



BOARD OF COUNTY COMMISSIONERS

Mayor James K. Scholl, District 3
Mayor *Pro Tem* Michelle Lincoln, District 2
Craig Cates, District 1
David Rice, District 4
Holly Merrill Raschein, District 5

2024 CRS Annual Floodplain Management Progress Report

Community Name: Monroe County, Key Colony Beach, Marathon, Islamorada, Layton

Name of Plan: Monroe County Local Mitigation Strategy

Date of Adoption of Plan: February 9, 2021

5 Year CRS Expiration Date: February 8, 2026

Report Date: January 31, 2025

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 and Meeting Minutes are 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. 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 via email: lehr-lori@monroecounty-FL.US.

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.

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 2024, the LMSWG met in February, June, September 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.

Projects are being ranked and implemented on schedule as funding becomes available. The Table on the next page indicates the progress of each of the 164 listed projects listed in the LMS Action Plan. The Table was updated in September of 2024.

Community		Monroe County and All Jurisdictions									
Action Details											
Action #	Jurisdiction	Action Description	Hazard(s) Addressed	Objective Addressed	Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline	2020 Implementation Status Comments
3	Monroe County and municipalities	Florida Keys Imperiled Water Supply Protection	All	3.2	H	Natural Resource Protection	FCAA	\$9,634,514	HMGF	2023	FCAA received notice of award. FCAA selected design engineer through RFQ process. FCAA is awaiting for signed agreement with FDEM before proceeding with design
20	Monroe County and municipalities	Purchase New Wellfield for water supply to address threat of saltwater intrusion and hypersaline water from FPL cooling canals.	All	2.1	H	Natural Resource Protection	FCAA	\$4,000,000	BRIC, HMGF, CDBG-MIT	2024	Project currently in Planning Phase
22	Monroe County and municipalities	Engine generators at Water Treatment Plant	All	2.1	M	Property Protection	FCAA	\$1,500,000	HMGF, BRIC, HLMP, CDBG	Jun-24	Project currently in Planning Phase
23	Monroe County and Municipalities	Hospital Hardening: Evaluate/identify necessary improvements needed to retrofit hospital facilities and perform needed retrofits to mitigate storm damages. Facilities include: Lower Keys Health Systems, De Poo Hospital, Fisherman's Hospital, Mariners' Hospital, Nursing Homes (including Bayshore Manor)	All	1.3	M	Property Protection	LKMC/Baptist Health/Monroe County	Over \$1,000,000	HMGF, BRIC, CDBG-MIT, HLMP		New Project.
24	Monroe County	Emergency Communications and Warning Upgrades	All	1.2	M	Emergency Services	Monroe County Emergency Management	\$600,000	BRIC, CDBG-DR, CDBG-MIT, Port Security	2020-2025	No progress has been made on this action to date.
25	Monroe County	Phone System/Communications Upgrades	All	1.2	H	Emergency Services	Monroe County IT	\$400,000	BRIC, Port Security	2020-2025	Monroe County estimates 75% progress toward completion.
26	Monroe County	Department of Health Emergency Operations Center (EOC) in the Tavernier area close to their special needs shelter	All	1.2	H	Emergency Services	Monroe County & State Health Department	\$100,000	EMPG, HMGF, BRIC, FMA	2020-2025	No progress has been made on this action to date.
27	Monroe County	Integrated Flood Risk Reduction Approach. Monroe County will examine the various department responsibilities and activities that address flooding and seek ways to develop a more integrated approach. The departments involved include Emergency Management, Growth Management, Planning, etc. Some integration options include coordination with recovery plan preparations, review and commenting on comprehensive plan updates, and evaluating capital improvement budgeting programs	Tropical Cyclones, Flood, Sea Level Rise	3.3	M	Preventive and Regulatory	Monroe County Emergency Management	Less than \$10,000	Staff Time	2020-2025	Monroe County estimates that this actions is approximately 80% complete.
28	Monroe County	Peacock Apartments Rehabilitation Project: rehabilitation and retrofit of 24 unit special needs housing property. Serves very low income mentally ill adults.	Tropical Cyclones, Flood, Tornado/Waterspout, Sea Level Rise, Severe Storms	1.3	M	Property Protection	US Fellowship of Florida	\$150,000	BRIC, HMGF	2020-2025	No progress has ben made to date on this action.
29	Monroe County	Emergency Generator for Critical Facility @ Guidance Care Center	All	1.3	M	Property Protection	Monroe County Emergency Management	\$101,240	HMGF, BRIC	2022	Complete - Waiting on FDEM Close out
30	Monroe County	Retrofit St. James Missionary Baptist Church (historic church) and update structure to be a safe place to house and feed members of community during and after a disaster	All	1.3	M	Property Protection	St. James Missionary Baptist Church	\$165,000	HMGF, BRIC, HLMP	2025	To date, no progress has been made on this action.
31	Monroe County	Mel Fisher Maritime Museum Capital Improvement Project: The window and doors project is a subset of an overall capital improvement project designed to protect and preserve a historically significant building, located in a historical district and housing priceless and unique historical collection	Tropical Cyclones, Tornado/Waterspout, Severe Storms	1.3	L	Property Protection	Mel Fisher Maritime Museum	\$250,000	HMGF, BRIC, HLMP, CDBG-DR	2020-2025	No progress has ben made to date on this action.
32	Monroe County	Evaluate existing and proposed infrastructure and facilities to identify recommendations to increase resilience and account for dynamic hazards including flood, wind, sea level rise, coastal erosion, and strong storms. Infrastructure and facilities provide services the whole community depends on for basic functioning. Monroe County will review new projects for recommendations to increase resiliency prior to inclusion in the Capital Improvements Element of the Comprehensive Plan and evaluate options for protecting infrastructure in vulnerable areas. Infrastructure includes new, renovated and replacement public facilities such as streets and bridges, water and wastewater treatment plants, police stations and fire stations, and any other public buildings and facilities. Options may include hardening, elevating, relocating, or not building new infrastructure in the areas with highest risk associated with flooding, sea level rise, and erosion.	Tropical Cyclones, Flood, Tornado/Water Spout, Sea Level Rise, Coastal Erosion, Severe Storms	2.1	M	Property Protection	Monroe County Emergency Management	\$10,000 to \$50,000	Staff Time	2020-2025	Monroe County estimates that this actions is approximately 80% complete.
33	Monroe County	Murray Nelson Cultural Center Emergency Backup Generator for SpNS Population: Purchase and installation of generator to provide emergency backup power for SpNS sheltering population during all hazard events	All	1.3	H	Property Protection	Monroe County Public Works	\$500,000	BRIC, HMGF, CDGB-MIT	2022	No progress has ben made to date on this action.

34	Monroe County	Old City Hall Flood Retrofit: install flood panel system for double doors on Ann Street and single door on Greene Street.	Tropical Cyclones, Flood, Sea Level Rise	2.1	M	Property Protection	Historic Florida Keys Foundation	\$15,000	BRIC, HMGP, FMA	2020-2025	No progress has been made on this action to date.
35	Monroe County	Higgs Beach (KW) Seawall Replacement Project for flood water protection of the Historic West Martello Towers Fort	Tropical Cyclones, Flood, Sea Level Rise	1.3	M	Structural Projects	Monroe County Public Works	\$1,050,000	HMA, FMA, BRIC, HMGP	2020-2025	No progress has been made on this action to date.
36	Monroe County	Twin Lakes and Sands Subdivision Drainage Improvement and Roadway Elevation Project	Tropical Cyclones, Flood, Sea Level Rise	1.3	M	Structural Projects	Monroe County Roads and Bridges/ Engineering	\$3,900,000	HMGP, BRIC, FMA	2020-2025	Under ENG Review and considered a back-up project. The County intends to submit for BRIC funding. Considered for "Legislative PDM earmark funding"
37	Monroe County	West Martello Seawall Improvements	Tropical Cyclones, Flood, Sea Level Rise	1.3	M	Structural Projects	Monroe County Public Works	\$500,000	HMGP, BRIC, FMA	2020-2025	To date, no progress has been made on this action.
38	Monroe County	Become certified under Emergency Management Accreditation Program	All	1.2	M	Emergency Services	Monroe County Emergency Management	Less than \$10,000	Staff Time	3	New Project.
39	Monroe County	Monroe County Handheld Radionuclide Identification Device	Radiological Incidents	1.2	M	Emergency Services	Monroe County Emergency Management	\$15,000	BRIC	2 Years	New Project.
40	Monroe County	Portable Radiological Portal Monitors	Radiological Incidents	1.2	M	Emergency Services	Monroe County Emergency Management	\$50,000	BRIC	2 Years	One monitor awarded under UASI 2021 grant
41	Monroe County	Monroe County Emergency Management Inflatable Decontamination Tent for Emergency Worker Decontamination	Radiological Incidents	1.2	M	Emergency Services	Monroe County Emergency Management	\$50,000	BRIC	2 years	New Project.
42	Monroe County	Monroe County complete requirements to achieve Storm Ready recognition from NOAA National Weather Service	Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms	1.2	M	Public Information and Outreach; Emergency Services	Monroe County Emergency Management	Less than \$10,000	Staff Time	1 year	New Project.
43	Monroe County, Marathon, Islamorada, Key Colony Beach, Layton	Marathon Generation	All	2.1	M	Structural Projects	FKEC	\$40,000,000	HMGP, BRIC		No progress has been made on this action to date.
44	Monroe County, Marathon, Islamorada, Key Colony Beach, Layton	Distribution water crossing overhead to underground	All	2.1	M	Structural Projects	FKEC	\$35,000,000	HMGP, BRIC, FMA		No progress has been made on this action to date.
45	Monroe County, Marathon, Islamorada, Key Colony Beach, Layton	Main Feeder Pole Replacement	All	2.1	M	Structural Projects	FKEC	\$3,000,000	HMGP, BRIC, FMA		Under ENV Review
46	Monroe County, Marathon, Islamorada, Key Colony Beach, Layton	Sea Oats Beach Transmission Line Relocation	All	2.1	M	Structural Projects	FKEC	\$6,500,000	HMGP, BRIC, FMA		Under FEMA Review
47	Monroe County, Marathon, Islamorada, Key Colony Beach, Layton	Self-Supporting Transmission Poles	All	2.1	M	Structural Projects	FKEC	\$6,000,000	HMGP, BRIC, FMA		Contract submitted for FDEM execution
48	Monroe County, Marathon, Islamorada, Key Colony Beach, Layton	Transmission Water Structure	All	2.1	M	Structural Projects	FKEC	\$10,500,000	HMGP, BRIC, FMA		In contracting process.
49	Monroe County and Key West	Improve Satellite Communication	All	1.2	M	Emergency Services	KEYS Energy Services	\$257,190	BRIC		Reviewing alternatives for internet connection - still in technical development
50	Monroe County and Key West	Storm Hardening of Electrical Service to Critical Government Facilities	All	3.2	M	Property Protection	KEYS Energy Services	\$3,145,000	HMGP, BRIC, CDBG		The FDEM contract has been submitted to the utility board and is pending approval
51	Monroe County and Key West	Backup Generators for Critical Facilities	All	1.2	M	Property Protection	KEYS Energy Services	\$200,000	HMGP, BRIC, CDBG-DR, CDBG-MIT		This action is still in progress. To date, 4 locations have been completed.

52	Monroe County and Key West	Harden Material Distribution Center	All	2.1	M	Property Protection	KEYS Energy Services	\$9,262,500	HMGP, BRIC, CDBG-DR, CDBG-MIT		This action is in progress and is currently bond funded. The new warehouse is under construction.
53	Monroe County and Key West	Transmission Pole Water Crossing	All	2.1	M	Structural Projects	KEYS Energy Services	\$8,171,954	HMGP, BRIC, FMA		In progress; Irma HMGP
54	Islamorada, Key Colony Beach, Key West, Layton, Marathon	Evaluate protective measures for critical infrastructure and facilities to protect against dynamic hazards including flood, wind, sea level rise, and strong storms. Critical facilities provide services that the whole community depends on for basic functioning. The communities will evaluate the need for protecting critical facilities and infrastructure and address as needed.	All	2.1	M	Property Protection	Jurisdiction Engineering/Public Works	\$10,000 to \$50,000	Staff Time	2020-2025	Islamorada facilities to be addressed have been identified (fire stations and wastewater facility); funding for main fire station and wastewater facility are in the RFP process. The other two stations are in the queue. The community hopes to floodproof these facilities that sit at BFE+1'. Key Colony Beach is currently in the planning phase to build a new City Hall and will begin demolition and construction soon. Key West has developed a multi-department adaptation team; many stormwater master plan projects are in progress and planning grants have been applied for (Home elevation education and post disaster redevelopment plan grants have been received) Layton has retrofitted roof systems to 18- mph with heavy insulation and replaced all windows with impact windows. Elevation of
55	Islamorada	Emergency Communications System, including communication and notification system comprised of video and cable components to augment the local cable system, local municipal radio communications system, and satellite communications	All	1.2	H	Emergency Services	Islamorada Fire Rescue; Islamorada IT & Communications	\$100,000 to \$500,000	BRIC, CDBG-MIT	2020-2025	Islamorada has added at least 5 means of external communication from the EOC and conducted training on HAM radio operations training. The community has POCs with SatCom companies to place and order if need arises.
56	Islamorada	Emergency Back-up power for Critical Facilities	All	1.3	H	Property Protection	Islamorada Public Works	\$500,000	HMGP, BRIC	2023	In contracting process.
57	Islamorada	Flood-proofing for Fire Stations (3)	Tropical Cyclones, Flood, Sea Level Rise	1.3	M	Property Protection	Islamorada Fire Rescue; Islamorada Public Works	\$300,000	HMGP, BRIC, FMA	2025	Back-up project for Islamorada.
58	Islamorada	Wastewater System Mitigation	All	2.1	M	Property Protection	Islamorada Wastewater Utility; Islamorada Public Works	\$600,000	HMGP, BRIC, FMA	2025	The contract is currently being modified.
59	Islamorada	Fire Station 20 FEMA 361 Saferoom for First Responders	All	1.3	M	Structural Projects	Islamorada Public Works	\$6,000,000	HMGP, BRIC, FMA	2023	This project is in the design phase.
60	Islamorada	Overseas Highway/ Sea Oats Beach Flood and Erosion Protection	Tropical Cyclones, Flood, Sea Level Rise, Coastal Erosion	2.1	H	Structural Projects	Islamorada Public Works	\$10,000,000	HMGP, BRIC, FMA	2024	Under ENG Review
61	Key West	EOC Upgrades	All	1.2	M	Emergency Services	Key West Engineering	\$281,400	EMPG, HMGP, BRIC, FMA	2021	To date, generator is hooked up.
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	All	1.2	M	Emergency Services	Department of Emergency Management	\$40,000	EMPG, HMGP, BRIC, FMA	2024	No progress
63	Key West	Emergency warning signal: install a siren or message device to be heard all across the city.	All	1.2	M	Emergency Services	Key West Information Technology Dept; General Services Department	\$200,000	HMGP, BRIC, FMA, CDBG-MIT	2023	No progress
64	Key West	HM Strategies Planning Support	All	2.2	H	Preventive and Regulatory	Key West Floodplain Management	\$75,000	BRIC	2022	No grants have allowed for this yet
65	Key West	Post-Disaster (Flood) Recovery Plan	Flood	1.2	H	Preventive and Regulatory	Key West Engineering	\$40,000	BRIC;FMA	2021	Won FDEO Grant

66	Key West	Repetitive Loss Property Mitigation Planning Support	Tropical Cyclones, Flood, Sea Level Rise	2.2	H	Preventive and Regulatory	Key West Floodplain Management	\$45,000	HMGP, BRIC, FMA, CDBG-DR	2023	No grants have allowed for this yet
67	Key West	Reconstruction of Key Plaza Site B: Demolition and Reconstruction of 50 affordable apartment units.	Tropical Cyclones, Flood, Tornado/Waterspout, Sea Level Rise	1.3	M	Property Protection	Housing Authority of Key West	\$6,775,000	BRIC, HMGP	2024	No progress; Key West is following up with the Housing Authority
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	Tropical Cyclones, Tornado/Waterspout, Severe Storms	1.3	H	Property Protection	Housing Authority of Key West	\$550,000	BRIC, HMGP, HLMP	2024	No progress; Key West is following up with the Housing Authority
69	Key West	Generators for Critical Facilities (5)	All	1.3	H	Property Protection	Key West Engineering	\$278,000	HMGP, BRIC	2021	In contracting process.
70	Key West	Wind-Retrofit(s) of First Responder Facilities	All	3.2	H	Property Protection	Key West Engineering	\$650,000	HMGP, BRIC	2021	In contracting process.
71	Key West	Fire Station 3	All	1.3	H	Property Protection	Key West Engineering	\$10,000,000	HMGP, BRIC, FMA	2023	The City dropped the FEMA 361 aspect from the previous plan; Key West has applied for CDBG-DR, MIT-GI, & BRIC funding for the project.
72	Key West	Residential Floodproofing Program	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Property Protection	Key West Engineering	\$236,000	HMGP, BRIC, FMA, CDBG-DR,	2022	No progress has been made on this action to date.
73	Key West	Garrison Bright/Wahoo Pier Hardening	Tropical Cyclones, Tornado/Waterspout, Flood, Sea Level Rise, Severe Storms	2.1	H	Property Protection	Key West Ports	\$2,175,000	HMGP, BRIC, FMA, CDBG-DR, CDBG-MIT	2022	Applying for Boat grant.
74	Key West	Elevation of Floodprone Residential Properties	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Property Protection	Key West Engineering	\$1,800,000	HMGP, BRIC, FMA, CDBG-DR, HLMP	2024	Received seagrant educational grant.
75	Key West	Shutter Bayview Park Scorebox	Tropical Cyclones, Tornado/Waterspouts, Severe Storms	1.3	H	Property Protection	Key West General Services/City Engineer	\$4,000	HMGP, BRIC, HLMP	2023	No progress has been made to date
76	Key West	Shutter Fire Station Museum: Install Dade county approved shutter system on structure.	Tropical Cyclones, Tornado/Waterspout, Severe Storms	1.3	H	Property Protection	Key West General Services/City Engineer	\$30,000	HMGP, BRIC, HLMP	2022	Work has not yet begun toward this action.
77	Key West	Shutter Park-n-Ride: Shutter the parking garage for storage of City Emergency vehicles and equipment; post disaster relief site.	Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms	1.3	H	Property Protection	Key West General Services/City Engineer	\$250,000	HMGP, BRIC, HLMP	2024	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.	Tropical Cyclones, Tornado/Waterspout, Severe Storms	1.3	H	Property Protection	Key West Information Technology Dept; General Services Department	\$100,000	HMGP, BRIC, HLMP	2023	Key West is working with the County's Weatherization Assistance Program (WAP); the City has no funding for this program at present.
79	Key West	1010 Windsor Lane: Structural retrofitting of existing auditorium building	Tropical Cyclones, Tornado/Waterspouts, Severe Storms	1.3	H	Property Protection	St. Mary's Start of the Sea Parish	\$100,000 to \$500,000	HMGP, BRIC, HLMP, CDBG-DR	2024	No progress has been made. The City of Key West is following up with the Lead Agency.
80	Key West	Wind-Retrofit(s) of Historically and Culturally Significant Facilities	Tropical Cyclones, Tornado/Waterspouts, Severe Storms	1.3	H	Property Protection	Key West Engineering	\$4,500,000	HMGP, PDM, HLMP, CDBG-DR, CDBG-MIT	2023	Missed HLMP grant cycle, waiting for additional funding opportunities.
81	Key West	Wind-Retrofits of Public Service Facilities	Tropical Cyclones, Tornado/Waterspouts, Severe Storms	3.2	H	Property Protection	Key West Engineering	3,500,000	HMGP; BRIC; HLMP	2021	Under FEMA Review
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.	All	1.3	H	Property Protection	Monroe County Housing Authority	\$2,000,000	BRIC, CDBG-DR, CDBG-MIT	2024	No progress has been made on this action since 2015. At that time, permits and land were in place
83	Key West	Elevation of Public Works Facility: Raise the Public Works Office, equipment storage, and repair facilities. Tow Structures.	Tropical Cyclones, Flood, Sea Level Rise	1.3	M	Property Protection	Key West General Services/City Engineer	\$373,000	HMGP, BRIC, FMA, CDBG-MIT		The area is currently being redesigned.
84	Key West	United St./Jose Marti drainage improvements	Tropical Cyclones, Flood, Sea Level Rise	1.3	M	Structural Projects	Key West General Services/City Engineer	\$2,300,000	HMGP, BRIC, FMA, CDBG	2022	In design phase
85	Key West	Force Main Relocation Project (Infrastructure Hardening)	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$2,330,000	HMGP, BRIC, FMA	2021	Received Contract for HMGP (also CDBG-DR1, DR2 & MIT-GI Funds)
86	Key West	Outfall system for Dennis & Venetian (Drainage)	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West Utility	\$1,309,459	HMGP, BRIC, FMA	2021	In contracting process.
87	Key West	Staples Avenue exfiltration trench	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West Utility	\$638,471	HMGP, BRIC, FMA	2023	No progress has been made to date
88	Key West	Tide Valves and Outfall Improvements (Drainage)	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West Utility	\$4,658,082	HMGP, BRIC, FMA	2021	In design phase; also applied for CDBG-DR2 & MIT-GI

89	Key West	Fogarty and 3rd Street Pump Station	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$6,800,000	HMGP, BRIC, FMA, CDBG-DR, CDBG-MIT	2021	No word from grant applications yet; no progress has been made.
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	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West Utility	\$5,625,000	HMGP, BRIC, FMA, CDBG-DR, CDBG-MIT	2021	In contracting process.
91	Key West	White and Petronia Street Gravity Well	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West Utility	\$450,000	HMGP, BRIC, FMA, CDBG-DR, CDBG-MIT	2021	Key West has applied for HMGP/CDBG-DR2 funding - waiting to hear back.
92	Key West	3rd street Well or Exfirtraion Trench	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$396,316	HMGP, BRIC, FMA, CDBG-MIT	2023	No progress has been made to date
93	Key West	4th street Well or Exfirtraion Trench	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$396,316	HMGP, BRIC, FMA, CDBG-MIT	2023	No progress has been made to date
94	Key West	Cindy & 19th Street Outfall	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$2,825,692	HMGP, BRIC, FMA, CDBG-MIT	2023	No progress has been made to date
95	Key West	Additional Well for Patricia/Ashby Pump Station	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$150,000	HMGP; BRIC;FMA	2023	Applied for FEMA Grant
96	Key West	Duck Avenue & 19th Street Gravity Well	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$530,577	HMGP, BRIC, FMA, CDBG-MIT	2023	Seeking HMGP funds
97	Key West	Eagle and 20th outfall	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$1,705,914	HMGP, BRIC, FMA, CDBG-MIT	2023	No progress has been made to date
98	Key West	Eagle Avenue Between 16th and 17th street trench	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$406,550	HMGP, BRIC, FMA, CDBG-MIT	2023	No progress has been made to date
99	Key West	Eisenhower Drive Twin 24" Pipeline	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$548,554	BRIC, FMA, HMGP	2023	No progress has been made to date
100	Key West	Flood Control Flagler Avenue: Install nine wells to intercept water from Flagler Avenue and put tide valves to stop storm surge.	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West General Services/City Engineer	\$560,000	HMGP, BRIC, FMA, CDBG-MIT	2023	Tide valves only
101	Key West	Florida & Olivia Street Gravity Well	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West Utility	\$396,316	HMGP, BRIC, FMA, CDBG-MIT	2023	No progress has been made to date
102	Key West	Olivia Street at Phalski & at Francis Gravity Well	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West Utility	530577	HMGP, BRIC, FMA, CDBG-MIT	2022	No progress has been made to date
103	Key West	Packer Street at Olivia - trench and well	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West Utility	\$396,316	HMGP, BRIC, FMA, CDBG-MIT	2023	No progress has been made to date
104	Key West	Hazard Mitigation Community Revolving Loan Fund	All	2.2	H	Preventive and Regulatory	Key West Sustainability; Engineering Department	\$100,000 to \$500,000	HLMF, BRIC, HMGP	2023	
105	Key West	Hazard Mitigation Policies Upgrade	All	2.2	H	Preventive and Regulatory	Key West Planning	Less than \$10,000	Staff Time	2021	
106	Key West	Comprehensive Pervious Program to decrease runoff. Tie to vertical (cistern) Stormwater Management options.	Flood	1.3	H	Natural Resource Protection	Key West: Engineering	\$10,000 to \$50,000	FMA, BRIC, HMGP	2022	
107	Key West	Erosion Program, to track, disclose & utilize living shorelines when possible.	Coastal Erosion	2.3	H	Natural Resource Protection	Key West: Engineering	\$50,000 to \$100,000	BRIC, HMGP	2022	
108	Key West	Living Shoreline Plan to protect our island from erosion.	Flood, Coastal Erosion	2.3	H	Natural Resource Protection	Key West: Engineering	\$50,000 to \$100,000	HMGP, BRIC	2022	
109	Key West	Neighborhood Flood Protection Plan	Flood	2.2	H	Natural Resource Protection	Key West: Engineering	\$50,000 to \$100,000	BRIC, HMPG	2023	
110	Key West	Water Supply Plan: Require high efficiency water fixtures	Drought	2.2	M	Preventive and Regulatory	Key West: Planning	\$50,000 to \$100,000	HMGP, BRIC	2021	
111	Key West	Turf Replacement with Synthetic options	Drought	1.3	M	Preventive and Regulatory	Key West: Public Works	\$100,000 to \$500,000	HMGP, BRIC, FMA	2022	
112	Key West	Assess vulnerability to Severe Wind	Tropical Cyclones, Tornado/Waterspouts, Severe Storms	2.1	H	Preventive and Regulatory	Key West: Engineering	Less than \$10,000	Staff Time	2022	
113	Key West	CRS Group to work together on Beyond Minimum requirements	Tropical Cyclones, Severe Storms, Flood, Sa Level Rise	2.2	H	Preventive and Regulatory	County/Jurisdictional Floodplain Management	Less than \$10,000	Staff Time	2021	
114	Key West	Research using New Town alleyways to protect powerlines or for stormwater	Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms	2.1	M	Preventive and Regulatory	Key West: Engineering	Less than \$10,000	Staff Time	2022	
115	Key West	Survey all City owned buildings for Wind/Flood resiliency needs	Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms	1.3	H	Preventive and Regulatory	Key West: Engineering	\$10,000 to \$50,000	Staff Time	2022	
116	Key West	Enforce existing irrigation regulations (sensors, timing)	Drought	2.1	M	Preventive and Regulatory	Key West: Engineering	\$10,000 to \$50,000	Staff Time	2022	
117	Key West	Feasibility study for greywater systems	Drought	2.1	M	Preventive and Regulatory	Key West: Engineering	\$10,000 to \$50,000	BRIC	2022	
118	Key West	Feasibility Study for WWTP Potable Water Treatment	Drought	2.1	M	Preventive and Regulatory	Key West: Utilities	\$10,000 to \$50,000	BRIC	2022	
119	Key West	Heat Island Program, to increase tree canopy, green/cool roofs & a community cooling center	Extreme Heat	2.2	H	Preventive and Regulatory	Key West: Engineering	\$10,000 to \$50,000	BRIC, HMGP	2023	
120	Key West	Map first floor elevation for all buildings	Flood	2.2	M	Preventive and Regulatory	Key West: Floodplain	\$50,000 to \$100,000	Staff Time	2022	
121	Key West	Map subsidence areas	Coastal Erosion	2.2	H	Preventive and Regulatory	Key West: Floodplain	\$50,000 to \$100,000	Staff Time	2021	

122	Key West	Piling Replacement at KW Historic Seaport	Tropical Cyclones, Severe Storms	2.1	H	Property Protection	Key West: Ports	\$100,000 to \$500,000	BRIC, FMA	2021	
123	Key West	Seawall Repair at KW Historic Seaport	Tropical Cyclones, Severe Storms	1.3	H	Property Protection	Key West: Ports	\$100,000 to \$500,000	FMA, BRIC, HMGP	2022	
124	Key West	Structural Repairs at 201 William St Building	Tropical Cyclones, Severe Storms	1.3	H	Property Protection	Key West: Ports	\$100,000 to \$500,000	HGMP, BRIC, CDBG-MIT	2021	
125	Key West	Tarpon Finger Pier Extensions	Tropical Cyclones, Severe Storms	2.1	H	Property Protection	Key West: Ports	\$100,000 to \$500,000	HGMP, BRIC, CDBG-MIT	2021	
126	Key West	Greene Street Redevelopment	Tropical Cyclones, Severe Weather, Flood	1.3	H	Property Protection	Key West: Ports	\$100,000 to \$500,000	HMGP, BRIC, HLMP	2022	
127	Key West	Expand Public Outreach: Mapping, outreach, floodproofing, windproofing, individual mitigation actions, disclosures, financing, etc.	All	1.1	H	Public Information and Outreach	Key West Sustainability; Engineering Department	\$10,000 to \$50,000	Staff Time	2022	
128	Key West	Cohost Public Workshops with FIRM (NFIP, mitigation, etc)	Tropical Cyclones, Tornado/Waterspouts, Severe Storms	1.1	H	Public Information and Outreach	Key West: Floodplain	Less than \$10,000	Staff Time	2021	
129	Key West	Track High Water Marks	Flood	1.3	M	Public Information and Outreach	Key West: Floodplain	Less than \$10,000	Staff Time	2021	
130	Key West	Educational material to share across websites	Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms	1.1	H	Public Information and Outreach	All	Less than \$10,000	Staff Time	2022	
131	Key West	King Tide Educational Map	Flood	1.1	H	Public Information and Outreach	Key West: Engineering	Less than \$10,000	Staff Time	2022	
132	Key West	Minimum Recommended Residential Mitigations	Tropical Cyclones, Flood, Sea Level Rise	1.1	H	Public Information and Outreach	Key West: Engineering	Less than \$10,000	Staff Time	2022	
133	Key West	Potable Water Treatment option for WWTP (Design and Build)	Drought	2.1	H	Structural Projects	Key West: Utilities	Over \$1,000,000	BRIC, HMGP, CDBG-MIT	2023	
134	Key West	Poincianna Housing: affordable housing for Police Dept	All	2.2	H	Structural Projects	Key West: Engineering	\$500,000 to \$1,000,000	BRIC, HMGP, EMPG	2022	
135	Key West	Cisterns for additional water supply during hurricanes	Drought, Tropical Cyclones, Severe Storms	1.2	H	Structural Projects	Key West: Engineering	\$100,000 to \$500,000	HMGP, BRIC	2023	
136	Key West	Replace Sludge Conveyor	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West: Utilities	\$50,000 to \$100,000	BRIC, HMGP	2023	
137	Key West	Third Effluent Pump	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West: Utilities	\$100,000 to \$500,000	HGMP, BRIC, CDBG-MIT	2023	
138	Key West	Community Services Building: Remodel to raise equipment and staff above flood.	Tropical Cyclones, Flood, Sea Level Rise	1.3	H	Structural Projects	Key West: Engineering	\$100,000 to \$500,000	HMGP, BRIC, FMA, CDBG-DR	2022	
139	Key West	Atlantic Ave Rebuild: Raise and Protect	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West: Engineering	\$100,000 to \$500,000	HMGP, BRIC, FMA, CDBG-MIT	2022	
140	Key West	Diesel Plant: Design & Construction to stabilize building of historical and cultural significance	Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms	1.3	H	Structural Projects	Key West: Engineering	\$100,000 to \$500,000	BRIC, CDBG-MIT, HMGP	2022	
141	Key West	Douglass Gym Expansion: Community Center	All	1.3	H	Structural Projects	Key West: Engineering	\$100,000 to \$500,000	BRIC, CDBG, HMGP	2023	
142	Key West	Duval Street Stormwater Revitalization: Raise road to reduce stormwater/SLR	Flood, Sea Level Rise	2.1	H	Structural Projects	Key West: Engineering	\$100,000 to \$500,000	HMGP, BRIC, FMA, CDBG-MIT	2022	
143	Key West	Elevate or Floodproof essential public buildings	Flood	1.3	H	Structural Projects	Key West: Engineering	Over \$1,000,000	HMGP, BRIC, FMA, CDBG-MIT	2023	
144	Key West	Elevate or Floodproof historically or culturally significant buildings	Flood	1.3	H	Structural Projects	Key West: Engineering	Over \$1,000,000	HMGP, BRIC, FMA, CDBG-MIT	2024	
145	Key West	Govt Road Culverts	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West: Utilities	\$100,000 to \$500,000	HMGP, BRIC, FMA, CDBG-MIT	2023	
146	Key West	KOTS: Construct/Develop new Keys Overnight Temporary Shelter for homeless	All	1.2	H	Structural Projects	Key West: Engineering	Over \$1,000,000	HMGP, BRIC	2022	
147	Key West	Lift Station Renovation - Phases 1 and 2	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Structural Projects	Key West: Utilities	\$500,000 to \$1,000,000	HMGP, BRIC, CDBG-MIT, HLMP	2021	
148	Key West	Parking lot stormwater storage pilot	Flood	1.3	H	Structural Projects	Key West: Engineering	\$50,000 to \$100,000	FMA, BRIC	2022	
149	Key West	Update Stormwater Master Plan	Flood	2.2	H	Structural Projects	Key West: Utilities	\$10,000 to \$50,000	HMGP	2021	
150	Layton	Become Storm Ready Community	All	1.2	H	Emergency Services	Layton Building Department	Less than \$10,000	Staff Time	2021	City has begun the progress with the National Weather Service
151	Layton	Add culverts to canals on the East side of the city to improve water flow and water quality	Flood, Tropical Cyclones, Drought, Sea Level Rise	2.1	M	Natural Resource Protection	Layton City Council & Building Department	\$100,000 to \$500,000	HMGP, BRIC, FMA, CDBG-MIT	5 years	Funding needed; have obtained proposal from engineering firm
152	Layton	Obtain LIDAR data to identify actual elevation of existing city roads and elevate as needed.	Tropical Cyclones, Flood, Sea Level Rise	2.1	H	Property protection	Layton City Council	\$100,000 to \$500,000	CDBG-MIT	5 years	Partnered with Mornoe County for CDBG-MIT funding

153	Layton	Partner with Monroe County Fire Rescue to rebuild fire house and administrative offices elevated or flood proofed above BFE plus minimum 3' freeboard.	Tropical Cyclones, Tornado/Waterspout, Severe Weather, Flood, Sea Level Rise	2.1	M	Property protection	Monroe County Fire Rescue; City of Layton	\$500,000 to \$1,000,000	HMGP, BRIC,FMA	5-7 years	Funding needed for long term plan; Monroe County purchased the adjacent parcel and Layton owns the firehouse, etc. A partnership is in process.
154	Marathon	City-wide communications network	All	1.2	M	Emergency Services	Marathon Fire Rescue; Marathon Administration	\$150,000	BRIC	2025	No progress has been made on this action to date.
155	Marathon	Hurricane Shelter: increase shelter spaces available during hurricane emergencies	Tropical Cyclones	1.2	M	Emergency Services	Monroe County School District	\$100,000 to \$500,000	HMGP, BRIC	2025	No progress has been made on this Maction to date.
156	Marathon	Critical Facility Hardening	All	2.1	H	Property Protection	Marathon Public Works	\$290,000	HGMP, BRIC, CDBG-DR, CDBG-MIT	2024	Partial Progress; fire station roof has been redone. Further hardening work remains
157	Marathon	Emergency Generators and Fuel Trailers for Critical Facilities	All	1.3	H	Property Protection	Marathon Public Works	\$175,000	HMGP, BRIC	2023	In contracting process.
158	Marathon	Marathon Coastal Hardening and Resiliency	Tropical Cyclones, Flood, Sea Level Rise, Coastal Erosion	1.3	H	Structural Projects	Marathon Public Works; Marathon Planning	\$1,200,000	HMGP, BRIC, FMA	2024	Under ENG Review
159	Marathon	Wastewater Treatment Facilities	All	2.1	H	Structural Projects	Marathon Utilities	\$3,155,528	HMGP, BRIC, FMA	2023	Under ENG Review
160	Key Colony Beach	Raise 4 wastewater lift station electrical control boxes to assure functionality after storms. Total of 15 lift stations for wastewater return system. Estimated cost to raise each control box is \$3,000 per box, cost to replace if damaged by storm is \$5,000 each	All	2.1	H	Property Protection	KCB Wastewater Utility; KCB Public Works	\$12,000	HMGP	2024	
161	Key Colony Beach	Vehicle lifts for maintenance garage for mitigation in flooding conditions after a severe storm, includes maintenance vehicles and police vehicles. Requesting 3 lifts to support the current number of vehicles. Estimated cost of each lift \$5,000, estimate cost of replacement vehicle if damaged is \$32,000	Tropical Cyclones, Flood, Sea Level Rise, Severe Storms	1.2	H	Property Protection	KCB Public Works; KCB Police Department	\$15,000	HMGP	2024	
162	Key Colony Beach	Portable sump pump and hose system to move excess stormwater in isolated areas to reduce flooding	Tropical Cyclones, Flood, Sea Level Rise, Severe Storms	1.2	H	Property Protection	KCB Public Works	\$7,000	HMGP	2024	
163	Key Colony Beach	Install rip-rap boulders to reduce/eliminate erosion from Atlantic Ocean in shoulder areas of Sunset Park, and Sadowski roadway, owned by City of Key Colony Beach	Coastal Erosion	2.3	M	Structural Projects	KCB Public Works	\$100,000	HMGP	2025	
164	Key Colony Beach	Watershed Planning Watershed Master Plan - City of Key Colony Beach	Flood, Sea Level Rise, Flood Surge		M	Preventive and Regulatory	KCB Public Works	\$141,625	HMGP	2025	
164	College of the Florida Keys	Strengthening Underserved Neighborhoods with Resilient Infrastructure and Solar Enterprise at The College of the Florida Keys	Power Failure	2.1	H	Structural Projects	College of the Florida Keys	\$2,400,000	HMGP, BRIC	2025	
165	Marathon	Residential Elevation 1150 122 Street Ocean, Marathon, FL 33050	Tropical Cyclones, Flood, Sea Level Rise, Severe Storms	2.1	H	Property Protection	County Emergency Management Department with Jurisdictional Representatives	\$235,715	HMGP (DR-4709)	2024-2028	
166	Key West	Residential Mitigation Reconstruction Project 1400 20th Street, Key West, FL 33040	Tropical Cyclones, Flood, Sea Level Rise, Severe Storms	1.3	H	Property Protection	County Emergency Management Department with Jurisdictional Representatives	\$459,098.85	HMGP (DR-4709)	2024-2028	
167	Utility Board of Key West, Florida dba Keys Energy Services	Replace degraded 50 year old power poles with KEYS standard extreme wind load ductile iron poles, increasing resiliency of electrical infrastructure and extending communication infrastructure.	Flood, Tropical Cyclones, Sea Level Rise		H	Property Protection and Structural Projects	Utility Board of the City of Key West, FL	\$6,600,000	BRIC	2025 - 2026	NOI submitted to FDEM 8/28/2024
168	Key West	The Duval Street corridor drains all of the lower Duval district which include the iconic historic waterfront destination of Mallory Square and all streets and private property in the heart of the City's historic commercial area. The City seeks to add a stormwater injection well, grading and associated infrastructure to the area.	Flood, Sea Level Rise		M	Property Protection and Structural Projects	City of Key West	\$68,000,000	BRIC	2025 - 2026	NOI submitted to FDEM
169	Keys West	All 10 historic structures in Mallory Square are owned by the City and listed as Contributing Structures with the National Register of Historic Places. The City seeks to harden, flood-proof & preserve the 10 historic structures in Mallory Square.	Flood, Sea Level Rise		M	Property Protection and Structural Projects	City of Key West	\$26,400,000	BRIC	2025 - 2026	NOI Submitted to FDEM
170	Key West	The City seeks to elevate the Mallory Square Seawall by three feet, in alignment with the anticipated sea level rise of 21 to 54 inches by 2070, thereby mitigating the significant flood risks posed by climate change.	Flood, Sea Level Rise, Tropical Cyclones		H	Property Protection and Structural Projects	City of Key West	\$2,333,000	BRIC	2025- 2026	NOI Submitted to FDEM

171	FKAA	Install new water piping that utilize modern technology and located underground to be able to resist the effects of climate change, natural disasters and manmade disasters. This project will consist of constructing new pipelines that cross beneath Channel #2, Lignumvitae Channel, Indian Key Channel, and the Teatable Channel for a total of approximately 5,800 linear feet of pipeline. The pipeline will be installed subaqueous at depths that will prevent the pipe from becoming buoyant or damaged from erosion with the channel.	Prolonged utility failure		H	Property Protection, Infrastructure	FKAA	\$12,500,000	BRIC	2025-2026	NOI Submitted to FDEM
-----	------	--	---------------------------	--	---	-------------------------------------	------	--------------	------	-----------	-----------------------