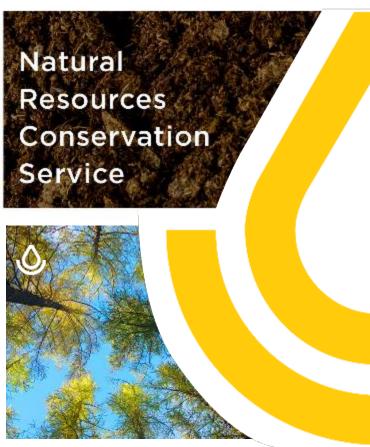


**United States Department of Agriculture** 





Luis Cruz-Arroyo, USDA-NRCS Caribbean Area Director <a href="mailto:luis.cruz-arroyo@usda.gov">luis.cruz-arroyo@usda.gov</a> (787) 405-7368

Natural Resources Conservation Service

nrcs.usda.gov/

### Who We Are



# Mission: We deliver conservation solutions so agricultural producers can protect natural resources and feed a growing world.









Vision: A world of clean and abundant water, healthy soils, resilient landscapes and thriving agricultural communities through voluntary conservation.







Natural Resources Conservation Service





### What We Do





# Soil, Water, Air, Plants, Animal & Energy













Natural Resources Conservation Service



# **Objectives:**

Healthy and productives soils

Reduce soil erosion

Improve water quality

- •Healthy and balanced plant and animal communities.
- Clean air
- Sustainable farm operations



#### 9-Step Planning Process

- **Identify Problems and Opportunities**
- **Determine Objectives**
- **Inventory Resources**
- **Analyze Resource Data**
- 5. Formulate Alternatives
- 6. Evaluate Alternatives

- 7. Make Desicions
- 8.Implement the Plan
- 9. Evaluate the Plan

#### HOW CONSERVATION PLANNING WORKS A NINE-STEP PROCESS



Identify Problems and Opportunities

Initial opportunities and problems are first identified while working with the customer.

The customer identifies their objectives, while the planner guides the process so that it includes the customer's needs and values, the resource uses, and on-site and off-site ecological protection.

Determine

Objectives

Natural resource, economic, and social information for the planning area is collected to further define problems and opportunities. develop alternatives, and evaluate the plan.

Inventory

Resources

The planner studies the resource data and defines existing conditions for all the identified natural resources, including limitations and potentials for the desired use.

Analyze

Resource Data

Alternatives are formulated that achieve the customer's objectives, solve identified concerns. and take advantage of opportunities to improve or protect resource conditions.

5

Alternatives are evaluated to determine their effectiveness in addressing the customer's problems, opportunities. and objectives.

6

Evaluate

Alternatives

The customer selects their proforred alternatives and works with the planner on practice implementation.

Make

Decisions

The customer implements the solocted alternatives. The planner provides the land manager with detailed practice implementation

information.

the Plan

The planner evaluates the effectiveness of the plan in solving the resource concerns and works with the customer to make adjustments as needed.

the Plan

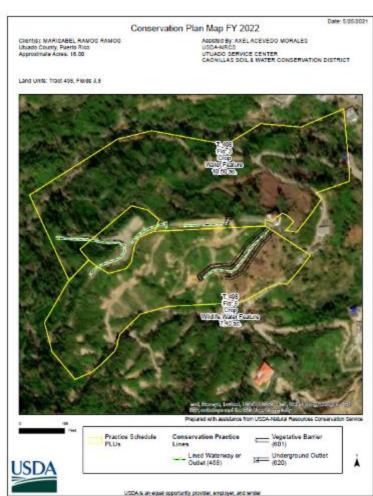


# **NRCS Products**

Conservation Plan for your Farm







#### **Recommended Practices**

- Reduced Tillage (329)
- Contour Farming (330)
- Cover Crops (340)
- Nutrient Management (590)
- Pest Management (595)
- Vegetative Barriers (601)
- Filter Strips (393)
- Hedgerow Planting (422)
- Obstruction Removal (500)
- Water and Sediment Control Basin (638)
- Pond (378)
- Irrigation Water Management
- Heavy Use Area (561)
- Riparian Forest Buffer (391)







# **© Climate and Equity**





#### **USDA** Priorities

Today, containing the pandemic, **ensuring racial justice and equity**, responding to a mounting hunger and nutrition insecurity crisis, rebuilding the rural economy, strengthening and building markets for farmers and producers, **and addressing the impacts of climate change** are our top priorities. Amid these challenges, we are tasked with delivering fundamental services— safe and nutritious food, clean water and last-mile broadband, energy security, sound infrastructure, business services, and tackling the climate crisis. *In rural America—which holds a special claim to USDA's mission—we must build back better, stronger, and more resilient and* equitably *than ever before.* 

Statement by **Thomas J. Vilsack Secretary of Agriculture** Before the Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Committee on Appropriations, U.S. House of Representatives April 14, 2021



# USDA to Invest \$50 Million in New Cooperative Agreements for Racial Justice and Equity

Supporting Historically Underserved Farmers & Ranchers



Projects to expand the delivery of conservation assistance to beginning, limited resource, socially disadvantaged and veteran farmers to implement natural resources conservation practices that:

- Improve soil health;
- Improve water quality;
- Provide habitat for local wildlife species of concern;
- Improve environmental and economic performance agricultural land

Build and strengthen local food projects.



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# **Priority Areas**

- 1. Increase Soil Health
- 2. Look for opportunities to look for **Climate Smart**Practices
- 3. Identify and address resource concerns at Landscape level.







Natural

# Soil Health Principles

- Minimize Soil
   Disturbance
- Maximize Soil Cover
- Maximize Biodiversity
- Maximize Presence of Living Roots









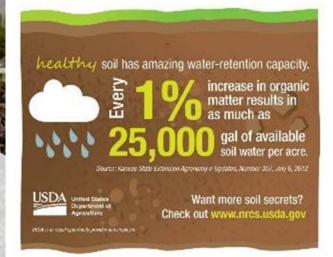
**Benefits of Soil Health** 

- Increase Organic Matter in Soil
- Increase Microbiological Activity
- Increase Nutrient Recycling
- Increase Water Retention in Soils
- Improves Water Quality
- Minimizes Energy Consumption
- Reduce Soil Erosion

USDA-NRCS SOIL HEALTH INFOGRAPHIC SERIES #002

what's underneath







### 

- Maximize water capture
- Maximize irrigation efficiency
- Interconnect systems like a tool to manage risk.

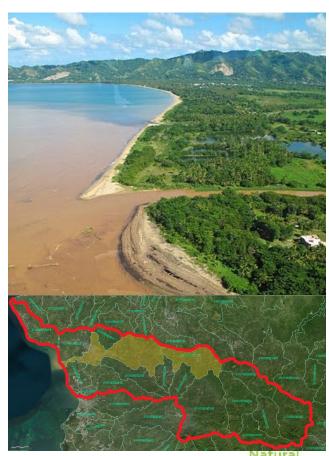


Santa Isabel, PR



# Watershed level projects

- Drains one of the largest watersheds in Puerto Rico covering 164,480 acres.
- Ranked 5 on the list of impaired watersheds in the Puerto Rico Unified Watershed Assessment.
- Some of these pollutants are related to ag sources such as fertilizers, pesticides and manure from crop and pasture lands.
- Initiative will address Concentrated erosion,
  Degraded plant condition, Field sediment, nutrient
  and pathogen loss, and Aquatic and Terrestrial
  habitat loss.







# **Other Programs**

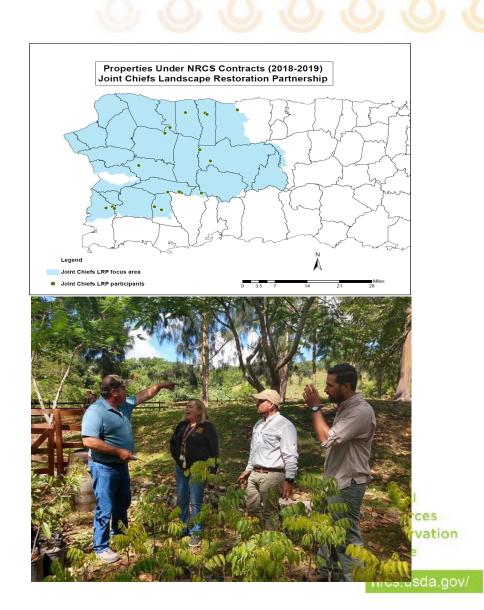
#### **Joint Chief Initiative**

Partnership with DNER, USFWS, Distrito de Conservacion, PLN, Envirosurvey, Protectores de Cuentas and Cafiesencia.

6 completed and certified Stewardship Management Plans from the 24 planned to be completed at the end of this initiative.

2,000 acres to be impacted from the first 20 farms from FY 2018 and 2019.

6, 500 native trees planted.





#### Some of our Results

- 18,405 impacted acres
- 6,516 impacted acres in Soil Health
- 13,079 acres impacting water quality
- 8,000 planted trees
- 767 acres of habitat improvement





#### Get Involve

- Local Working Groups
- Soil and Water **Conservation Districts**
- Partnership **Opportunities**

























#### **NRCS Field Offices**



#### Caribbean Area Offices

Caguas Field Office \* St Croix Field Office

Corozal Field Office 

Utuado Field Office

Juana Diaz Field Office















**US Virgin Islands** 



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# Caribbean Area Website - www.pr.nrcs.usda.gov



#### Bee-Friend Pollinators for National Pollinator Week June 22-28!

Did you know 75% of the world's flowering plants & more than 30% of the world's food crops depend on pollinators to reproduce? Find out how YOU can help our pollinators! ¡Descubre cómo TÚ puedes ayudar a nuestros polinizadores!



#### 2/5

In the News

**Events & Deadlines** 

OP ED: Caribbean Area Farmers
 Use Conservation Practices to
 Protect Pollinator Habitat, Boost
 Crop Production

#### **Highlights**

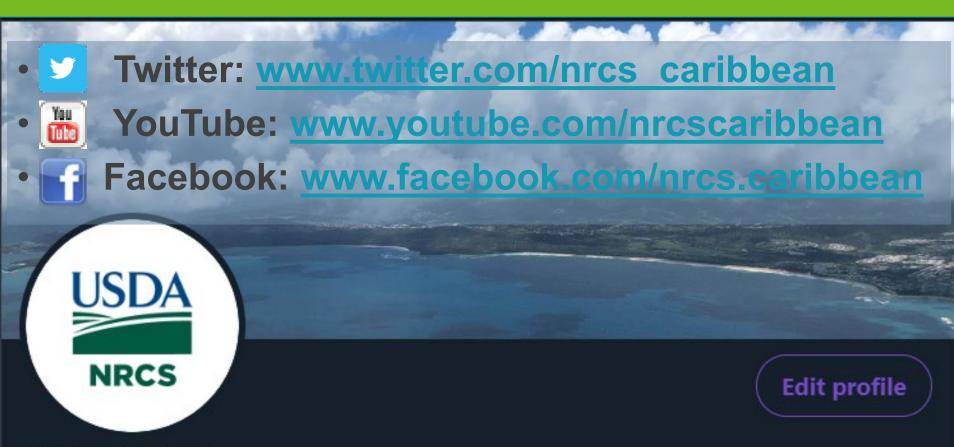
Caribbean Landscape Initiatives
Climate & Drought in the Caribbean Area
Hurricane Recovery
Soil Health



Conservation Compliance Go



### Caribbean Area Social Media



**NRCS-Caribbean** 

@NRCS\_Caribbean

Through a network of local field offices, USDA Natural Resources Conservation



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