



## THE CITY OF KEY WEST

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### 2022 CRS Annual Floodplain Management Progress Report

**Community Name:** Key West, FL

**Name of Plan:** Monroe County Local Mitigation Strategy

**Date of Adoption of Plan:** February 9, 2021

**5 Year CRS Expiration Date:** February 8, 2026

#### **Background**

The Board of County Commissioners directed the Monroe County Emergency Management Department to coordinate and facilitate the development of the LMS, and subsequent 5-year updates, in conformance with state and federal guidelines. The plan was developed in a joint and cooperative manner by members of a Local Mitigation Strategy Working Group (LMSWG) which included representatives of Monroe County, Key Colony Beach, Key West, Marathon, Islamorada, Layton, federal and state agencies, citizens, and other stakeholders. This plan will ensure all jurisdictions in Monroe County remain eligible for federal disaster assistance including the FEMA HMGP, BRIC, and FMA programs. The 2021 Update replaces the 2015, 2010 and 2005 Updates of the 1999 LMS.

The plan has been prepared in compliance with Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act or the Act), 42 U.S.C. 5165, enacted under Section 104 of the Disaster Mitigation Act of 2000, (DMA 2000) Public Law 106-390 of October 30, 2000, as implemented at CFR 201.6 and 201.7 dated October 2007. Additionally, the plan meets the requirements set forth by the Florida Administrative Code Chapter 27P-22.

As a requirement to participate in the Community Rating System, the LMSWG must annually evaluate the LMS as their floodplain management planning document. Jurisdictions participating in the CRS program are required to submit, as part of the annual CRS recertification process, an annual evaluation report on the progress in implementing the LMS. This report is prepared to meet Community Rating System Activity 510 Floodplain Management Planning, Element 512.a. Step 10.

A copy of the 2021 Monroe County Local Mitigation Strategy is available at the Monroe County Emergency Management website: <https://www.monroecounty-fl.gov/911/Local-Mitigation-Strategy>

#### **Annual Progress Report Preparation, Distribution and Availability:**

This report was prepared by Lori Lehr, CRS Consultant for Monroe County and City of Key West. The Monroe County Local Mitigation Strategy Committee meets quarterly to discuss the progress of action items and mitigation efforts. This progress report reflects the progress goals and objectives in the Local Mitigation Strategy. The meeting agendas and presentation are available upon request.

The annual progress report is made available to all jurisdictions and their governing bodies, the media, and the public via each jurisdiction's website. A copy of the report is sent annually to the State of Florida NFIP Coordinator's office via email.



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### **Implementation of Action Items:**

In the post-Irma environment, the LMSWG meets regularly to discuss the mitigation funding opportunities and project implementation. The group also meets to participate in mitigation training. In 2022, the group met in March, July, September, October, and December. Each participating community has a list of mitigation projects specific to the jurisdiction and there are numerous projects that benefit all municipalities and their mitigation efforts.

County-wide projects are being ranked and implemented on schedule as funding becomes available. The following table indicates the progress of each of the projects that are listed in the Monroe County Local Mitigation Strategy that have specific implications that include the City of Key West.

<b>Monroe County Local Mitigation Project List</b>			
<b>Action #</b>	<b>Jurisdiction</b>	<b>Action Description</b>	<b>2023 Updates</b>
49	Monroe County and Key West	Improve Satellite Communication	County purchased Starlink.
50	Monroe County and Key West	Storm Hardening of Electrical Service to Critical Government Facilities	Keys Energy is lead
51	Monroe County and Key West	Backup Generators for Critical Facilities	Keys Energy is lead
52	Monroe County and Key West	Harden Material Distribution Center	Keys Energy is lead
53	Monroe County and Key West	Transmission Pole Water Crossing	Keys Energy is lead
61	Key West	EOC Upgrades	In progress
62	Key West	Planning/Development of Sister City EOC: Develop a plan and implement a Sister City Emergency Operations Center for large scale pre & post disaster situations	No progress
63	Key West	Emergency warning signal: install a siren or message device to be heard all across the city.	No Progress
64	Key West	Hazard Mitigation Strategies Planning Support	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
65	Key West	Post-Disaster (Flood) Recovery Plan	Plan Completed. Actions ongoing
66	Key West	Repetitive Loss Property Mitigation Planning Support	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
67	Key West	Reconstruction of Key Plaza Site B: Demolition and Reconstruction of 50 affordable apartment units.	Held workshops on design of North Roosevelt.

Action #	Jurisdiction	Action Description	2023 Updates
68	Key West	Rehabilitation and Retrofit of George Allen Apartments: Rehabilitation, Window replacement, & retrofit shutters to Dade County approved wind resistance for 117 public housing project units	No progress
69	Key West	Generators for Critical Facilities (5)	Complete
70	Key West	Wind-Retrofit(s) of First Responder Facilities	Increasing scope
71	Key West	Fire Station 3	Waiting for additional funding opportunities.
73	Key West	Garrison Bright/Wahoo Pier Hardening	Complete
74	Key West	Elevation of Flood prone Residential Properties	Partnered with County on Education Outreach and FMA applications.
75	Key West	Shutter Bayview Park Scorebox	No progress
76	Key West	Shutter Fire Station Museum: Install Dade county approved shutter system on structure.	No progress
77	Key West	Shutter Park-n-Ride: Feasibility of shuttering the parking garage for storage of City Emergency vehicles and equipment; <del>post disaster relief site.</del>	No progress
78	Key West	Wind Retrofit of Homes: The City will manage a project to examine homes and provide recommendations to homeowners for wind retrofit and fund the structural retrofit.	MySafeFLHome. Also will be addressed in upcoming FY23 Key West Adaptation Plan effort.
79	Key West	1010 Windsor Lane: Structural retrofitting of existing auditorium building	No Progress
80	Key West	Wind-Retrofit(s) of Historically and Culturally Significant Facilities	Waiting for additional funding opportunities.
81	Key West	Wind-Retrofits of Public Service Facilities	Increasing scope

Action #	Jurisdiction	Action Description	2023 Updates
82	Key West	Affordable Rentals, Phase III; New construction of affordable housing units. This is a continuation of project funded under prior Unmet Needs Funding. New construction of 14 affordable rental unit elderly persons.	Garden View to be completed Quarter 1 FY23 and 3.2 Acres is in permitting.
83	Key West	Elevation of Public Works Facility	No Progress
85	Key West	Force Main Relocation Project (Infrastructure Hardening)	In progress
86	Key West	Outfall system for Dennis & Venetian (Drainage)	Complete
87	Key West	Staples Avenue exfiltration trench	No progress
88	Key West	Tide Valves and Outfall Improvements (Drainage)	Design completed. Construction begins late FY23
89	Key West	Fogarty and 3rd Street Pump Station	Construction begins FY23
90	Key West	Harris and 10th street expanded project: installation of new outfall at Harris & 10th street with a pollution control box near the outfall to improve drainage in the low elevation area	Increasing scope
91	Key West	White & Petronia	On hold. No funding.
92	Key West	3rd street Well or Exfiltration Trench	Fogarty & 3rd pump station construction begins FY23
93	Key West	4th street Well or Exfiltration Trench	Fogarty & 3rd pump station construction begins FY23
94	Key West	Cindy & 19th Street Outfall	No Progress
95	Key West	Additional Well for Patricia/Ashby Pump Station	No progress
96	Key West	Duck Avenue & 19th Street Gravity Well	No Progress
97	Key West	Eagle and 20th outfall	No Progress
98	Key West	Eagle Avenue Between 16th and 17th street trench	No Progress
99	Key West	Eisenhower Drive Twin 24" Pipeline	No Progress
100	Key West	Flood Control Flagler Avenue: Install nine wells to intercept water from Flagler Avenue and put tide valves to stop storm surge.	Flagler is Count Road. Monroe applied for funds to address.
101	Key West	Florida & Olivia Street Gravity Well	No Progress
102	Key West	Olivia Street at Pohalski & at Francis Gravity Well	No Progress
103	Key West	Packer Street at Olivia - trench and well	No Progress

Action #	Jurisdiction	Action Description	2023 Updates
104	Key West	Hazard Mitigation Community Revolving Loan Fund	No Progress
105	Key West	Hazard Mitigation Policies Upgrade: (PDRRP?)	Some with PDRRP, some with upcoming Adaptation Plan
106	Key West	Comprehensive Pervious Program to decrease runoff. Tie to vertical (cistern) Stormwater Management options.	FY24
107	Key West	Erosion Program, to track, disclose & utilize living shorelines when possible.	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
108	Key West	Living Shoreline Plan to protect our island from erosion.	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
109	Key West	Neighborhood Flood Protection Plan	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
110	Key West	Water Supply Plan: Require high efficiency water fixtures	1st reading passed.
111	Key West	Turf Replacement with Synthetic options	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
112	Key West	Assess vulnerability to Severe Wind	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
113	Key West	CRS Group to work together on Beyond Minimum requirements	Key West will develop Code Plus standards in FY23
114	Key West	Research using New Town alleyways to protect powerlines or for stormwater	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
115	Key West	Survey all City owned buildings for Wind/Flood resiliency needs	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
116	Key West	Enforce existing irrigation regulations (sensors, timing)	Begins April 2023
117	Key West	Feasibility study for greywater systems	FY24
118	Key West	Feasibility Study for WWTP Potable Water Treatment (Toilet to Tap)	FY24
119	Key West	Heat Island Program, to increase tree canopy, green/cool roofs & a community cooling center	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
120	Key West	Map first floor elevation for all buildings	City buildings will complete FY23
121	Key West	Map subsidence areas	No progress

Action #	Jurisdiction	Action Description	2023 Updates
122	Key West	Piling Replacement at KW Historic Seaport	Ongoing
123	Key West	Seawall Repair at KW Historic Seaport	Complete
124	Key West	Structural Repairs at 201 William St Building	Complete
125	Key West	Tarpon Finger Pier Extensions	Unknown
126	Key West	Greene Street Redevelopment	Construction begins FY23
127	Key West	Expand Public Outreach: Mapping, outreach, floodproofing, disclosures, financing, etc.	Ongoing
128	Key West	Cohost Public Workshops with FIRM (NFIP, mitigation, etc.)	Ongoing
129	Key West	Track High Water Marks	No Progress
130	Key West	Educational material to share across websites	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
131	Key West	King Tide Educational Map	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
132	Key West	Minimum Recommended Residential Mitigations	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
133	Key West	Potable Water Treatment option for WWTP (Design and Build)	FY24
134	Key West	Poinciana Housing: affordable housing for Police Dept	Waiting for funding
135	Key West	Cisterns for additional water supply during hurricanes	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
136	Key West	Replace Sludge Conveyor	Researching waste to energy
137	Key West	Third Effluent Pump	Complete
138	Key West	Palm Ave Bldg: Remodel to raise equipment and staff above flood.	FY25
139	Key West	Atlantic Ave Rebuild: Raise and Protect	Waiting on Monroe County
140	Key West	Diesel Plant: Design & Construction to stabilize building of historical and cultural significance	No updates
141	Key West	Douglass Gym Expansion: Community Center	Did not get Resilience Hub grant. Construction drawings at 50%
142	Key West	Duval Street Stormwater Revitalization: Raise road to reduce stormwater/SLR	RFQ issued and awarded. Design firm begins 1st Quarter FY23.

Action #	Jurisdiction	Action Description	2023 Updates
143	Key West	Elevate or Floodproof essential public buildings	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
144	Key West	Elevate or Floodproof historically or culturally significant buildings	Will be addressed in upcoming FY23 Key West Adaptation Plan effort.
145	Key West	Govt Road Culverts	Due for completion FY23
146	Key West	KOTS: Construct/Develop new Keys Overnight Temporary Shelter for homeless	Grant awarded. Construction Drawings at 95%.
147	Key West	Lift Station Renovation - Phases 1 and 2	Complete
148	Key West	Parking lot stormwater storage pilot	No Progress
149	Key West	Update Stormwater Master Plan	Should be complete 1st quarter FY23
	Key West	United St./Jose Marti drainage improvements	Design budgeted for FY23