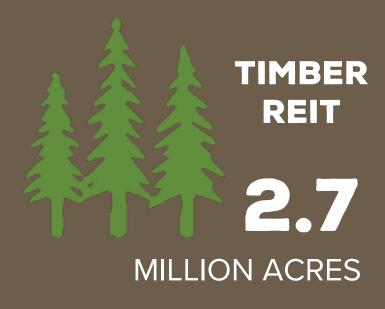


Rayonier Carbon Footprint

Thomas Fox I VP Research, Productivity, Sustainability Florida Forestry Association Annual Meeting (August 2021)



COMPANY SNAPSHOT





CERTIFIED





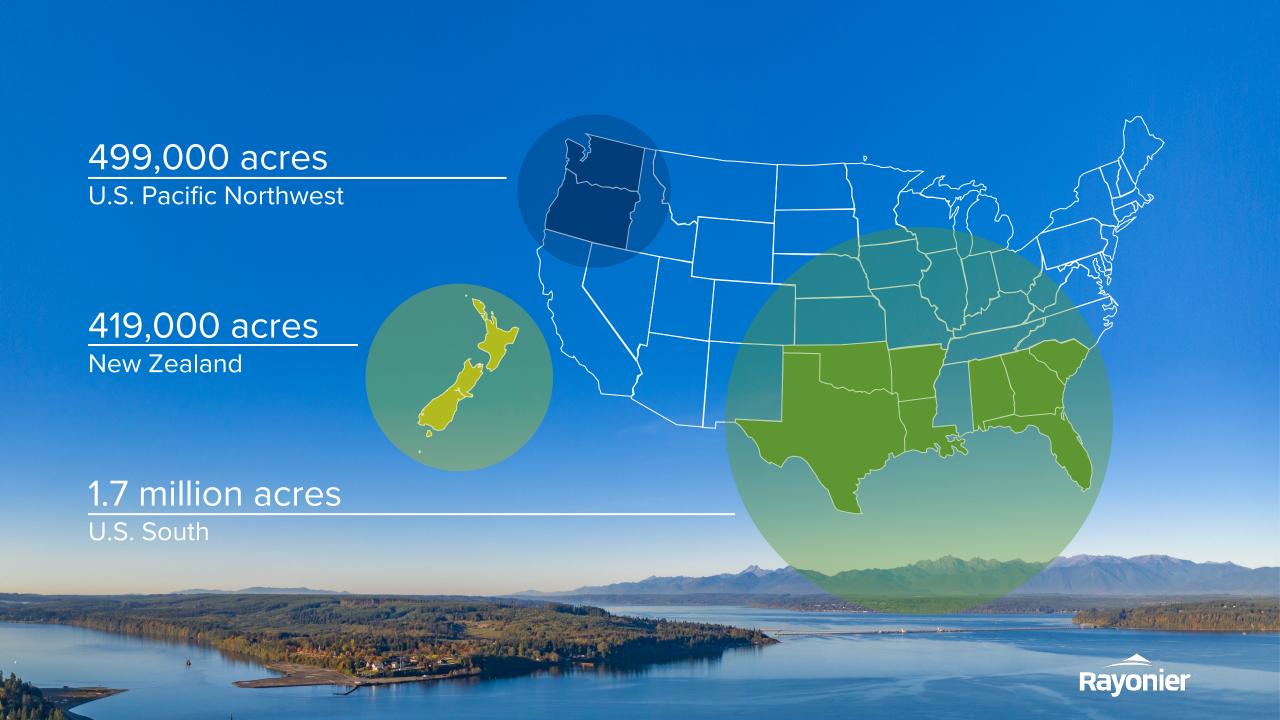


Promoting Sustainable



34 MM TREES







COMMITTED TO SUSTAINABLE FORESTRY

Meet the needs of the current generation for forest products and ecosystem services from the forest without impairing the ability of future generations to meet their needs.



SUSTAINABLE FORESTRY





Environmental, Social & Governance (ESG)

CERTIFIED





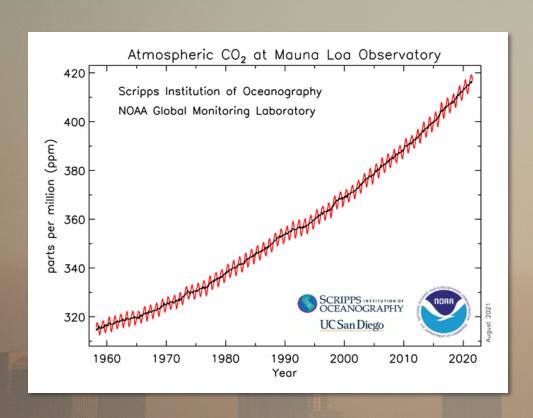


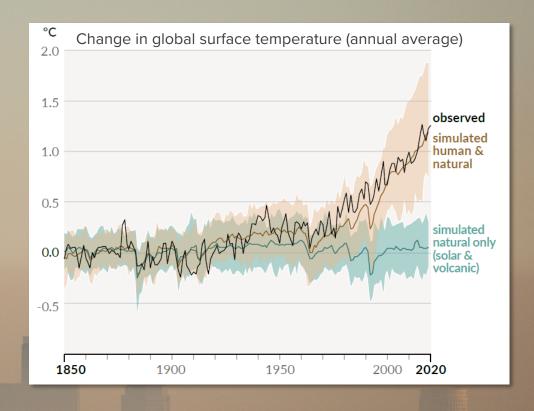
Promoting Sustainable Forest Management

www.pefc.org



RISING GREENHOUSE GAS CONCENTRATIONS

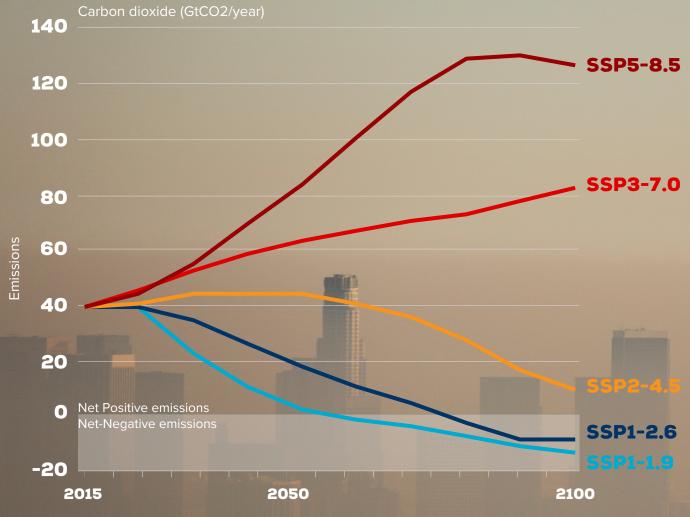




Rising greenhouse gas concentrations caused by fossil fuel combustion lead to increased atmosphere temperatures.

FUTURE EMISSIONS CAUSE ADDITIONAL WARMING

Total warming dominated by past and future CO₂ emissions



	Mid-term, 2041–2060		Long term, 2081–2100	
Scenario	Best estimate (°C)	Very likely range (°C)	Best estimate (°C)	Very likely range (°C)
SSP1-1.9	1.6	1.2 to 2.0	1.4	1.0 to 1.8
SSP1-2.6	1.7	1.3 to 2.2	1.8	1.3 to 2.4
SSP2-4.5	2.0	1.6 to 2.5	2.7	2.1 to 3.5
SSP3-7.0	2.1	1.7 to 2.6	3.6	2.8 to 4.6
SSP5-8.5	2.4	1.9 to 3.0	4.4	3.3 to 5.7

Source: IPCC Sixth Assessment Report 2021 (https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_SPM.pdf)

IMPACTS OF INCREASED ATMOSPHERIC GHG

Atmosphere

- Increased temperature (radiation forcing)
- Changes in growing seasons
- Changes in weather
- Rainfall patterns
- Storm intensity
- Rain vs snow & snowmelt patterns

Terrestrial Ecosystems

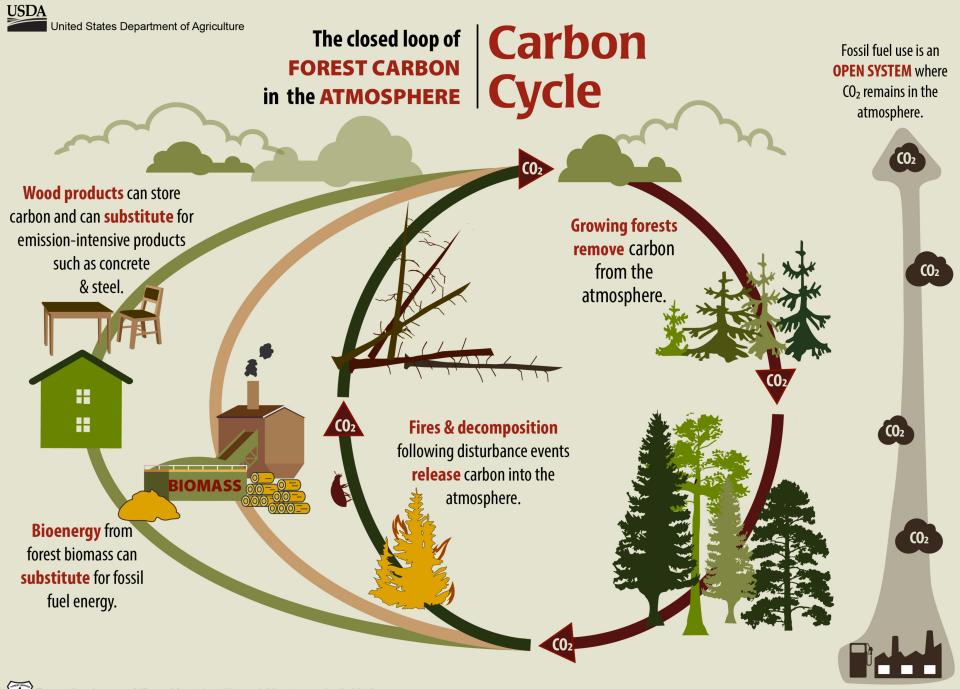
- Increased photosynthesis
- Increased water use efficiency
- Increased respiration
- Changes in productivity, ranges and distribution of species
- Altered seed production
- Changes in insects and diseases risks

Oceans

- Increased temperature
- Sea level rise (thermal expansion of water & melting glaciers)
- Change in currents
- Acidification

FORESTS PROVIDE A NATURAL CLIMATE SOLUTION











RAYONIER 2020 CARBON REPORT

- Carbon stored, sequestered, removed during harvest, stored in products in use and emissions in U.S. and N.Z.
 - Life Cycle Analysis including carbon in forests and carbon stored in wood products in use
 - Estimate of carbon as CO_2 equivalents (metric tons) in U.S. and N.Z. forests were determined
 - Carbon stored in trees, understory, coarse woody debris, forest floor, and mineral soil
 - Carbon sequestered in trees, understory, coarse woody debris, forest floor and mineral soil
 - Carbon removed in harvested timber
 - Scope 1, 2 and 3 emissions
 - Carbon stored in wood products in use in domestic and export markets from our harvested timber





RAYONIER 2020 CARBON REPORT

Open and transparent process

- Used Rayonier data for 12/31/2020 reported in 10K that is publicly available
- Clearly described methods and calculations
- Used data and methods developed and published by governmental agencies or in peer reviewed journals
- N.Z. Ministry for Primary Industries, U.S. Forest Service, U.S. EPA, World Bank



757 MILLION TONS OF CARBON STORED

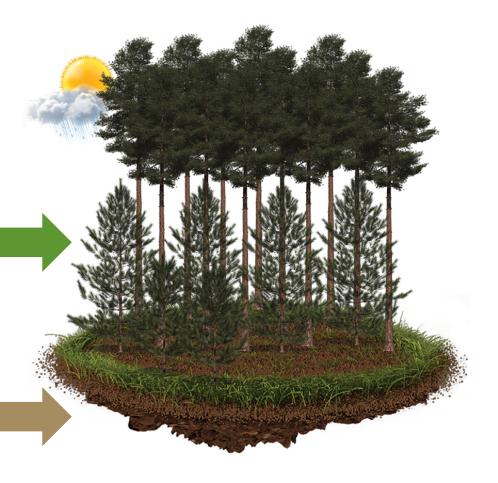
In Rayonier forests at year-end 2020

Forest
406 MILLION

352 MM (U.S.) | 54 MM (N.Z.) metric tons CO_2 equivalents

Soil **351 MILLION** 299 MM (U.S.) | 52 MM (N.Z.)

metric tons CO₂ equivalents



Carbon stored in Rayonier forests is equal to the annual emissions of 158 million people. 158 MILLION





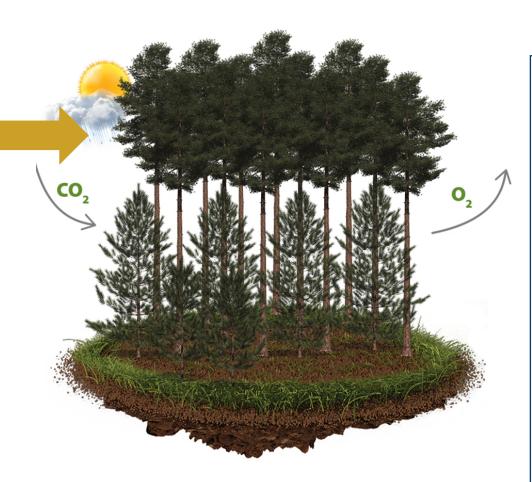
14.5 MILLION TONS OF CARBON SEQUESTERED

by Rayonier forests during 2020

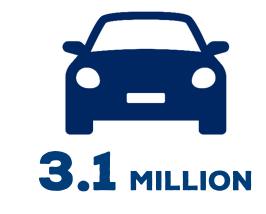
Sequestration

14.5 MILLION

11.8 MM (U.S.) | 2.7 MM (N.Z.) metric tons CO_2 equivalents



Carbon sequestered by Rayonier forests during 2020 was equal to removing 3.1 million cars from the road.

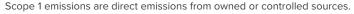




EMISSIONS ASSOCIATED WITH OUR BUSINESS

During our operations in 2020





Scope 2 emissions are indirect emissions from the generation of purchased energy.



Scope 3 emissions are all indirect emissions (not included in scope 2) that occur in the value chain, including both upstream and downstream emissions.



CARBON STORED IN WOOD PRODUCTS IN USE

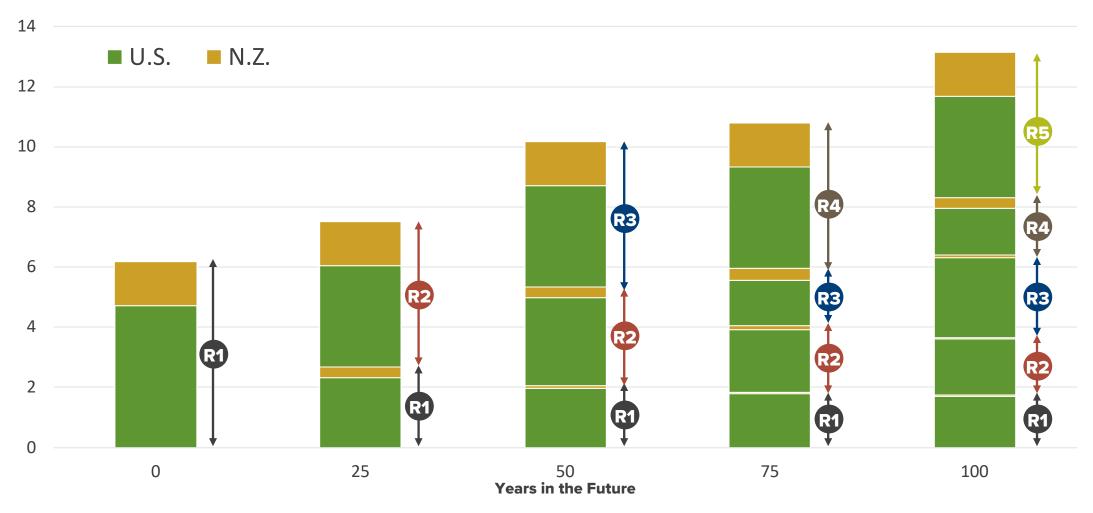
Million metric tons CO₂ equivalents





CARBON STORED IN PRODUCTS IN MULTIPLE ROTATIONS

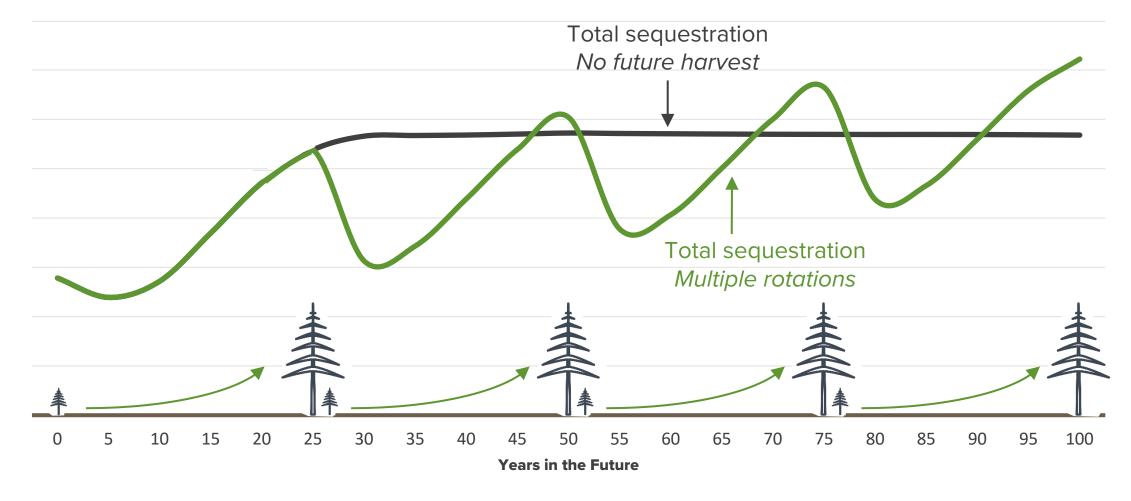
Million metric tons CO₂ equivalents





VALUE OF WORKING FORESTS IN THE U.S. SOUTH

Comparison of multiple rotations vs replanting with no future harvest







SUMMARY AND CONCLUSIONS (1/2)

- Rayonier forests stored more than 750 million metric tons of CO_2 equivalents in 2020. This is the net results of 100 years of sustainable forest management.
- Rayonier forests sequestered 14.5 million metric tons of CO_2 equivalents in 2020. This offsets the annual emissions of approximately 910,000 people in the U.S. or is equivalent to taking 3.1 million vehicles off the road.
- Rayonier emissions from all business sectors totaled 380,000 metric tons of CO_2 equivalents in 2020. This is substantially less than the carbon sequestered in our forests demonstrating that Rayonier has net-negative emissions.
- Rayonier removed 9.2 million metric tons of CO₂ equivalents in harvested timber in 2020.





SUMMARY AND CONCLUSIONS (2/2)

- Carbon continues to be stored in forest products made from our trees for many decades and this carbon continues to accumulate through multiple rotations. After 100 years, over 12 million metric tons of CO₂ equivalents will remain in wood products in use from the trees harvested from our forests.
- More carbon is stored in forests and the wood products in use over multiple cycles of harvest, replanting, and regrowth than in forests without future harvest.

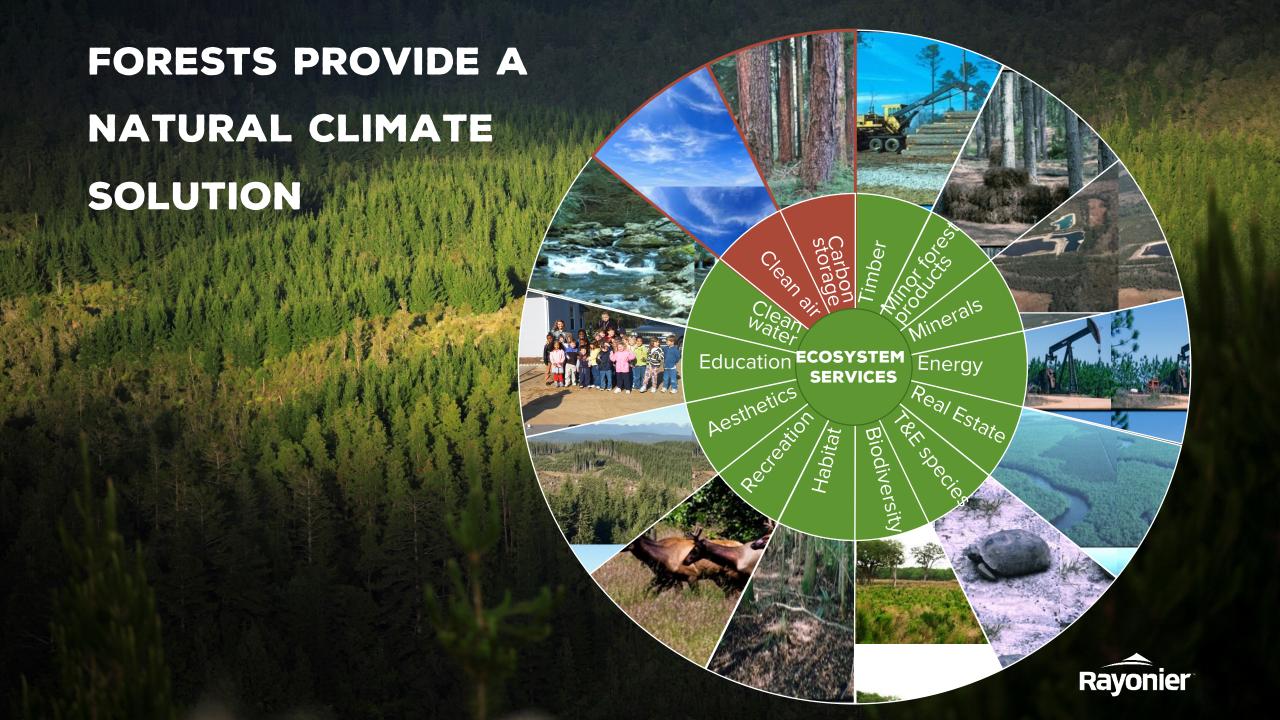
2020 Carbon report available @ www.rayonier.com/sustainability









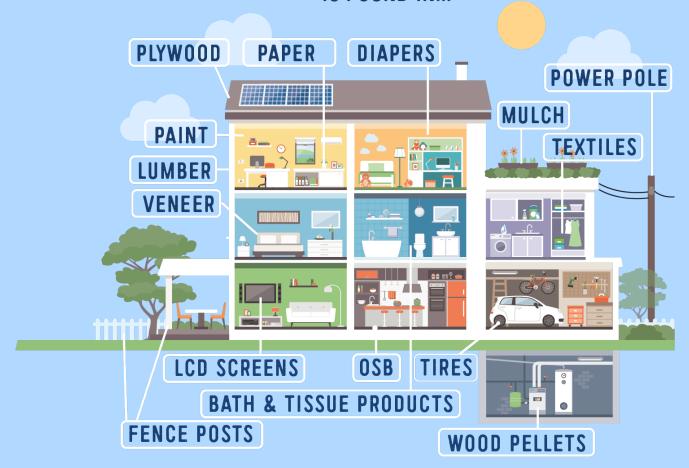


FORESTS PROVIDE A NATURAL CLIMATE SOLUTION



FLORIDA WORKING FORESTS PROVIDE

WOOD FROM WORKING FORESTS IS FOUND IN...



WORKING FORESTS PROVIDE...







\$4.1 BILLION **PAYROLL**



MANUF. GDP















