MAWIGNACK PRESERVE

SCENIC HUDSON

PROTECTING AND RESTORING A FLOODPLAIN

MAWIGNACK PRESERVE (Town of Catskill, Greene County)
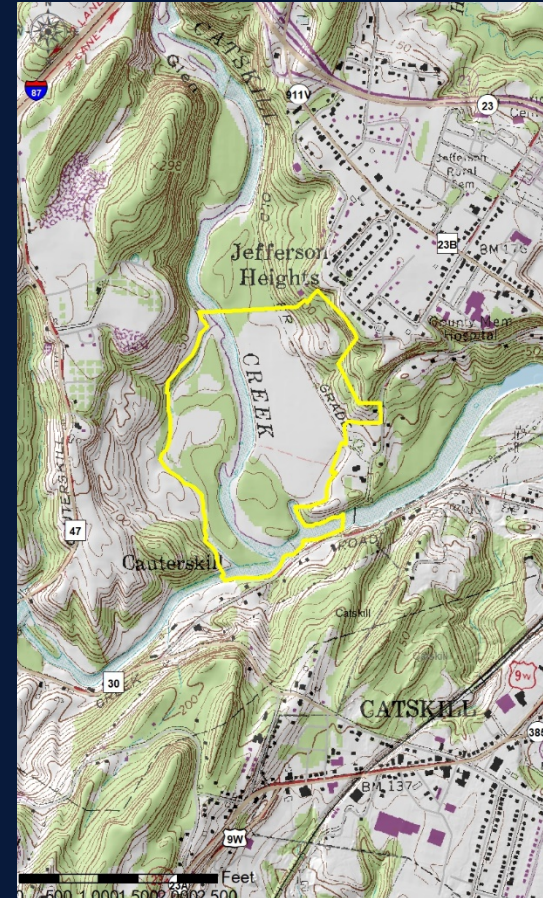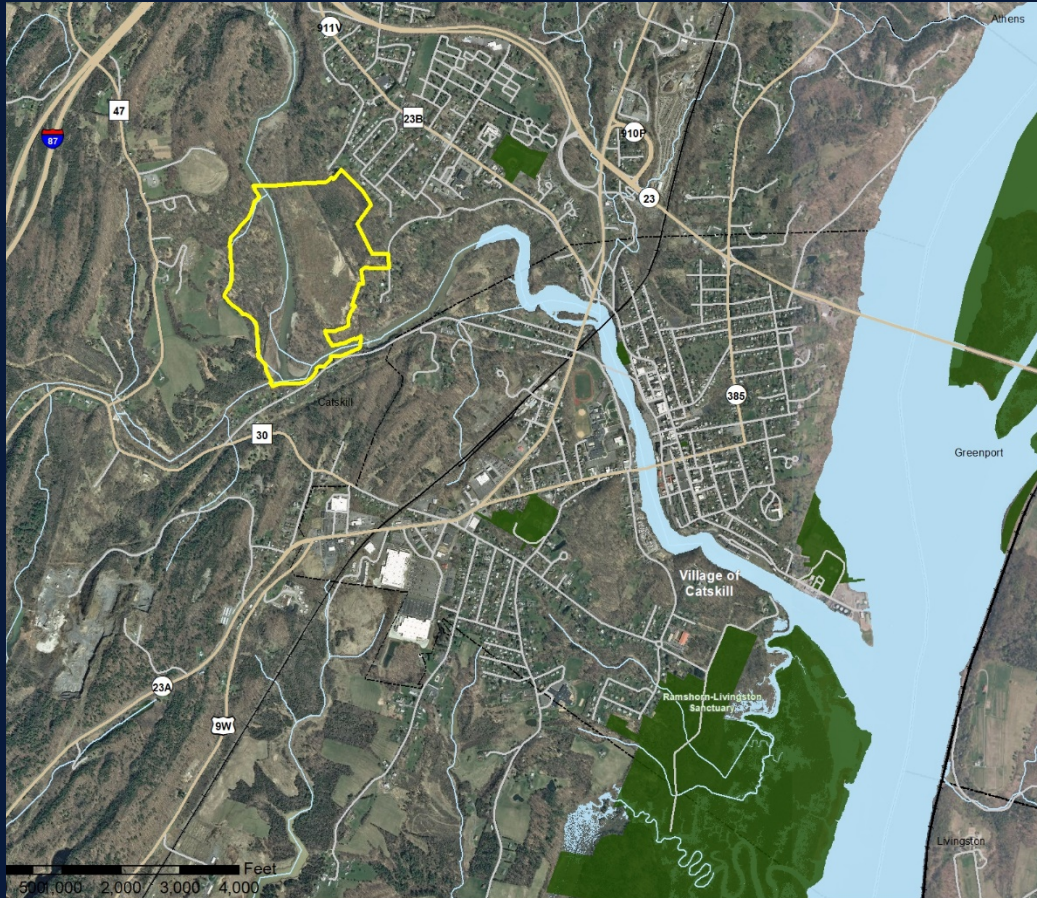
MAWIGNACK PRESERVE

Restoration goals:

- Flood resilience

- Habitat

Trail Map

- – – Loop Trail (1 mile)
- ■ Parking Area
- ⬭ Informational Kiosk
- □ Property Boundary
- ✴ Wet Areas
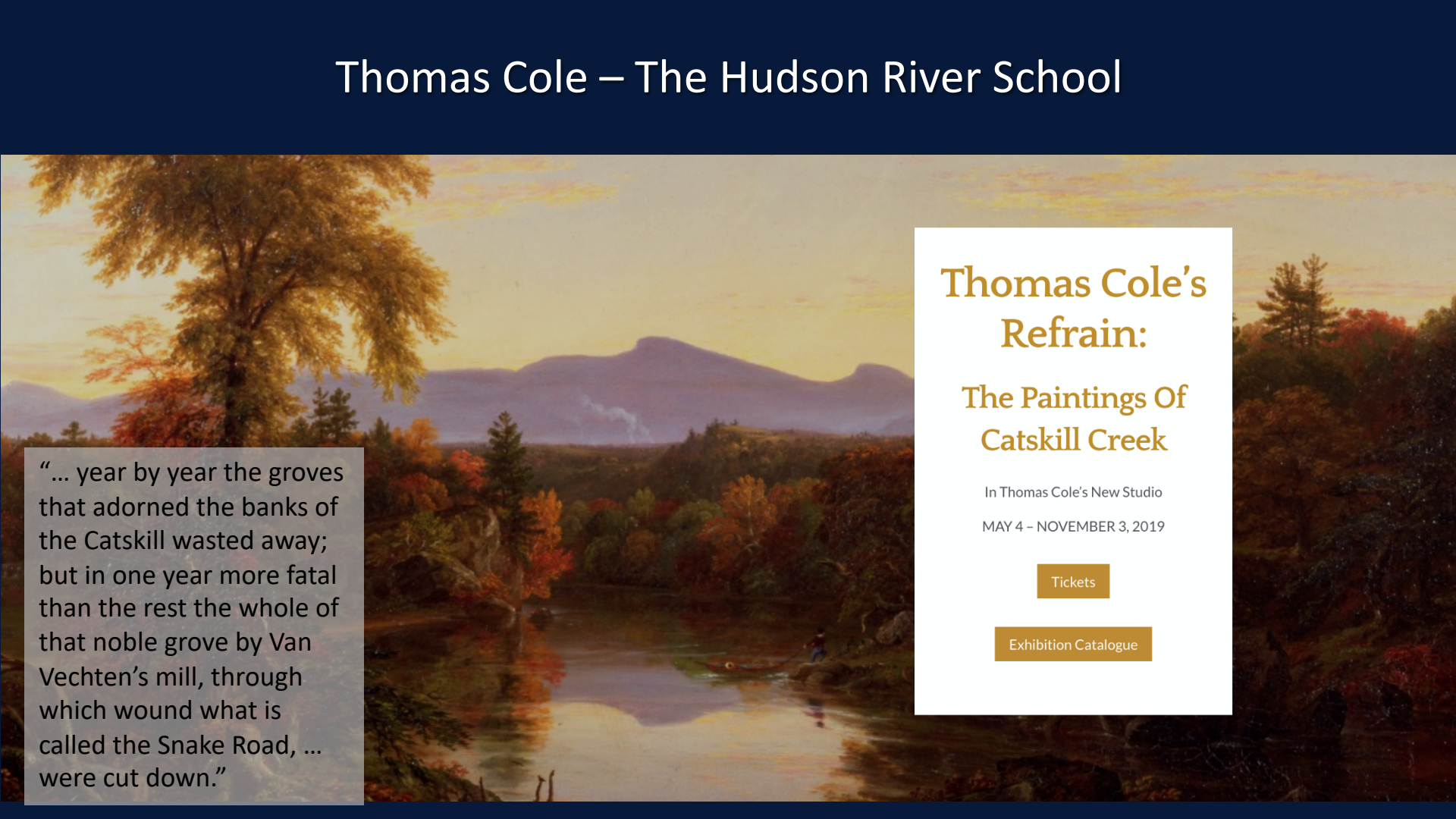
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land ■ parks ■ advocacy

Managed by –

Greene Land Trust

You are here

Scenic Hudson Property

Catskill Creek

Raaterskill Creek

Van Vechten House

Snake Road

Thomas Cole – The Hudson River School

"… year by year the groves that adorned the banks of the Catskill wasted away; but in one year more fatal than the rest the whole of that noble grove by Van Vechten's mill, through which wound what is called the Snake Road, … were cut down."

Thomas Cole's Refrain:

The Paintings Of Catskill Creek

In Thomas Cole's New Studio

MAY 4 – NOVEMBER 3, 2019

Tickets

Exhibition Catalogue

Catskill Waterfront Resilience Task Force 2014

RESILIENT CATSKILL

Report of the Catskill Waterfront
Resilience Task Force

Floodplain
RamsHorn Marsh
Marsh Buffer/Migration
Future tidal wetland/shallows

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FLOODPLAIN FOREST FUNCTION

Photo: John Halpern

FLOODPLAIN FOREST FUNCTION

- Reduce flow velocity

- Reduce peak flows (flood magnitude)

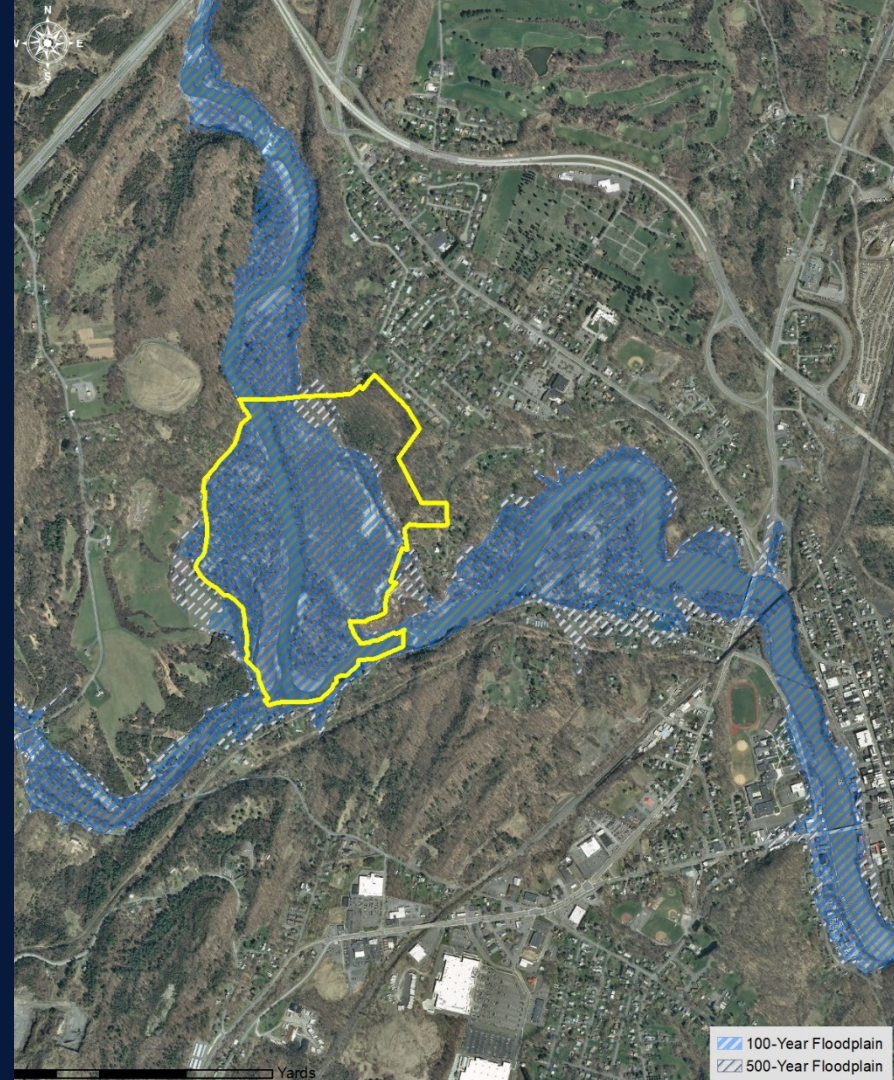- Reduce downstream siltation

100-year floodplain

500-year floodplain
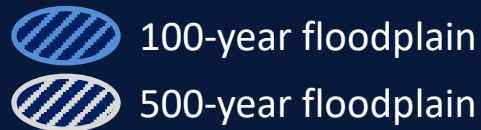
Mawignack's 40-acre Meadow

Mugwort (*Artemisia vulgaris*)

Floodplain Forests at Mawignack

From NY Natural Heritage Program

Photo: Gregory J. Edinger
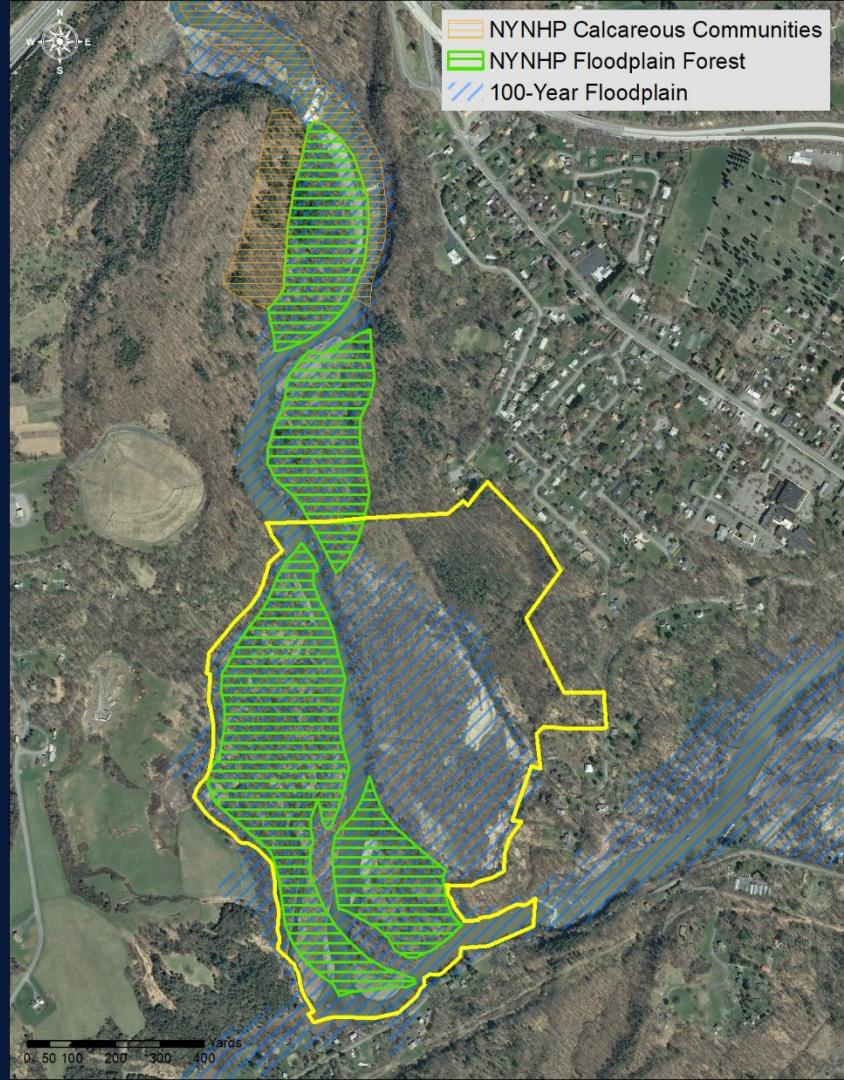
Floodplain Forest Community

- A variable community type

- Disturbance-adapted, rich in minerals/nutrients

- Can be very diverse

- Important wildlife corridors

- Reduces flooding and downstream siltation

- NYNHP S2S3 rank - only a fraction of original extent remains, mostly small degraded patches

Floodplain Forest Community

Typical Species

- Sycamore
- Green ash
- Cottonwood
- Sliver maple
- American elm
- Box elder
- Hackberry
- Leatherwood
- May apple
- Ostrich fern
- Green dragon
- Goldenseal
- Sedges

Photo: Steve Young

Goldenseal

Photo: Tie Guy II (Wikipedia)

Green dragon

Photo: Dave Menke/USFWS

Red-headed woodpecker

Floodplain Forests at Mawignack

From NY Natural Heritage Program:

- Excellent/Good viability

- Intact hydrology, diverse species/forest types

- Possible old growth

- Locally abundant exotic species

- 40 ac meadow: "recoverable"

Legend:
- NYNHP Calcareous Communities
- NYNHP Floodplain Forest
- 100-Year Floodplain

Floodplain Forests Restoration

Planting area:

- Repeated mowing of mugwort (prep and maintenance)

- P

- S

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Trail
100-Year Floodplain
500-Year Floodplain
Planting area

Yards

Three day Hudson Valley SCA Corps project

Three day Hudson Valley SCA Corps project

150 trees and shrubs:

- Red maple
- Silver maple
- Sycamore
- Hackberry
- Flowering dogwood
- Spicebush
- Nannyberry
- Witchhazel
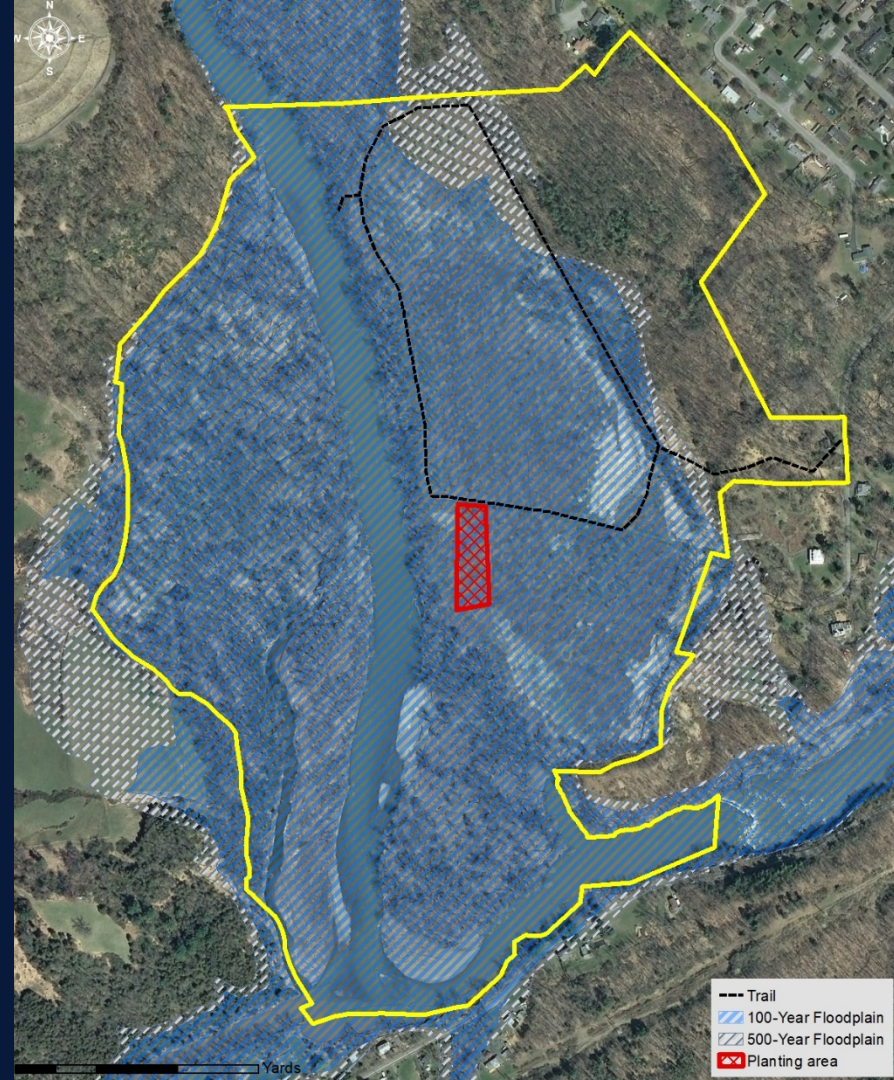
student conservation association
sca®

Mawignack floodplain planting: fencing installed

Mawignack floodplain planting

Before

After

Photo: Arthur Haines

Mawignack floodplain planting

Fall 2020:

Plant 30-50 disease resistant American Elms from The Nature Conservancy

Photo: Donald Cameron

Photo: Arthur Haines

CLIMATE CHANGE: Natural Climate Solutions

The Nature Conservancy

https://www.nature.org/en-us/magazine/magazine-articles/carbon-capture/

INFOGRAPHIC

The Green Path to a Stable Climate

We Must Cut 30 Gigatons A Year Of Carbon Emissions By 2030 If We Are to keep global temperature increases well below 2 degrees Celsius, (3.6 degrees Fahrenheit). Nature can reduce more than one-third of the emissions needed to hit this goal if countries invest in carbon-storing forests, grasslands, wetlands and farmlands.

19 gigatons

CLEAN ENERGY

NATURE

11 gigatons

Weighty Matters

A gigaton equals 1 billion metric tons —the equivalent of about 3,000 Empire State Buildings. Carbon figures below are in **millions of metric tons**.

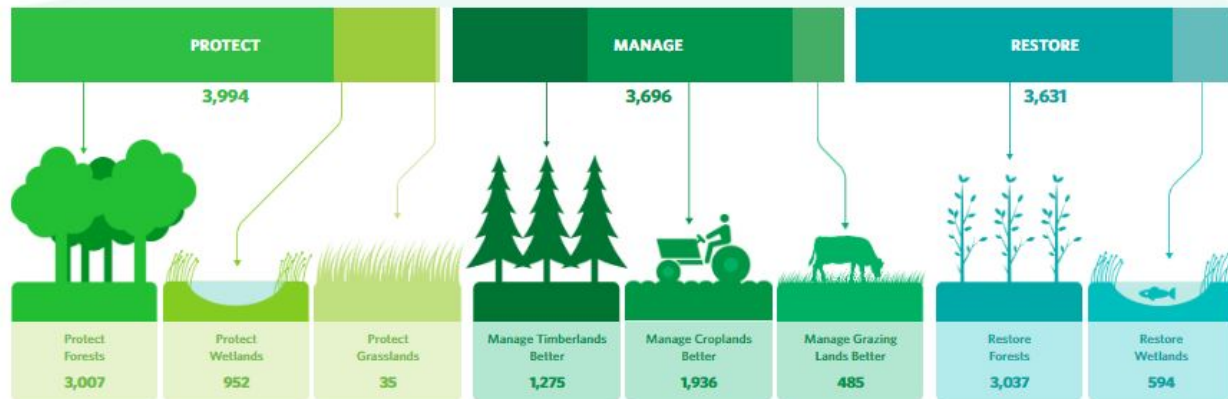Of the 30 gigatons of excess carbon in the atmosphere each year, 11 gigatons could be removed using nature itself.

PROTECT			MANAGE			RESTORE	
3,994			3,696			3,631	
Protect Forests	Protect Wetlands	Protect Grasslands	Manage Timberlands Better	Manage Croplands Better	Manage Grazing Lands Better	Restore Forests	Restore Wetlands
3,007	952	35	1,275	1,936	485	3,037	594

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PROTECTING AND RESTORING A FLOODPLAIN