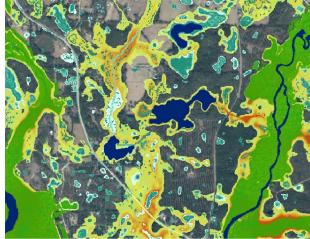
TOWN OF CENTURY

VULNERABILITY ASSESSMENT









DEP AGREEMENT NO. 24RRE03

Emerald Coast Regional Council Resilience Project

TOWN OF CENTURY VULNERABILITY ASSESSMENT



8/30/2024

This work was funded in part through a grant agreement from the Florida Department of Environmental Protection's Office of Resilience and Coastal Protection Resilient Florida Program. The views, statements, findings, conclusions, and recommendations expressed herein are those of the author(s) and do not necessarily reflect the views of the State of Florida or any of its subagencies.

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Acronyms

CORDEX Coordinated Regional Climate Downscaling Experiment

CR County Road

DEM Digital Elevation Model

ECRC Emerald Coast Regional Council

FDEM Florida Division of Emergency Management

FDEP Florida Department of Environmental Protection

FEMA Federal Emergency Management Agency

FFE Finished Floor Elevation

GIS Geographic Information Systems

LiDAR Light Detection and Ranging

LULC Land Use Land Cover

NAVD88 North American Vertical Datum of 1988

NHD National Hydrography Dataset

NOAA National Oceanic and Atmospheric Administration

NWS National Weather Service

NWFWMD Northwest Florida Water Management District

SLR Sea Level Rise

SSURGO Soil Survey Geographic Database

USGS U.S. Geological Survey

VA Vulnerability Assessment

Executive Summary

The Town of Century is proactively addressing the challenges posed by extreme weather events, specifically focusing on the increased risk of flooding due to extreme rainfall events. Century and the Emerald Coast Regional Council have obtained a grant from the Florida Department of Environmental Protection (FDEP) for a comprehensive vulnerability assessment. This report summarizes the data, methodology, and analyses conducted by Century and the Project Team.

Resilient Florida was established as part of a statewide initiative to enhance Florida's resilience against the impacts of sea level rise, intensified storms, and flooding. A key aspect of the Resilient Florida Program is the creation of Vulnerability Assessments. These assessments are critical for communities seeking access to state resilience funding. They provide a detailed analysis of a community's specific vulnerabilities to climate-related hazards including flooding, sea level rise, and extreme weather events. They are essential for identifying high-risk areas, assessing the potential impacts on infrastructure, and determining the most effective strategies for mitigation and adaptation.

By conducting Vulnerability Assessments, communities not only gain a deeper understanding of their unique risks, but also align with the state's requirements for accessing resilience funding. This funding is instrumental in supporting local governments to plan, prepare, and implement resilience projects. It ensures that communities are better equipped to protect their infrastructure from adverse weather events.

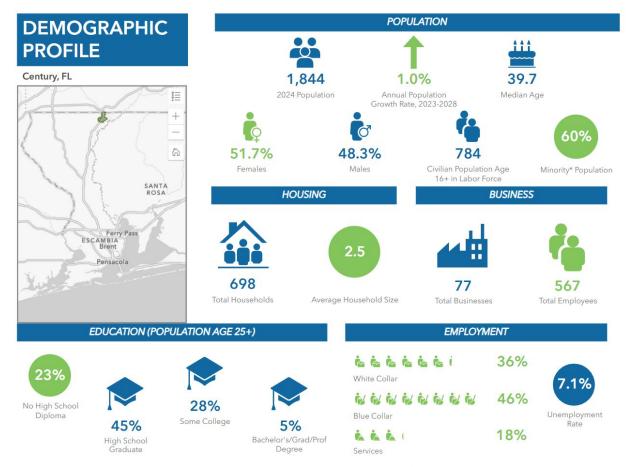
For the purposes of this assessment, the Project Team used the Inundate! GIS modeling tool to analyze potential flooding under the state's required future precipitation scenarios. The methodology adopted allows for a detailed understanding of how changes in rainfall patterns can affect public facilities and critical infrastructure in Century and identifies target areas prone to flooding.

Despite significant flooding within the Town limits, Century's Critical Assets are for the most part located outside of the affected areas. The only exceptions are some ponding around the Town Hall as well as a portion of County Road 4. It would be advisable for the Town of Century to conduct a detailed assessment to understand the specific vulnerabilities of these assets and to develop plans to minimize any potential impacts on the community.

I. Overview

Background

The Town of Century is located in Escambia County, in the Florida Panhandle. The local economy has historically relied on timber, pulpwood, and mining, with significant oil discoveries in the nearby area in the 1970s bolstering its economic significance in the latter part of the 20th century. The Town's population is currently estimated to be 1,844 individuals (Esri).



This infographic contains data provided by Esri and Infogroup. The vintage of the data is 2024, 2029 (Esri estimates and projections). *Minority population = Total Population - White, Non-Hispanic Population

Resilient Florida Program

This Vulnerability Assessment was created in response to Florida's Senate Bill 1954 and House Bill 7019, passed in 2021. This legislation, codified as Florida Statute 380.093, directs all municipalities and counties to create assessments to inform state and local planning, ensuring that adaptation and mitigation strategies are grounded in current and projected risks.

The Emerald Coast Regional Council developed this report along with Vulnerability Assessments for the municipalities of Ebro, Caryville, Vernon, Wausau, and Chipley in Washington County.

Goals and Objectives

The purpose of this report is threefold:

To Identify and Analyze Risks: The Emerald Coast region, like many others, is increasingly susceptible to a range of natural hazards. In this assessment, the potential impact of future extreme rainfall events is modeled. This allows the community and project team to identify critical assets that may be vulnerable to inundation in the future.

To Inform and Guide Resilience Planning: The information gathered in this report is vital for developing effective strategies to enhance community resilience. It can serve as a foundational document to guide policymakers, planners, and stakeholders in making informed decisions. The information in this report should be applied when constructing or upgrading infrastructure, revising development ordinances, or enhancing emergency response plans.

To Engage and Educate the Community: Awareness and understanding are key components in building a resilient community. This Vulnerability Assessment is not only a technical document, but also a tool that can be used to engage the community. By specifically identifying critical assets at risk and target areas, the assessment can be used to help determine future priorities.

Kickoff Meeting & Outreach

A kickoff meeting was held in Century with Town staff on Monday, February 26, 2024. The primary goal of this meeting was to introduce the project, outline its objectives, and set the stage for a comprehensive and inclusive approach to assessing and addressing regional vulnerabilities.

During the meeting, Emerald Coast Regional Council (ECRC) staff presented an overview of the project, detailing the scope, expected outcomes, and the critical role of the Vulnerability Assessment in guiding resilience planning. Attendees were provided with draft asset lists and maps, and critical assets as defined by Florida Statutes were discussed. Stakeholders were encouraged to share their knowledge and experiences, contributing valuable data on local environmental conditions, infrastructure vulnerabilities, and community needs. ECRC staff also took a brief tour of some of the Town's stormwater infrastructure.

During and after the meeting, ECRC staff consulted with Century's staff regarding details of their asset lists and gathered feedback on the modeled future inundation results.

Work Plan

The agreement with the Florida Department of Environmental Protection to perform the Vulnerability Assessments contained the following tasks:

Task 1: Kickoff Meeting

Develop an overall project management plan and address initial actions. Conduct a kickoff meeting to discuss the project scope, goals, schedule, key milestones, and deliverables. Prepare meeting materials, including the sign-in sheet and project schedule.

Task 2: Acquire Background Data

Research and compile data necessary for the Vulnerability Assessment (VA), including critical and regionally significant asset inventory, topographic data, and flood scenario-related data. Identify and rectify any data gaps to ensure comprehensive data coverage.

Task 3: Exposure Analysis

Perform an exposure analysis to determine the depth of water caused by various flood scenarios, including tidal flooding, storm surge flooding, and rainfall-induced flooding. Detail the modeling processes and provide results through tables and maps.

Task 4: Sensitivity Analysis

Measure the impact of flooding on assets using data from the exposure analysis. Evaluate the impact of flood severity on each asset class and assign a risk level. Provide detailed findings and an initial list of impacted critical and regionally significant assets.

Town of Century Vulnerability Assessment

Task 5: Identify Focus Areas

Identify focus areas based on the exposure and sensitivity analyses. Assign focus areas to locations or assets that are particularly vulnerable and require adaptation strategies. Provide justification, tables, maps, and GIS files for the identified focus areas.

Task 6: Final Vulnerability Assessment Report, Maps, and Tables

Finalize the VA report, incorporating results from the exposure and sensitivity analyses, identified risks, and focus areas. Compile a list of critical and regionally significant assets impacted by flooding and specify the flood scenarios affecting each asset. Include GIS files and metadata in the final report.

Task 7: Public Presentation

Present the final VA results to local governing boards, technical committees, and other stakeholders. Share findings, provide recommendations for adaptation strategies, and inform the public about future risks. Prepare and distribute meeting materials and summarize meeting outcomes.

II. Data Collection

Critical/Regionally Significant Asset Data

The data collection process began with identifying and obtaining GIS datasets for critical and regionally significant assets. The Florida Statewide Resilience Dataset from FDEP was used as a starting point. It was compiled in 2023 and includes critical assets sourced from state, federal, and regional datasets, as well as locally provided asset data where available. Local government staff were consulted to identify the critical assets within this dataset, as well as any missing critical assets, that are owned and/or managed by the municipality. ECRC staff additionally used the Escambia County Assessor's property search to identify ownership of potential critical assets.

Critical Assets were identified by the four categories defined by 380.093(2)(a), Florida Statutes:

- 1. **Transportation assets and evacuation routes**, including airports, bridges, bus terminals, ports, major roadways, marinas, rail facilities, and railroad bridges.
- 2. **Critical infrastructure**, including wastewater treatment facilities and lift stations, stormwater treatment facilities and pump stations, drinking water facilities, water utility conveyance systems, electric production and supply facilities, solid and hazardous waste facilities, military installations, communications facilities, and disaster debris management sites.
- 3. **Critical community and emergency facilities**, including schools, colleges, universities, community centers, correctional facilities, disaster recovery centers, emergency medical service facilities, emergency operation centers, fire stations, health care facilities, hospitals, law enforcement facilities, local government facilities, logistical staging areas, affordable public housing, risk shelter inventory, and state government facilities.
- 4. **Natural, cultural, and historical resources**, including conservation lands, parks, shorelines, surface waters, wetlands, and historical and cultural assets.

Table 1 provides a summary of critical assets identified for the Town of Century.

Table 1. Critical Assets Inventory

Transportation Assets and Evacuation Routes					
None identified.					
Critical Infrastructure					
Name	Туре	Owner/Operator	Elevation		
CENTURY WWTF	Wastewater Treatment Facilities and Lift Stations	Town of Century	56.55′		
CENTURY WELL #1	Drinking Water Facilities	Town of Century	103.36′		
CENTURY PLANT FOR WELL #1	Drinking Water Facilities	Town of Century	103.54′		
CENTURY PLANT FOR WELL #3	Drinking Water Facilities	Town of Century	171.64′		
CENTURY WELL #1 TANK	Water Utility Conveyance Systems	Town of Century	106.73′		
CENTURY WELL #3 TANK	Water Utility Conveyance Systems	Town of Century	171.89′		
CENTURY WELL #2 TANK	Water Utility Conveyance Systems	Town of Century	78.38′		
CENTURY-JEFFERSON AVENUE	Solid and Hazardous Waste Facilities	Town of Century	77.01′		
INDUSTRIAL PARK - PARCEL A	Solid and Hazardous Waste Facilities	Town of Century	127.06′		
INDUSTRIAL PARK - PARCEL B	Solid and Hazardous Waste Facilities	Town of Century	118.77′		
CENTURY-INDUSTRIAL BLVD	Disaster Debris Management Sites	Town of Century	118.30′		
Critical Community and Emergency Faci	lities				
Name	Туре	Owner/Operator	Elevation		
CENTURY COMMUNITY CENTER	Community Centers	Town of Century	118.06′		
CENTURY TOWN HALL	Local Government Facilities	Town of Century	82.03'		
Natural, Cultural, and Historical Resources					
Name	Туре	Owner/Operator	Elevation		
GEORGE WASHINGTON CARVER SCHOOL	Historical and Cultural Assets	Town of Century	72.38′		

Town of Century Vulnerability Assessment

Local government staff also identified Regionally Significant Assets, as defined by 380.093(2)(d), Florida Statutes:

"Regionally significant assets" means critical assets that support the needs of communities spanning multiple geopolitical jurisdictions, including, but not limited to, water resource facilities, regional medical centers, emergency operations centers, regional utilities, major transportation hubs and corridors, airports, and seaports.

The only regionally significant asset identified is County Road 4.

Table 2. Regionally Significant Assets

Regionally Significant Assets				
Name	Туре	Class	Owner/Operator	Elevation*
CR 4	Major Roadways	Transportation Assets	Escambia County	107.60′
		and Evacuation Routes		

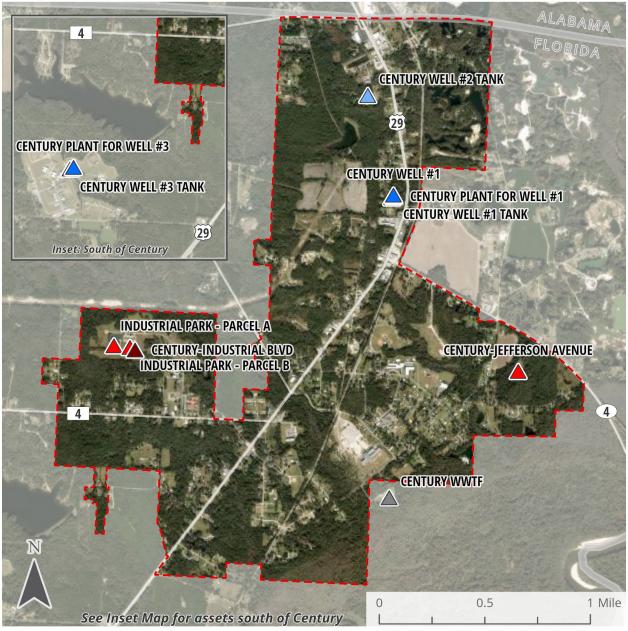
^{*}Elevations for linear (roadway) features are averages across the length or area within the town limits.

dyville W State Line Rd 4A Bass Rd **Famile Happy Valley** Hilltog Century E Hecker Roy 0 0.5 1 Mile

Figure 1. Critical Assets - Transportation and Evacuation Routes

Town of Century - Transportation Assets and Evacuation RoutesSource: ECRC, FDEP, Town of Century
7/11/2024

Figure 2. Critical Assets - Critical Infrastructure



Town of Century - Critical Infrastructure

Mastewater Treatment Facilities and Lift Stations

Drinking Water Facilities

Water Utility Conveyance Systems

Solid and Hazardous Waste Facilities

Disaster Debris Management Sites

Source: ECRC, FDEP, Town of Century 7/11/2024

4A **CENTURY TOWN HALL** GENTURY COMMUNITY GENTER 0.5

Figure 3. Critical Assets - Critical Community & Emergency Facilities

Town of Century - Critical Community and Emergency Facilities Source: ECRC, FDEP, Town of Century

7/11/2024

Community Centers

Local Government Facilities

dyville W State Line Rd 4A Bass Rd Famile **Happy Valley** Century E Hecker Ro GEORGE WASHINGTON CARVER SCHOOL 0.5 1 Mile

Figure 4. Critical Assets - Natural, Cultural, and Historical Resources

Town of Century - Natural, Cultural, and Historical Resources

 \Diamond

Historical and Cultural Assets

Source: ECRC, FDEP, Town of Century 7/11/2024

Topographic Data

Two digital elevation models (DEMs) were obtained to cover the area surrounding the Town of Century. The first is from the Northwest Florida Water Management District (2017) and covers Escambia and Santa Rosa Counties at a 1-meter resolution. The second is from USGS (2022) and covers Coffee, Dale, Escambia, and Geneva Counties in Alabama, also at a 1-meter resolution. The DEM elevations are relative to the North American Vertical Datum of 1988 (NAVD88).

Flood Scenario-Related Data

Storm Surge

Storm surge data was sourced from both NOAA's National Storm Surge Risk Maps (v.3, 2022) and the Florida Statewide Regional Evacuation Study Program (a joint effort between FDEM and Florida's Regional Planning Councils, updated in 2020).

Sea Level Rise

Sea Level Rise data was collected from NOAA's 2017 Intermediate-High SLR projections for 2040 and 2070.

Precipitation

Precipitation data was sourced from NOAA Atlas 14. To derive future scenarios, CORDEX Near and Far 23rd percentile change factors were applied to the 24-hour, 100- and 500-year rain events from Atlas 14. This allowed for representation of extreme rain events under the 2040 and 2070 future time horizons.

Data Gap Analysis

An accurate Vulnerability Analysis requires complete and current data to represent current and future conditions and allow communities to be better prepared for future inundation hazards. The purpose of the Data Gap Analysis is to 1) review data obtained and identify any critical missing data or low-quality information that may limit the Vulnerability Assessment's extent or reduce the accuracy of results, and 2) rectify any gaps in necessary data.

The tables below summarize the data included within the vulnerability assessments and indicate the availability of the data as follows:

- Available Data Readily Available
- Not Available Data Not Available
- Partial Data Partially Obtained

 Table 3. Transportation Assets & Evacuation Routes

Dataset	Availability	Source / Type	Comments
Airports	Available		County Road 4 was
Bridges	Available		added based on local
Bus Terminals	Available		input. Private assets
Ports	Available	FDEP Critical Assets Dataset	including rail facilities
Major Roadways	Available	with review and edits from local	were removed.
Marinas	Available	government staff	
Rail Facilities	Available		Not all asset types are
Railroad Bridges	Available		applicable or present within Century.

Table 4. Critical Infrastructure

Dataset	Availability	Source / Type	Comments
Wastewater Treatment Facilities & Lift Stations	Available		
Stormwater Treatment Facilities & Pump Stations	Available		
Drinking Water Facilities	Available	EDED Citized Assets	Town staff did not
Water Utility Conveyance Systems	Available	FDEP Critical Assets Dataset	identify any missing Critical Infrastructure.
Electric Production & Supply Facilities	Available	(Geodatabase) with review and edits	Not all infrastructure
Solid & Hazardous Waste Facilities	Available	from local government staff	types are applicable or present within
Military Installations	Available		Century.
Communications Facilities	Available		
Disaster Debris Management Sites	Available		

Table 5. Critical Community & Emergency Facilities

Dataset	Availability	Source / Type	Comments
Schools	Available		
Colleges & Universities	Available		
Community Centers	Available		
Correctional Facilities	Available		Town staff did not
Disaster Recovery Centers	Available		identify any missing
Emergency Medical Service Facilities	Available	FDEP Critical	Critical Community
Emergency Operations Centers	Available	Assets Dataset	and Emergency
Fire Stations	Available	(Geodatabase)	Facilities.
Health Care Facilities	Available	with review and	
Hospitals	Available	edits from local	Not all facility types
Law Enforcement Facilities	Available	government staff	are applicable or
Local Government Facilities	Available		present within
Logistical Staging Areas	Available		Century.
Affordable Public Housing	Available		
Risk Shelters	Available		
State Government Facilities	Available		

Table 6. Natural, Cultural, & Historical Resources

Dataset	Availability	Source / Type	Comments
Conservation Lands	Available	FDEP Critical	Many private or state-
Parks	Available	Assets Dataset	owned and controlled
Shorelines	Available	(Geodatabase)	assets included in the FDEP
Surface Waters	Available	with review and edits from local	were removed from
Wetlands	Available		analysis. Not all resource
Historical & Cultural Assets	Available	government staff	types are applicable or present within Century.

Table 7. Topographic Data

Dataset	Availability	Source	Туре	Comments
LiDAR, DEM	Available	NWFWMD Escambia and Santa Rosa (2017), 1m resolution; USGS: Coffee, Dale, Escambia, Geneva Counties, AL (2022), 1m resolution	Raster	Inundate! Model input
Finished Floor Elevation (FFE)	Not Available	-	-	Water higher than foundation slab height will be considered flooding

Table 8. Flood Scenario Related Data

Dataset	Availability	Source	Туре	Comments
Precipitation	Available	NOAA Atlas 14	Raster	Inundate! Model input
Groundwater Level	Available	Inundate! Model	Raster	Available water storage is calculated within model
Sea Level Rise (SLR)	Available	NOAA Intermediate- High	Raster	Not applicable
Tidal Flooding	Available	NOAA	Raster	Not applicable
Storm Surge	Available	NOAA, FDEM	Raster, GIS Shapefile (polygon)	Not applicable
River Channel Cross-Sections	Available	lnundate! Model	GIS Shapefile (line)	Transects are created within model
Land Use	Available	USGS	Raster	Inundate! Model input
Evapotranspiration	Available	USGS	Raster	Not utilized in model
Soil Classification	Available	Soil Conservation Service (SSURGO)		Inundate! Model input
Lake Points	Available	USGS NHD GIS Shapefile (point)		Inundate! Model input. Layer was edited to include missing lake points.
Change Factors	Available	CORDEX 24hr 100yr NEAR (2040) and FAR (2070) rasters		Inundate! Model input
Impervious Surfaces	Available	NOAA	Raster	Inundate! Model input
Building Footprints	Available	Microsoft	GIS Shapefile (polygon)	Inundate! Model input. Layer was edited to include missing footprints.
Burn Lines	Available	USGS NHD and user- defined (ECRC)	GIS Shapefile (line)	Inundate! Model input

Town of Century Vulnerability Assessment

Data Gap Summary and Recommendations

The majority of data required for the vulnerability assessment was publicly available for download and use.

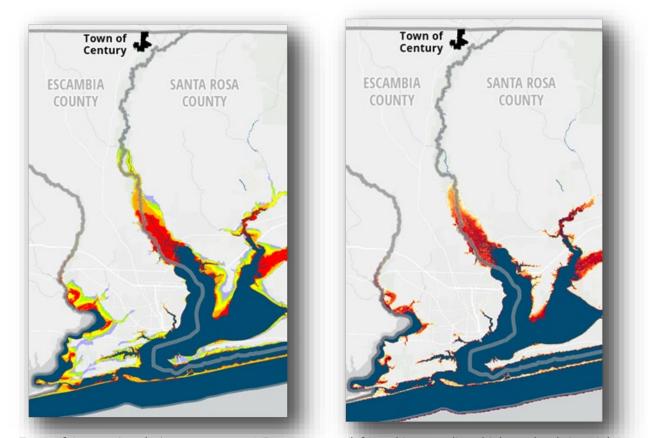
There were challenges obtaining Finished Floor Elevation (FFE) data for structures. Many municipalities could not provide the required documentation, often due to the limited availability of records or resource constraints. The cost to obtain accurate elevation data can be significant, and not all communities have the resources or systems to collect and maintain this information comprehensively.

The absence of FFE data impacts the precision of the sensitivity analysis. This gap may lead to less accurate predictions regarding the vulnerability of certain assets. Fortunately for Century, flooding around the Town Hall is minimal and located on the parcel away from the structure itself.

To address this limitation, municipalities may consider grant opportunities or regional partnerships to ensure that FFE data is more readily available for future assessments.

III. Exposure Analysis

Due to the Town of Century's inland location, and after consultation with FDEP staff, it was not deemed vulnerable to sea-level rise or storm surge hazards. Therefore, those risks were not analyzed as part of the Vulnerability Assessment. Inland communities should, however, remain aware of how hazards like sea level rise can transform water levels along rivers and should continue to evaluate potential impacts in the future.



Town of Century in relation to category 1-5 storm surge (left) and intermediate-high sea level rise (right).

For the Town of Century, the primary means of analysis was to evaluate the extent of rainfall-induced flood risks.

Modeling Process

Rainfall-induced flooding was modeled using the Inundate! Tool. Inundate! was developed by FlynnMetrics, LLC and is based upon previous inundation tools developed for the Florida Division of Emergency Management's Statewide Regional Evacuation Study Program. It runs as an add-on within Esri's ArcView Desktop software, and the rainfall model module utilizes Esri's ArcHydro tools.

Multiple input data variables and user-defined parameters work together to create possible flood scenarios for three inundation types: Storm Surge from hurricanes, Sea Level Rise from climate change, and Inland Rain Flooding from future precipitation. As noted above, because Ebro is not deemed vulnerable to storm surge or sea level rise, this Vulnerability Assessment focuses only on inland flooding from precipitation.

Model Inputs:

- Digital Elevation Model (DEM) raster
 - NWFWMD Escambia and Santa Rosa (2017), 1m resolution; USGS: Coffee,
 Dale, Escambia, Geneva Counties, AL (2022), 1m resolution
- Soil Survey Geographic Database (SSURGO) raster Soil Conservation Service
- Land Use Land Cover (LULC) raster USGS
- Rain Surface raster NWS 24hr100yr and NWS 24hr500yr
- Change Factor raster CORDEX 24hr100yr NEAR (2040) and CORDEX 24 hr100yr FAR (2070)
- Impervious Surfaces NOAA
- Lake Points USGS NHD w/user edits
- Relation Tables:
 - Soil Component table
 - Soil Aggregate table
 - o Runoff table
- Burn Line layers USGS NHD and user-defined

The Inundate! Tool produces output comprised of two parts based on the hydrology modeling used. One part is a flow model that uses a hybrid combination of dendritic (stream and synthetic stream) and deranged (lake and wetland) hydrology to produce the inundation in the associated watershed catchments. The other part is ponding, or sometimes called blue-spot hydrology, which is based solely on water gathering and filling depressions with no flow involved.

Model Outputs:

- Water Bodies (Lakes, Rivers, Flat Water Areas)
- Swamps

- Drainage Flow Depth
- Ponding Depth

It is important to note that Inundate! is not an engineering scale model. It is surface based with no attention to sub-surface stormwater infrastructure. The inundation output data is used by the project team in the screening process to determine possible areas where future extreme rain events may result in hazardous flooding. It is most useful at the local government scale to identify where communities may want to carry out more detailed engineering assessments for infrastructure improvement strategies. Like all models, results are only approximations and should be used for planning purposes only.

Scenarios

The following Rainfall-Induced Flood Scenarios were modeled using the Inundate! GIS Tool. They are aimed at providing future extreme conditions, with corresponding future flooding results.

Near-Term 2040 Planning Horizon:

- 100-year, 24-hour rainfall event
- 500-year, 24-hour rainfall event

Far-Term 2070 Planning Horizon:

- 100-year, 24-hour rainfall event
- 500-year, 24-hour rainfall event

The maximum precipitation over the modeled area for each scenario is shown in Table 9.

Table 9. Maximum Precipitation by Rainfall Scenario

24-Hour Rainfall Scenario	100-Year		500-Year	
24-Hour Kaillian Scenario	2040	2070	2040	2070
Maximum Precipitation (inches)*	22.38"	23.88"	31.97"	34.04"

^{*}over the modeled area

Figures 5-8 illustrate the Inundate! outputs for each of the four modeled scenarios.

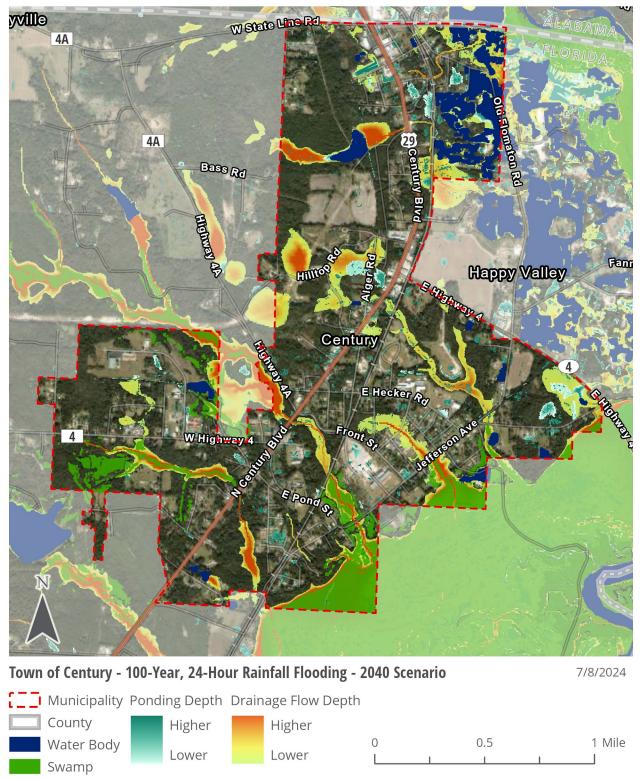


Figure 5. 100-Year, 24-Hour Rainfall - 2040 Scenario

Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, Basemap (FDEP, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, State of Florida, Maxar)

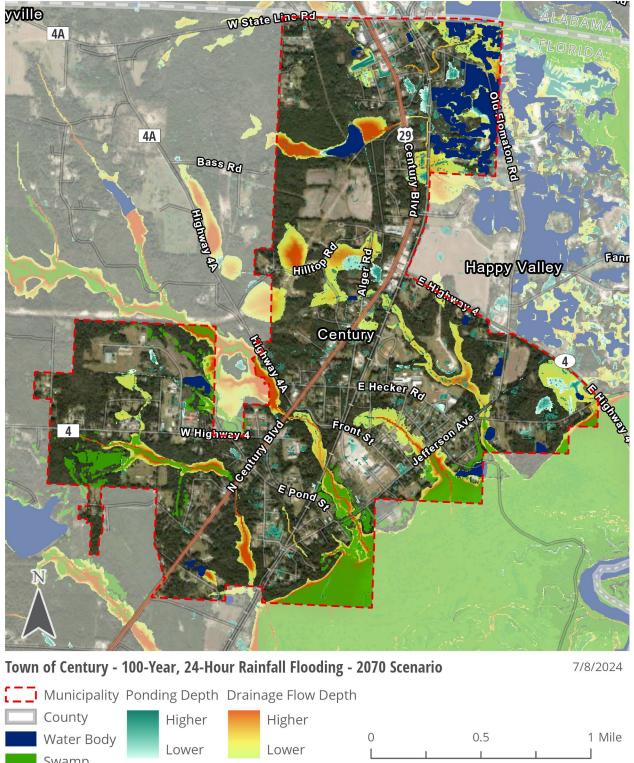


Figure 6. 100-Year, 24-Hour Rainfall - 2070 Scenario

Swamp

Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, Basemap (FDEP, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, State of Florida, Maxar)

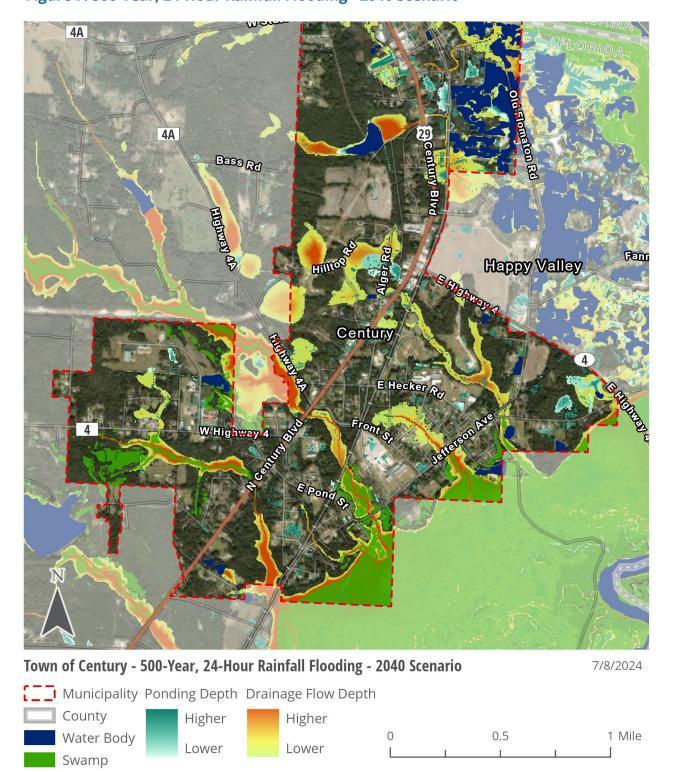


Figure 7. 500-Year, 24-Hour Rainfall Flooding - 2040 Scenario

Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, Basemap (FDEP, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, State of Florida, Maxar)

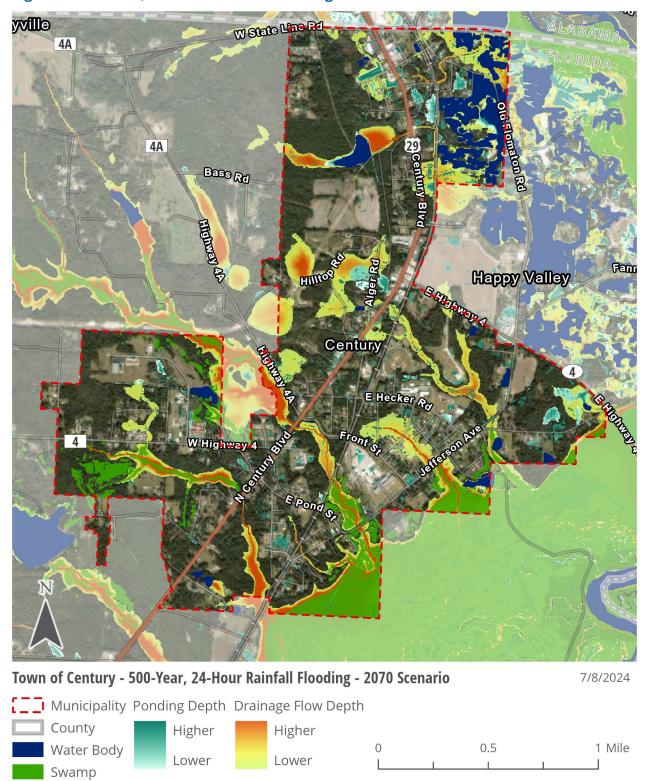


Figure 8. 500-Year, 24-Hour Rainfall Flooding - 2070 Scenario

Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, Basemap (FDEP, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, State of Florida, Maxar)

IV. Sensitivity Analysis

The Sensitivity Analysis measures the impact of modeled flooding on the identified critical assets. The aim is to evaluate the severity of flooding impacts on each asset under the four modeled flood scenarios. Exposure of the assets (identified in Tables 1 and 2) was evaluated against each flood type and scenario by using a GIS overlay approach, where the mapped flooding extents were overlaid on top of assets. Figures 9-24 illustrate the modeled rainfall flooding scenarios in relation to the identified critical assets.





Rainfall flooding (circled) on CR 4 (Top L), at Century Town Hall (Top R), and at Industrial Park Parcel and Parcel B (Bottom) in the 500-year 2070 rainfall scenario.

For the most part, the Town of Century's critical assets are located in areas where the Inundate! model does not show flooding under the four modeled scenarios. Industrial Park - Parcel A (6081 Industrial Blvd), Industrial Park - Parcel B (6071 Industrial Blvd), and the Century Town Hall all show some potential flooding on the parcels, but that flooding does not appear to affect the structures. There is also some flooding on County Road 4 at the entrance to Century Woods Apartments. Industrial Park - Parcel B (6071 Industrial Blvd) is listed twice in the table below because it is included as both a Solid and Hazardous Waste Facility and Disaster Debris Management Site.

Table 10 categorizes the risk levels of critical assets by evaluating the percentage of assets exposed to flooding under various scenarios. Risk levels—None, Low, Medium, High, and Extreme—are assigned based on the percentage of affected assets in each asset class. These percentages may be somewhat misleading given the small number of identified assets overall, but they provide a metric that allows prioritization of future adaptation actions.

Table 10. Risk Assessment Percentages

Risk Assessment	Critical Assets Affected (% of Total Assets within each Asset Class)
None	0%
Low	1-25%
Medium	26 – 50%
High	51 – 75%
Extreme	>75%

Assets of every asset class except for Natural, Cultural, and Historical Resources are included among the assets potentially affected by future inundation in the Town of Century. These include roadways, two disaster debris management sites, and Century Town Hall.

Flooding can cause both immediate and long-term damage to roadways. In the short term, inundated roads can become impassable, disrupting daily traffic and potentially stranding vehicles. Over time, frequent or prolonged flooding can degrade the structural integrity of roadways, leading to issues such as road base erosion, pavement weakening, and potholes and cracks. This deterioration can increase maintenance costs and lead to more frequent road closures, reducing the reliability of the transportation network. Additionally, standing water on road surfaces can increase the likelihood of accidents and reduce the lifespan of road materials, further escalating repair and replacement costs.

Flooding in and around government facilities can temporarily disrupt the overall functioning of local government, leading to delays in decision-making and response actions. This disruption can extend beyond the immediate period of inundation, as water damage to

Town of Century Vulnerability Assessment

buildings, furniture, and educational materials may necessitate extensive repairs and replacements. Over time, repeated flooding can degrade the structural integrity of these facilities, increase maintenance costs, and potentially require relocation or reconstruction.

Overall, there is one of one evaluated Transportation Assets (100%), three of eleven Critical Infrastructure Assets (27%), and one of two Community Facilities (50%) affected (see Table 11). These percentages are consistent across all four modeled scenarios, although the depths of projected inundation are higher in the 500-year scenarios. The Town of Century's Transportation Assets are overall categorized as 'Extreme' risk, while Critical Infrastructure and Community Facilities are 'Medium' risk.

It should be noted that a relatively small number of assets overall were included in the analysis. While the only transportation asset included was affected by the modeled flooding, that flooding does only affect a small portion of the roadway.

Table 11. Percentage of Critical Assets Affected by Asset Class and Scenario

Asset Class	Critical Assets Evaluated	Assets Affected by Rainfall Scenario				
		100-Year		500-Year		
		2040	2070	2040	2070	
Transportation Assets and Evacuation Routes	1	1 (100%)	1 (100%)	1 (100%)	1 (100%)	
Critical Infrastructure	11	3 (27%)	3 (27%)	3 (27%)	3 (27%)	
Critical Community and Emergency Facilities	2	1 (50%)	1 (50%)	1 (50%)	1 (50%)	
Natural, Cultural, and Historical Resources	1	0	0	0	0	

Table 12. Flood Depths by Scenario for Affected Assets

According to the Coulty of	Asset Class	Address	Finished Floor Elevation	Rainfall Scenario Flood Depth*			
Asset (in Priority Order)				100-Year		500-Year	
				2040	2070	2040	2070
1. CENTURY TOWN HALL	Critical Community and Emergency Facilities	7995 N Century Blvd	Not available	2.03'	2.16′	2.82′	3.01′
2. CR 4	Transportation Assets and Evacuation Routes	Entrance to Century Woods Apartments	NA	1.96′	2.10′	2.75′	2.95′
3. INDUSTRIAL PARK - PARCEL A	Critical Infrastructure	6081 Industrial Blvd	Not available	2.03′	2.16′	2.82′	3.01′
4. INDUSTRIAL PARK - PARCEL B	Critical Infrastructure	6071 Industrial Blvd	NA	2.03'	2.16′	2.82'	3.01′
5. CENTURY-INDUSTRIAL BLVD	Critical Infrastructure	6071 Industrial Blvd	NA	2.03'	2.16′	2.82′	3.01′

^{*}Depths for linear (roadway) features are maximum modeled depths across the length or area within the town limits.

Century Town Hall is ranked as the highest priority, due to the modeled flood depth and its critical function within the community, followed by CR 4 as the second highest priority. Industrial Park Parcel B (the same property as the Century-Industrial Park disaster debris management site), is given lowest priority becase it is undeveloped.

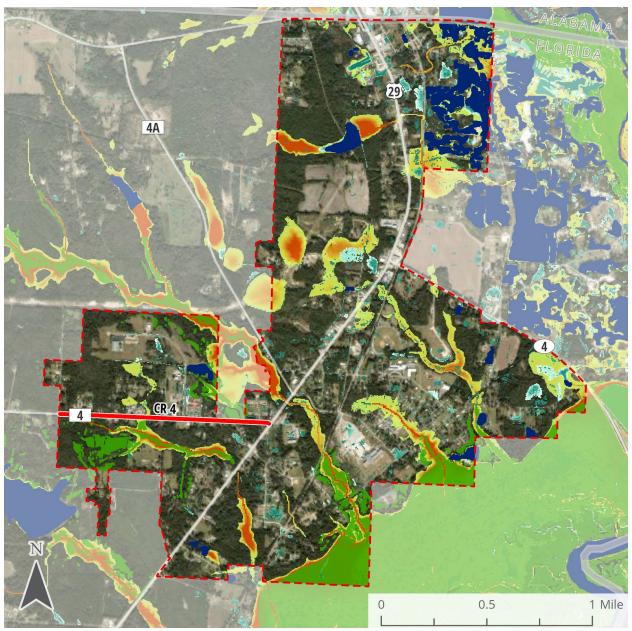
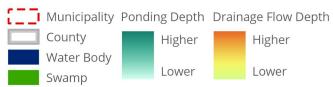


Figure 9. Transportation and Evacuation Routes - 100-Year, 2040 Scenario

Town of Century - 100-Year, 24-Hour Rainfall Flooding - 2040 Scenario Transportation Assets and Evacuation Routes

Major Roadways



Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, FDEP, Town of Century 7/11/2024

CENTURY WELL#2 TANK **CENTURY PLANT FOR WELL #3** CENTURY WELL #1 CENTURY WELL #3 TANK CENTURY PLANT FOR WELL #1 CENTURY WELL #1 TANK 29 Inset: South of Century INDUSTRIAL PARK - PARCEL A CENTURY-INDUSTRIAL BLVD CENTURY-JEFFERSON AVENUE NDUSTRIAL PARK - PARCEL B CENTURY WWTF 0.5 See Inset Map for assets south of Century

Figure 10. Critical Infrastructure - 100-Year, 2040 Scenario

Town of Century - 100-Year, 24-Hour Rainfall Flooding - 2040 Scenario

Critical Infrastructure

▲ Wastewater Treatment Facilities & Lift Stations

Drinking Water Facilities

Water Utility Conveyance Systems

Solid and Hazardous Waste Facilities

Disaster Debris Management Sites

Municipality Ponding Depth Drainage Flow Depth
County Higher Higher
Water Body
Swamp Lower Lower

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Source: ECRC, FDEP, Town of Century

7/11/2024

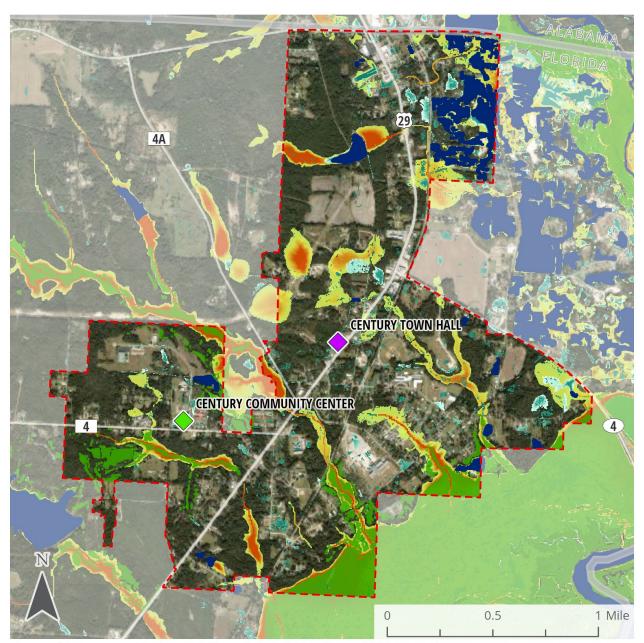


Figure 11. Critical Community & Emergency Facilities - 100-Year, 2040 Scenario

Town of Century - 100-Year, 24-Hour Rainfall Flooding - 2040 Scenario Critical Community and Emergency Facilities

Community CentersLocal Government Facilities



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Source: ECRC, FDEP, Town of Century

7/11/2024

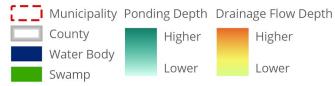
4A GEORGE WASHINGTON CARVER SCHOOL 0 0.5 1 Mile

Figure 12. Natural, Cultural, and Historical Resources - 100-Year, 2040 Scenario

Town of Century - 100-Year, 24-Hour Rainfall Flooding - 2040 Scenario Natural, Cultural, and Historical Resources

О Н

Historical and Cultural Assets



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Source: ECRC, FDEP, Town of Century

4A 0.5 0 1 Mile

Figure 13. Transportation and Evacuation Routes - 100-Year, 2070 Scenario

Transportation Assets and Evacuation Routes

—— Major Roadways



Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, FDEP, Town of Century

CENTURY WELL#2 TANK **CENTURY PLANT FOR WELL #3** CENTURY WELL #1 **CENTURY WELL #3 TANK CENTURY PLANT FOR WELL #1** CENTURY WELL #1 TANK 29 Inset: South of Century INDUSTRIAL PARK - PARCEL A CENTURY-INDUSTRIAL BLVD CENTURY-JEFFERSON AVENUE NDUSTRIAL PARK - PARCEL B CENTURY WWTF 0 0.5 See Inset Map for assets south of Century

Figure 14. Critical Infrastructure - 100-Year, 2070 Scenario

Critical Infrastructure

Wastewater Treatment Facilities & Lift Stations |

Drinking Water Facilities

Water Utility Conveyance Systems

Solid and Hazardous Waste Facilities

Disaster Debris Management Sites

Municipality Ponding Depth Drainage Flow Depth County Higher Higher Water Body Lower Lower Swamp

Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, FDEP, Town of Century

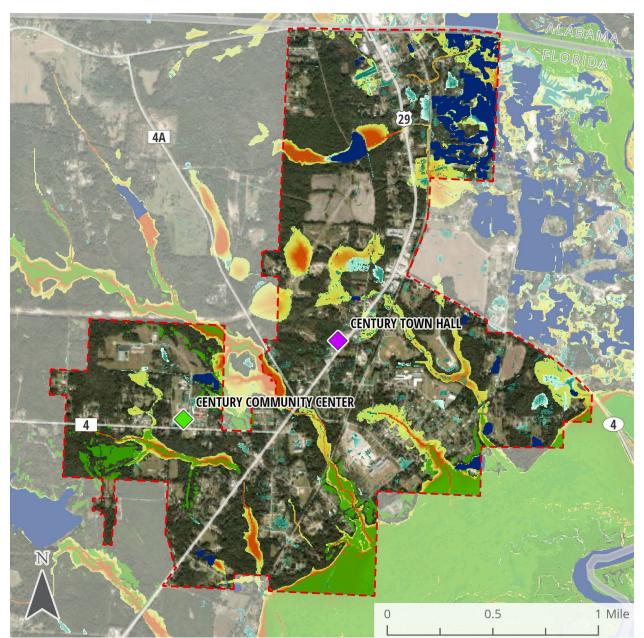
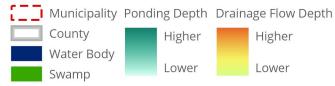


Figure 15. Critical Community & Emergency Facilities - 100-Year, 2070 Scenario

Critical Community and Emergency Facilities

Community Centers

Local Government Facilities



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Source: ECRC, FDEP, Town of Century

4A GEORGE WASHINGTON CARVER SCHOOL 0.5

Figure 16. Natural, Cultural, and Historical Resources - 100-Year, 2070 Scenario

Natural, Cultural, and Historical Resources

Historical and Cultural Assets



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Source: ECRC, FDEP, Town of Century

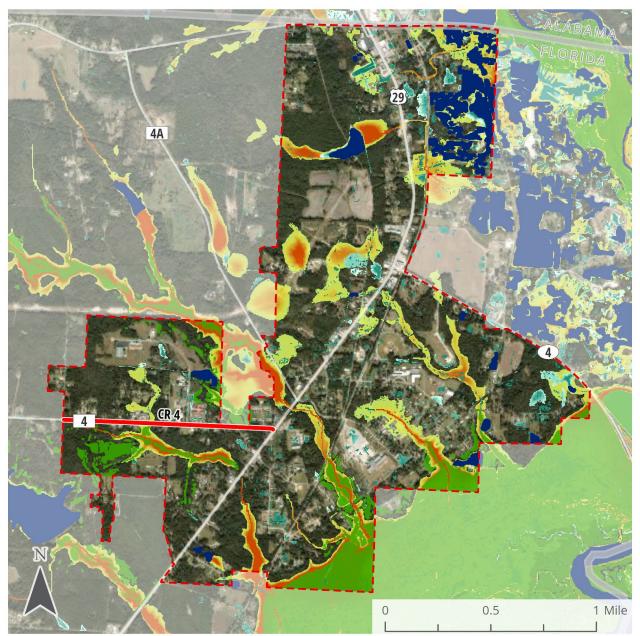
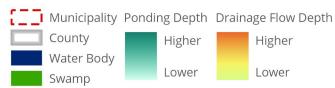


Figure 17. Transportation and Evacuation Routes - 500-Year, 2040 Scenario

Town of Century - 500-Year, 24-Hour Rainfall Flooding - 2040 Scenario Transportation Assets and Evacuation Routes

- Major Doodway

Major Roadways



Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, FDEP, Town of Century

CENTURY WELL#2 TANK **CENTURY PLANT FOR WELL #3 CENTURY WELL #1 CENTURY WELL #3 TANK CENTURY PLANT FOR WELL #1** CENTURY WELL #1 TANK 29 Inset: South of Century INDUSTRIAL PARK - PARCEL A CENTURY-INDUSTRIAL BLVD CENTURY JEFFERSON AVENUE NDUSTRIAL PARK - PARCEL B CENTURY WWTF 0.5 See Inset Map for assets south of Century

Figure 18. Critical Infrastructure - 500-Year, 2040 Scenario

Town of Century - 500-Year, 24-Hour Rainfall Flooding - 2040 Scenario Critical Infrastructure

▲ Wastewater Treatment Facilities & Lift Stations
 ▲ Drinking Water Facilities
 ▲ Water Utility Conveyance Systems

Solid and Hazardous Waste Facilities

Disaster Debris Management Sites

Municipality Ponding Depth Drainage Flow Depth
County Higher Higher
Water Body
Swamp Lower Lower

Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, FDEP, Town of Century

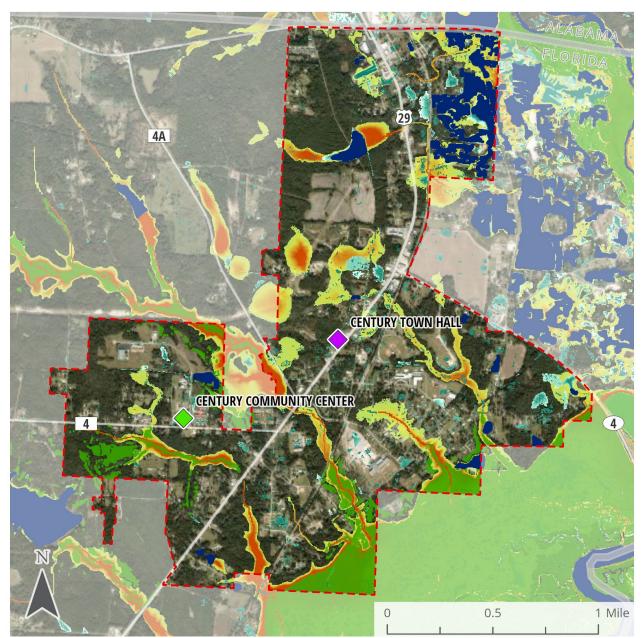
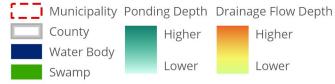


Figure 19. Critical Community & Emergency Facilities - 500-Year, 2040 Scenario

Town of Century - 500-Year, 24-Hour Rainfall Flooding - 2040 Scenario Critical Community and Emergency Facilities

Community Centers

Local Government Facilities



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Source: ECRC, FDEP, Town of Century

4A GEORGE WASHINGTON CARVER SCHOOL 0 0.5 1 Mile

Figure 20. Natural, Cultural, and Historical Resources - 500-Year, 2040 Scenario

Natural, Cultural, and Historical Resources

Municipality Ponding Depth Drainage Flow Depth Historical and Cultural Assets County Higher Higher Water Body Lower Lower Swamp

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Source: ECRC, FDEP, Town of Century

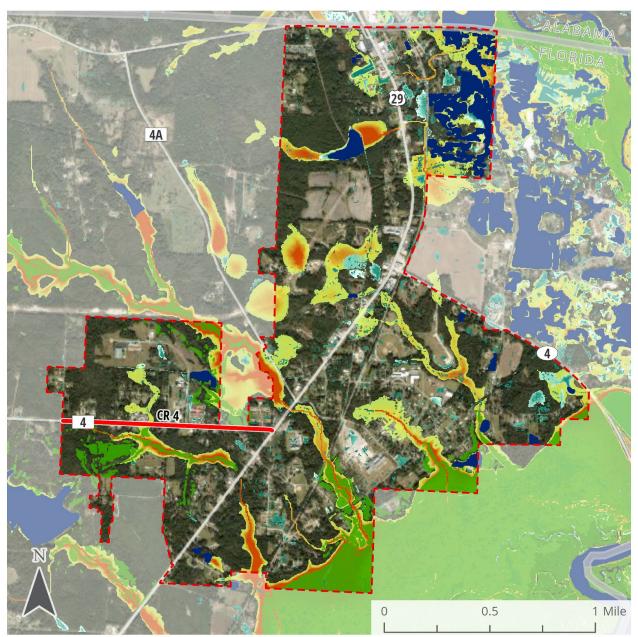


Figure 21. Transportation and Evacuation Routes - 500-Year, 2070 Scenario

Transportation Assets and Evacuation Routes

Major Roadways



Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, FDEP, Town of Century

CENTURY WELL#2 TANK **CENTURY PLANT FOR WELL #3 CENTURY WELL #1 CENTURY WELL #3 TANK** CENTURY PLANT FOR WELL #1 CENTURY WELL #1 TANK 29 Inset: South of Century INDUSTRIAL PARK - PARCEL A CENTURY-INDUSTRIAL BLVD CENTURY-JEFFERSON AVENUE NDUSTRIAL PARK - PARCEL B CENTURY WWTF 0.5 See Inset Map for assets south of Century

Figure 22. Critical Infrastructure - 500-Year, 2070 Scenario

Town of Century - 500-Year, 24-Hour Rainfall Flooding - 2070 Scenario Critical Infrastructure

Wastewater Treatment Facilities & Lift StationsDrinking Water Facilities

Water Utility Conveyance SystemsSolid and Hazardous Waste Facilities

▲ Disaster Debris Management Sites

Municipality Ponding Depth Drainage Flow Depth
County Higher Higher
Water Body
Swamp Lower Lower

Disclaimer: This figure is not intended to show the exact location of flooding and does not account for all variables affecting future flooding. Actual future flooding may differ from this graphic. This graphic is strictly a planning reference tool and is not for navigation, permitting, insurance rating, or other legal or regulatory purposes.

Source: ECRC, FDEP, Town of Century

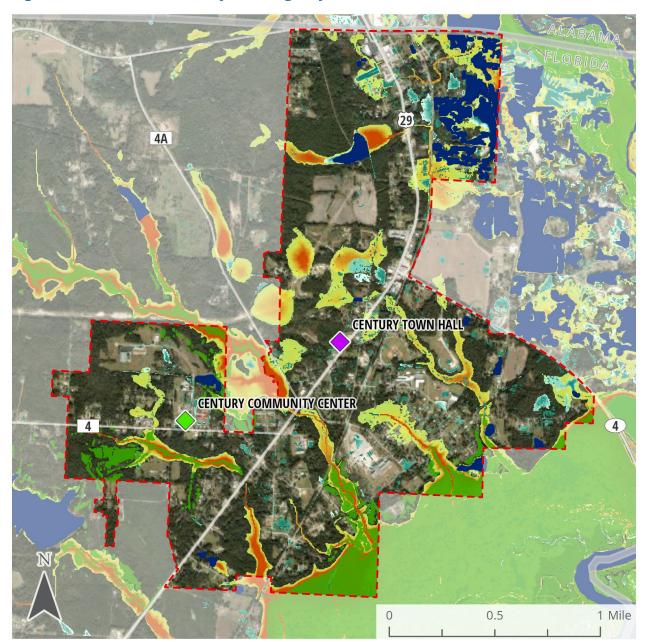
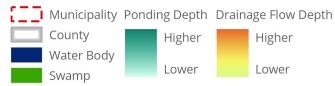


Figure 23. Critical Community & Emergency Facilities - 500-Year, 2070 Scenario

Critical Community and Emergency Facilities

Community Centers





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Source: ECRC, FDEP, Town of Century

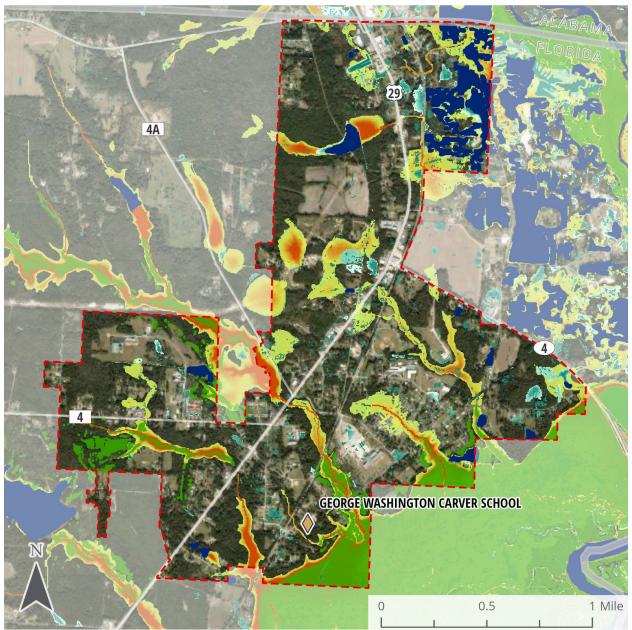
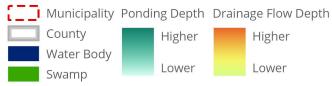


Figure 24. Natural, Cultural, and Historical Resources - 500-Year, 2070 Scenario

Natural, Cultural, and Historical Resources

 \Diamond

Historical and Cultural Assets



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Source: ECRC, FDEP, Town of Century

V. Focus Areas

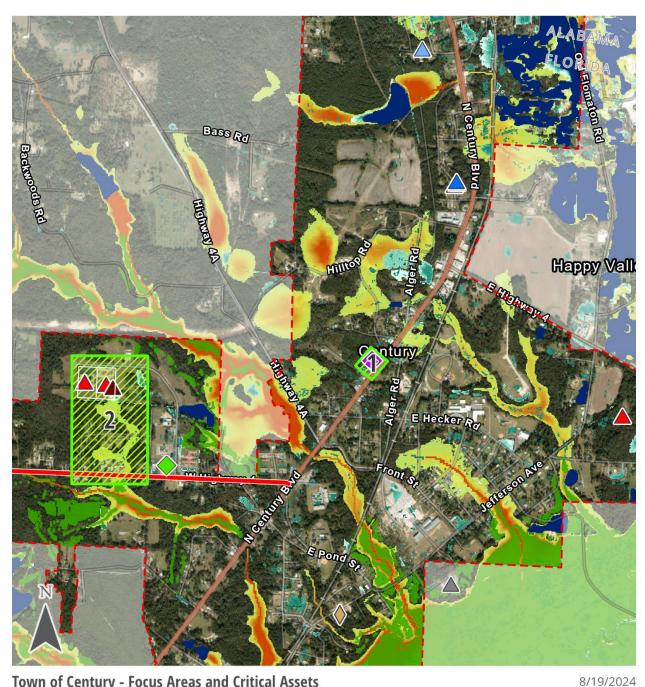
Figure 25 shows two defined Focus Areas for the Town of Century. Focus Area 1 includes projected flooding in and around Century Town Hall and includes some potentially affected county and state assets including the Century Branch Library and some portions of North Century Boulevard (Highway 29). While not all these assets show direct inundation, projected flow and ponding during extreme rainfall events in the surrounding area could have the effect of restricting access to critical assets.

Focus Area 2 includes portions of County Road 4 and several parcels in Century's Industrial Park. County Road 4 is a critical transportation corridor in the community. In addition to these Town-owned assets, additional streets and a significant number of privately-owned structures appear vulnerable. Before any action is taken, further assessments should be conducted to better understand the nature and severity of flooding.

Table 13. Focus Areas and Critical Assets

Focus Area	Asset Name	Owner/Operator
1	CENTURY TOWN HALL	Town of Century
2	CR 4	Town of Century
2	INDUSTRIAL PARK – PARCEL A	Town of Century
2	INDUSTRIAL PARK – PARCEL B	Town of Century
2	CENTURY – INDUSTRIAL BLVD	Town of Century

Figure 25. Focus Areas and Critical Assets



Town of Century - Focus Areas and Critical Assets

Wastewater Treatment Facilities & Lift Stations

Disaster Debris Management Sites **Community Centers** Local Government Facilities

1 Mile

Historical and Cultural Assets

Major Roadways 0.5

Water Utility Conveyance Systems

Drinking Water Facilities

Solid and Hazardous Waste Facilities

Source: ECRC, FDEP, Town of Century

//// Focus Area

Municipality

VI. Discussion

The results of the Town of Century's Vulnerability Assessment provide building blocks for the next phase of Adaptation Planning. This report highlights specific vulnerabilities to Critical Assets as identified in Florida Statutes, in particular, the area surrounding Century's Town Hall, several parcels in Century's Industrial Park, and a portion of County Road 4.

This report does not cover all possible future vulnerabilities. Future Vulnerability Assessments may take a wider lens and include privately-owned assets alongside the Critical Assets examined here. Additionally, as climate projections evolve and more detailed data becomes available, the Town of Century may wish to update and expand its vulnerability assessment.

Town staff were instrumental in providing feedback throughout the project. This collaborative effort ensured that the assessment accurately reflects local conditions and Critical Assets. The engagement of additional local stakeholders during the subsequent adaptation planning phase will be essential for ensuring that any future efforts are grounded in the community's needs and experiences.

The recommendations provided in this report serve as a starting point for developing a comprehensive adaptation strategy. Future steps should include detailed assessments for the prioritized areas, exploration of funding opportunities for resilience projects, and continued collaboration with regional partners and experts. The Town may also explore analyses focusing on areas which are vulnerable to inundation, but do not contain municipal assets. By taking these steps, the Town of Century can better prepare for and mitigate the impacts of future flooding events, ensuring the safety and well-being of its residents and the protection of its critical infrastructure.

References

- Florida League of Cities. *Cities by Year of Incorporation with Information, 2020.* Florida League of Cities, 2020, www.flcities.com/docs/default-source/research-institute-reports/2020citiesbyincorporationwithinfo.pdf?sfvrsn=5009d6d5_0.
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