



# Georgia Coastal Management Program

## Green Growth Updates

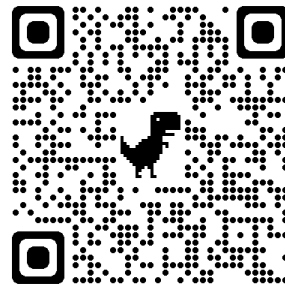
Kelly Hill

# Green Growth Program

- ❑ Technical Assistance
- ❑ Training, Education & Outreach
- ❑ Directed Projects

[Coastalgadnr.org/GreenGrowth](http://Coastalgadnr.org/GreenGrowth)

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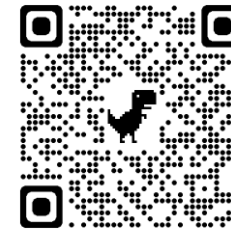
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# Coastal GA Low Impact Development Inventory

[coastalgadnr.org/DemoSites](http://coastalgadnr.org/DemoSites)

## Coastal Low Impact Development (LID) Best Management Practices Inventory *Summary Report*



Prepared for Georgia Department of Natural Resources, Coastal Resources Division

Prepared by Marine Extension and Georgia Sea Grant in partnership with Ecological Planning Group, LLC



March 30, 2018

# Enhancing Coastal Resilience with Green Infrastructure

## FLOOD & WIND DAMAGE SIGNIFICANTLY INCREASES IN COMING YEARS

### Hinesville Riverine Flood Scenarios

Although there may not be a significant number of homeowners currently living in a flood zone, with a changing climate indicating increasing flood events, property owners should consider adding flood insurance to protect their homes.

\$3mil	Current cost of floods
\$24mil	Potential future cost
\$17mil	Potential cost with Mitigation/Green Infrastructure

**36% reduction** in costs with types of Mitigation/Green Infrastructure when compared to the maximum projected cost of a "100 year flood"

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### Tybee Island Storm Surge Flood & Wind Scenarios

**WHAT IS A 100 YEAR FLOOD?**  
 \*The flood having a 1-percent chance of being equaled or exceeded in any given year; also known as the base flood. If your house is located within a "100 year flood" zone it has a 26% chance of suffering flood damage during the term of a 30-year mortgage.\*

**\$181 million** estimated savings with Mitigation & Green Infrastructure & no new development when compared to the maximum projected cost of a "100 year flood."

Mitigation initiatives such as hurricane shutters could save up to \$19 million in wind damage cost.

\$256mil	Current cost of floods
\$579mil	Potential future cost
\$398mil	Potential cost with Mitigation/Green Infrastructure

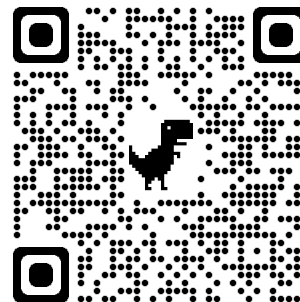
#### Types of Mitigation/Green Infrastructure

- Building codes and/or zoning that will enhance resiliency in the floodplain
- Ordinances requiring shuttering or secondary water proofing
- Implement smart growth ordinances requiring land conservation measures, wetland conservation or creation, rainwater harvesting, bioretention, bioswales, permeable pavement or other green infrastructure practices
- Protect, conserve and when needed enhance sand dunes

A recent study by the National Institute of Building Sciences shows that for every 1 dollar spent on mitigation, on average 6 dollars can be saved on losses from natural hazards.

## Adaptive Stormwater Management Plan for Hinesville, Georgia

Logos: Marine Extension and Georgia Sea Grant UNIVERSITY OF GEORGIA, Sea Grant, GEORGIA COASTAL RESOURCES DIVISION, NOAA



## ENHANCING Coastal Resilience WITH GREEN INFRASTRUCTURE

Logos: GEORGIA DEPARTMENT OF NATURAL RESOURCES COASTAL RESOURCES DIVISION, NOAA U.S. DEPARTMENT OF COMMERCE, Carl Vinson Institute of Government UNIVERSITY OF GEORGIA

[coastalgadnr.org/ResiliencewithGreenInfrastructure](http://coastalgadnr.org/ResiliencewithGreenInfrastructure)

# Coastal Georgia Challenges

