic was important to the winery's owner, David Eckert. Redwood's warmth and beauty play right into the natural beauty of Dry Creek Valley, where the winery is located. For the owner, the choice of redwood made sense for other reasons as well, including its availability as a local building material, and the sustainable nature by which it is selectively harvested and replanted.



*“One of the things we really liked was their alignment with our sustainability philosophy. We also love the look and feel of the wood: it keeps cool on hot days and adds a nice texture to our winery environment.”*

*- David Eckert*





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