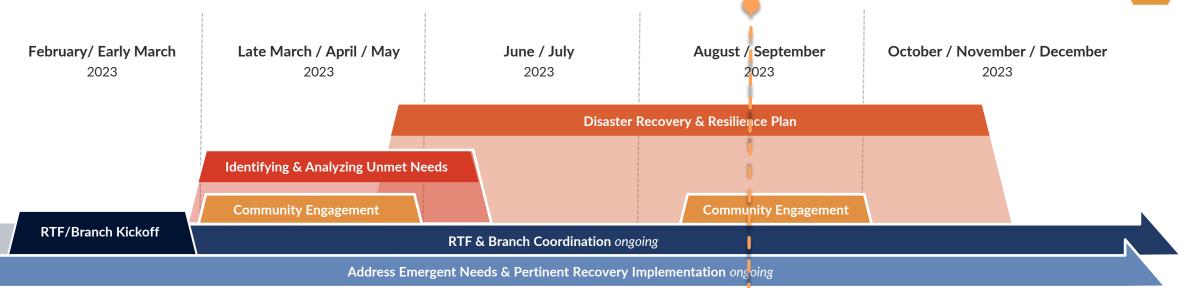


RESILIENT LEE

RESILIENTLEE.ORG

Timeline for Long-term Recovery Planning





RTF / Branch Kickoff

Establish the working structure for RTF and launch branches. Identify immediate needs and goals to address.

Launch website.

RTF & Branch Coordination

Identify recovery objectives; inform impact and needs assessment: establish projects; incorporate community's priorities; inform long term planning; oversee recovery plan implementation.

Identifying & Analyzing Unmet Needs

Hurricane Ian storm impact analysis, and a cursory look at outstanding needs that will begin to shape recovery priorities.

Community **Engagement**

Comprehensive community outreach to inform and validate needs. identify solutions, and validate planning.

Hurricane Ian **Disaster Recovery** & Resilience Plan

A framework for Lee County's recovery from Hurricane lan, including prioritized projects, funding sources, and kev stakeholders.

Emergent Needs & Pertinent Recovery Implementation

Conduct recovery operations and manage recovery funding streams: short-term. intermediate, long-term.

RTF is forum to identify emergent and time sensitive needs and identifying best path forward.



Meeting Purpose





Review/validate Natural Resources Initiative Profiles.



Introduce New Proposed Natural Resource Initiative Structure.



Discuss Branch Action Plan.





Initiative Profiles

Questions and Next Steps

One on One Meetings



Number of Meetings

12

Objectives

Review Projects and Initiatives with RTF Members and stakeholders to garner feedback in gaps and overall alignment.

Next Steps

Incorporate feedback into Branch Action Plans.

Validated and updated initiative and project alignment



Groups:

- **Municipal Governments**
- **Sheriff's Office**
- **School District**
- **State Delegation Chair**
- **Property Appraiser**
- **Fire Chiefs**
- **Jurisdictional Leadership** including:
 - City Managers
 - Assistant City **Managers**
 - Department Heads
 - Public Information **Officers**



Initiative Profiles

Questions and Next Steps

Branch Action Plans

What is a Branch Action Plan?



- Initiatives each branch wants to submit to the RTF for consideration of inclusion in the plan.
- These will include the recommended initiatives defined as new projects, policy changes, and current project prioritizations from the eight Branches.

Purpose:

- Provide **prioritization** recommendations for existing plans and projects;
- Recommend **new initiatives**; and
- Identify key policy changes that can support community resilience.





Initiative Profiles

Questions and Next Steps

How to Read an Initiative:

Initiative Title and Number

Each Initiative has a unique title that briefly describes its purpose, and unique identifying number. The number indicates the strategy that the action supports.

Initiative #.#.#

LEAD: [Department Lead]

POTENTIAL FUNDING SOURCE:

Organization's Name

· Organization's Name

· Organization's Name

· Lorem ipsum dolor sit amet

WHERE IS THIS ACTION INVOLVED?

Resources

Ixxxi Plan Name.

IxxxI Plan Name.

RESILIENT

| lxxxj Plan Name..

· Funding Source's/Program Name

· Funding Source's/Program Name

ORGANIZATIONS WITH POTENTIAL FUNDING:

Initiative Description + Progress

tempor incididunt ut labore et dolore magna aliqua.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do

eiusmod tempor incididunt ut labore et dolore magna aliqua

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod

tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit

amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore

et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing

elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod

Lead

The lead represents the primary organization or position charged with overseeing the action's implementation.

Initiative Description + Progress

The description provides a high-level overview of each action that explains its purpose in the Recovery Action Plan.

Funding

Potential funding or organizations with potential funding are listed here.

Resources

The resources are identified information, guidance, and/or equipment necessary to support implementation.

Where is this Initiative Involved?

Connections to relevant planning documents are noted in this section.

Priority Level

The following indicators show the action's priority level (low, medium, or high). Three filled in boxes means high, two means medium, and one means low.

Project Partner Type

Each icon shows the type of project partners(s) to support action implementation. They can be Cityled (left), Community-led (middle), or Private-Public Partnership-led (right).

Met Needs

Met needs displays the number of priorities that the action addresses.

Measures of Success

Implementation Steps

at all project phases.

The steps outline actionable tasks

that are needed for implementation

Measures of success identify key milestones of successful action implementation.

Partners

Initiatives may require assistance from community partners, which are noted here.

MEASURES OF SUCCESS Finalized agreements example □ Increase of something example Implementation of an example

Quality of Life

PARTNERS: 0-

Implementation

The steps

- Partner's Name
- · Partner's Name Partner's Name

OBJECTIVE I.1

MET NEEDS

Economy

3 2

PRIORITY LEVEL

- Partner's Name
- Partner's Name Partner's Name

outline actionable tasks that are needed

Initiative #.#.#

Pages #, #, #, #

Panes # # # #

Implementation Steps

1. STEP TITLE (#-# Months/Years)

- Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labor. aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididum
- · Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore

2. STEP TITLE (#-# Months/Years)

· Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna



Initiative Profiles



NR01 Identify regulatory actions, including policies and incentives, to reduce impacts on natural resources and the environment.

NR02 Identify direct actions to improve hydrological and ecological conditions.

NR03 Create public education and awareness campaigns to reduce the impact on natural resources.



Current Initiative Profiles Status: Green Infrastructure



DRAFT

Natural Resources Regulatory Actions

Natural Resources Branch

INITIATIVE DESCRIPTION (continued)

The water management focus recommends improving water quality through the following program areas below:

Septic-to-Sewer Conversion (Coastal Floodplains)

The purpose of septic-to-sewer conversion is to increase to overall number of individuals in the municipalities sewer system since individual septic tanks have a higher risk of releasing bacteria and damaging water quality.

Green Infrastructure

Green infrastructure or nature-based solutions is incorporating natural features and processes into humanmade environments that receive, manage, and enhance overall environmental quality of storm and surface water (runoff). Green infrastructure techniques apply to the use of soils for percolation, vegetation for infiltration, evapotranspiration, and/or recycling of stormwater runoff in efforts to minimize nutrient loading and pollution of freshwater and estuarine systems.

· Stormwater Drainage Design Criteria

Stormwater Drainage Design Criteria are design requirements which can include city evaluations, 25-100-year storm criteria, or best practices above and beyond general permitting markers.

Please note that some of the program focuses (Green Infrastructure and DR/GR) are overlayed in both Land and Water Management but outlined in Land Management.

Wildlife Protection

Hurricane lan destroyed many habitats in Lee County due debris and the decrease in water quality. The preservation of these habitats comes from regulations that are formed from understanding the species needs and the county's resiliency and recovery plan to rebuild

Natural Resources Regulatory Actions

DRAFT

Natural Resources Branch Action Plan

Recommended Implementation Steps (continued)

RECOMMENDATION 3: DEVELOP POLICY TO IMPROVE WATER QUALITY

(DEC. 2023-AUG. 2024) (EST. COST - \$XX.X) LEADS - LEE COUNTY

Water Management

The purpose of water management policies is to create policies that work to improve water quality in Lee County through prioritizing septic to sewer conversion in environmentally sensitive areas, stormwater drainage design criteria and flood management, Density Reduction and groundwater, green infrastructure and coastal advisory council.

MILESTONES

- 3.1. Take all actions to initiate protective policies including the following partners: Natural Resource Branch, Lee County, Conservation 20/20 Department, Coastal Advisory Council, and Natural Resources Regulatory County Working Group.
- 3.2. Gather similar doctrine and policy to develop recommendations for the following policy development:
- Septic to Sewer Conversions in environmentally sensitive areas.
- · Stormwater drainage design criteria for flood management.
- Green Infrastructure.
- 3.3. Make recommendations on the study findings and implement policies based on consensus in working group.



Current Initiative Profiles Status: Water Quality



Natural Resources Regulatory Actions

Natural Resources Branch Action Plan

DRAFT

Recommended Implementation Steps (continued)



RECOMMENDATION 3: DEVELOP POLICY TO IMPROVE WATER QUALITY

(DEC. 2023-AUG. 2024) (EST. COST - \$XX.X) LEADS - LEE COUNTY

Water Management

The purpose of water management polices is to create policies that work to improve water quality in Lee County through prioritizing septic to sewer conversion in environmentally sensitive areas, stormwater drainage design criteria and flood management, Density Reduction and groundwater, green infrastructure and coastal advisory council.

MILESTONES

- 3.1. Take all actions to initiate protective policies including the following partners: Natural Resource Branch, Lee County, Conservation 20/20 Department, Coastal Advisory Council, and Natural Resources Regulatory County Working Group.
- 3.2. Gather similar doctrine and policy to develop recommendations for the following policy development:
- Septic to Sewer Conversions in environmentally sensitive areas.
- · Stormwater drainage design criteria for flood management.
- Green Infrastructure.
- 3.3. Make recommendations on the study findings and implement policies based on consensus in working group.



Recommended Initiative Profiles Structure: Water Quality and Green Infrastructure



Initiative NR01: Water Quality and Green Infrastructure

Improve water quality and stormwater management through green infrastructure policy

CO-LEADS: Natural Resources Municipal & County Working Group INITIATIVE DESCRIPTION

The purpose of this initiative is to improve water quality and stormwater management through green infrastructure practices and policies. These policies can focus on developing regulations, incentives and rebates that support the usage of nature-based solutions.

Researchers express that Hurricane Ian and the excess pollutants from floodwaters accelerated deteriorating water quality conditions of much of Lee County's water resources. Poor water quality can result in harmful algal blooms with downstream effects including harming wildlife, degradation of the environment, health impacts, disruption of tourism, and economic loss. Testing by the Florida Fish and Wildlife Conservation Commission found unhealthy elevated nutrient levels across the region post- Hurricane Ian. 1

Nitrogen and phosphorus from various sources including human wastewater, excess fertilizer, and other point and non-point sources of nutrient pollution; eventually make their way into the water bodies of Lee County through runoff. To minimize nutrient loading and pollution of freshwater and estuarine systems, communities can implement a wide range of green infrastructure actions and solutions. Green infrastructure or nature-based solutions incorporate natural features and processes into human-made environments that receive, manage, and enhance overall environmental quality of storm and surface water runoff. Examples of nature-based solutions include:

Constructed Wetlands

Flood Mitigation

Connection to Historic Floodways

Bioswales

Rain Gardens and Planter Boxes

Permeable Pavements

Urban Tree Canopy

Green Roofs

Citizen and Community Participation and Education

Natural Resources Branch Action Plan Action Time Frame

Approx. Cost = \$M

CO-SPONSORING BRANCHES







MEASURES OF SUCCESS

□ Reduce nutrient levels below total maximum daily loads (TMDLs) in water

PRIORITY ALIGNMNET

- □ Regulatory Actions
- □ Direct Actions
- Education & Outreach

PARTNERS:

- Lee County Natural Resources
- Jurisdictional Public Works Departments
- South Florida Water Management District
- · Florida Department of Environmental Protection
- University Partnerships



Water Quality and Green Infrastructure

Recommended Implementation Steps

RECOMMENDATION 1: ESTABLISH WORKING GROUP AND NATURAL RESOURCE OVERLAY (DEC. 2023-AUG. 2024) (EST. COST - \$XX.X) LEADS - LEE COUNTY

MILESTONES

MILESTONES:

1.1. Establish the Natural Resources County Working Group:

Each Municipality and Lee County identifies a representative that has the authority to make decisions and coordinate on the jurisdiction's behalf to serve on the Working Group. Each member of the working group may be supported by staff to help with planning efforts. The Lee County representative will serve as the chair to coordinate activities and support other administrative responsibilities.

The Natural Resources County Working Group will commit to meeting monthly to achieve the objectives developed by the group and within this Initiative Profile.

1.2. Develop a county wide Resilience Resource Overlay, the Natural Resource Overlay to capture cross cutting conservation, preservation and initiatives to protect and restore the environment.

RECOMMENDATION 2: UNDERSTAND BEST PRACTICES RELATED TO GREEN INFRASTRUCTURE (DEC. 2023-AUG. 2024) (EST. COST - \$XX.X) LEADS - LEE COUNTY

2.1. Take all actions to the implementation plan to include the following partners: Lee County and Natural Resources Working Group.

2.2. Conduct a Water Quality and Flooding Assessment

2.3. Evaluate Best Green Infrastructure Practices. Some examples of green infrastructure include the following below:

- Constructed Wetlands slow water transportation, reducing nutrient concentrations in stormwater runoff before reaching receiving waters.
- Flood Mitigation- The rehabilitation and construction of drainage facilities, canals, ditches, retention, and detention ponds are necessary to mitigate flooding and manage stormwater runoff.
- Connection to Historic Floodways- utilization of the historic patterns and flow of water based on the natural contours of the land to improve drainage.
- Bioswales vegetated swales that convey stormwater within a shallow channel helping to lessen peak flows, reduce pollutant loads, and enhance biodiversity (performance is sensitive to design).
- Rain Gardens and Planter Boxes considered forms of bioretention that can support ground water recharge, pollutant removal, and effective runoff detention when open space is limited.
- Permeable Pavements address infiltration and pollutant removal efficiency, long term performance, and impacts on ground water quality leading to cooled surface temperatures, reduced runoff volumes, and improved water quality.
- Urban Tree Canopy trees in urban environments can mitigate air pollution, reduce runoff quantity, and reduce energy use through the interaction of urban trees and soils.
- Green Roofs reduce runoff volumes, regulate building temperatures, reduce urban heat island effects, and provide urban wildlife habitat.
- Citizen and Community Participation and Education enhance the community character, sustain natural resources, and involve the public in decisions that affect them, by providing educational and participation opportunities



Recommended Initiatives:



- NR01: Water Quality and Green Infrastructure- Improve water quality and stormwater management through green infrastructure policy
- NR02: Community Outreach and Education Public education and awareness campaigns to reduce the impact on natural resources.
- NR03: Wildlife Protection Create and implement policies to protect the diverse wildlife and marine species of Lee County.
- NR04: Coastal Protection Preserve coastal resources such as mangrove forests and wetlands that serve as natural buffers to coastal communities.
- NR05: Land Management To conserve and protect the land of the County through the acquisition of natural areas
- NR06: Debris Management- Address existing challenges of debris management while planning for future hazards to minimize the impact of debris staging and storage sites on natural resources
- NR07: Multi-Use Trails-Develop multi-use paths and roads that support walking and biking, improving transportation capabilities
- NR08 Economic Impact and Access to Natural Resources- Assess the economic impact of natural resources and support economic recovery for associated industries that rely on sustainable access





Initiative Profiles

Questions and Next Steps

Discussion and Questions







Discussion to close after final member questions and next steps, before opening to Public Comment.



Next Steps



Next Items

- Finalize draft Branch Action Plan
- Submit additional Initiative Profile feedback

Next Meeting

TBD





Initiative Profiles

Questions and Next Steps









RESILIENT LEE

RESILIENTLEE.ORG