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California Natural Resources Agency

NATURE-BASED

CLIMATE SOLUTIONS















CLIMATE PLANNING

EXECUTIVE ORDER ON NATURE-BASED SOLUTIONS

EO N-82-20

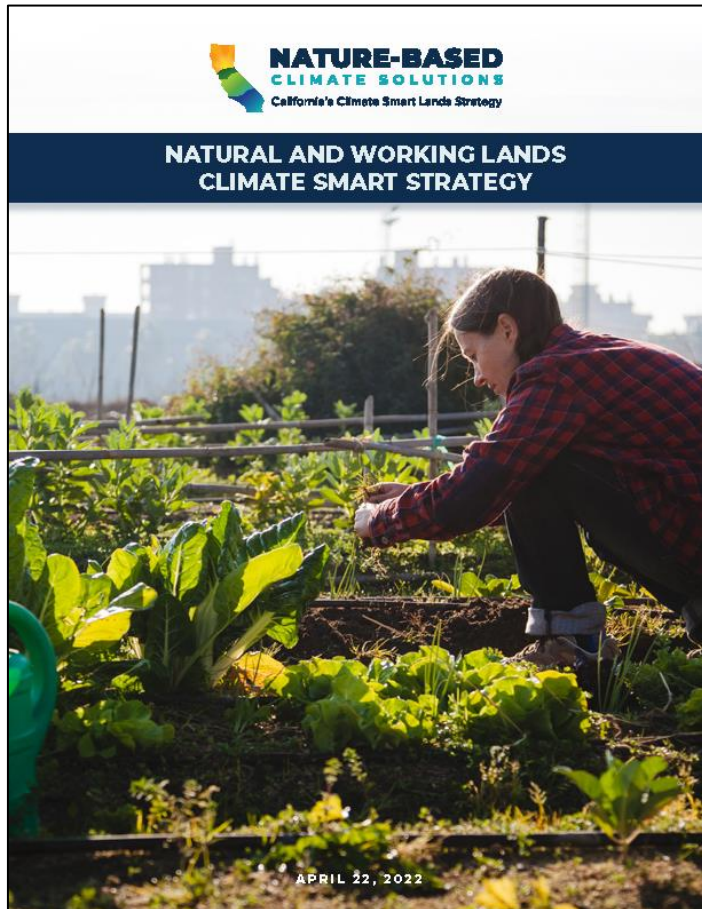


In October 2020, Governor Newsom outlined a comprehensive and results-oriented agenda to expand nature-based solutions across California.

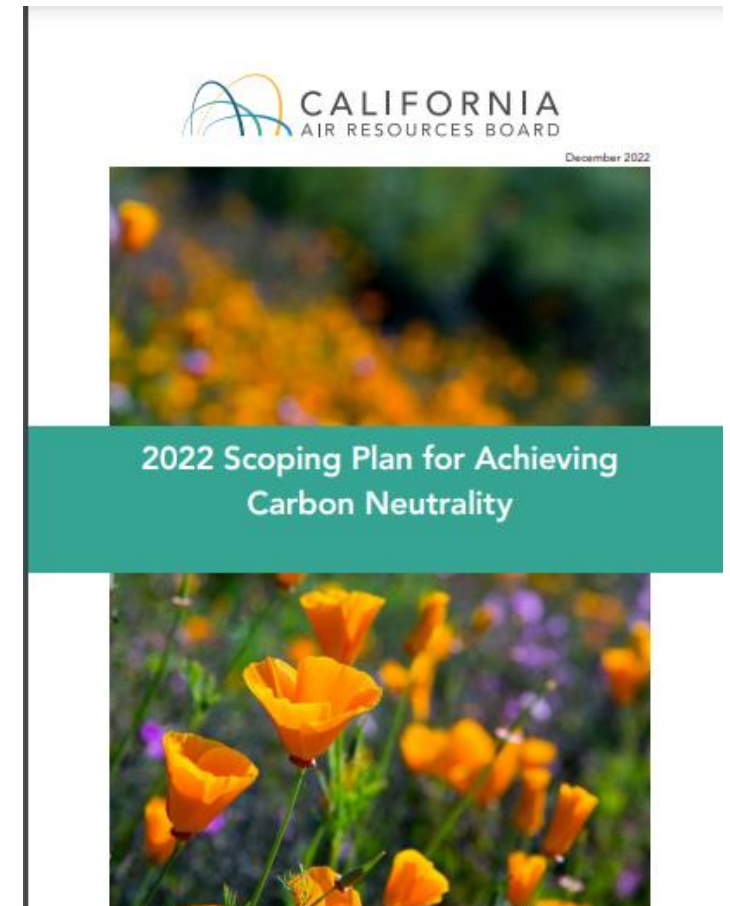
Among other things, it called for the first-ever statewide strategy to deliver on California's climate goals (mitigation and adaptation) through action in the natural and working lands sector.

PLANS IN ACTION

Adaptation



Mitigation





OVERVIEW

PRIORITIES

REGIONS

CALIFORNIA CLIMATE ADAPTATION STRATEGY

Photo credit: State Parks

Updated in 2021 | 2024 Update Coming Soon

Organized around six outcome-based priorities
California's north stars
that guide all resilience actions



Priority
**Strengthen Protections for
Climate Vulnerable Communities**

This block features a red-tinted background image of a residential neighborhood with people in the foreground.



Priority
**Bolster Public Health and Safety
to Protect Against Increasing
Climate Risks**

This block features a brown-tinted background image of people wearing hard hats in an outdoor setting.



Priority
**Build a Climate Resilient
Economy**

This block features a green-tinted background image of solar panels and a person working on a roof.



Priority
**Accelerate Nature-Based
Climate Solutions and
Strengthen Climate Resilience of
Natural Systems**

This block features a green-tinted background image of people in a natural, outdoor environment.



Priority
**Make Decisions Based on the
Best Available Climate Science**

This block features a blue-tinted background image of people gathered around a table, possibly in a meeting or workshop.



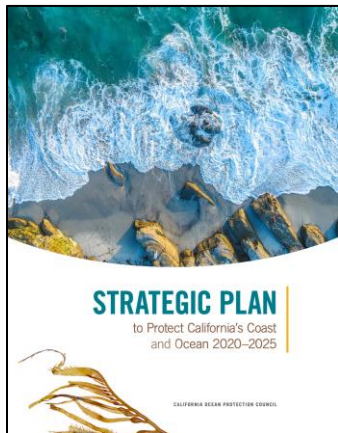
Priority
**Partner and Collaborate to
Leverage Resources**

This block features a purple-tinted background image of a diverse group of people standing together outdoors.

PLANS IN ACTION



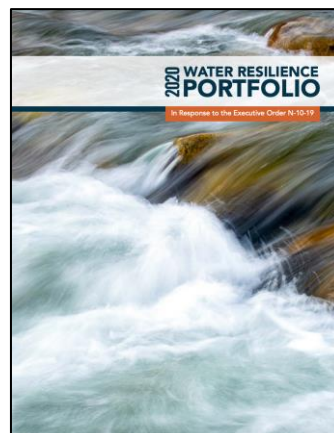
Plans Including Nature-Based Climate Solutions



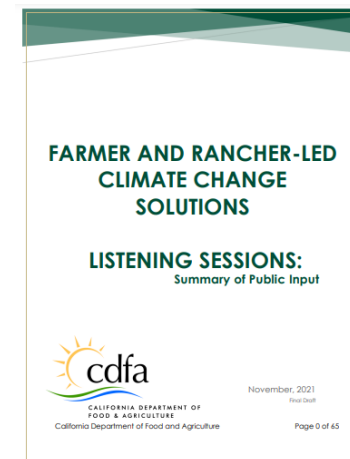
OPC Strategic Plan



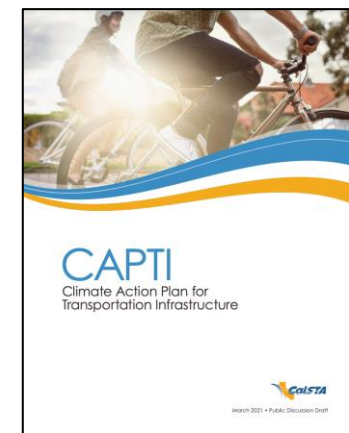
Wildfire/Forest Resilience Action Plan



Water Resilience Portfolio



Farmer/Rancher Led Climate Change Solutions



Climate Action for Transportation Infrastructure

And many more...

**NWL
CLIMATE SMART
STRATEGY**



NATURE-BASED

CLIMATE SOLUTIONS

California's Climate Smart Lands Strategy



NATURE-BASED CLIMATE SOLUTIONS

California's Climate Smart Lands Strategy

NATURAL AND WORKING LANDS CLIMATE SMART STRATEGY

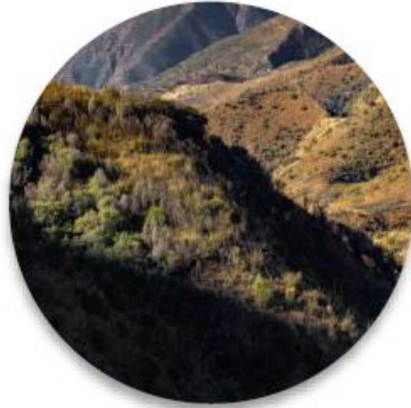


APRIL 22, 2022

CALIFORNIA'S NATURAL AND WORKING LANDS



Forest



Shrubland/
Chaparral



Grasslands



Wetlands



Croplands



Sparsely Vegetated Lands



Seagrasses & Seaweeds



Developed Lands

OVERARCHING GOALS

1. **Align existing state efforts** impacting natural and working lands under one cohesive strategy, and identify opportunities to improve our approaches over time.
2. **Increase awareness** of nature-based climate solutions and their ability to deliver environmental, economic, public health, and equity improvements in California.
3. **Guide and accelerate** both near-term and long-term **climate action on California's lands**, prioritizing durable solutions that deliver multiple outcomes
4. **Advance equity and opportunity** for all regions and residents of California as we implement nature-based climate solutions, and prioritize investments that benefit climate vulnerable communities.
5. **Begin to track and measure our collective efforts** to accelerate climate smart land management and meet natural and working lands targets identified in the state's Climate Change Scoping Plan.



INTRODUCTION



- Defines California's eight natural and working landscapes.
- Summarizes how these lands can deliver on our climate change goals – carbon neutrality and climate resilience.
- Describes how nature-based climate solutions can deliver on other priorities, such as improving public health, increasing our food and water security, and supporting economic prosperity.

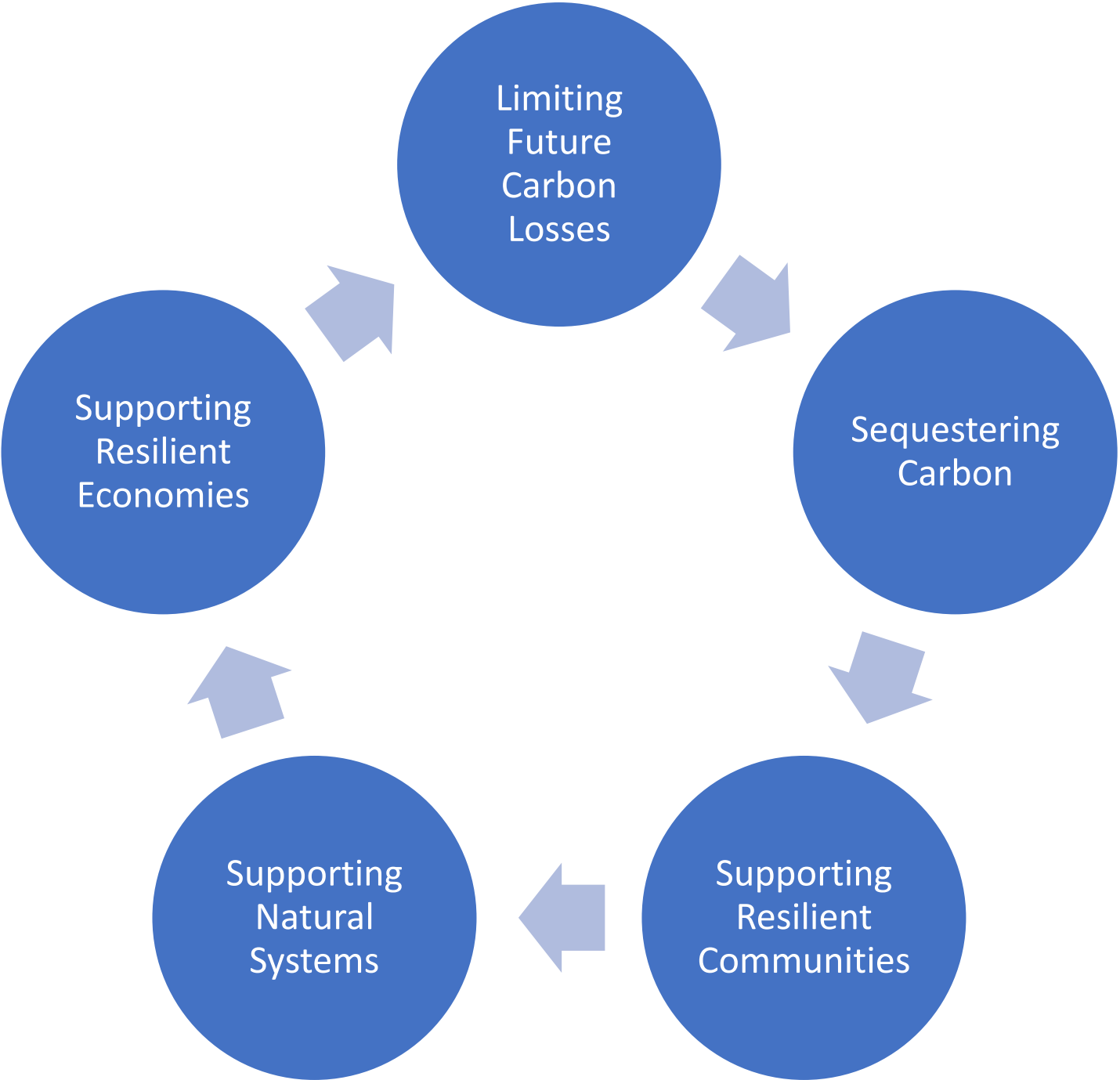
SUMMARY OF STATE ACTIONS

Summarizes existing efforts underway to drive climate smart land management in California:



- Legislative Directives
- Stewardship of State-Owned Lands
- Strategies and Plans
- Grant Funding
- Partnerships
- Science, Research, Data, Analysis
- Policies and Regulations
- Outreach, Education, Capacity and Technical Support
- Leveraging Funding and Finance
- Market Mechanisms
- Equity
- Tracking Action and Measuring Outcomes

PRIORITY APPROACHES



The NWL Strategy

describes the climate action potential

for each of California's natural and working landscapes.

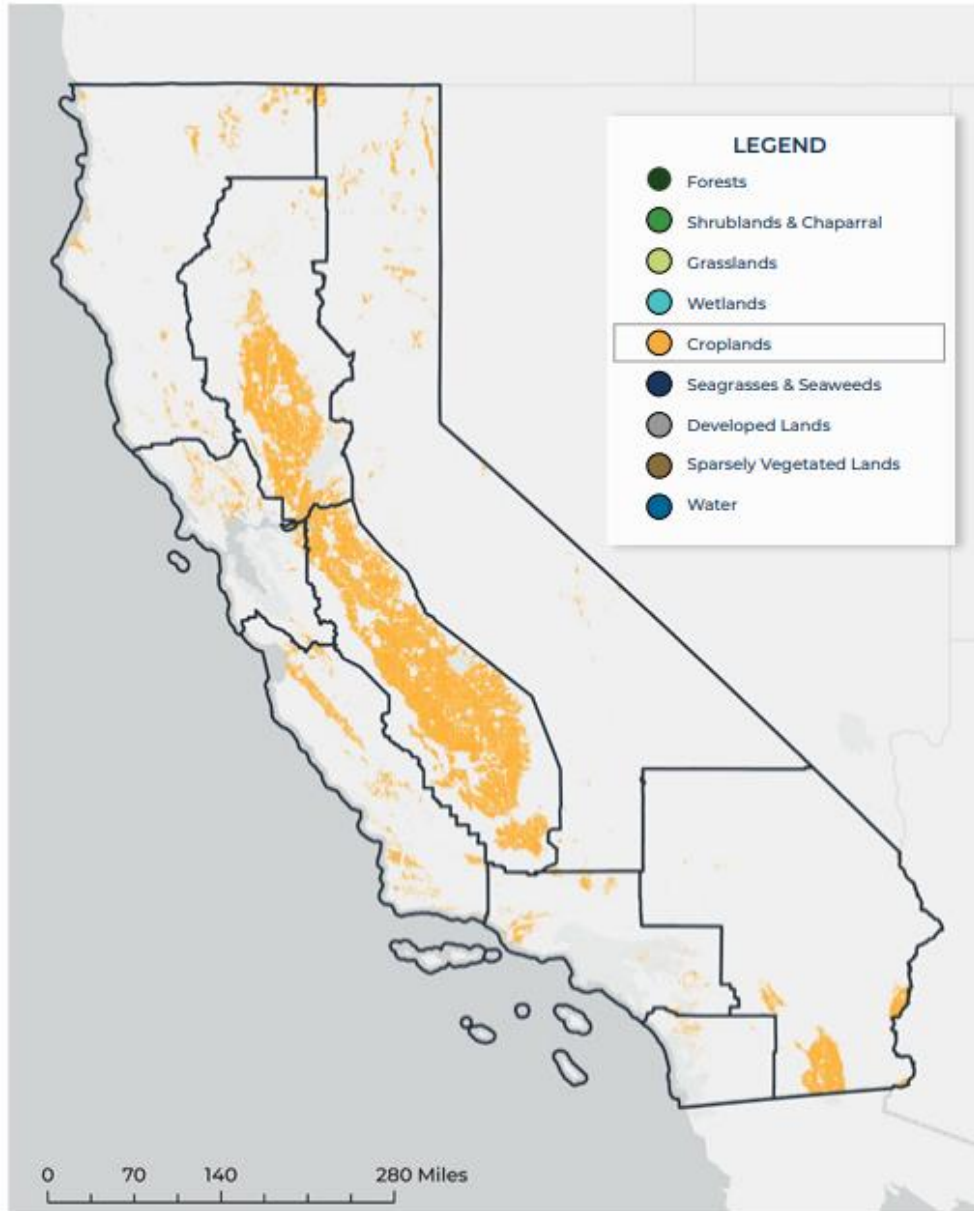
PRIORITY APPROACHES

The NWL Strategy

lists priority actions to deliver on our climate change goals

on each of California's natural and working landscapes.

- F.** Expand and maintain both urban tree canopy and green spaces to moderate urban heat islands, decrease energy use, and contribute to carbon sequestration. Close the tree canopy gap in low-income/disadvantaged communities, particularly those vulnerable to the impacts of extreme heat, hazardous air quality, and/or with the least access to nature.
- G.** Utilize place-based tree and plant selection and intensity with the principle of “the right tree for the right place,” to ensure the species selection process considers climate, water, and locally-specific circumstances.
- H.** Protect urban trees from pests, disease, and drought for as long as feasible, and seek the highest and best use for trees and other biomass that must be removed due to pests and disease or for valid management purposes.
- I.** Connect communities with greenways/greenbelts; consider how these landscapes can protect communities (particularly the most vulnerable) from climate impacts such as flooding, fires, heat, etc.
- J.** Protect and restore urban river/streams, riparian areas, floodplains, seasonal wetlands, and corridors.
- K.** Increase water-reuse and recycled water for urban green spaces.



PRIORITY APPROACHES

The NWL Strategy

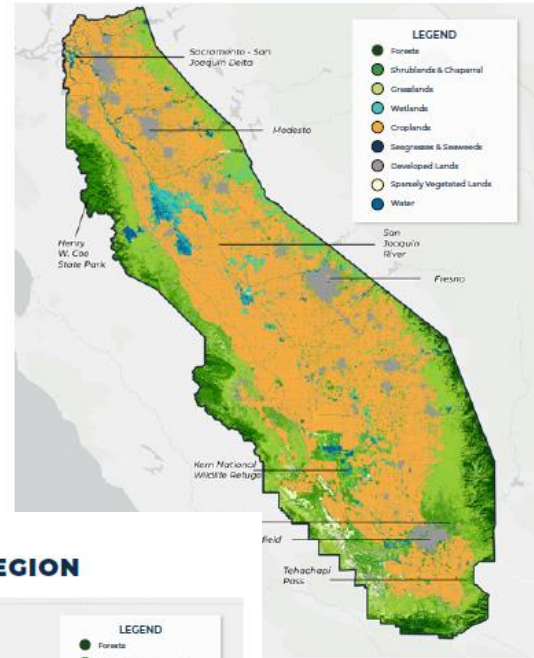
identifies where each natural and working landscape can be found

across California's 105 million acres.

**REGIONAL LAND COVER MAP
LOS ANGELES REGION**



**REGIONAL LAND COVER MAP
SAN JOAQUIN VALLEY REGION**



**REGIONAL LAND COVER MAP
SIERRA NEVADA REGION**



REGIONAL SNAPSHOTS

Explores opportunities for climate smart land management across all regions in California.



TRACKING ACTION, MEASURING OUTCOMES

The NWL Strategy identifies options to track nature-based climate action and measure progress.



NEAR TERM PRIORITIES

The Strategy outlines seven building blocks of the state's natural and working lands agenda in the near term and identifies key areas of focus within each.

BUDGET

CALIFORNIA'S CLIMATE BUDGET



California Climate Commitment | Multiyear Budget Agreement



\$13.8 Billion
Clean Transportation



\$10.1 Billion
Zero-Emission Vehicles



\$8.7 Billion
Drought & Water Resilience



\$8.2 Billion
Clean Energy & Reliability



\$2.8 Billion
Wildfire & Forest Resilience



\$1.5 Billion
Community Resilience



\$1.4 Billion
Nature Based Solutions



\$1.2 Billion
Sustainable Agriculture



\$1.1 Billion
Coastal Resilience



\$975 Million
Climate Homes



\$723 Million
Climate Schools & Research



\$477 Million
Climate Innovation



\$443 Million
Circular Economy



\$404 Million
Extreme Heat



\$321 Million
Climate Health



\$315 Million
Climate Jobs



\$52.3 BILLION TOTAL

July 2023



California
Climate Action

RECORD FUNDING FOR NATURE-BASED CLIMATE SOLUTIONS

Some program examples include...

Forest Conservation Program | California Desert Conservation Program | Riparian Habitat Conservation Program | NWL Climate Adaptation and Resiliency Program | Urban and Community Forestry | Multi-benefit Land Repurposing Program | Healthy Soils Program | Forest Health Program | State Conservancies Support for Nature-Based Solutions | Urban Agriculture | Climate Smart Land Management Program | Forest Improvement Program for Small Landowners | Rangeland, Grazing Land & Grassland Protection Program | Local and Tribal Nature-Based Solutions Corps | Urban Greening Program | Tribal Nature-Based Solutions Program | Compost Permitting Pilot Program | Forest Legacy Program | Post-Fire Reforestation and Regeneration | Regional Forest Capacity | Streamflow Enhancement Program | Aquatic Habitat and Drought Resilience and Expediting Large Scale Habitat | Green Schoolyards | Healthy and Resilient Forests | Oak Woodlands Conservation Program | Nature-Based Solutions Wetlands Restoration Program

LEGISLATION

LEGISLATIVE MANDATE

AB-1757 California Global Warming Solutions Act of 2006: climate goal: natural and working lands

- Determine an **ambitious range of targets** for the NWL sector.
- Integrate these targets into the Scoping Plan and other **relevant state policies**.
- Improve and standardize GHG emissions **accounting** for the NWL sector, including co- benefits.
- Review and update the Natural and Working Lands Climate Smart **Strategy**.
- Provide recommendations on **modeling and analysis** to make decisions on best available science.
- Establish an **Expert Advisory Committee**.
- Develop **standard methods for tracking** GHG and resilience benefits from NWL climate action.
- **Report on progress** toward meeting NWL targets.