UNITED STATES CLIMATE ALLIANCE

Carbon Sequestration on Natural and Working Lands

Governor's Task Force on Climate Change May 21, 2020

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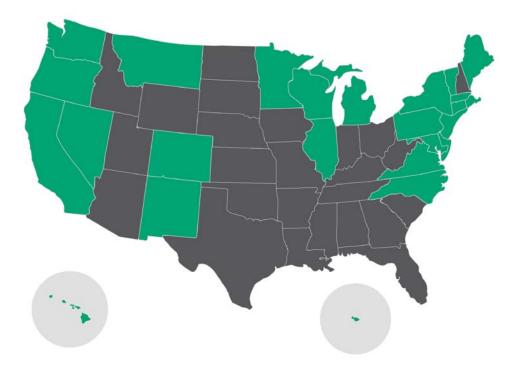
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- NWL Climate Solutions Overview
- Opportunities & Policy Examples for:
 - ✓ Agriculture
 - ✓ Forests
 - ✓ Natural Areas
 - ✓ Towns & Cities
- Carbon Markets



U.S. Climate Alliance

U.S. Climate Alliance

Bipartisan coalition of 25 governors cooperating to tackle climate challenge.



Alliance States commit to:

- 1. Reduce GHGs by at least 26-28 percent below 2005 levels by 2025;
- 2. Track and report progress; and
- 3. Accelerate implementation of existing and new policies.



UNITED STATES CLIMATE ALLIANCE **Natural & Working Lands Challenge**

DO YOU ACCEPT THE #NWLCHALLENGE?

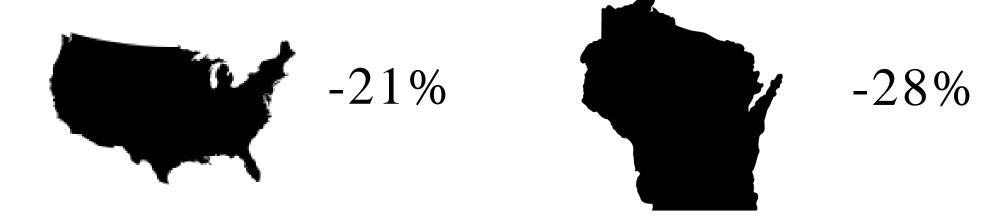
- Improve inventory methods
- Identify best practices for conservation and management
- Advance programs, policies, and incentives to reduce GHG emissions and enhance resilient carbon sequestration
- Integrate actions and pathways into state GHG mitigation plans

Natural and Working Lands Climate Solutions Overview

Natural and Working Lands Climate Solutions

Forests, Farms, Grasslands, Wetlands, Urban Forests...

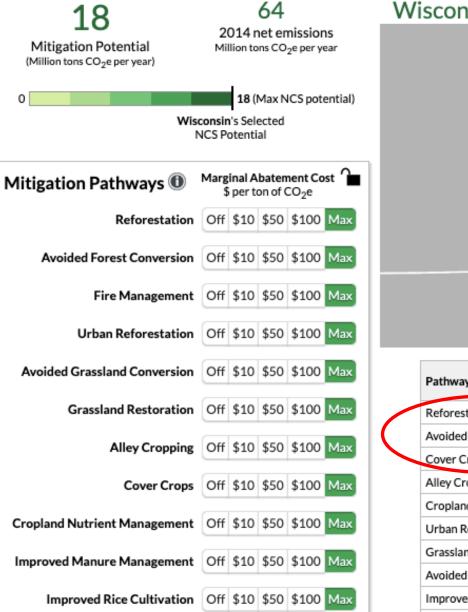
Conservation - Restoration - Improved Management





Natural Climate Solutions for the U.S.

National State





Pathway	NCS Mitigation (Mt CO ₂ per year)	Area Available (million acres)
Reforestation	6.8	2.64
Avoided Grassland Conversion	4.02	0.05
Cover Crops	2.57	5.41
Alley Cropping	2.03	0.94
Cropland Nutrient Management	1.36	N/A
Urban Reforestation	0.33	0.14
Grassland Restoration	0.33	0.14
Avoided Forest Conversion	0.28	0.05
Improved Manure Management	0.21	N/A
Fire Management	N/A	N/A
Improved Rice Cultivation	N/A	N/A

18M tons CO2e/year ~9.3M acres biological potential

1. Reforestation

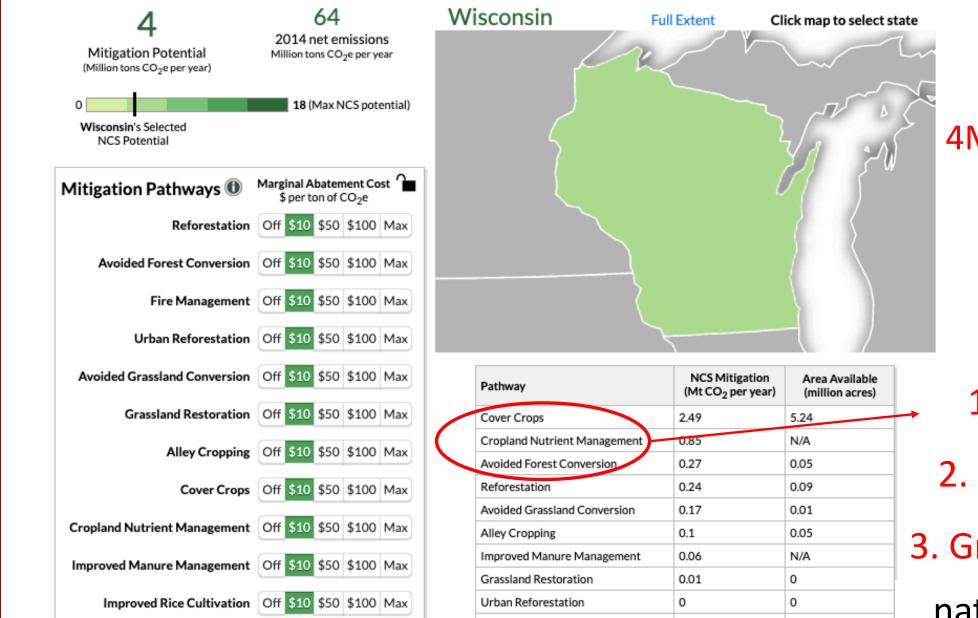
2. Grass Conservation

nature4climate.org

^{3.} Cover Crops

Natural Climate Solutions for the U.S.

National State



Fire Management

Improved Rice Cultivation

N/A

N/A

N/A

N/A

4M tons CO2e/year ~5.4M acres at \$10/ton

1. Cover Crops

2. Nutrient Mgmt.

3. Grass Conservation

nature4climate.org

Strategic Considerations

- Complementary objectives (multiple benefits)
- Statutory enablers and restrictions
- Programs, institutions, partners (federal, NGO, private)
- Funding, current and future
- Climate resilience needs and objectives



Opportunities and Policy Examples

General

- Public landowners: Setting management objectives
- Private landowners:
 - Conservation easements and temporary restrictions on conversion
 - Compensation for practices (grants, tax credits, de-risking)
 - Compensation for outcomes (payments for ecosystem services)
 - Carbon as a co-benefit of existing management objectives





Farmland Soil Health







Photo: The Nature Conservancy

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Carbon Markets

Carbon Offset

- A carbon offset is defined by its protocol
- Regulatory vs. Voluntary markets
- Market actors: landowner, project developer, verifier,
 registry, broker, buyer

• Consider transaction costs







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CLIMATE ACTION RESERVE



Carbon Markets

	Regulatory	Voluntary
Example	California	Verra/VCS
Demand	Compliance	Corporate Goals
Prices	\$12/ton	\$4/ton
Consider	CA statute	CSR shifts



Carbon Markets: On the Horizon

- Interest in regenerative agriculture: Ecosystem Services Market Consortium, Indigo, Nori
- Local TMDL requirements/ water quality
- Family Forests: Working Woodlands
- ... beyond offsets?



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Thank you

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