Coconut CREEK Ambassador PROGRAM

CoconutCreek.net/Ambassador

Meeting Guidelines



Listen

Actively listen to the speaker and other community members. Feel free to ask for clarification, but please hold questions until the end of the full presentation.



Participate

Think about how this topic impacts you, your neighbors, and the City. Offer feedback and suggestions.



Share

Agree that you will share this information with your HOA, community, and neighbors.

Welcome to the Ambassador Program

Karen Brooks

CITY MANAGER CITY OF COCONUT CREEK

COCONUT CREEK

Innovative Inclusive Progressive with a small-town personal touch



Presenters



Angela Biagi WGI, Director of Planning

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Tyler Tornese WGI, Planner

Climate Change & Vulnerability



TODAY'S AGENDA



Overview of Vulnerability Assessment

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What Is a Vulnerability Assessment? Why Does It Matter? What Are the Benefits?



Accomplishments

Vulnerability Task Overview Findings



Critical Path Forward

Focus Areas We want to hear from you!

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Discussion and Q&A

WHAT IS A VULNERABILITY ASSESSMENT?

A vulnerability assessment helps a community determine which **physical**, **social**, **and cultural** assets are likely to be impacted by future flooding, rain events, and heat.

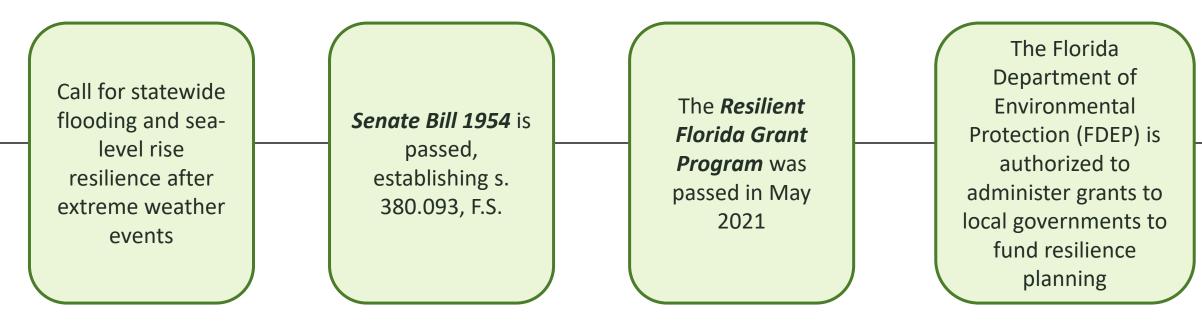
Vulnerability assessments provide the necessary information to make **impactful change** and **resiliently plan for the future**.



WHAT IS A VULNERABILITY ASSESSMENT?

History of the Resilient Florida Grant Program

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The FDEP awarded the City of Coconut Creek a grant through the Resilient Florida Grant Program. The state grant is funding the research for this study.

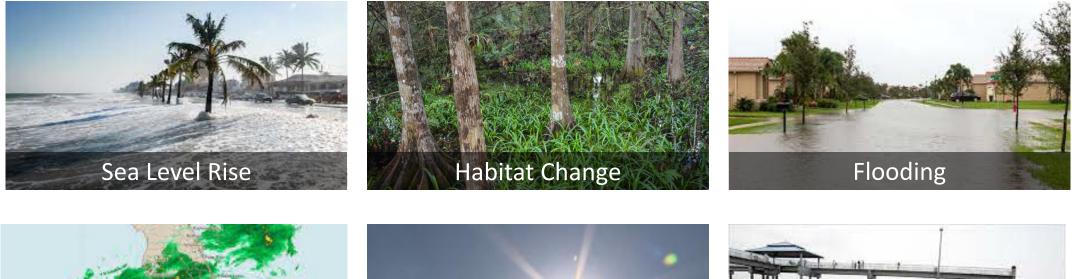
WHY DOES IT MATTER?

Local Vulnerability and Climate Change Stressors

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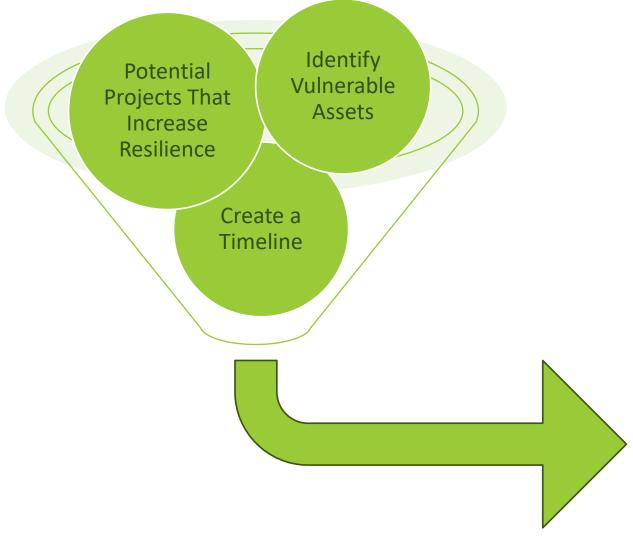
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WHY DOES IT MATTER?

Direct Impacts

- Health: injury/accident, disease, contamination
- Safety: emergency response, shelters, healthcare
- Where You Live: neighborhoods and utility services
- Your Livelihood: access to jobs
- Vulnerable People: health/physical constraints, renters, non-English speakers
- Natural Resources: unique habitats, preserves, public open space

WHAT ARE THE BENEFITS?

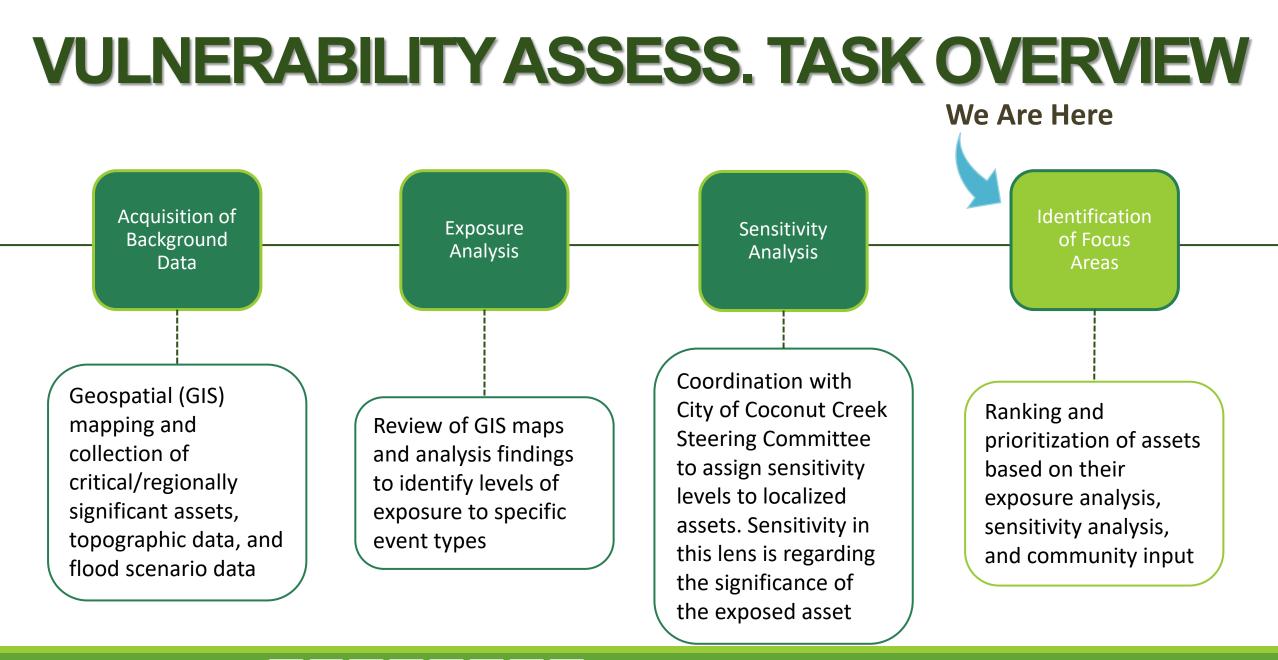


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Coconut Creek will be able to ...

- Apply for federal/state/nonprofit grant funding opportunities
- Effectively plan for the immediate and future resilience of the community



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STEERING COMMITTEE

The Coconut Creek Steering Committee is comprised of the following City Departments:

- City Manager
- City Attorney
- City Clerk
- Community Relations
- Human Resources
- Public Works

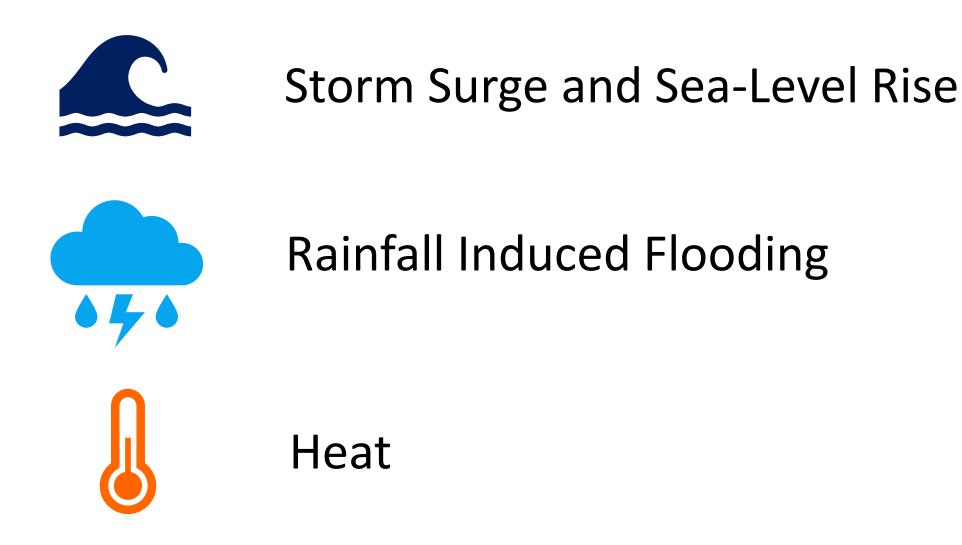
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Parks and Recreation

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- Information Technology
- Utilities and Engineering
- Finance
- Police
- Fire
- Sustainable Development

STUDIED THREATS



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CITYWIDE ASSETS



Transportation assets and evacuation routes - bridges, bus stops, parking structures, state/county/local roads



Critical infrastructure - communications infrastructure, solid waste debris sites, drinking water, stormwater, wastewater infrastructure, EV/PV charging



Critical community and emergency facilities – affordable housing, city hall, colleges/schools, community centers, government facilities, grocery stores, healthcare facilities



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Natural, cultural, and historical resources – public/private parks, protected lands, surface water, wetlands

SEA-LEVEL RISE FINDINGS

• No direct threat from this individual threat alone

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- Projections come from NOAA, based on a timeline projected to 2040 & 2070
- Danger comes from compounded threats, relationship with other rainfall and flood events

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2330 Deerfield Beach Lighthouse conut Margate Pompano Beach Flood Depth North Lauderdale SLR 2070, NOAA 2017 Intermediate-High 0 to 6 inches 6 to 12 inches North 2 to 18 inches Andrews Gardens to 24 inches to 3 feet Oakland to 5 feet to 6 feet Lauderhill 6 to 7 feet 7 to 8 feet

STORM SURGE FINDINGS

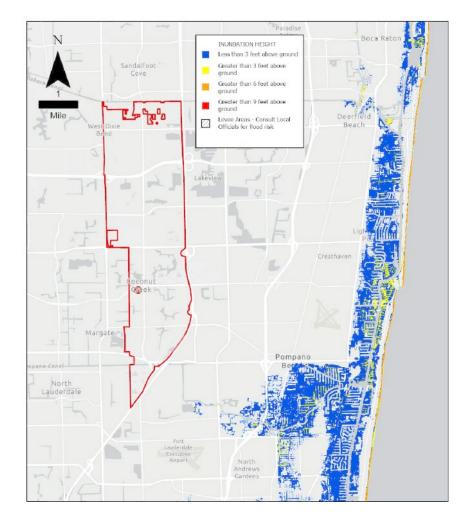
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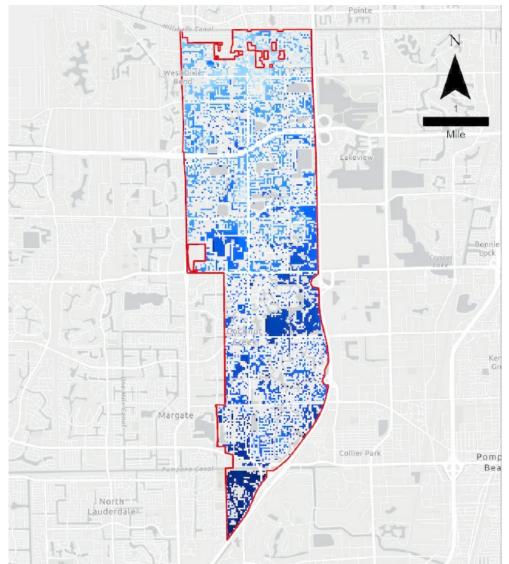


RAINFALL INDUCED FLOODING FINDINGS

- Broward County data recently developed using new models
- 100-year, 3-day rainfall event
- Int. Low and Int. High scenarios
- Most intense scenarios studied

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• Darkness of color represents flood elevation, not depth



Asset Groups evaluated with this vulnerability assessment:

- Roads
- Parks
- Schools and Colleges
- Community Centers
- Essential Facilities
- Healthcare Facilities
- Private Parks / Protected National Lands
- Lift stations

Asset Groups NOT evaluated due to missing or incomplete data:

- Animal Facilities
- Churches
- Charging Stations
- Grocery Stores

At this stage, the Vulnerability Assessment will review the assets that we have data and information for.

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VULNERABILITY ASSESS. TASK OVERVIEW

Key Terms and Definitions

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Exposure: The level at which assets or resources are exposed to threats

Sensitivity: The level of significance if the assets is exposed to a threat

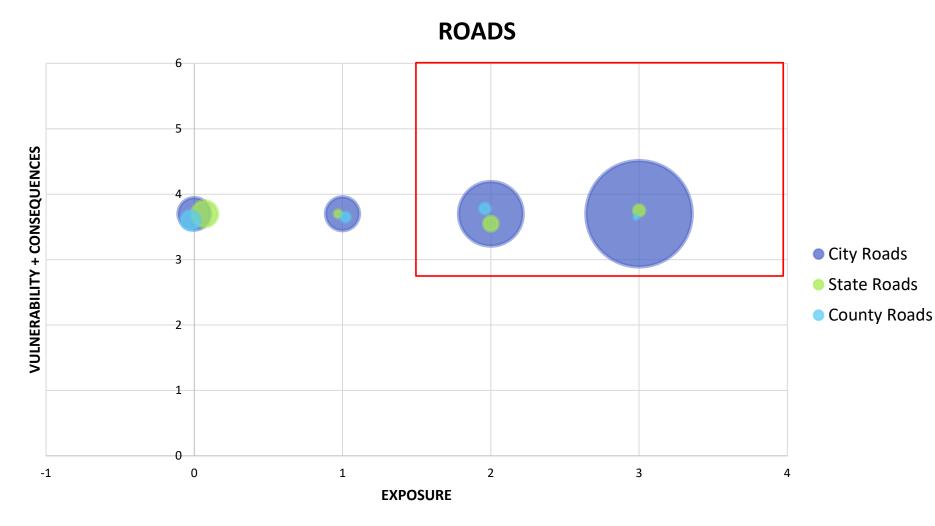
• Will the asset be impacted or damaged if it floods?

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- What are the social, economic, or environmental consequences?
- Can the asset be adapted to prevent/minimize impacts?

Higher sensitivity and exposure = higher priority assets to protect



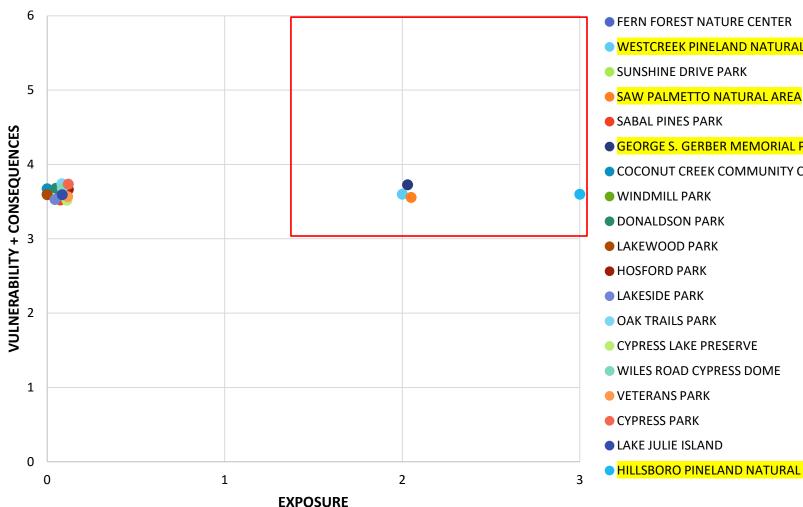
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- Moderate vulnerability & consequences
- 56% have high exposure;
- 22% have moderate exposure;
- 6% have low exposure; and
- **10%** have insufficient data.



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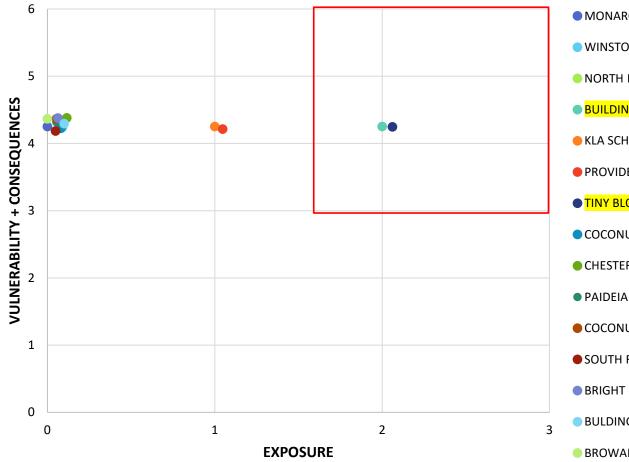
PARKS

WESTCREEK PINELAND NATURAL AREA GEORGE S. GERBER MEMORIAL PARK COCONUT CREEK COMMUNITY CENTER and

HILLSBORO PINELAND NATURAL AREA

Moderate vulnerability & consequences

- 2% have high exposure;
- 7% have moderate exposure;
- 41% have no exposure;
- 49% have insufficient data.



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SCHOOLS AND COLLEGES

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- MONARCH HIGH
- WINSTON PARK ELEMENTARY
- NORTH BROWARD PREPARATORY SCHOOL
- BUILDING BLOCKS LEARNING CENTER
- KLA SCHOOLS OF COCONUT CREEK (PRESCHOOL)
- PROVIDENCE CHILDREN'S ACADEMY PRESCHOOL
- TINY BLOCKS PRESCHOOL
- COCONUT CREEK PRESCHOOL
- CHESTERBROOK ACADEMY PRESCHOOL
- PAIDEIA CLASSICAL ACADEMY
- COCONUT CREEK ACADEMY
- SOUTH FLORIDA JEWISH ACADEMY
- BRIGHT HORIZONS AT COCONUT CREEK

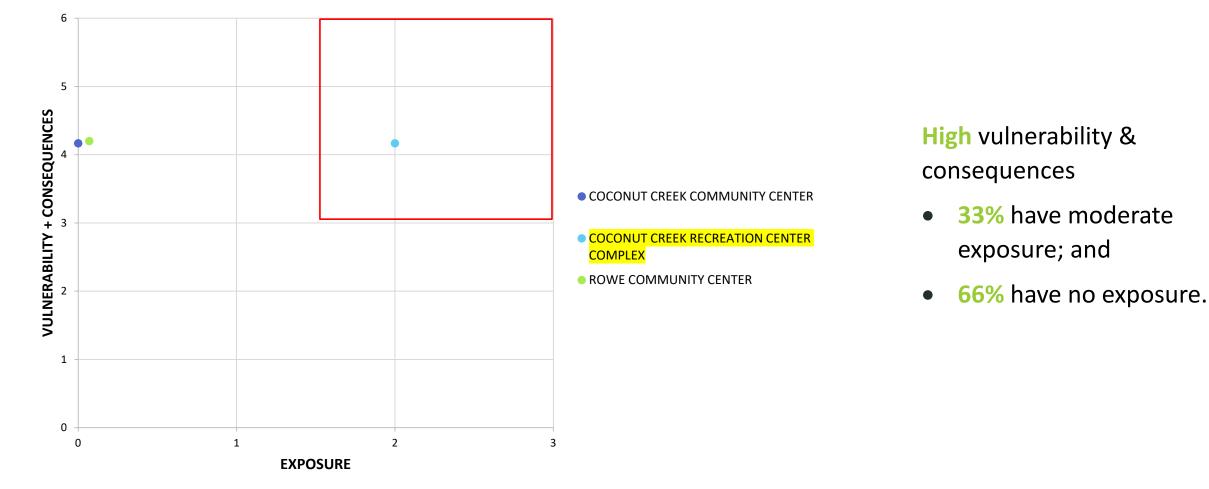
BULDING BLOCKS LEARNING CENTER

BROWARD COLLEGE

High vulnerability & consequences

- 9% have moderate exposure;
- 9% have low exposure;
- 50% have no exposure; and
- 32% have insufficient data.

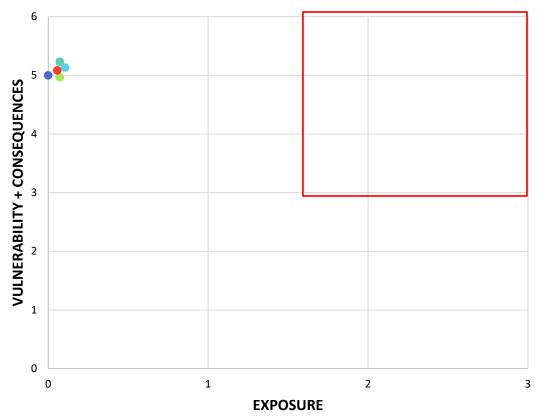
COMMUNITY CENTERS



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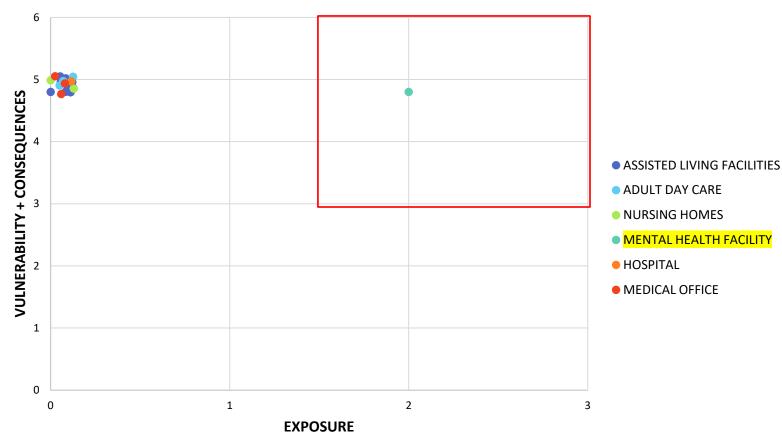
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ESSENTIAL FACILITIES

CCK EOC COCONUT CREEK
CCK LAW COCONUT CREEK PD
COCONUT CREEK FIRE RESCUE ST 50
COCONUT CREEK FIRE RESCUE ST 94
NORTH REGIONAL DISPATCH CENTER

High vulnerability & consequences

- 83% have no exposure; and
- 17% had insufficient data.



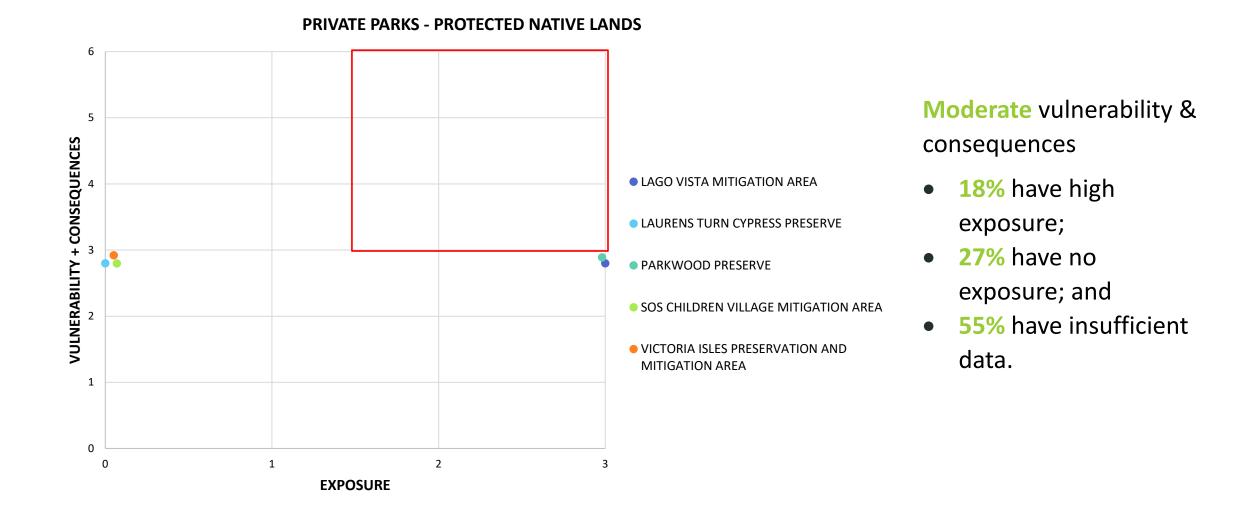
HEALTHCARE FACILITIES

High vulnerability &

consequences

- 4% have moderate exposure;
- 88% have no exposure; and
- 8% have insufficient data.

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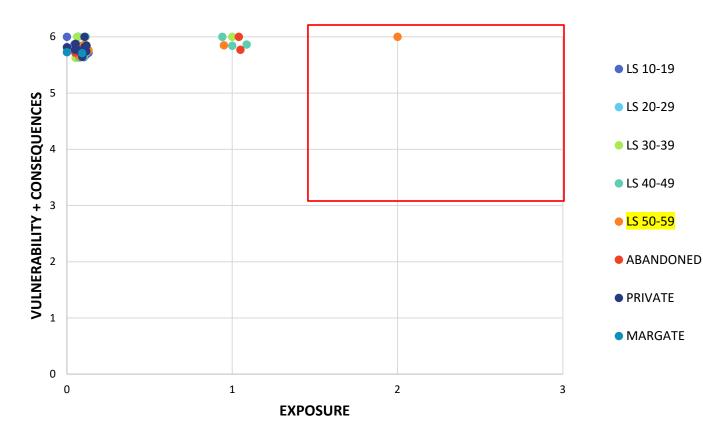
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LIFT STATIONS

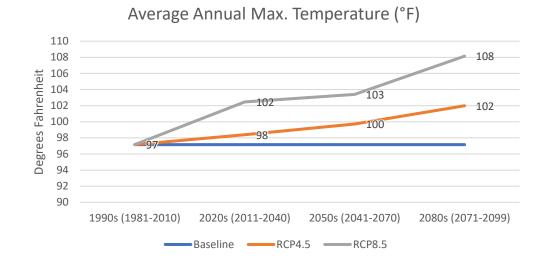
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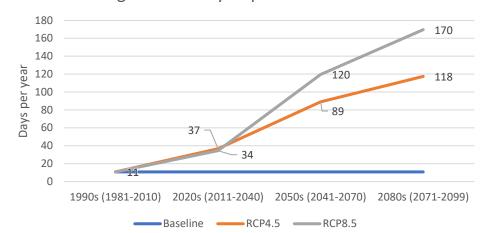
- High vulnerability & consequences
- 1% have moderate exposure;
- 8% have low exposure;
- 61% have no exposure; and
- **30%** have insufficient data.

Temperature Projections were assessed based on two scenarios – RCP4.5 shows the most likely scenario and RCP8.5 shows the most severe scenario.

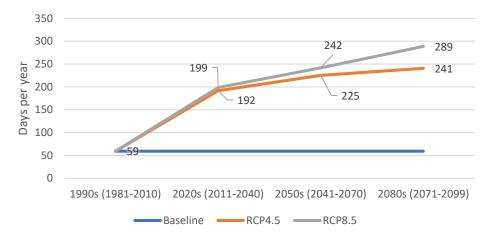
These scenarios were used to determine the average annual maximum temperature, average annual days equal to or above 95°F, and average annual nights above 75°F.



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Average Annual Days Equal to or Above 95° F

Low

Med

High

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Heat Vulnerability: An individual's susceptibility to the effects of high temperatures and heat exposure.

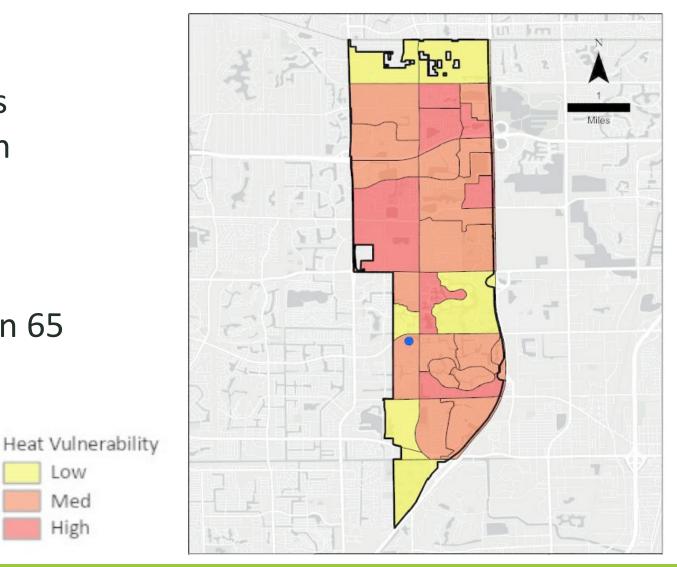
Most vulnerable:

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Younger than 18 and older than 65

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- Impervious percent coverage
- Tree canopy coverage.

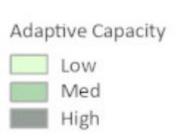


Adaptive Capacity: Ability of communities to cope or adjust to hazardous changes within the environment.

Adaptability based on:

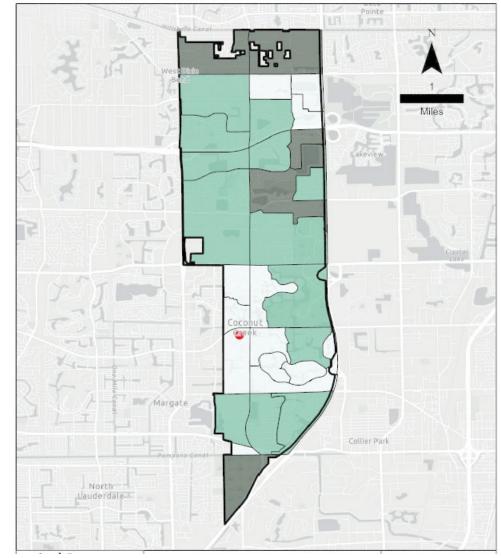
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- Median household income
- Canopy percent coverage



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The following Asset Groups have the given relative vulnerabilities that has the potential to see a medium to high effect from heat:

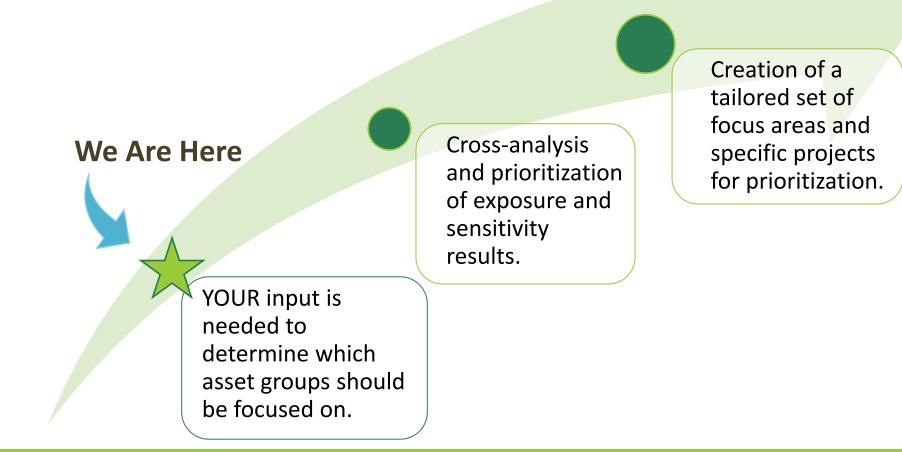
- Affordable Housing 50%
- Bus Stops **41%**
- Communications Infrastructure **50%**
- Fire and Police Facilities 43%
- Government Facilities 50%
- Healthcare and Assisted Living Facilities 59%

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- Mobile Home Parks 25%
- Protected Natural Lands 50%
- Surface Water 42%
- Wetlands 36%

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CRITICAL PATH FORWARD



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The results from this step are <u>CRITICAL</u> to the City of Coconut Creek, as this will help identify actual projects that the City could pursue to build resilience and adaptability.

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Examples of what focus areas can be:

- **Geographic locations** specific neighborhoods or areas of the city
- **Types of assets** physical buildings; important road corridors
- Population or demographics highest population; vulnerable populations; employment centers

What do you want prioritized?



What do you want to prioritize for the threat of RAINFALL/FLOODING? Pick your top 3

- C Roads
- **Parks**
- Schools and Colleges
- Community Centers

- **Essential Facilities**
- ☐ Healthcare Facilities
- Private Parks/Protected Lands
- ☐ Lift stations



What do you want to prioritize for the threat of HEAT? Pick top 3

- C Affordable Housing
- Bus Stops
- Communications Infrastructure

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- **Fire and Police Facilities**
- Government Facilities

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Healthcare/Assisted Living Facilities

☐ Mobile Home Parks

Protected Natural Lands

Surface Water

☐ Wetlands

STRATEGIES

How do you want to prioritize the city's actions?

Pick top 3

Infrastructure – green infrastructure; asset hardening

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- Land Use, Building Codes & Standards –climate action plan; green building standards
- Planning, Policy, & Management revise city code; operations; internal practices
- Capacity Building partnerships with other public, private, non-profit organizations
- **Public Outreach –** public engagement; communication; education

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Funding and Financing – grants, loans; homeowner improvement programs

Contacts



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Tyler Tornese WGI Planner

Tyler.Tornese@wginc.com

Upcoming Ambassador Meetings

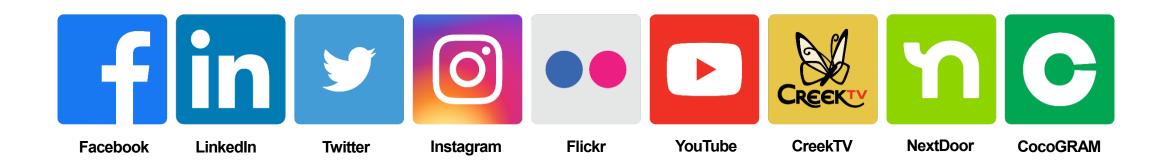
- Monthly Meetings
- Relevant Topics aligned with strategic priorities
- An engaged community, working together

Date	Time	Meeting Title
Nov. 9th	5:30 PM - 6:30 PM	Parks & Recreation

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Questions?







