

## **INTRODUCTION OF AMENDMENTS**

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### Non-Substantial Amendment 1

	Non-Substantial Amendment 1, Effective as of 5/19/2021			
Previous Page #	New Page #	Section	Change/Addition/Deletion	
56	N/A	III. Projects and Activities	<u>Updated</u> "Office of Disaster Recovery" to "DEO"	
60	N/A	Projects and Activities	Removed the following language in "Rounds II and III" of the General Infrastructure Program  Round II will commence in 2021 Round III will commence in 2022	
72	N/A	VII. Citizen Participation	<u>Updated</u> "Office of Disaster Recovery" to "Disaster Recovery Programs"	
84	N/A	VIII. General Action Plan Requirements	Updated "Office of Disaster Recovery" to "DEO"	
96	N/A	Appendix B - Survey Summary Report	Updated "Office of Disaster Recovery" to "DEO"	

## Substantial Amendment 2

	Substantial Amendment 2, Approved by HUD 7/30/2021			
Previous Page #	New Page #	Section	Change/Addition/Deletion	
7-8	xviii-xix	Definitions, Acronyms & Abbreviations	Moved "List of Tables" and "List of Figures" to precede "Definitions, Acronyms & Abbreviations"	
9	3	Definitions, Acronyms & Abbreviations	Removed "other general purpose political subdivision of a state" from the definition of UGLG	
N/A	3	Definitions, Acronyms & Abbreviations	Inserted definition for Unmet Need Mitigation (UNM)	

N/A	5	Executive Summary	Added in allocation language for Mitigation efforts for areas affected by Hurricane Michael
			Clarified "The purpose of this amended action plan"
10-11	6	Executive Summary	Rephrased sentence for clarity
N/A	6	Executive Summary	Added in "The new CDBG-MIT funds will be added to the General Infrastructure activities proposed in the initial Action Plan."
11	6	Executive Summary	Modified Table 1 caption to read: "2016-2017 CDBG-MIT Program Allocations"
N/A	7	Executive Summary	Added Table 2: 2018 CDBG-MIT Program Allocation
16	11	I. Introduction and Background	Clarified that <u>roughly</u> 1,200 homes were destroyed by Hurricane Irma
N/A	13-15	I. Introduction and Background	Inserted Hurricane Michael information into section I.B, Recent Disasters. Including:  Figure 3: Hurricane Michael Statistics Figure 4: Hurricane Michael wind field Figure 5: 100-Year flood zones for Michael presidentially declared counties Figure 6: Hurricane Michael storm surge inundation
18	15	I. Introduction and Background	Updated paragraph summarizing the storms that affected Florida to include Hurricane Michael
18	16-17	I. Introduction and Background	<u>Updated</u> section I.C headers and table names to differentiate allocations for 2016-2017 disasters and 2018 disaster
N/A	17-18	I. Introduction and Background	Inserted subheading "2. 2018 CDBG-MIT Allocation and MID Areas under section I.C, "CDBG-MIT Allocations and MID Areas"
N/A	19	II. Risk Based Mitigation Needs Assessment	Inserted subheading " <u>a. 2016 and 2017 CDBG-MIT Allocation</u> " under Section II.B.1. "Considered Resources"
N/A	20	II. Risk Based Mitigation Needs Assessment	Inserted subheading "b. 2018 CDBG-MIT Allocation under Section II.B.1 "Considered Resources"
N/A	20-21	II. Risk Based Mitigation Needs Assessment	Inserted "2. Interagency Coordination" information for both 2016 and 2017 CDBG-MIT Allocation and 2018 CDBG-MIT Allocation under Section II.B "Data Sources"
N/A	22	II. Risk Based Mitigation Needs Assessment	Added information to Section II.B.5. "Adaptation Action Areas" regarding support from other Florida agencies

24	23	II. Risk Based Mitigation Needs Assessment	Added additional information to Section II.B.9. "Community Engagement" regarding efforts made to keep communities engaged.
N/A	24	II. Risk Based Mitigation Needs Assessment	Inserted subheading " <u>a. 2016 and 2017 CDBG-MIT Allocation</u> " under Section II.B.9. "Community Engagement"
24	24	II. Risk Based Mitigation Needs Assessment	<u>Updated</u> reference to Federal Register 84 FR 45838
N/A	24	II. Risk Based Mitigation Needs Assessment	Inserted "b. 2018 CDBG-MIT Allocation" under Section II.B. "9. "Community Engagement"
			<u>Updated</u> Section II.C.1. "Major Disaster Declarations with more current information
24-25	24-25	II. Risk Based Mitigation Needs Assessment	Inserted updated Figure 9: Major Disaster Declarations by Type 1953-2020 following this section
		Assessment	Updated range of years included regarding wildfire frequency
30	28	II. Risk Based Mitigation Needs Assessment	Moved paragraph in Section II.D "Greatest Risk Factors" regarding the high risk of floods, tropical cyclones, and severe storms above Table 10 and <i>Table 11</i> in
30	29	II. Risk-Based Mitigation Needs Assessment	Updated "Table 10: HUD MID Areas - Identified Frequent Hazards" and <i>Table 11: State MID Areas Identified Frequent Hazards</i> (Holmes County is the singular State Identified MID for 2018 disasters)" to include 2018 HUD and State MIDs with Hurricane Michael affected areas in Section II.D
33	32	II. Risk-Based Mitigation Needs Assessment	Inserted language in the text preceding " Figure 12: Total Population in 100-Year Floodplain" in Section II.D.1 "Flooding" to include Michael MID counties.
34	32-33	II. Risk-Based Mitigation Needs Assessment	Moved paragraph under Section II.D.1 "Flooding" on data analysis conducted using HAZUS software below Figure 12
35	34	II. Risk-Based Mitigation Needs Assessment	<u>Clarified</u> language explaining the specific vulnerability of Florida to tropical cyclones in Section II.D.2. "Tropical Cyclone Profile"
27	7 35-37 Mitigation N	II. Risk-Based	Added additional language preceding "Table 13: Economic Impact of Storm Surge on Counties" in Section II.D.2. "Tropical Cyclone Profile"
37		Assessment	Updated Table 13 to include Michael MIDs and adjusted subsequent "Non-MID" values. additional language preceding "

			Reorganized Section II.D. <u>4. Wildfire Hazard</u> to streamline information.
			Added additional language regarding expected annual cost of wildfires.
40	38-40	II. Risk-Based Mitigation Needs Assessment	Inserted "Figure 17: Expected Annual Loss in Building Value Due to Wildfire" and related text.
		7.030331110111	Inserted language regarding a wildfire that resulted from Hurricane Michael damage
			Inserted "Figure 18: Wildfire Hazard Potential for Florida" and supporting narrative
			Inserted additional text to Section II.D. <u>5. Coastal Erosion"</u>
			Inserted "Error! Reference source not found."
40	41-42	II. Risk-Based Mitigation Needs Assessment	Added language on the Department of Environmental Protection's Critically Eroded Beaches Report and Strategic Beach Management Plan, and related figures from the report.
			Inserted "Figure 20: Coastal Critical Erosion Areas of Florida" and relevant text regarding further resources made available by DEP
N/A	42-43	II. Risk-Based Mitigation Needs Assessment	Inserted Section II.D. <u>6. Climate Influences Storm Frequency</u> " which provides a brief explanation of the lateseason arrival of Hurricane Michael
41	43	II. Risk-Based Mitigation Needs Assessment	Added language to Section II.E. "Social Vulnerability" expanding on the effects of a community's social vulnerability and lack of preparedness.
42	44-46	II. Risk-Based Mitigation Needs Assessment	Updated "Table 14: Demographic Profile of MID Counties" to include Hurricane Michael Most Impacted and Distressed areas and included additional metrics for demographics related to protected classes
44	46	II. Risk-Based Mitigation Needs Assessment	<u>Updated</u> reference to Appendix C: List of SoVI® Variables
44		II. Risk-Based 47 Mitigation Needs Assessment	Inserted subheading ".2. "Demographic Profile of MID Areas" under Section II.E "Social Vulnerability"
	47		Inserted subheading "a. 2016-2017 Disaster affected areas" to precede "Table 15: Demographic Profile of MID Areas for 2016-2017 CDBG-MIT Allocation " in section II.E.2 "Demographic Profile of MID Areas
46	48	II. Risk-Based Mitigation Needs Assessment	Clarified that Table 15 is specific to areas impacted by 2016-2017 disasters in Section II.E.2 "Demographic Profile of MID Areas"

N/A	48-49	II. Risk-Based Mitigation Needs Assessment	Inserted subheading "b. 2018 Disaster affected Areas" under section II.E.2 "Demographic Profile of MID Areas", which provides Social Vulnerability information on Hurricane Michael affected areas  Added "Table 16: Demographic Profile of MID Areas for 2018 CDBG-MIT Allocation" under section II.E.2
46	49	II. Risk-Based Mitigation Needs Assessment	Clarified Low- and Moderate-Income household definition under section II.E.3
N/A	50-51	II. Risk-Based Mitigation Needs Assessment	Inserted language to precede and explain Table 17: LMI Population Summary of MID Counties in Section II.E.3 "Impact on Low-and-Moderate Income Populations"
			Updated Table 17 with 2018 information  Created subheading "4. Protected Classes" under Section
			II.E "Social Vulnerability"" in Section II.E.4
			Inserted the following figures and relevant information around them:
			- "Figure 22: Percentage of Population that Identifies as a Minority by County"
	51-56	II. Risk-Based Mitigation Needs Assessment	-"Figure 23:Percentage of Population that Identifies as a Minority by County for Area Impacted by Hurricane Michael"
			- "Figure 24: Percentage of Single Parent Households" - "
N/A			-Figure 25: Percentage of Single Parent Households with Children Under 18 by County for Area Impacted by Hurricane Michael"
			-"Figure 28: Percent of Population Foreign Born by County"
			- "Figure 27: Percent of Population with a Disability by County for Area Impacted by Hurricane Michael"
			-"Figure 28: Percent of Population Foreign Born by County"
			-"Figure 29: Percent of Population Foreign Born by County for Area Impacted by Hurricane Michael"
N/A	57	II. Risk-Based Mitigation Needs	Created subheading "5. 2018 CDBG-MIT Allocation: Fiscally-Constrained Counties" under section II.E "Social Vulnerability"
		Assessment	Inserted "Figure 30: Fiscally Constrained Counties"
48	58	II. Risk-Based Mitigation Needs Assessment	Edited language under Section II.E."6. Impact on Special Needs Populations" to include Hurricane Michael

49-50	60	II. Risk-Based Mitigation Needs Assessment	Inserted information in Section II.F on the effects of Hurricane Michael on community "Safety and Security"  Inserted "Figure 32: Levels of Evacuation Preparedness
50	61	II. Risk-Based Mitigation Needs Assessment	among 67 Florida Counties"  Added information on the impact of Hurricane Michael on Communications
51	62	II. Risk-Based Mitigation Needs Assessment	Inserted information on the effects of Hurricane Michael on Food, Water, and Sheltering in Section II.F.3.
51-52	63-64	II. Risk-Based Mitigation Needs Assessment	Inserted information on the effects of Hurricane Michael on Transportation, Section II.F.4.  Inserted "Figure 33: Impact of Hurricane Michael Storm Surge on US 98"  Inserted "Figure 34: Impact of Hurricane Michael in Bristol"
52	64-65	II. Risk-Based Mitigation Needs Assessment	Updated and added additional information on the effects of Hurricane Michael on Community access to Health and Medical facilities, (Section II.F.5 "Health and Medical")
N/A	68-69	II. Risk-Based Mitigation Needs Assessment	Inserted "Infrastructure Impacts" language in Section II.G.3.  "Mitigation Need: Resilient Infrastructure" on the Infrastructure Impacts resulting from Hurricane Michael Inserted "Table 18: Impact to infrastructure in Hurricane
N/A	70-72	III. Projects and Activities	Michael CDBG-MIT counties"  Inserted subheading "A. Program Overviews" under Section III. "Projects and Activities"  Inserted Table 19: CDBG-MIT HUD and State MIDs
56	72	III. Projects and Activities	<u>Updated</u> language under section III.B "Program Budgets"
N/A	73	III. Projects and Activities	Added "2016 and 2017" to Table 20 caption Inserted "Table 21: Allocation of 2018 CDBG-MIT Funds"
57	74	III. Projects and Activities	Edited title of Section III. "C" to read "2016 and 2017 CDBG-MIT Program"  Added subheader "1. 2016 and 2017 CDBG-MIT Program Overview" under section III.C "2016and 2017 CDBG-MIT Program_  Inserted "Vol. 84 No. 169" under section III.C.1. "2016 and 2017 CDBG-MIT Program Overview", to clarify FR
58	75	III. Projects and Activities	Inserted subheader "2. 2016 and 2017 CDBG-MIT Program Details in section III.C  Updated headers to differentiate 2016-2017 storm programs from 2018 programs:

			# 2016 L001716 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			-"a. 2016 and 2017 Infrastructure Programs"
			-"i. 2016 and 2017 General Infrastructure Program (GIP) Overview"
		III. Projects and	Edited Table 23 header to specify 2016-2017
59	76	Activities	Clarified that the 2016-2017 GIP will be implemented in three rounds.
60	77	III. Projects and Activities	Edited header to read "2016-2017 GIP Eligibility Criteria"
64	70	III. Projects and	Edited header to read "2016-2017 GIP Application Process"
61	78	Activities	Edited header to read "2016-2017 GIP Criteria & Scoring"
62	79	III. Projects and	Edited Table 24 header to read "2016-2017 General Infrastructure Program (GIP) Scoring Criteria"
		Activities	Edited header to read "2016 and 2017 Critical Facility Hardening Program (CFHP) Overview"
64	80	III. Projects and Activities	Edited Table 26 header to read "2016-2017 Critical Facility Hardening Program (CFHP)"
			Edited header to read "2016-2017 CFHP Eligibility Criteria"
65	81	III. Projects and Activities	Edited header to read "2016-2017 CFHP Application Process"
		82 III. Projects and Activities	Edited header to read "2016-2017 CFHP Criteria & Scoring"
66	82		Edited Table 27 header to read "2016-2017 Critical Facility Hardening Program (CFHP) Scoring Criteria"
		III. Projects and	Edited header to read "2016 and 2017 Planning and Administration Costs"
67	83	Activities	Edited header to read "2016 and 2017 General Planning Support (GPS) Program Overview"
68	84	III. Projects and Activities	Edited Table 28 header to read "2016-2017 General Planning Support (GPS) Program"
		Edited header to read "2016 and 2017 GPS Eligibility Criteria"	
69	85	Activities	Edited header to read "2016 and 2017 GPS Application Process"
70	85	III. Projects and Activities	Edited header to read "2016 and 2017 GPS Criteria & Scoring"
		III Projects and	Edited Table 29 header to read "2016-2017 General Planning Support (GPS) Program Scoring Criteria"
70	86 III. Projects and Activities	•	Edited header to read "2016 and 2017 DEO Administration and Planning"
N/A	86-91	III. Projects and Activities	Inserted "D. 2018 CDBG-MIT Program"

			Inserted Table 31: 2018 General Infrastructure Program (2018 GIP)
			Inserted Table 32: 2018 MIT General Infrastructure Program (GIP) Scoring Criteria
			Added language to specify that citizens will be notified "to participate in a general comment period"
			Removed language regarding equal access to information and added text stating that "Further details on Accessibility can be found below in Section F."
72	92	IV. Citizen Participation	Added "DEO encourages participation and will take public comments via USPS mail or email at"
			Inserted subheading "1.2016 and 2017 CDBG-MIT Allocation" under Section IV.A. "Publication"
			<u>Updated</u> reference to Appendix E: Summary of Public Comments for initial CDBG-MIT Action Plan under Section IV.A. "Publication"
N/A	92-93	IV. Citizen Participation	Added "2. 2018 CDBG-MIT Allocation" under Section IV.A. "Publication"
N/A	93	IV. Citizen Participation	Added language to Section IV.B. "Public Website" regarding the availability of information on public participation
73	93	IV. Citizen Participation	Inserted subheader "a.2016 and 2017 CDBG-MIT Allocation" under Section IV.C.1 "Webinars"
N/A	94	IV. Citizen Participation	Added section "b. 2018 CDBG-MIT Allocation" under Section IV.C.1 "Webinars"
			Added header "a. 2016 and 2017 CDBG-MIT Allocation" under Section IV.C.2 "Community Stakeholder Survey"
73	94	IV. Citizen Participation	Added language to section IV.C.2.a. "2016 and 2017 CDBG-MIT Allocation" stating that the Community Engagement Survey Questions and Answer Options are included in Appendix A
73	96-97	IV. Citizen Participation	Added section " <u>b. 2018 CDBG-MIT Allocation</u> " under Section IV.C.2 "Community Stakeholder Survey"
75	98	98 IV. Citizen Participation	Edited header under Section IV.C. to read "3. Public Hearings and Stakeholder Workshops"
			Replaced "Regional workshops" with "stakeholder workshops"
,,			Removed language specific to 2016-2017 storm workshops from introduction paragraph
			Rephrased language to read "CDBG-MIT information is presented to community members proceeded by a public

			hearing, question-and-answer session about the program
			and subrecipient application process."
			Inserted language regarding the March 2020 HUD clarification of public hearing requirements, and DEO's virtual hearing procedures
			Added header "a. 2016 and 2017 CDBG-MIT Allocation" under Section IV.C.3. "Public Hearings and Stakeholder Workshops"
			Added language specifying that these workshops were in response to 2016-2017 disasters
76	99	IV. Citizen Participation	Edited Table 33: Regional Public Hearings in 2016-2017 MID Areas header to read "Regional Public Hearings in 2016-2017 MID Areas"
76	99	IV. Citizen Participation	Edited Figure 35 header to read "2016 & 2017 CDBG-MIT Regional Public Hearing Locations"
			Replaced "Regional workshops" with "public hearings"
			Added section "b. 2018 CDBG-MIT Allocation" under Section IV.C.3. "Public Hearings and Stakeholder Workshops"
N/A	100-101	IV. Citizen Participation	Inserted "Table 34: 2018 CDBG-MIT Allocation Regional Public Hearing Dates"
			Inserted "Figure 36: 2018 Public Hearing Locations" and language following
N/A	101	IV. Citizen Participation	Added subheading " <u>4. Direct Communication</u> " under Section IV.C "Public Engagement" to describe an additional form of outreach
77	101	IV. Citizen Participation	<u>Updated</u> language under Section IV.D. "Citizen Advisory Committee" with additional information on the status of the committee as well as available information
			Added "across the life of CDBG-MIT programs:" to Section IV.F. Additional Outreach"
77	102	IV. Citizen Participation	Clarified language in Section IV.F by adding "participation at Governor's Hurricane Conference"
			Clarified that DEO will continue outreach "throughout the implementation of this Action Plan and its Amendments"
			Updated Section IV.G. "Accessibility"
77-78	102-103	IV. Citizen Participation	Added headings and information specific to each allocation: 1. 2016 and 2017 CDBG-MIT Allocation 2. 2018 CDBG-MIT Allocation
			Added header "1. 2016 and 2017 CDBG-MIT Allocation" under Section IV.H. "Receipt of Comments"
78	103	IV. Citizen Participation	Added subheading "2. 2018 CDBG-MIT Allocation" under Section IV.H. "Receipt of Comments"

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91	116	VIII. Appendices	Added header "1. 2016 and 2017 CDBG-MIT Allocation" to Appendix A: - Community Engagement Survey Questions"
N/A	121-125	VIII. Appendices	Updated Appendix A with "2. 2018 CDBG-MIT Allocation" survey questions
96	126	VIII. Appendices	Added header "1. 2016 and 2017 CDBG-MIT Allocation" to "Appendix B: - Survey Summary Report"
N/A	129-130	VIII. Appendices	<u>Updated</u> Appendix B with "2018 CDBG-MIT Allocation" Survey Summary
105	131	VIII. Appendices	<u>Updated</u> title of "Appendix C: List of SoVI" Variables" to accommodate reordering of appendices
106-113	132-136	VIII. Appendices	<u>Updated</u> title of "Appendix D: Program Expenditures Projections" to accommodate reordering of appendices
99	99 137-142 VIII. Appendi	137-142 VIII. Appendices	Moved and retitled "Appendix E: Summary of Public Comments for initial CDBG-MIT Action Plan" for clarity and ease of navigation
			Added "Approved by HUD: October 14, 2020" date in "Appendix E – Summary of Public Comments for initial CDBG-MIT Action Plan"
N/A	143	VIII. Appendices	Added "Appendix F: Summary of Public Comments for Substantial Amendment 2"
0-113	0-143	Entire Document	Corrected typographical, formatting, and page numbering issues as well as footnote and citation errors throughout the document
			Renumbered figures and tables to accommodate new figure and table additions

## Substantial Amendment 3

	Substantial Amendment 3, Approved by HUD 9/23/2021			
Previous Page #	New Page #	Section	Change/Addition/Deletion	
	77	III. PROJECTS AND ACTIVITIES	Reorganized this section to provide a general overview of the GIP followed by a more specific overview of each individual round.	
76			Added "General" to "Round I" paragraph and capitalized Units of General Local Government for clarity.	
			Shifted the following sentence, "The 2016-2017 GIP will be implemented in three rounds" and the "Round I" heading down two paragraphs.	

77	N/A	III. PROJECTS AND ACTIVITIES	Separated "Rounds II and III" into separate "Round II" and "Round III" paragraphs and clarified the differences between the two rounds of funding.  Added language to "Round III" regarding the funding of Hurricane Irma Infrastructure projects with Mitigation funds.
			Added "(Rounds I and II)" to header reading "2016-2017 GIP Application Process" for clarity.  Removed paragraph under "2016-2017 GIP Application
78	N/A	III. PROJECTS AND ACTIVITIES	Process (Rounds I and II)" stating that applicants may check their submission's status via email or online and replaced with "Additional information regarding applicant status is provided in the GIP Guidelines located <a href="here.">here."</a>
			Added subheading "Rounds I and II" under "2016-2017 GIP Criteria and Scoring."
79	78	III. PROJECTS AND ACTIVITIES	Added "(Rounds I and II)" to Table 2 header.
79	N/A	applicant submissions with language refe	Replaced language regarding checking the status of applicant submissions with language referencing the program guidelines, where more information can be found.
N/A	79-80	III. PROJECTS AND ACTIVITIES	Added "Round III" section and language regarding the implementation of the GIP Round III to fund projects selected through the Hurricane Irma Infrastructure Program.
			Added "Table 3: 2016-2017 General Infrastructure Program (GIP) Scoring Criteria (Round III)."
N/A	145	VIII. APPENDICES	Inserted "Appendix G - Summary of Public Comments for Substantial Amendment 3"

# Substantial Amendment 4

	Substantial Amendment 4, Effective as of 10/21/2022			
Previous Page #	New Page #	Section	Change/Addition/Deletion	
6	N/A	Executive Summary	Updated Table 1: 2016-2017 CDBG-MIT Program Allocation to reallocate \$41,993,205.84 from the GIP, CFHP, and Planning budgets to create a new Housing Oversubscription Program for Hurricane Irma (2017) damaged homes.	
73	N/A	III. Projects and Activities	Updated Table 20: Allocation of 2016 and 2017 CDBG-MIT Funds to reallocate \$41,993,205.84 from the GIP, CFHP, and	

			Planning budgets to create a new Housing Oversubscription Program for Hurricane Irma (2017) damaged homes.
			Updated Infrastructure, Housing, and Planning budget and percentage accordingly
N/A	74	III. Projects and	Added Table 22: Budget Adjustment of 2016-2017 CDBG-MIT Funds as well as a brief justification for the reallocation of funds
14/7	, .	Activities	Changed Planning budget from 5% to 2.5% to reflect new Planning Budget
		III. Projects and	Changed Planning budget from 5% to 2.5% to reflect new Planning Budget
N/A	75	Activities	Added brief description of the Housing Oversubscription Program.
		III. Projects and	Added "Housing" and the "Hurricane Irma Housing Oversubscription" Program to the existing list of categories and program areas in the CDBG-MIT grant.
N/A	76	Activities	Changed Infrastructure program percentage from 87% to 82.5%
			Changed GIP percentage from 75% to 71%
76	77	III. Projects and Activities	In Table 23: 2016-2017 General Infrastructure Program (GIP) Adjusted "Funding Dollars" to \$450,536,057.16 "Funding Percentage" to 71% "HUD-MID Area Allocation Minimum" to \$225,268,029 and "LMI Designation Allocation Minimum" to \$225,268,029 and Applicant Maximum to \$450,536,057.16
81	82	III. Projects and Activities	In Table 26: 2016-2017 Critical Facility Hardening Program (CFHP) Adjusted "Funding Dollars" to \$73,474,529, "Funding Percentage" to 11.5%, "HUD-MID Area Allocation Minimum" to \$36,737,265 and "LMI Designation Allocation Minimum" to \$36,737,265
	88	III. Projects and Activities	Changed Planning budget from 5% to 2.5% to reflect new Planning Budget
N/A	88-89	III. Projects and Activities	Added "c. 2016 and 2017 Housing Programs" which includes subsection "i. Housing Oversubscription Program" describing the new Housing Oversubscription Program that will serve Hurricane Irma Housing Repair and Replacement Program Applicants that were not able to be served with Hurricane Irma CDBG-DR funding.
N/A	148	Appendices	Added Appendix H - Summary of Public Comments for Substantial Amendment 4

N/A	N/A		Made minor typographical, grammatical, and formatting corrections throughout the document
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## Non-Substantial Amendment 5

	Non-Substantial Amendment 5, Effective as of 5/9/2023			
Previous Page #	New Page #	Section	Change/Addition/Deletion	
6	N/A	Executive Summary	Updated Table 1: 2016-2017 CDBG-MIT Program Allocation to reflect the reallocation of \$3,561,083.32 from the General Infrastructure Program to the Housing Oversubscription Program. Updated the percentages of funding and the MID areas and LMI allocation minimums accordingly.	
73	63	Projects & Activities	Updated Table 3: Allocation of 2016 and 2017 CDBG-MIT Funds to reflect the reallocation of \$3,561,083.32 from the General Infrastructure Program to the Housing Oversubscription Program. Updated the percentages of funding and the MID areas and LMI allocation minimums accordingly.	
74	64	Projects & Activities	Updated Table 5: Budget Adjustment of 2016-2017 CDBG-MIT Funds to reflect the reallocation of \$3,561,083.32 from the General Infrastructure Program to the Housing Oversubscription Program.	
77	67	Projects & Activities	Updated Table 6: 2016-2017 General Infrastructure Program (GIP) to reflect to removal of \$3,561,083.32 from the General Infrastructure Program to be reallocated to the Housing Oversubscription Program. Updated the HUD MID area allocation minimum, funding percentage, the LMI minimum, and Applicant maximum accordingly.	
88	75-76	Projects & Activities	<ul> <li>Updated 3.3.2.3 2016 and 2017 Housing Programs, Housing Oversubscription Program (HOP) with the following:         <ul> <li>Added paragraph on the benefit of mitigation activities in housing and examples of such activities.</li> <li>Updated language on Hurricane Irma impacts to include a statement regarding Hurricane Irma CDBG-DR assisted homes' ability to better withstand 2022 disasters Ian and Nicole.</li> <li>Moved sentence referring readers to the action plan for more information down to the final paragraph of the HOP and updated the link within.</li> <li>Added language on DEO's intent to utilize MIT funds to better repair homes, and provided examples of mitigation hardening of homes, including elevation.</li> </ul> </li> </ul>	

			<ul> <li>Removed language stating that HOP activities will follow the mission of the HRRP, and additional language made duplicative by the addition of the first paragraph.</li> <li>Updated final HOP paragraph:         <ul> <li>Specified the Hurricane Irma HRRP.</li> <li>Made minor updates to the tense of verbiage regarding the allocation of funds to the HOP.</li> <li>Added language stating the HOP will "fund the incorporation of mitigation measures"</li> <li>Added sentence referring readers to the Action Plan for more information, moved from a different HOP paragraph, as noted above.</li> </ul> </li> </ul>
N/A	76-77	Projects & Activities	Added language stating that "in order to qualify for assistance through the HOP, a project must meet one or more of the following criteria:" Resilient Home Construction Standards (RHCS); Green Building Standard for Replacement and New Construction of Residential Housing; Elevation Standards for New Construction, Repair of Substantial Damage, or Substantial Improvement.
88	77	Projects & Activities	Updated Table 8: 2016-2017 Housing Oversubscription Program (HOP) to reflect the addition of \$3,561,083.32 in funding to the Housing Oversubscription Program reallocated from the General Infrastructure Program. Updated the funding percentage, HUD MID area allocation minimum, and the LMI minimum accordingly.
N/A	N/A	Entire Document	Removed bullets from Definitions section  Added section number to 1.0 Executive Summary, shifting all section numbers up by one  Updated all Heading 3 to include section numbers  Added headers to pages  Updated font from Arial 12 to Calibri 11  Updated Header fonts, colors, and text size  Updated table numbers  Resized images throughout document for consistency  Changes resulted in a change in overall document length from 149 pages to 128 pages.

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## **DEFINITIONS, ACRONYMS & ABBREVIATIONS**

**100-year flood plain**—The geographical area defined by FEMA as having a 1% chance of being inundated by a flooding event in any given year.

**500-year flood plain**—The geographical area defined by FEMA as having a .2% chance of being inundated by a flooding event in any given year.

**Accessibility**—means that the public or common use areas of the building can be approached, entered, and used by individuals with physical disabilities.

**Accessibility Standards**—regulations that require housing to be accessible to individuals with physical disabilities, such as the 1968 Fair Housing Act, Section 504 of the 1973 Rehabilitation Act, the Americans with Disabilities Act, and the Architectural Barriers Act.

Affirmatively Furthering Fair Housing—refers to the 1968 Fair Housing Act's obligation for state and local governments to improve and achieve more meaningful outcomes from fair housing policies, so that every American has the right to fair housing, regardless of their race, color, national origin, religion, sex, disability, or familial status.

**BRACE**—Building Resilience Against Climate Effects

**CDBG**—Community Development Block Grant

CDBG-DR—Community Development Block Grant - Disaster Recovery

**CDBG-MIT**—Community Development Block Grant - Mitigation

CFHP—Critical Facility Hardening Program (one of three CDBG-MIT subrecipient funding application options)

**Community participation engagement**—The process of soliciting feedback from and implementing suggestions by the residents who will be affected by a proposed project.

**DEO**—Department of Economic Opportunity

**DEP**—Department of Environmental Protection

**Designated area**—The land determined by the subrecipient that is eligible for mitigation assistance.

**DOB**—Duplication of Benefits. Any assistance provided to subrecipients for the same purpose (i.e., for repair, replacement or reconstruction) as any previous financial or in-kind assistance already provided for the same. Rebuild Florida is prohibited from creating a DOB. This prohibition comes from the Robert T. Stafford Disaster Assistance and Emergency Relief Act (Stafford Act) and therefore, these other sources of funds must be deducted from any potential award.

**DOH**—Department of Health

**DEM**—Florida Division of Emergency Management

**Effective communications**—Provision of auxiliary aids and services necessary to communicate with persons with disabilities.

**Environmental justice**—the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

**ESHMP**—Enhanced State Hazard Mitigation Plan

Fair housing and equal opportunity—refers to the 1968 Fair Housing Act (amended in 1974 and 1988) providing the HUD Secretary with fair housing enforcement and investigation responsibilities. A law that prohibits

discrimination in all facets of the homebuying process on the basis of race, color, national origin, religion, sex, familial status or disability.

**FEMA**—Federal Emergency Management Agency

GIP—General Infrastructure Program (one of three CDBG-MIT subrecipient funding application options)

GPS—General Planning Support (one of three CDBG-MIT subrecipient funding application options)

HAZUS-MH—Hazards U.S. Multi-Hazard

**HCDA** - Housing and Community Development Act of 1974

**HelpFL**—Hazard Events and Location Prognosticator – Florida. A tool developed by the University of South Carolina used to update and advance the science of spatially enabled hazard models and to develop and deploy a hazards analysis web mapping application. Project was funded by an HMGP planning grant.

**HMGP**—Hazard Mitigation Grant Program

**HUD**—U.S. Department of Housing & Urban Development

**IBC**—International Business Code

ICE—Independent Cost Estimates

**Limited English proficiency**—Individuals who do not speak English as their primary language and who have a limited ability to read, speak, write, or understand English.

LMA—Land Management Agencies

LMI—Low to Moderate Income. An income of less than 50% to 80% of the local area median income.

**LMH**—Low to Moderate Income Household. A household with an income of less than 50% to 80% of the local area median income (AMI).

LMS—Local Mitigation Strategy

**Low-income Population** - a group of individuals living in geographic proximity to one another, or a geographically dispersed or transient (migrant) group of individuals that have household incomes at or below poverty level.

MIDs—Most Impacted and Distressed areas

**Minority**—a racial, ethnic, religious, or social subdivision of a society that is subordinate to the dominant group in political, financial, or social power without regard to the size of these groups.

**Low income areas and populations**—populations protected by Executive Order 12898. Federal agencies are required to consider how federally assisted projects may have disproportionately high and adverse human health or environmental effects on minority and low-income populations.

Minority concentration—a location is considered to be in an area of minority concentration when either: A) the percentage of persons of a particular racial or ethnic minority within the area of the site is at least 20 percentage points higher than the percentage of that minority group in the housing market area as a whole or B) the total percentage of minority persons within the area of the site is at least 20 points higher than the total percentage of minorities in the housing market area as a whole.

NCEI—National Centers of Environmental Information

NFIP—National Flood Insurance Program.

**Prohibited bases**—Civil rights statutes establish the demographic categories by which discrimination is prohibited. Under the Fair Housing Act, the prohibited bases are race, color, religion, sex, national origin, familial status, and disability.

**Reasonable accommodations**—under the Fair Housing Act, a reasonable accommodation is a change, exception, or adjustment to a rule, policy, practice, or service.

**Subrecipient**— A city or a county that has applied for and been awarded a grant by the Florida Department of Economic Opportunity (DEO).

**TBD**—To Be Determined

**UGLG**—Units of General Local Government. Cities, counties, towns, and villages.

**UNM** – Unmet Need Mitigation. To meet the alternative criteria for the unmet need mitigation (UNM) national objective, each grantee must document that the activity: (i) Addresses the current and future risks as identified in the grantee's Mitigation Needs Assessment of most impacted and distressed areas; and (ii) will result in a measurable and verifiable reduction in the risk of loss of life and property.

**WMD**—Water Management District

### **EXECUTIVE SUMMARY**

Community Development Block Grant Mitigation (CDBG-MIT) funds represent a unique and significant opportunity for the state of Florida, in the areas most impacted by recent disasters, to carry out strategic and high-impact activities to minimize or eliminate risks and reduce losses from future disasters. In addition to mitigating disaster risks, the funds provide an opportunity to improve state and local planning protocols and procedures.

The Florida Department of Economic Opportunity (DEO) has led the state's efforts in creating this State Action Plan that provides a high-level strategy for how the funding will be used to address eligible communities' disaster mitigation needs. The State Action Plan has been developed in partnership with state agencies working on resiliency efforts, as well as with input from local communities and stakeholders to determine Florida's most critical disaster mitigation needs.

Florida's focus is to support data-informed investments through high-impact projects that will reduce risks attributable to natural disasters, with particular attention to repetitive losses of property and critical infrastructure. The state also supports the adoption of policies that reflect local and regional priorities that will have long-lasting effects on community risk reduction, to include the reduction of risk to community lifelines such as Safety and Security and Communications.

Due to its unique geography, the state of Florida is at risk of experiencing a variety of hazards including tropical winds, storm surge, flash flooding, sea level rise, coastal erosion, extreme heat, drought and wildfires. Florida has experienced more landfalling hurricanes than any other state in the nation. Winds can potentially affect any county in Florida and storm surge can impact all of Florida's coastal counties. In addition, according to the 2018 Florida Division of Emergency Management's Enhanced State Hazard Mitigation Plan (ESHMP), sea levels have been rising at a rate of about one foot per century in much of the United States. In combination with land subsidence, rising sea levels can affect drinking water supplies and infrastructure and can also amplify storm surge risk and coastal erosion.

Florida has more than 11,000 miles of rivers, streams and waterways with 1,197 miles of coastline and 663 miles of beaches. Florida is also home to the 700-square mile Lake Okeechobee, the second largest freshwater lake in the United States. Of the state's 67 counties, 35 have coastlines bordering either the Atlantic Ocean or the Gulf of Mexico. These counties comprise approximately 1,350 miles of general coastline. When considering the intricacies of the Florida coastline, with its bays, inlets and waterways, there are more than 8,000 miles of coastline. All of these factors combined create complex and interconnected disaster risks that require innovative approaches to mitigate.

This State Action Plan reflects local and regional priorities that will have long-lasting effects on community risk reduction, including risk reduction to Safety and Security and Communications lifelines. The goal is to maximize the impact of available funds by encouraging and leveraging public-private partnerships and coordinating with other Federal and state programs. States are expected to take steps to set in place policies that will enhance the impact of the U.S. Department of Housing and Urban Development's (HUD's) investments.

HUD provided the state of Florida with \$633,485,000 for mitigation activities in communities that experienced major declared disaster events during 2016 and 2017. In January 2021 an additional \$46,926,000 was allocated for mitigation activities (86 FR 561) in communities that experienced a major declared disaster event in 2018, for a total CDBG-MIT allocation of \$680,411,000. The currently approved Action Plan is being amended to reflect this additional allocation through Substantial Amendment 2. DEO is the governor-designated state authority responsible for administering all long-term hazard mitigation and disaster recovery funds awarded to the state from HUD. This amended action plan details how this funding will be allocated to reduce the effects of natural disasters and eliminate long-term risks to Floridians.

The purpose of this amended mitigation action plan is to detail a strategy that:

- Reduces risks and vulnerabilities of people in hazard-prone areas through current technology, better planning and mitigation activities;
- Reduces the potential impact of natural disasters on new and existing properties, infrastructures and local economies;
- Promotes education, outreach and research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face and mitigation alternatives that can reduce vulnerabilities;
- Strengthens communication and coordination between public agencies, citizens, non-profit organizations and businesses; and
- Emphasizes long-term, maximum benefits to the public.

Florida's Mitigation Program planning goal is to work with federal, regional and local partners to safeguard against loss of life and injury, disruptions to essential public services and infrastructure, economic impacts to residents and businesses, and losses to civic, cultural, and environmental resources. Florida's Mitigation Strategy is built on a comprehensive Risk Based Mitigation Needs Assessment, presented in this Action Plan, that has identified flooding, severe storms, tropical cyclones, coastal erosion and wildfires as the most significant risks to Floridians. Further, Florida's mitigation planning strategy seeks to protect seven critical community lifelines:

- 1. Safety and Security
- 2. Food, Water and Shelter
- 3. Health and Medical
- 4. Energy
- 5. Communications
- 6. Transportation
- 7. Hazardous Material

DEO, alongside other state agencies and local communities, has sought to engage with and seek input from local, state and federal partners on their disaster mitigation needs and priorities. DEO held statewide webinars, multiple regional workshops and sought input from community partners statewide through a survey to gather feedback from Florida communities on their mitigation priorities. The State Action Plan used this input in determining how to distribute the federal funds to help better protect Florida's communities from future disasters.

In response to the goals of risk mitigation and increased resilience and in consideration of stakeholder and community input, the state of Florida has proposed CDBG-MIT programs that will focus on both infrastructure and planning. as follows:

- 1. Infrastructure
  - A. General Infrastructure
  - B. Critical Facility Hardening
- 2. Planning and Administrative Costs
  - A. General Planning Support
  - B. DEO Administration
  - C. DEO Planning
- 3. Housing
  - A. Hurricane Irma Housing Oversubscription

The new CDBG-MIT funds will be added to the General Infrastructure activities proposed in the initial Action Plan.

The proposed allocations for both CDBG-MIT programs and their share of the total funding are presented below.

Table 1: 2016-2017 CDBG-MIT Program Allocation

Allocation of 2016-2017 CDBG-MIT Funds				
Program	Allocation	Percent of Overall Funding	HUD-MID Area Allocation Minimum	LMI Designation Allocation Minimum
Infrastructure	\$520,449,502.84	82.16%	\$260,224,751.42	\$260,224,751.42
General Infrastructure	\$446,974,973.84	70.6%	\$ 223,487,486.92	\$223,487,486.92
Critical Facility Hardening Program	\$73,474,529	11.5%	\$36,737,265	\$36,737,265
Housing	\$45,554,289.16	7.2%	\$22,777,144.58	\$22,777,144.58
Housing Oversubscription	\$45,554,289.16	7.2%	\$22,777,144.58	\$22,777,144.58
Planning and Administrative Costs	\$67,481,208	10.5%		
General Planning Support	\$20,000,000	3%	\$10,000,000	\$10,000,000
DEO Administration	\$31,674,250	5%		
DEO Planning	\$15,806,958	2.5%		
Total Allocation	\$633,485,000	100%	\$293,001,896	\$293,001,896

**Table 2: 2018 CDBG-MIT Program Allocation** 

Allocation of 2018 CDBG-MIT Funds				
Program	Allocation	Percent of Overall Funding	HUD-MID Area Allocation Minimum	LMI Designation Allocation Minimum
General Infrastructure Program	\$42,233,400	90%	\$21,116,700	\$21,116,700
Planning and Administrative Costs	\$4,692,600	10%		
DEO Administration	\$2,346,300	5%		
DEO Planning	\$2,346,300	5%		
<b>Total Allocation</b>	\$46,926,000	100%	\$21,116,700	\$21,116,700

Each program is further described in Section III. of this Action Plan. These proposed programs will aid the state of Florida in protecting all of its citizens, including those most vulnerable to hazards.

### 1.0 INTRODUCTION & BACKGROUND

### 1.1 What is Hazard Mitigation?

Hazard mitigation is defined as any action taken to reduce or eliminate the long-term risk to human life and property from man-made or natural hazards. A hazard is any event or condition with the potential to cause fatalities, injuries, property damage, infrastructure damage, agricultural loss, environmental damage, business interruption or other structural or financial losses.

Hazard mitigation seeks to make human development and the natural environment safer and more resilient. The mitigation process generally involves enhancing the built environment to significantly reduce risks and vulnerability to hazards. Mitigation can also include removing the built environment from disaster prone areas and maintaining natural mitigating features, such as wetlands or floodplains. Hazard mitigation makes it easier and less expensive to respond to, and recover from, disasters by breaking the damage and repair cycle.

Examples of hazard mitigation measures include, but are not limited to, the following:

- Development of mitigation standards, regulations, policies and programs;
- Land use/zoning policies;
- Strong statewide building code and floodplain management regulations;
- Dam safety programs, seawalls and levee systems;
- Acquisition of flood prone and environmentally-sensitive lands;
- Retrofitting/hardening/elevating structures and critical facilities;
- Relocation of structures, infrastructure and facilities out of vulnerable areas;
- Permanent relocation of residential housing and businesses located in in high-risk areas through voluntary buyback programs, appropriate relocation assistance and rebuilding in low-risk areas within the neighborhood or areas of opportunity;
- Public awareness/education campaigns; and
- Improvement of warning and evacuation systems.

Benefits of hazard mitigation include, but are not limited to, the following:

- Saving lives and protecting public health;
- Preventing or minimizing property damage;
- Minimizing social dislocation and stress;
- Reducing economic losses;
- Protecting and preserving infrastructure;
- Reducing legal liability of government and public officials; and
- Spending less on response and recovery efforts.

According to a 2017 FEMA study<sup>1</sup> that reviewed the impacts of 23 years of federal mitigation grants provided by FEMA, the Economic Development Administration (EDA) and HUD, there is a national benefit of \$6 for every \$1 invested.

<sup>&</sup>lt;sup>1</sup> FEMA, "Natural Mitigation Saves Lives", Retrieved from <a href="https://www.fema.gov/sites/default/files/2020-07/fema\_mitsaves-factsheet 2018.pdf">https://www.fema.gov/sites/default/files/2020-07/fema\_mitsaves-factsheet 2018.pdf</a>

The study also found that the costs and benefits of designing all new construction that exceeded select International Building Code, International Residential Code and International Wildland Urban Interface provisions resulted in a national benefit of \$4 for every \$1 invested.

Figure 1: Benefit Cost Ratio by Hazard and Mitigation Measure

National Benefit-Cost Ratio (BCR) Per Peril *BCR numbers in this study have been rounded Overall Hazard Benefit-Cost Ratio	Beyond Code Requirements \$4:1	Federally Funded \$6:1
Riverine Flood	\$5:1	\$7:1
Hurricane Surge	\$7:1	Too few grants
Wind Wind	\$5:1	\$5:1
<b>Earthquake</b>	\$4:1	\$3:1
Wildland-Urban Interface Fire	\$4:1	\$3:1

Source: FEMA, "Natural Mitigation Saves Lives: Factsheet"

### 1.2 Recent Disasters

#### 1.2.1 Hurricane Hermine

In late August 2016, Hurricane Hermine made landfall at its peak intensity, just east of St. Marks, Florida. Hermine brought moderate storm surge to coastal areas with the highest measured storm surge of 7.5 feet above normal tide levels, which occurred at a National Ocean Service gauge on Cedar Key. The combined effect of surge and tide produced maximum inundation levels of four to seven feet above ground level to the east of Hermine's landfall location along the coastlines in Dixie, Jefferson, Levy and Taylor Counties.

Hermine produced heavy rainfall across much of western and northern Florida. The maximum reported storm-total rainfall was near Tarpon Springs, in Pinellas County, where 22.36 inches was measured between August 30 and September 2, 2016. More than 10 inches of rain were reported at other sites along the west coast of Florida, including Charlotte, Manatee and Pasco counties. The heavy rainfall caused flooding of streets and low-lying areas near the west coast of Florida and on several rivers in northern Florida.

Within four hours of landfall, Hermine's winds dropped below hurricane force as the storm crossed into Georgia. Then Florida Governor, Rick Scott, declared a state of emergency for 51 counties. A major disaster was declared on September 28, 2016. According to a 2017 report from the Florida Office of Insurance Regulation, insured losses to property in Florida reached \$139 million with 19,699 claims.

#### 1.2.2 Hurricane Matthew

In October 2016, after causing catastrophic category five-level damage in Haiti and severe damage in the Bahamas, Hurricane Matthew tracked northwest and paralleled the coast of the southeastern United States for 36 hours. It

gradually weakened and remained just offshore before making its final landfall over near McClellanville, South Carolina as a Category 1 hurricane on the morning of October 8. Although many lives were spared because of proper planning and execution of hurricane plans, Florida nevertheless saw significant storm surge and high winds, which caused damage to infrastructure, homes and businesses.

As Matthew approached, states of emergencies were declared along Florida's eastern coast and widespread evacuations were ordered for extensive areas. High wind speeds and flooding, especially in the Jacksonville metropolitan area were anticipated. In Florida, over one million people lost power as the storm passed to the east.

In total, Matthew killed 47 people in the US, including 12 in Florida. As the storm traveled northeast, it hit close to the eastern coasts of Florida, Georgia, North Carolina and South Carolina. On October 7 in Fernandina Beach, Florida, there was a peak surge of 9.88 feet above normal. Additionally, in the St. Augustine area, water was reported to be 2.5 feet above ground.

In Jacksonville there was major sand dune damage on the coast and flooding of the St. Johns River. In the Flagler Beach area, a portion of Florida State Road A1A was washed away. At the Kennedy Space Center, winds reached 80 mph at ground level while a gust of 136 mph was observed atop a 500-foot tower. The facility sustained millions of dollars' worth of damage.

In addition to flooding, many homes were damaged by the combination of wind and rainfall. This complicated the recovery process because wind and rain damages can only be assessed on a case-by-case basis with areal flooding impacts more easily ascertained for larger areas at once. Portions of the state saw high amounts of rainfall with several regions receiving more than 10 inches of rain in a 24-hour period. Orlando received nearly nine inches of rain, Jacksonville nearly seven inches and Daytona Beach almost six inches.

Storm surge flooding affected the St. Augustine area, including major flooding on Anastasia Island where water was reported to be 2.5 feet above ground level. To the south, in nearby Flagler Beach, parts of Highway A1A were washed out by the storm surge. Some of the highest inundation occurred farther inland, away from the immediate coast, on smaller back bays and inland waterways. The St. John's River in northeast Florida was flooded by storm surge of up to 4.3 feet. A major disaster was declared on October 11, 2016.

#### 1.2.3 Hurricane Irma

Approximately one year after Hurricanes Hermine and Matthew left their trails of destruction, Hurricane Irma, a Category 4 storm, made landfall on September 10, 2017 in the midst of the Florida Keys. Irma devastated coast lines, infrastructure and homes. Irma then turned northward, making a second landfall near Marco Island in southwest Florida and then progressed in a northeasterly direction through the center of the state. Hurricane force winds pummeled southeast Florida and portions of the center of the state. The northern portions of Florida were affected by tropical storm force winds.

Storm surges impacted the state's coastal areas from the Florida Keys all the way to the northern border of Florida. South Florida counties saw surges of more than eight feet, with Monroe and Miami-Dade recording observed surges of more than 15 feet. Surges along the St. Johns River and its tributaries were also extreme. Fresh water outflows from rivers slowed retreat of the storm surges in Jacksonville, lengthening the flooding period over the days following Irma's passage.

Irma produced moderate rainfall across much of western and central portions of Florida. The maximum reported storm-total rainfall was nearly 16 inches in Fort Pierce. In Oviedo (north of Orlando), a measurement of 14.6 inches was recorded. The entire southwestern seaboard of Florida received between six and 14 inches of rain and there was localized heavy rainfall in Pasco and Polk counties as Irma moved northward.

The most significant concentration of Irma-related damage however, occurred in the Florida Keys, where Irma made landfall. The storm left this chain of islands, which was connected by a span of 40 bridges, with roughly

1,200 destroyed homes and an additional 3,000 significantly-damaged homes. Many bridges, roadways and state beaches were severely damaged.

A major disaster declaration was issued by the President for Hurricane Irma on September 10, 2017. The declaration encompassed all 67 of Florida's counties; 51 with Individual and Public Assistance designations and 18 with Public Assistance only designations. (Individual designations allow assistance to individuals and families that have sustained disaster-related losses. Public assistance can fund the repair, restoration, reconstruction or replacement of a public facility or infrastructure that was damaged or destroyed by a disaster.) The Florida designation breakdown is outlined in Table 3 and Figure 2.

**Table 3: List of Presidential Disaster Declarations** 

FEMA Declaration Type	Counties
Individual Assistance (IA) and Public Assistance (PA)	Alachua, Baker, Bradford, Brevard, Broward, Charlotte, Citrus, Clay, Collier, Columbia, DeSoto, Dixie, Duval, Flagler, Gilchrist, Glades, Hardee, Hamilton, Hendry, Hernando, Highlands, Hillsborough, Indian River, Lafayette, Lake, Lee, Levy, Manatee, Marion, Martin, Miami-Dade, Monroe, Nassau, Okeechobee, Orange, Osceola, Palm Beach, Pasco, Pinellas, Polk, Putnam, Sarasota, Seminole, St. Johns, St. Lucie, Sumter, Suwannee, Taylor, Union, Volusia, Wakulla
Public Assistance Only (PA)	Bay, Calhoun, Escambia, Franklin, Gadsden, Gulf, Holmes, Jackson, Jefferson, Leon, Liberty, Madison, Okaloosa, Santa Rosa, Walton, Washington

FEMA-4337-DR, Florida Disaster Declaration as of 01/10/2018

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Figure 2: Presidential Disaster Declarations by County for Hurricane Irma

Source: FEMA, retrieved from <a href="https://www.fema.gov/disaster/4337">https://www.fema.gov/disaster/4337</a>

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<sup>&</sup>lt;sup>2</sup> Monroe County, "Approximate Damage Assessment results", Retrieved from <a href="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/DocumentCenter/View/12459/Approximate-Damage-Assessment-Results?bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https://www.monroecounty-fl.gov/Document-Results.bidld="https:/

#### 1.2.4 Hurricane Michael

On October 10, 2018, Hurricane Michael became the strongest hurricane on record to make landfall in the Florida Panhandle and the fourth most-powerful hurricane to ever hit the United States<sup>3</sup>. Maximum sustained winds of 140 KTS (161 MPH) were recorded<sup>3</sup>. Michael inflicted unprecedented damage to the Panhandle area, stressing the need for mitigation efforts which protect the lives and property of those who live in this area.

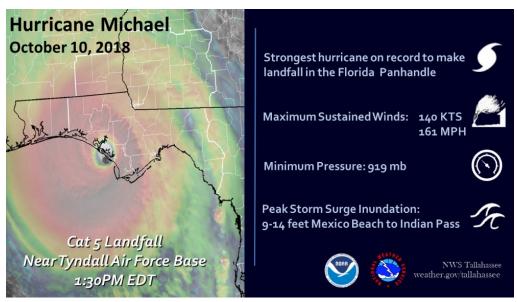


Figure 3: Hurricane Michael Statistics

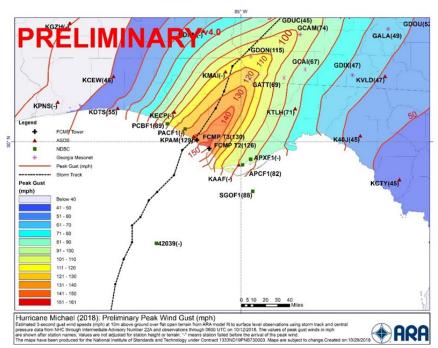
Source: https://www.weather.gov/tae/HurricaneMichael2018

Hurricane Michael made landfall as an unprecedented Category 5 storm with top sustained winds of 161 mph<sup>4</sup> and a central pressure of 919 millibars. This made Michael the strongest land-falling mainland U.S. hurricane (by pressure) since Hurricane Camille in 1969, and the strongest by wind speed since Hurricane Andrew in 1992, which had 165 mph winds. Hurricane-force wind gusts (Figure 4) and torrential rains caused flooding in many low-lying areas (Figure 5), and a massive storm surge (Figure 6) affected Florida's Panhandle dramatically as Michael moved inland after landfall. While moving inland Hurricane Michael continued intensifying, with sustained winds of 150 mph and a central pressure of 919 millibars after landfall, which rendered many escape routes inaccessible or unsafe.

³https://www.cbsnews.com/news/hurricane-michael-is-the-most-powerful-storm-to-hit-florida-panhandle-on-record/

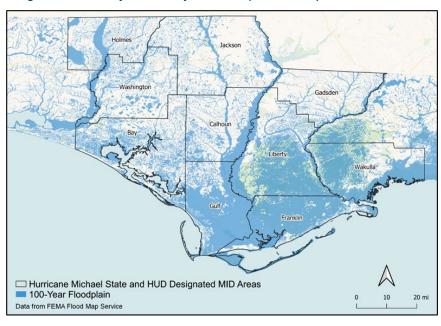
<sup>4</sup>https://www.weather.gov/tae/HurricaneMichael2018#:~:text=Hurricane%20Michael%20made%20landfall%20as,a%20minimum%20pressure%20919%20mb.

Figure 4: Hurricane Michael wind field



Source: Applied Research Associates: <a href="http://seblog.strongtie.com/wp-content/uploads/2019/02/ARA">http://seblog.strongtie.com/wp-content/uploads/2019/02/ARA</a> Hurricane Michael WindField v36.pdf

Figure 5: 100-Year flood zones for Michael presidentially declared counties<sup>5</sup>



Source: FEMA Flood Hazard Layer

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<sup>&</sup>lt;sup>5</sup> https://msc.fema.gov/portal/advanceSearch



Figure 6: Hurricane Michael storm surge inundation

Source: Hurricane Michael (noaa.gov)

Hurricane Michael demonstrated the extent of the vulnerability in the region. Seven direct deaths and 43 indirect deaths occurred as a result of Michael as it moved through Florida's Panhandle at Category 5 intensity<sup>6</sup>. Peak storm surge inundation was as high as 14 feet from Mexico Beach to Indian Pass<sup>6</sup>. Numerous buildings and homes along the coast were destroyed or damaged as water slammed against the structures. Nearly 100% of customers across a large portion of the Florida Panhandle lost power, with some outages lasting for weeks<sup>7</sup>.

From August 2016 to October 2018, Irma and Hermine made landfall in Florida, Matthew skirted the state's eastern coast, and Michael made landfall in the Florida panhandle. These four storms caused massive infrastructure damage, demolished homes and personal property and resulted in widespread prolonged power outages. The flooding and high winds left more than \$85 billion in damages in their wake.<sup>891011</sup>

### 1.3 CDBG-MIT Allocations and MID Areas

#### 1.3.1 2016-2017 CDBG-MIT Allocation and MID Areas

In April 2018, the U.S. Department of Housing and Urban Development (HUD) announced that the state of Florida's Department of Economic Opportunity (DEO) would receive \$633,485,000 in funding to support long-term mitigation efforts following Hurricanes Hermine, Matthew, and Irma through HUD's Community Development Block Grant Mitigation (CDBG-MIT) Program.

<sup>&</sup>lt;sup>6</sup> https://www.nhc.noaa.gov/data/tcr/AL142018 Michael.pdf

<sup>&</sup>lt;sup>7</sup> https://www.weather.gov/media/bmx/stormdat/2018/bmxoct2018.pdf

<sup>8</sup>https://www.nhc.noaa.gov/data/tcr/AL092016 Hermine.pdf

<sup>9</sup> https://www.nhc.noaa.gov/data/tcr/AL142016 Matthew.pdf

<sup>10</sup> https://www.nhc.noaa.gov/data/tcr/AL112017 Irma.pdf

<sup>11</sup> https://www.nhc.noaa.gov/data/tcr/AL142018 Michael.pdf

The national objectives of this HUD program include providing benefits to low-to-moderate (LMI) persons by addressing severe and recently-arising urgent community welfare or health needs. CDBG-DR and CDBG-MIT grants have a statutory focus on targeting the most impacted and distressed (MID) areas. *A minimum\** of 50% (\$316,742,500) is to be spent to benefit LMI persons in the MID areas. (\*Florida's CDGB-MIT program is likely to exceed this minimum requirement.)

This funding is designed to address needs that remain after other assistance has been exhausted, including federal assistance and private insurance. DEO is the lead agency and responsible entity for administering the CDBG-MIT funds allocated to the state. The state of Florida's Action Plan details how this funding, along with subsequent allocations, will be apportioned to address remaining unmet needs in Florida that represent targeted strategic investments for grantees based on current or foreseeable risks.

As required by the Federal Register, Vol. 84, No. 169, the state will designate at least 50% of the CDBG-MIT allocation to mitigation activities that address identified risks within the HUD-identified Most Impacted and Distressed (MID) areas.

Table 4: 2016-2017 CDBG-MIT Allocation: HUD MID Counties and Zip Codes

HUD MID Counties	Brevard, Broward, Clay, Collier, Duval, Hillsborough, Lee, Miami Dade, Monroe, Orange, Osceola, Palm Beach, Polk, St. Johns, St. Lucie, and Volusia
HUD MID Zip Codes*	32084, 32091, 32136, 32145, 32771, 33440, 33523, 33825, 33870, 32068, 33935, 34266-

The remaining 50% can be spent on state-identified MIDs that were declared disaster areas eligible for both individual and public assistance.

Table 5: 2016-2017 CDBG-MIT Allocation: State MID Counties



Figure 7 shows HUD-designated MIDs in green, Florida-designated MIDs in gold and Non-MID Counties in gray. The counties illustrated in gray were not originally designated as HUD or state MID counties. However, given the nature of the CDBG-MIT funding, the state of Florida is requesting a HUD waiver to include every Florida county. The state will ensure that at least 50% of the CDBG-MIT allocation will address only HUD MIDs. Including all Florida counties will allow the state to employ a truly statewide approach to hazard mitigation.



Figure 7: 2016 CDBG-MIT Allocation 2016-2017: HUD and State MID Areas

Source: Department of Economic Opportunity, Retrieved from RebuildFlorida.com

#### 1.3.2 2018 CDBG-MIT Allocation and MID Areas

In January 2021, the U.S. Department of Housing and Urban Development (HUD) announced that the state of Florida's Department of Economic Opportunity (DEO) would receive \$46,926,000 in funding to support long-term mitigation efforts following Hurricane Michael through HUD's Community Development Block Grant-Mitigation (CDBG-MIT) Program.

The national objectives of this HUD program include providing benefits to low-to-moderate (LMI) persons by addressing severe and recently-arising urgent community welfare or health needs. CDBG-DR and CDBG-MIT grants have a statutory focus on targeting the most impacted and distressed (MID) areas. *A minimum\** of 50% (\$23,463,000) is to be spent to benefit LMI persons in the MID areas. (\*Florida's CDGB-MIT program is likely to exceed this minimum requirement.)

This funding is designed to address needs that remain after other assistance has been exhausted, including federal assistance and private insurance. DEO is the lead agency and responsible entity for administering the CDBG-MIT funds allocated to the state. The state of Florida's Action Plan details how this funding, along with subsequent allocations, will be apportioned to address remaining unmet needs in Florida that represent targeted strategic investments for grantees based on current or foreseeable risks.

As required by the Federal Register, Vol. 86, No. 3, the state will designate at least 50% of the CDBG-MIT allocation to mitigation activities that address identified risks within the HUD-identified Most Impacted and Distressed (MID) areas.

Table 6: 2018 CDBG-MIT Allocation: HUD MID Counties and Zip Codes

HUD MID Counties	Bay, Calhoun, Gulf, Jackson
HUD MID Zip Codes*	32321 (Liberty), 32327 (Wakulla), 32328 (Franklin), 32346 (Wakulla and Franklin), 32351 (Gadsden), 32428 (Washington)

<sup>\*</sup>zip codes within these counties were included as HUD designated MIDs. The state has included the entire counties as a MID area, as permitted by HUD in the Federal Register

The remaining 50% can be spent on state-identified MIDs that were declared disaster areas eligible for both individual and public assistance.

Table 7: 2018 CDBG-MIT Allocation: State MID Counties

State MID Counties Holmes

Figure 8: 2018 CDBG-MIT Allocation: HUD and State Designated MID Areas

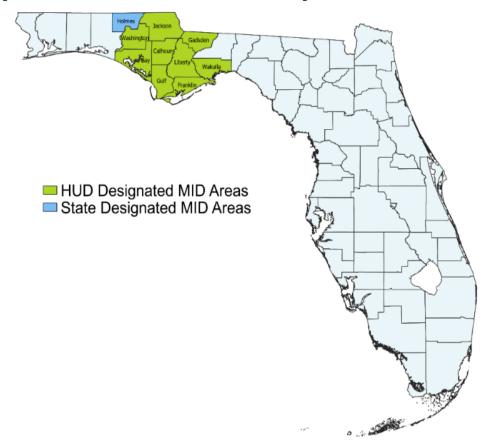


Figure 8 shows HUD-designated MIDs in green, Florida-designated MIDs in blue and Non-MID Counties in gray.

# 2.0 RISK-BASED MITIGATION NEEDS ASSESSMENT

## 2.1 Introduction

The state of Florida's Department of Economic Opportunity (DEO) has completed this risked-based mitigation needs assessment to identify and analyze all significant current and future disaster risks that provide a substantive basis for the activities proposed in Section VI, Projects & Activities. This assessment utilizes the findings of Florida's Enhanced State Hazard Mitigation Plan (ESHMP), data and research acquired from essential data resources, and consultation with public, private and non-profit stakeholders to arrive at a thorough assessment of the hazards which pose substantial risk of loss of life, injury, damage and loss of property, along with suffering and hardship.

To both ensure sufficient clarity of this Action Plan and address current risks, future risks and the mitigation needs of the state, this assessment:

- 1. Discusses historic damage patterns statewide;
- 2. Utilizes the state and local Hazard Mitigation Plans to inform risk analysis;
- 3. Assesses hazards in accordance with local and regional plans, research and data;
- 4. Assesses current and future risks to critical service areas or community lifelines; and
- 5. Addresses unmet mitigation needs in response to identified current and future risks.

## 2.2 Data Sources

A variety of resources were utilized to advise the findings of the risk-based mitigation needs assessment. DEO has sought to use all available mitigation plans, research and analyses to inform the development of the mitigation needs assessment.

## 2.2.1 Considered Resources

#### 2.2.1.1 2016 and 2017 CDBG-MIT Allocation

DEO certifies that, in responding to the Action Plan requirement and presenting the required information, the Agency has reviewed and considered sources including, but not limited to:

The FEMA Hazard Mitigation Plan Resources website:	https://www.fema.gov/hazard-mitigation-planning-resources
The FEMA State Mitigation Planning Resources website:	https://www.fema.gov/state-mitigation-planning-resources
FEMA State Mitigation Planning Key Topics Bulletins:	https://www.fema.gov/medialibrary/assets/documents/il 5780
The FEMA Local Mitigation Planning Resources website:	https://www.fema.gov/local-mitigation-planning- resources
The U.S. Forest Service's wildland fire resources:	https://www.fs.fed.us/managing-land/fire
The National Interagency Coordination Center (NICC):	https://www.nifc.gov/nicc/
HUD's CPD Mapping Tool:	https://egis.hud.gov/cpdmaps/

#### 2.2.1.2 2018 CDBG-MIT Allocation

During the process of amending the Mitigation Action Plan and updating the risk based Mitigation needs assessment DEO certifies that in responding the Action Plan Substantial Amendment requirements and presenting the required information, the Agency has reviewed and considered the following additional sources, including, but not limited to:

FEMA National Risk Index for Natural Hazards (NRI):	https://www.fema.gov/flood-maps/products-tools/national- risk-index
FEMA Local Mitigation Planning Handbook:	Local Mitigation Planning Handbook (fema.gov)
DHS Office of Infrastructure Protection:	https://www.dhs.gov/sites/default/files/publications/ip-fact-sheet-508.pdf
National Association of Counties, Improving Lifelines (2014):	https://www.naco.org/sites/default/files/documents/NACo ResilientCounties Lifelines Nov2014.pdf

# 2.2.2 Interagency Coordination

Coordination and collaboration during Action Plan & Substantial Amendment development is critical to align planned CDBG-MIT activities with other federal, state, and local mitigation projects and planning processes. For this reason, DEO conducts specific coordination efforts with various agencies to ensure all data, planning resources, and programs are considered for the mitigation needs assessment. The following sub-sections provide a more detailed description of the select agency data, plans, and programs referenced for the Action Plan and Substantial Amendment process. In addition, DEO coordinates with partners who manage other funding sources, Such as FEMA and USACE, for the Action Plan and Substantial Amendment process, as per FR-6109-N02. To maintain engagement and coordination efforts with statewide partners through the life of the CDBG-MIT allocations, DEO also participates in quarterly meetings held by Mitigate Florida and events like the annual Governor's Hurricane Conference.

Mitigate Florida is a statewide interagency mitigation workgroup that includes federal, state, and local voices, including but not limited to, Florida Division of Emergency Management (FDEM), Department of Environmental Protection (DEP), Department of Revenue, Department of State, Department of Education, Agency for Persons with Disabilities, Department of Business and Professional Regulation, County-specific representatives, Water Management Districts, Florida Ports Council, The Nature Conservancy, Florida Atlantic University, FEMA, and USACE. The workgroup meets quarterly to discuss ongoing mitigation and resilience projects, new opportunities, funding sources, and other issues. DEO will continue to coordinate with mitigation funding partners through the quarterly Mitigate Florida meetings.

### 2.2.2.1 2016 and 2017 CDBG-MIT Allocation

For the development of the initial Action Plan, DEO maintained its participation with the Mitigate Florida quarterly meetings providing updates on the development of the mitigation strategy, engagement events, and program delivery. DEO also participated in the Governor's Hurricane Conference, hosting a booth and participating as panelists for sessions such as "The Irma Long Term Community".

#### 2.2.2.2 2018 CDBG-MIT Allocation

In preparation for the development of the Substantial Amendment, DEO maintained its participation with the Mitigate Florida quarterly meetings to provide updates to its partners. During the First Quarter Meeting, DEO presented the additional funding allocated for Hurricane Michael impacted communities, communicating the community engagement effort would begin shortly, inviting local impacted governments to stay informed of upcoming communication efforts. Currently, DEO is slated to present community engagement findings and the proposed Draft Substantial Amendment and the subsequent 2018 programs during the Second Quarter Meeting.

### 2.2.2.3 Florida Division of Emergency Management (FDEM)

Most notably, DEO maintains a strong relationship with the FDEM, engaging the Division in several components of the mitigation planning process. The agency's 2018 Enhanced State Hazard Mitigation Plan and FEMA Public Assistance program data (listed below) were a key source of information for the Mitigation Needs assessment. In addition, the Division provided extensive comments on the Action Plan, and participated in the public webinar hosted for the Substantial Amendment on April 26, 2021.

DEO and the Florida Division of Emergency Management also collaborate regularly to leverage FEMA and HUD disaster recovery and mitigation dollars throughout the state. Most recently, a portion of Hurricane Michael CDBG-DR funds have been allocated as recovery cost-share for the Hurricane Michael Public Assistance program, providing an estimated \$22 million in financial relief to affected communities. The Rebuild Florida General Infrastructure Repair Program funded through Hurricane Michael CDBG-DR dollars is also designed to act as match for projects eligible for FEMA Hazard Mitigation Grant Program funding. CDBG-MIT dollars will also be available and eligible as match for FEMA Hazard Mitigation Grant Program funds.

### 2.2.2.4 Enhanced State Hazard Mitigation Plan

The state of Florida's 2018 Enhanced State Hazard Mitigation Plan (ESHMP) is the most recent risk assessment completed through the FEMA hazard mitigation planning process and is the starting point for the Action Plan's risk-based mitigation needs assessment. The ESHMP was completed by the **Florida Division of Emergency Management's (FDEM's) Mitigation Bureau** and serves as the FEMA-approved ESHMP. It provides the factual basis for developing a mitigation strategy for the state. The purpose of the ESHMP is to reduce death, injuries and property losses caused by natural hazards in Florida. The 2018 Plan identifies hazards based on the history of disasters within the state and lists goals, objectives, strategies and actions for reducing future losses.

### 2.2.2.5 Florida Resilient Coastlines Program

The Florida Resilient Coastlines Program is the **Department of Environmental Protection's (DEP's)** effort to synergize community resilience planning, natural resource protection tools and funding to prepare Florida's coastline for the effects of climate change, especially rising sea levels<sup>12</sup>. DEP's vision is that Florida's coastal communities are resilient and prepared for the effects of rising sea levels, including coastal flooding, erosion and ecosystem changes. Through the Florida Resilient Coastlines Program, DEP continues its efforts to ensure collaboration among Florida's coastal communities and to offer technical assistance and funding to coastal communities dealing with increasingly complex flooding, erosion and habitat shifts.

### 2.2.2.6 Adaptation Action Areas

Adopted into the Florida Statute in 2011 through the Community Planning Act, Adaptation Action Areas provide a flexible and optional framework that can be applied to the entire state through individual local action. At the request of coastal communities, DEO created this guidance to assist communities understand how they can use Adaptation Action Areas to adapt to coastal flooding. Florida (Chapter 163, Fla. Stat.) requires each local government authority to create, adopt and maintain a comprehensive land use plan. The local comprehensive plan is a key driver of development and redevelopment because it outlines legally enforceable guidelines and strategies, directly influencing the decision-making process. Comprehensive plans can be amended to create strategies for merging growth with resilience. This creates possibilities for continuously revisiting and updating best practices for sustainable development, post-disaster redevelopment, green infrastructure, water management and protection of natural resources. In the context of sea level rise, planning today via tools such as

Florida Department of Environmental Protection, "Florida Resilient Coastlines Program" <a href="https://floridadep.gov/rcp/florida-resilient-coastlines-program#:~:text=The%20Florida%20Resilient%20Coastlines%20Program%20is%20DEP's%20effort%20to%20synergize,change%2C%20especially%20rising%20sea%20levels.">https://floridadep.gov/rcp/florida-resilient-coastlines-program%20is%20DEP's%20effort%20to%20synergize,change%2C%20especially%20rising%20sea%20levels.</a>

Adaptation Action Areas improves the preparedness and resilience of communities in a way that persists over time. In addition to the DEO, this effort is supported by NOAA, Florida DEP, the Florida Coastal Management Program, and the South Florida Regional Planning Council.

### 2.2.2.7 Wildfire Hazard Mitigation Plan Annex

The Wildfire Hazard Mitigation Plan Annex to the ESHMP was a coordinated effort led by the Florida Forest Service (FFS), formerly known as the Division of Forestry, involving a wide variety of organizations throughout the state and funded by FEMA. The Annex is a comprehensive strategy for addressing Florida's wildfire hazard and it expands upon the ESHMP's discussion of pre- and post-disaster mitigation. The Annex was developed to serve as an expanded wildfire hazard mitigation plan that will enable the state and local governments to prioritize future projects to better prepare for and mitigate wildfire risk in their communities<sup>13</sup>. The plan identifies high-risk areas of the state, describes available capacity for minimizing risk and includes specific state, regional and local implementation strategies.

### 2.2.2.8 Southeast Florida Regional Climate Change Compact

The Southeast Florida Regional Climate Change Compact was executed by Broward, Miami-Dade, Monroe and Palm Beach Counties in January 2010 to coordinate climate mitigation and adaptation activities across county lines. The four Compact counties have advanced local and regional responses to, and preparations for, the effects of climate change, including sea level rise, flooding, and economic and social disruptions. The Regional Climate Action Plan (RCAP) is the Compact's guiding tool for coordinated climate action in Southeast Florida. The first RCAP was published in 2012 after a two-year planning process. RCAP 2.0, launched in December 2017, reflects the lessons learned and actions taken in the first five years of implementation. Since its inception, the Compact has expanded to work with a growing number of federal, state, regional, municipal, nonprofit, academic and private sector partners. The Compact represents a new form of regional climate governance designed to allow local governments to set the agenda for adaptation, while providing state and federal agencies with access to technical assistance and support.

## 2.2.2.9 Florida Vulnerability Assessment: Climate-Sensitive Hazards

The Building Resilience Against Climate Effects (BRACE) Program at the Florida Department of Health (DOH) is working to improve the ability of the public health sector to respond to health effects related to weather variability. As part of the Centers for Disease Control and Prevention's Climate-Ready states and Cities Initiative, the BRACE Program, along with internal and external partners, is implementing the five-step BRACE Framework. As part of BRACE step one, forecasting climate impacts and assessing vulnerabilities, DOH collaborated with the University of South Carolina Hazards and Vulnerability Research Institute to produce the Florida Vulnerability Assessment<sup>14</sup> which focused on climate-sensitive hazards in Florida.

### 2.2.2.10 Community Engagement

In addition to the efforts listed above, DEO conducted localized engagement efforts to collect further insight into local mitigation concerns, and local perspectives on risks, hazards, and threats in the area. These efforts bolstered the mitigation strategy and ensured local voices remained engaged through the development of the Action Plan and Substantial Amendment.

<sup>&</sup>lt;sup>13</sup>Florida Department of Agriculture and Consumer Affairs, Florida Division of Emergency Management; Retrieved from <a href="https://www.floridadisaster.org/contentassets/c6a7ead876b1439caad3b38f7122d334/appendix-g\_wildfire-hazard-mitigation-planannex.pdf">https://www.floridadisaster.org/contentassets/c6a7ead876b1439caad3b38f7122d334/appendix-g\_wildfire-hazard-mitigation-planannex.pdf</a>

<sup>&</sup>lt;sup>14</sup> Emrich, et al. and Hazards and Vulnerability Research Institute, "Climate-Sensitive Hazards in Florida Identifying and Prioritizing Threats to Build Resilience against Climate Effects", Retrieved from <a href="https://flbrace.org/fl-vulnerability-assessment.html">https://flbrace.org/fl-vulnerability-assessment.html</a>

#### 2016 and 2017 CDBG-MIT Allocation

In anticipation of the release of 84 FR 45838 2019, DEO conducted a survey in which state-wide jurisdiction representatives, private businesses and citizen stakeholders participated to discuss their current mitigation barriers and needs. The mitigation needs reflected in the survey helped to inform this mitigation strategy. Questions asked in the survey are included in **Appendix A**. A survey summary is provided in **Appendix B**. In addition, DEO held seven regional workshops prior to the public comment period to answer questions and solicit input and feedback from various MID communities.

#### 2018 CDBG-MIT Allocation

With the release of the additional allocation for the 2018 Disaster-affected areas in 86 FR 569 2021, DEO conducted a survey in which jurisdiction representatives, private businesses and citizen stakeholders from the impacted Panhandle areas participated to communicate their current mitigation barriers and needs. The mitigation needs reflected in the survey helped to inform the mitigation strategy for 2018 CDBG-MIT Substantial Amendment. Questions asked in the survey are included in Appendix A: - Community Engagement Survey Questions. A survey summary is provided in Appendix B – Survey Summary Report. In addition, DEO held three public hearings and workshops prior to the public comment period to discuss risks, hazards and threats, address questions and solicit input and feedback from the 2018 MID communities. For attendees unable to participate during the in-person public hearings, an online webinar was promoted to provide stakeholders with information on the process and to provide an additional avenue for input to support the Substantial Amendment development.

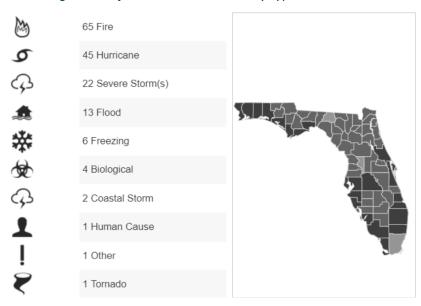
# 2.3 Historic Damage Patterns

Historically, Florida has been no stranger to hazards and disasters. Common hazards within the state include flooding, severe storms, tropical cyclones, coastal erosion and wildfires. In many cases, these hazards outnumber similar events across the country in frequency, magnitude and impacts. This section provides background into historic patterns of damage in Florida.

# 2.3.1 Major Disaster Declarations

Since federal declarations began in 1953, Florida has had 160 Major Disaster Declarations, as of February 2021. Figure 9 demonstrates the types of disasters that have received a Major Disaster Declaration, by type, from 1953 until 2021. Wildfires are the most common hazards in Florida, but hurricanes have historically inflicted the most catastrophic destruction.

Figure 9: Major Disaster Declarations by Type 1953-2020



Source: https://www.fema.gov/data-visualization/disaster-declarations-states-and-counties

Wildfires are not commonly declared as a major disaster, but rather as a Fire Management Assistance Declaration. From 1953 through 2018 there were 59 wildfires that received the Fire Management Assistance Declaration. Only one wildfire was declared a major disaster in Florida.

Agricultural disruptions are also not commonly declared as major disasters, but rather as a Secretarial Disaster Declaration by the USDA. Table 8 illustrates the number of primary counties that were declared and the contiguous counties that were also declared from 2012 through 2018<sup>15</sup>.

**Table 8: USDA Secretarial Disaster Declarations** 

USDA Secretarial Disaster Declarations							
Year	Contiguous Counties						
2012	63	4					
2013	33	18					
2014	12	22					
2015	4	12					
2016	18	31					
2017	61	5					
2018	12	16					

Source: U.S. Department of Agriculture, Retrieved from <a href="https://www.fsa.usda.qov/programs-and-services/disaster-assistance-program/disaster-designation-information/index">https://www.fsa.usda.qov/programs-and-services/disaster-assistance-program/disaster-designation-information/index</a>

## 2.3.2 Cost of Disasters

Hurricanes and tropical storms represent the costliest hazard in Florida's history, accounting for 86% of the state's total hazard losses from 1960 to 2012<sup>16</sup> (inflation-adjusted for 2012). Table 9 illustrates monetary losses and casualties by hazard type for the 53-year period. Measured by injuries, impacts from hurricanes and tropical

<sup>&</sup>lt;sup>15</sup> U.S. Department of Agriculture, Retrieved from <a href="https://www.fsa.usda.gov/programs-and-services/disaster-assistance-program/disaster-designation-information/index">https://www.fsa.usda.gov/programs-and-services/disaster-assistance-program/disaster-designation-information/index</a>

<sup>&</sup>lt;sup>16</sup> Climate-Sensitive Hazards in Florida, <a href="http://www.floridahealth.gov/environmental-health/climate-and-health/\_documents/climate-sensitive-hazards-in-florida-final-report.pdf">http://www.floridahealth.gov/environmental-health/climate-and-health/\_documents/climate-sensitive-hazards-in-florida-final-report.pdf</a>

storms are second only to tornadoes. In examining total fatalities however, lightning and combined coastal hazards (including storm surge and rip currents) represent the deadliest hazards in the state.

**Table 9: Monetary Losses Due to Natural Hazards** 

Mo	Monetary Losses Due to Natural Hazards									
Hazard Type	(2012 adjusted)	Fatalities	Injuries							
Hurricane/Tropical Storm	\$ 87,373,452,167	148	2,940							
Wind	\$ 3,932,003,179	86	473							
Flooding	\$ 3,436,397,989	19	5							
Winter Weather	\$ 2,354,049,615	36	2							
Tornado	\$ 2,044,959,759	168	3,070							
Wildfire	\$ 834,628,358	0	255							
Severe Storm	\$ 740,811,980	47	228							
Hail	\$ 592,629,556	10	31							
Coastal	\$ 555,793,597	296	349							
Lightning	\$ 119,672,074	458	1,564							
Fog	\$ 2,350,860	6	47							
Heat and Drought*	\$ 129,666,151	12	10							
TOTAL	\$102,116,415,285	1,288	8,974							

Source: Hazards and Vulnerability Research Institute, "Climate-Sensitive Hazards in Florida" Report, Retrieved from: <a href="https://flbrace.org/images/docs/climate-sensitive-hazards-in-florida-final-report.pdf">https://flbrace.org/images/docs/climate-sensitive-hazards-in-florida-final-report.pdf</a>

Temporal trends for all hazard losses in Florida are generally concurrent with those tabulated throughout the United States<sup>17,18</sup>, representing an increasing and unsustainable pattern of damage. Figure 10 illustrates the long-term trend of hazard losses for Florida, which suggests an overall increase in annual total costs over time. This tendency relates to both an increase in hazard frequency and an ever-inflating coastal population, leaving more people and infrastructure exposed to future disasters<sup>19</sup>.

<sup>&</sup>lt;sup>17</sup>Cutter, S. L., & Emrich, C. (2005). "Are natural hazards and disaster losses in the U.S. Increasing?" Eos, Transactions American Geophysical Union, 86(41), 381. doi: 10.1029/2005eo410001

<sup>&</sup>lt;sup>18</sup>Gall, M., K.A. Borden, C.T. Emrich, and S.L. Cutter. 2011. "The Unsustainable Trend of Natural Hazard Losses in the United States." Sustainability no. 3:2157-2181. doi: 10.3390/su3112157.

<sup>&</sup>lt;sup>19</sup>Malmstadt, J., K. Scheitlin, and J. Elsner. 2009. "Florida Hurricanes and Damage Costs." Southeastern Geographer no. 49:108-131. doi: 10.1353/sgo.0.0045.

Florida Losses for All Hazards, 1960-2012

\$100,000 \$10,000 \$1,00

Figure 10: Florida Losses for All Hazards, 1960-2012

Source: Hazards and Vulnerability Research Institute, "Climate-Sensitive Hazards in Florida" Report, Retrieved from: <a href="https://flbrace.org/images/docs/climate-sensitive-hazards-in-florida-final-report.pdf">https://flbrace.org/images/docs/climate-sensitive-hazards-in-florida-final-report.pdf</a>

# 2.3.3 National Flood Insurance Program

As of January 2020, Florida had 1,749,804 National Flood Insurance Program (NFIP) policies, equaling approximately 35% of all policies in the nation<sup>20</sup>. Total premiums equal an annual amount of \$999,244,873. These policies cover more than \$441 billion in property<sup>21</sup>.

Over the past 40 years, Florida has contributed to the NFIP fund an average of nearly 10 times the amount of premiums paid than the state has received in closed paid NFIP claims. As with much of the nation, flooding represents the most damaging natural hazard in the state. As of January 2018, Florida had 3,925 repetitive loss properties that have been mitigated and 14,887 repetitive loss properties that have not been mitigated. Moreover, there are 657 mitigated and non-mitigated properties that are considered severe repetitive loss. Clearly a strong mitigation program is still necessary in Florida. The state currently has 468 communities (local governments) that participate in the NFIP.

# 2.4 Greatest Risk Hazards

Of the hazards that have the potential to place the lives and property of Floridians at risk, five natural hazards are identified as major priorities in this risk-based needs assessment.

Floods were found to be the highest risk to the state, followed by tropical cyclones, severe storms, wildfires and coastal erosion. These hazards have been selected based largely on the 2018 ESHMP's vulnerability assessments. The ESHMP's examination is based on past disasters, frequency of occurrence, probability of occurrence, possible impacts, analysis of individual LMS hazard rankings and jurisdiction and state vulnerability. The prioritization of these hazards in many mitigation plans and programs throughout the state are indicative of the breadth and depth of their impacts.

This section addresses quantitative and qualitative descriptions of these hazards and their projected current and future risk to the state of Florida, particularly in MID-identified areas. Each hazard profile includes a description of the hazard, discussion of hazard exposure to people and assets, and when possible, a discussion of vulnerability.

Climate change is a key overarching challenge which threatens to compound the extent and effects of hazards<sup>22</sup>. These events are likely to include increases in wind, rain and storm surges linked with rising atmospheric and sea

<sup>&</sup>lt;sup>20</sup>https://www.govtech.com/em/emergency-blogs/disaster-zone/national-flood-insurance-program-facts-and-figures-for-florida.html

<sup>&</sup>lt;sup>21</sup> https://www.fema.gov/press-release/20201028/floridians-flood-insurance-sound-investment

<sup>&</sup>lt;sup>22</sup> Fourth National Climate Assessment (NCA4), Retrieved from <a href="https://science2017.globalchange.gov/">https://science2017.globalchange.gov/</a>

surface temperatures, and an overall rise in sea level <sup>23</sup>. As such, throughout this section, climate change is discussed in relationship to its potentially aggravating outcomes on future vulnerabilities.

The 2018 ESHMP Mitigation Bureau reviewed all available county Local Mitigation Plans to make comparisons possible across identified hazards to jurisdictions. The method chosen to align these plans was a ranking system based on frequency of occurrence.

Floods, tropical cyclones and severe storms present high risks throughout the entire state, inflicting deaths and causing great damage to physical assets. Impact from wildfires and coastal erosion hazards emphasizes risk concentrated in certain geographical regions. However, their consequences to life and critical assets are high and are also subject to cascading effects as a resulting risk of other hazards.

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<sup>&</sup>lt;sup>23</sup> EPA . gov Climate Change Indications

## Key for Local Mitigation Plan Identified Frequent Hazards

	Key	
Ranking Level	Code	Description
High Hazard Ranking	Н	One or more occurrences each year
Medium/High Hazard Ranking	MH	One occurrence every 3 years
Medium Hazard Ranking	M	One occurrence every 5 – 7 years
Low Hazard Ranking	L	One occurrence every 10 years
Not Identified		-

Table 10: HUD MID Areas - Identified Frequent Hazards

Table 11: State MID Areas Identified Frequent Hazards (Holmes County is the singular State Identified MID for 2018 disasters)

HUD MID Areas – Frequent hazards								
	County	Flooding	Hurricane	Severe Storm	Wildfire	Erosion		
	Brevard	Н	Н	Н	MH	MH		
	Broward	Н	MH	Н	МН	MH		
σ	Clay	Н	М	Н	Н	-		
2016-2017 Disasters Affected Areas	Collier	MH	MH	Н	Н	Н		
A b	Duval	Н	Н	Η	Н	-		
cte	Hillsborough	Н	MH	Н	Н	L		
Αffe	Lee	M	М	Н	Н	Н		
irs ,	Miami Dade	Н	Н	Н	L	M		
aste	Monroe	Η	MH	Ι	МН	Н		
Dis	Orange	Η	Η	Τ	Н	-		
117	Osceola	Η	Η	Τ	Н	-		
9-50	Palm Beach	Н	Н	Н	L	L		
016	Polk	Н	MH	Н	Н	-		
2	St. Johns	Η	Η	Ι	Н	M		
	St. Lucie	Н	Н	Н	M	Н		
	Volusia	Н	Н	Н	Н	Н		
sas	Bay	Н	Н	Η	M	-		
Are	Calhoun	Н	Η	Η		L		
ted	Franklin	Н	Н	Н	МН	MH		
fec	Gadsden	Н	Н	Н	Н	-		
2018 Disaster Affected Areas	Gulf	Н	Н	M	Н	M		
ste	Jackson	Н	Н	Н	Н	L		
Oisa	Liberty	Н	Н	Н	Н	Н		
18 [	Wakulla	Н	Н	Н	Н	M		
20:	Washington	M	М	Н	L	M		

*Table 11* is to the right.

Sta	State MID Areas- Frequent Hazards									
County	Flooding	Hurricane	Severe	Wildfire	Erosion					
Alachua	МН	М	М	Н	-					
Baker	Н	Н	Н	Н	-					
Bradford	Н	Н	Н	MH	L					
Charlotte	Н	M	Н	M	M					
Citrus	Н	Н	Н	Н	-					
Columbia	M	M	Н	M	M					
DeSoto	Н	MH	Н	М	-					
Dixie	Н	Н	M	М	L					
Flagler	Н	Н	Н	Н	MH					
Gilchrist	Н	M	Н	Н	-					
Glades	Н	Н	Н	Н	-					
Hardee	Н	MH	Н	Н	-					
Hendry	M	Н	Н	Н	-					
Hernando	Н	Н	Н	Н	M					
Highlands	Н	Н	Н	Н	-					
Indian River	Н	Н	Н	M	Н					
Lafayette	M	MH	Н	Н	M					
Lake	M	М	Н	M	L					
Leon	M	L	Н	М	-					
Levy	Н	M	-	Н	M					
Manatee	Н	Н	Н	Н	M					
Marion	Н	L	-	M	L					
Martin	Н	M	Н	M	M					
Nassau	-	L	M	L	L					
Okeechobee	M	Н	M	Н	L					
Pasco	MH	M	Н	Н	M					
Pinellas	M	Н	Н	M	Н					
Putnam	MH	M	Н	MH	-					
Sarasota	Н	Н	Н	Н	Н					
Seminole	Н	Н	MH	MH	-					
Sumter	Н	M	Н	Н	-					
Suwannee	Н	Н	Н	Н	Н					
Taylor	M	Н	Н	Н	M					
Union	Н	Н	Н	Η	L					
Wakulla	Н	Н	Н	Н	M					
Holmes	Н	M	Н	Н	Н					

# 2.4.1 Flooding

Flooding refers to the general or temporary conditions of partial or complete inundation of normally dry land areas resulting from the overflow of inland or tidal water and surface water runoff from any source. In Florida, where severe thunderstorms, tropical cyclones, seasonal rains and other meteorological conditions produce excessive water and wind, floods are common and pose an exceptionally high risk. Florida's low-lying topography and subtropical climate, combined with its rapid urbanization, results in increased impervious surface areas such as asphalt roads and concrete areas. If local conditions cannot accommodate intense precipitation through a combination of infiltration and surface runoff, water may accumulate and cause flooding. Flooding occurs in several variations due to weather-related conditions: two main categories are inland flooding (rivers, dams/dikes and flash floods) and coastal flooding (storm surge and tidal flooding).

Heavy precipitation may result in designated and natural drainage systems exceeding carrying capacities and resulting in riverine flooding. Flash floods are most often caused by slow-moving thunderstorms or tropical cyclones and tend to be exceptionally dangerous because of their rapid onset, high velocity and debris load. These floods can develop quickly depending on the intensity and duration of the storm, the topography of the area, soil conditions and ground cover. Rapid urbanization and the increase of impervious surfaces such as roads and sidewalks, has led to increased levels of flash flooding during weather events<sup>24</sup>. The failure of a dam or dike can also produce a flood event that presents a potential hazard to downstream areas. High-risk dams and dikes are those in which failure or operational error results in loss of human life and poses significant risks to lifeline facilities.

Coastal flooding is usually the result of a weather system such as a severe thunderstorm, hurricane or tropical storm with high winds. Storm surge occurs when water is driven ashore by the wind resulting in a rise of water over and above regular tides. The damaging effects to structures in beach areas are caused by a combination of higher levels of storm surge, winds, waves, rains, erosion and battering by debris. During a hurricane, this is often the greatest threat to life and property along the coast. King tides, which are higher than normal tides and usually occur in autumn months, can be worsened in the overlapping hurricane season, compounding its effects.

Florida's geography also makes it very susceptible to the threat of severe repetitive loss. As sea levels rise, several consequences, including increasing the salt content (salination) of fresh water sources, land loss and increases in storms and flooding can occur. Water inundates and erodes coastal wetland ecosystems such as mangroves and salt marshes. Higher water levels wash away wetlands and flood previously dry land<sup>25</sup>. These coastal wetland ecosystems are crucial to absorbing the impact of tropical storms and providing a breeding ground for a significant proportion of sea life.

Figure 11 depicts floodplains; geographic areas that are recognized as being susceptible to increased levels of flood risk. The area in blue represents the 1% floodplain, also known as the base flood or the 100-year flood, which is the level of a flood that has a 1% probability of occurring in any given year. In red is the .2% flood or 500-year floodplain, which has a .2% chance of annual inundation.

<sup>24</sup>Enhanced State Hazard Mitigation Plan, p. 181: Retrieved <a href="https://www.floridadisaster.org/dem/mitigation/statemitigationstrategy/state-hazard-mitigation-plan/">https://www.floridadisaster.org/dem/mitigation/statemitigationstrategy/state-hazard-mitigation-plan/</a>
<sup>25</sup>Enhanced State Hazard Mitigation Plan, p. 106: Retrieved

https://www.floridadisaster.org/dem/mitigation/statemitigationstrategy/state-hazard-mitigation-plan/

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from

from

Gulf of Mexico

AREAS AT RISK FOR FLOODING
FLOOD RISK

1% Annual Chance of Flood
UNDETERMINED
Counties

Source: Federal Emergency Management Agency (FEMA)

Figure 11: Areas at Risk for Flooding

Source: Enhanced State Hazard Mitigation Plan, p. 109

Based on historical knowledge and an understanding of floodplains, it is believed that Florida will continue to experience flooding events on an annual basis. Specific probability is difficult to determine; however, 100-year and 500-year estimates help provide a baseline understanding. It is likely that Florida will continue to be impacted by flooding due to any number of causes annually. The ESHMP's analysis of 2012 to 2016 in Florida, from the National Centers of Environmental Information (NCEI), indicates that there are about nine to 10 coastal floods, 16 flash floods and 19 to 20 inland floods each year in Florida.

**Table 12: Annual Flooding Frequency** 

Type of Flood	NCEI Reports	Average per Year	
Coastal Flood	48	9.6	
Flash Flood	81	16.2	
Inland Flood	98	19.6	
Total	227	45.4	

Source: Enhanced State Hazard Mitigation Plan, p. 117

A large segment of the population of Florida is exposed to flooding risk. According to the ESHMP analysis based on data from the Hazards U.S. Multi-Hazard (HAZUS-MH) flood model and the 2015 American Community Survey, more than 1.3 million people live within flood zones with a 100-year return period (1% flood zone) and more than 1.5 million live in a 500-year flood return period (.2% floodplain). Of these exposed populations, 2016-2017 CDBG-MIT Allocation: HUD MID jurisdictions make up 1.1 million (83.8%) and 1.3 million (84.6%) respectively. 2018 CDBG-MIT Allocation: HUD MID jurisdictions make up approximately 7,000 (0.5%) and approximately 8,100 (0.6%) respectively. Of the eight counties with more than 10,000 people at risk, only one county, Pinellas, is not an identified HUD MID area<sup>26</sup> but it has been designated a state MID area in response to 2016-2017 Disasters. The map in Figure 12 depicts HAZUS-MH data.

<sup>&</sup>lt;sup>26</sup>Enhanced State Hazard Mitigation Plan, "Appendix E - Risk Assessment Tables", Retrieved from <a href="https://www.floridadisaster.org/dem/mitigation/statemitigationstrategy/state-hazard-mitigation-plan/">https://www.floridadisaster.org/dem/mitigation/statemitigationstrategy/state-hazard-mitigation-plan/</a>

Figure 12: Total Population in 100-Year Floodplain

Source: State Hazard Mitigation Plan p. 122

Based on the state facility database and the Hazard Events and Location Prognosticator – Florida (HelpFL) inland flood data, there are nearly 4,000 state facilities in the 100-year floodplain and more than 700 additional state facilities in the 500-year floodplain. There are 11 counties with more than 100 state facilities in the 100-year floodplain. These include Broward, Collier, Franklin, Gulf, Lee, Miami-Dade, Monroe, Palm Beach, Pinellas, Polk and St. Johns. Miami-Dade County has the most, with almost 700 state facilities in the 100-year floodplain. Broward County is the only County with an additional 100 or more state facilities in the 500-year floodplain.

An analysis of county facilities within the 100-year and 500-year return flood zones estimates 15 counties with more than \$1 billion worth of public facilities at risk, including Brevard, Collier, Duval, Escambia, Hillsborough, Lee, Leon, Orange, Pasco, Pinellas, Sarasota and St. Johns. Of these, only four counties are not in HUD MID areas. These public facilities include hospitals, fire stations, police stations and other types of county facilities.

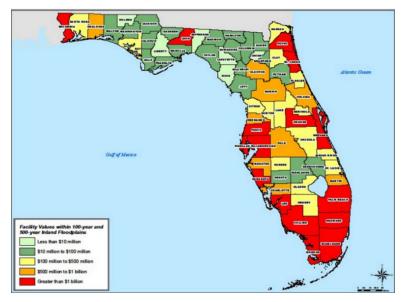


Figure 13: Facility Values within 100-Year and 500-Year Floodplains

Source: Enhanced State Hazard Mitigation Plan, p. 124

According to data analysis conducted using the HAZUS software, the total potential direct economic loss due to a 100-year and 500-year flood is \$8,896,289,000 and \$12,597,571,000 respectively<sup>27</sup>. Three counties would have more than \$500 million in assets at risk in a 100-year flood zone. There are 11 counties; Brevard, Citrus, Collier, Hillsborough, Indian River, Lee, Marion, Orange, Pasco, Seminole and Suwannee, that have between \$100 million and \$500 million worth of assets at risk.

Within the 500-year flood zone, Broward, Miami-Dade and Palm Beach counties have more than \$500 million in assets at risk. There are also 15 counties that could experience between \$100 million and \$500 million in losses due to flooding damage within the 500-year flood zone. These counties are; Brevard, Citrus, Collier, Duval, Hillsborough, Indian River, Lee, Marion, Orange, Pasco, Polk, Santa Rosa, Sarasota, Seminole, Suwannee, and St. Lucie counties.

# 2.4.2 Tropical Cyclone Profile

A tropical cyclone, also known as a tropical storm or hurricane, is a rotating, organized system of clouds and thunderstorms that originates over tropical or subtropical waters and has a closed low-level circulation. A hurricane is a tropical cyclone which occurs in the Atlantic Ocean and northeastern Pacific Ocean, and a typhoon occurs in the northwestern Pacific Ocean; in the south Pacific or Indian Ocean, comparable storms are referred to simply as "tropical cyclones" or "severe cyclonic storms."

The entire state of Florida is subject to the effects of tropical cyclones, but some areas are more vulnerable than others due to the state's large expanses of coastal shorelines on the Atlantic and Gulf Coasts<sup>28</sup>. There is no point within Florida that is more than 70 miles from either the Atlantic Ocean or the Gulf of Mexico. The diameter of hurricane force winds averages 100 miles and tropical storm force winds extend out up to 400 miles.

Flooding from tropical cyclones poses the greatest threat for people who live inland. Rainfall can cause flash flooding and flooding on rivers and streams that can persist for several days after the storm. Rainfall amounts are related to the speed and size of tropical cyclones rather than the intensity. A slower moving and larger tropical cyclone has a longer and larger capacity to produce rainfall.

Figure 14 illustrates the location and number of hurricane strikes in Florida between 1900 and 2010.

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<sup>&</sup>lt;sup>27</sup>Enhanced State Hazard Mitigation Plan, "— Risk Assessment Tables", Retrieved from <a href="https://www.floridadisaster.org/dem/mitigation/statemitigationstrategy/state-hazard-mitigation-plan/">https://www.floridadisaster.org/dem/mitigation/statemitigationstrategy/state-hazard-mitigation-plan/</a>; Note: "Direct economic losses were calculated in HAZUS-MH by taking the general building stock (Residential, Commercial, Industrial, etc.) that intersected a given Census Block and applied damage curves within the model based on the depth of flood inundation from the model's derived 100-year and 500-year return periods that were generated based on a Digital Elevation Model and calculated reaches within a County. The data for these figures can be found in."

<sup>28</sup> http://www.keyshistory.org/35-anatomy1.html

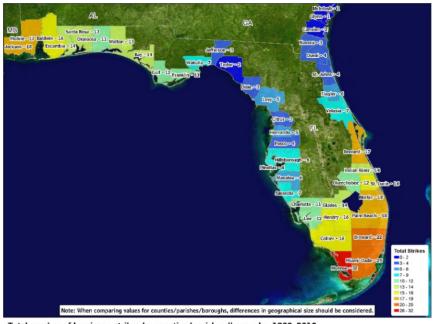


Figure 14: Total Number of Hurricane Strikes

Total number of hurricane strikes by counties/parishes/boroughs, 1900-2010

Source: National Oceanic and Atmospheric Agency, Retrieved from: https://www.nhc.noaa.gov/climo/images/strikes\_egulf.jpg

Storm surge is perhaps the most dangerous aspect of a hurricane. It occurs when the winds and forward motion associated with a tropical cyclone accumulate water as it moves toward shore. The ESHMP presents data on land areas that would be impacted by storm surge coastal flooding due to a Category 2 Hurricane or a Category 5 Hurricane based on the Sea, Lake and Overland Surge from Hurricanes (SLOSH) maps, flood depth grids from the State Regional Evacuation Studies and census block data. In total, more than 1.8 million people are living in coastal areas are positioned to be impacted by a Category 2 Hurricane storm surge, whereas 5.8 million people could be impacted by a Category 5 Hurricane storm surge.

There are five counties with more than 100,000 people living in the storm surge zone of a Category 2 Hurricane: Collier, Hillsborough, Lee, Miami-Dade and Pinellas. There are 14 counties with more than 100,000 people living in the storm surge zone of a Category 5 hurricane: Brevard, Broward, Charlotte, Collier, Duval, Hillsborough, Lee, Manatee, Miami-Dade, Pasco, Pinellas, St. Johns, Sarasota and Volusia. With 1.5 million people, Miami-Dade County has the highest population in the Category 5 Hurricane storm surge zone.

In addition to people being vulnerable to the hazards associated with tropical cyclones and the storm surges they generate, thousands of structures, worth billions of dollars, are also at risk. Table 13: Economic Impact of Storm Surge on Counties

illustrates modeling of the total value of county and state facilities exposed to the storm surge of Category 2 and Category 5 storms. County facilities include, but are not limited to, commission-owned buildings such as offices, parks, and libraries. State facilities include, but are not limited to, state government offices and properties, detention facilities and state parks. Tropical cyclones can produce very strong and destructive winds that can persist for great distances and durations, even after landfall. In recent years, much of the wind damage from hurricanes has been attributed to tornadoes and has been the result of down bursts, which are strong downdrafts that cause damaging winds on or near the ground. The totals included in the table below, HUD and State, account for both 2016-2017 and 2018 MIDs.

**Table 13: Economic Impact of Storm Surge on Counties** 

Hurricane Category and MID Designation	Storm Surge Asset Impacts by Dollar
County	/ Facilities
Category 2	\$4,490,862,602
HUD MIDs	\$3,270,679,118
State MIDs	\$ 919,408,865
Non-MIDs	\$ 300,772,619.00
Category 5	\$17,745,539,113
HUD MIDs	\$ 14,813,512,560
State MIDs	\$ 1,702,248,526
Non-MIDs	\$ 1,229,778,027
State	Facilities
Category 2	\$ 2,192,171,165
HUD MIDs	\$ 1,139,326,862
State MIDs	\$ 653,462,030.00
Non-MIDs	\$ 176,826,336.00
Category 5	\$ 4,935,412,187
HUD MIDs	\$ 2,997,413,110
State MIDs	\$ 1,116,413,487
Non-MIDs	\$ 821,585,590

Source: Data used for this table is from the Enhanced State Hazard Mitigation Plan

Figure 15 shows the value of damaged structures within probabilistic return period areas for hurricane winds. This shows that while the value of structures that would be damaged from hurricane winds in the 10-year return period area is \$6.58 billion, that number increases exponentially to \$958 billion in the 1,000-year return period area.

Probabilistic Hurricane Wind Value of Structures Damaged within Return Period Areas 958 billion 1,000 900 723 Value of Structures Damaged 800 billion (in billions of dollars) 700 600 435 500 billion 400 254.33 billion 300 122.70 200 billion 31.15 6.58 100 billion billion 0 ■ 10-Year ■ 20-Year ■ 50-Year ■ 100-Year ■ 200-Year ■ 500-Year ■ 1000-Year Return Periods

Figure 15: Probabilistic Hurricane Wind Damage

Source: Enhanced State Hazard Mitigation Plan, p. 167

### 2.4.3 Severe Storms

A thunderstorm is a local storm that produces lightning and thunder and varies in type depending on its size and organization. Florida is considered the thunderstorm capital of the United States as no other part of the nation has more thunderstorm activity. The National Weather Service considers a thunderstorm "severe" if it produces hail at least one inch in diameter, winds of 58 mph or stronger or a tornado.

Severe storms are highly likely in Florida, particularly in the Panhandle and the northern, central and southeast regions of the state. Approximately half the state is likely to have three to 18 severe storm warnings each year<sup>29</sup>. In a typical year, the western half of the Florida peninsula experiences more than 80 days with thunder and lightning. Severe thunderstorms and tornadoes can occur anywhere throughout the state. As the number of structures and population increases, the probability that a severe storm or tornado will cause property damage or human casualties likewise increases. Figure 16 displays the jurisdictional rankings for the severe storms hazard included in the ESHMP. Fifty-seven of Florida's 67 counties have a high-risk of severe storms hazards; two counties have medium-high-risk; five are medium-risk; and three do not identify severe storms as a risk.

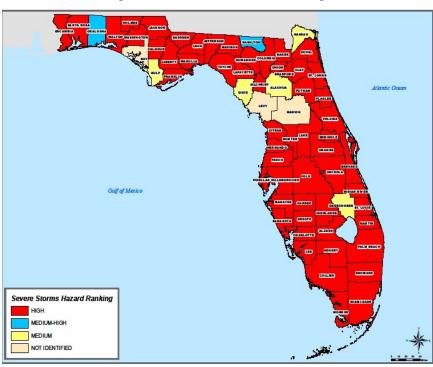


Figure 16: Severe Storm Hazard Ranking

Source: State Hazard Mitigation Plan, p. 198

Flash flooding caused by thunderstorm rainfall causes more deaths annually than tropical cyclones, tornados or lightning. Lightning is one of the deadliest weather phenomena. Between 2009 and 2018, Florida had 49 lightning deaths, ranking it first in the U.S.<sup>30</sup>. Lightning is also responsible for many fires<sup>31</sup>. Strong (up to more than 120 mph) straight-line winds associated with thunderstorms knock down trees, power lines and mobile homes. Tornadoes (with winds up to about 300 mph) can destroy all but the best-built man-made structures.

<sup>&</sup>lt;sup>29</sup>Enhanced State Hazard Mitigation Plan, page 195: Retrieved from https://www.floridadisaster.org/dem/mitigation/statemitigationstrategy/state-hazard-mitigation-plan/

<sup>30</sup> https://www.fox4now.com/news/local-news/florida-ranks-highest-for-lightning-deaths

<sup>31 &</sup>lt;a href="https://www.visitflorida.org/resources/crisis-preparation/wild-fire-information/#:~:text=About%2090%20percent%20of%20wildfires,%3A%20oxygen%2C%20fuel%20and%20heat.">https://www.visitflorida.org/resources/crisis-preparation/wild-fire-information/#:~:text=About%2090%20percent%20of%20wildfires,%3A%20oxygen%2C%20fuel%20and%20heat.</a>

### 2.4.4 Wildfire Hazard

Wildfire, or wildland fire, are fires started by lightning or by humans in an area with vegetation. Wildfires occur in Florida every year and at all times of the year and are part of the natural cycle of Florida's fire-adapted ecosystems. Between 2006 and 2016, about 70% to 80% of Florida's wildfires were caused by humans, including arson, burning debris or accidents, 20% to 30% of were caused by lightning and about 9% were the result of prescribed fires. Based on the LMS plans of the MID counties, the majority of counties have identified wildfires as one of their hazards: 48 as high-risk; 7 as medium-high-risk; 16 as medium-risk; and 5 as low-risk. Approximately 9.8% of the population of Florida (1,848,396 people) reside in an area of high wildfire risk and 11.2% of the state's population (2,112,245 people) live in medium-risk wildfire areas<sup>32</sup>

Environmental short-term loss caused by a wildland fire can include the destruction of wildlife habitat and watersheds. Long-term effects include reduced access to affected recreational areas, destruction of cultural and economic resources and community infrastructure and vulnerability to flooding due to the destruction of watersheds. The State's Hazard Mitigation Plan notes that wildfires can result in damage or loss to personal structures or businesses and critical infrastructure such as schools, hospitals, government buildings or utilities<sup>33</sup>. The State's Hazard Mitigation plan also notes that an update of state facility vulnerability analysis and loss estimation was not possible to obtain in 2017 at the time when the plan was being updated. Planning tools like FEMA's National Risk Index provide an Expected Annual Loss calculation for building value which is the average economic loss in dollars resulting from a particular natural hazard each year<sup>34</sup>. This calculation utilizes factors such as overall exposure, frequency, and historic loss from a variety of authoritative data sources. Figure 17 below shows the Expected Annual Loss to building value due to wildfire by County for the state of Florida.

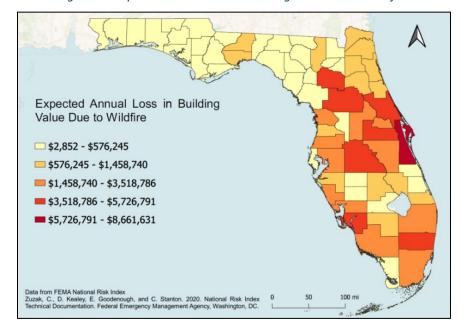


Figure 17: Expected Annual Loss in Building Value Due to Wildfire

<sup>&</sup>lt;sup>32</sup> Enhanced State Hazard Mitigation Plan, "Appendix G: Wildfire Hazard Mitigation Plan Annex", Retrieved from: <a href="https://www.floridadisaster.org/contentassets/c6a7ead876b1439caad3b38f7122d334/appendix-g\_wildfire-hazard-mitigation-plan-annex.pdf">https://www.floridadisaster.org/contentassets/c6a7ead876b1439caad3b38f7122d334/appendix-g\_wildfire-hazard-mitigation-plan-annex.pdf</a>

 $<sup>^{\</sup>rm 33}$  Enhanced State Hazard Mitigation Plan, p. 212

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<sup>&</sup>lt;sup>34</sup> Zuzak, C., D. Kealey, E. Goodenough, and C. Stanton. 2020. National Risk Index Technical Documentation. Federal Emergency Management Agency, Washington, DC.

Based on Figure 17 above, the counties with some of the highest Expected Annual Loss in building value due to wildfires are Brevard, Polk, Alachua, Orange, Marion, Volusia and Broward.

In addition to direct causes of wildfire such as lightning or by human activity, Hurricanes increase wildfire risk when they flatten forests and leave giant swaths of dead trees in their wake. Acres of forests can be devasted leaving tons of dead wood per acre behind. Debris accumulation often becomes the "fuel" for destructive fires. Even when standing timber is not heavily damaged, branches, leaves, and broken tops accumulating on the forest floor after a storm become potential fuel for a wildfire the following spring<sup>35</sup>. For example, a wildfire that started out as yard debris quickly spread through over 600 acres of dead trees that we're damaged after Hurricane Michael and forced the evacuation of nearly two dozen homes in Panama City<sup>36</sup>.

Figure 18 below displays wildfire hazard potential for the state of Florida using a methodology produced by the USDA Forest Service, Fire Modeling Institute that was designed to aid in the evaluations of wildfire hazard<sup>37</sup>. The map depicts the relative potential for wildfire that would be difficult for suppression resources to contain. While this data does not on its own represent an explicit wildfire threat or risk, it can be used to highlight areas of the state where vegetation treatments may be needed to reduce the intensity of future wildfires<sup>38</sup>. Areas mapped with higher values represent those with a higher probability of experiencing torching, crowning, and other forms of extreme fire behavior under conducive weather conditions.

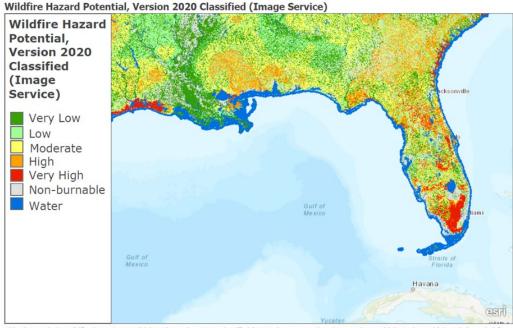


Figure 18: Wildfire Hazard Potential for Florida

This dataset is the wildfire hazard potential (WHP), version 2020, classified into 5 classes: very low, low, moderate, high, and very high. It is intended for use in strategic wildland fuels and land management planning at broad scales.

Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS | Funding for this project provided by USDA Forest Service, Fire and Aviation Management. Funding also provided by USDA Forest Service, Fire Modeling Institute, which is part of the Rocky Mountain Research Station, Fire, Fuel and Smoke Science Program.

Work on dataset development was primarily completed by Pyrologix, LLC under contract with the USDA Forest Service, Fire Modeling Institute.

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<sup>&</sup>lt;sup>35</sup> Long, Alan, Jarek Nowak, Chris Demers, Rick Williams, Nicole Strong, Jib Davidson, and John Holzaepfel. "Assessment and management of hurricane damaged timberland." EDIS 2005, no. 4 (2005).

<sup>36</sup>https://www.scientificamerican.com/article/hurricane-aftermath-leaves-florida-with-years-of-major-wildfire-threat/

<sup>&</sup>lt;sup>37</sup> Dillon, G.K.; J. Menakis; and F. Fay. 2015. Wildland Fire Potential: A Tool for Assessing Wildfire Risk and Fuels Management Needs. pp 60-76 In Keane, R. E.; Jolly, M.; Parsons, R.; and Riley, K. Proceedings of the large wildland fires conference; May 19-23, 2014; Missoula, MT. Proc. RMRS-P-73. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 345 p

<sup>38</sup> https://www.firelab.org/project/wildfire-hazard-potential

Figure 18 above shows that vegetation in a large portion of the southern tip of the state is in such a conditions that may lead to a higher potential for wildfires that are more difficult to respond to. These areas where management and mitigation strategies to reduce forest vulnerability to both hurricanes and wildfire risk may be most impactful.

### 2.4.5 Coastal Erosion

Coastal erosion is the wearing away of land or the removal of beach or dune sediments by wave action, tidal currents, wave currents or drainage. Some erosion changes are slow, inexorable and gradual. However, the changes on a beach can happen overnight, especially during a storm.

Hurricanes and other extreme storms can generate storm surge and large waves, which erode the beach and dune system and can reshape the coastal landscape<sup>39</sup>. For example, the photos below show an area of the Florida Keys in June of 2015, and then the same location on September 11, 2017 several days after Hurricane Irma's landfall where the beach and dune system was heavily impacted.

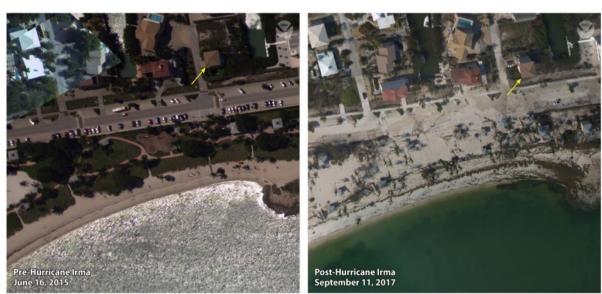


Figure 19: Forida Keys, Post Hurricane Irma Erosion

Source Images from USGS.gov, Hurricane Irma - Forecast and Documentation of Coastal Change

According to the Beach Management Funding Assistance Program (formerly the Beach Erosion Control Program) within the Florida Department of Environmental Protection, there are many stretches of shoreline that have been critically eroded. As part of the State's goal to combat coastal erosion, the Florida Department of Environmental Protection was charged with the responsibility to identify beaches of the state which are critically eroding and develop and maintain a comprehensive long-term management plan for their restoration, including developing an annual Critically Eroded Beaches Report and the Strategic Beach Management Plan. This plan provides a listing of Florida's eroded beaches in which there is a threat to, or loss of, upland development, recreation, wildlife habitat and/or important cultural resources. Critically-eroded beaches are those in which there is a threat to, or loss of, upland development, recreation, wildlife habitat and/or important cultural resources Non-critically-eroded beaches are those in which there may be significant erosion conditions, but there is no current public or private interest threatened. According to the 2020 report, over half (422.7 of 825 miles) of the state's coastline

<sup>&</sup>lt;sup>39</sup>USGS National Assessment of Storm-Induced Coastal Change Hazards, accessed from: <a href="https://www.usgs.gov/natural-hazards/coastal-marine-hazards-and-resources/science/national-assessment-storm-induced?qt-science\_center\_objects=0#qt-science\_center\_objects</a>

fronting the Atlantic Ocean, the Gulf of Mexico and the Straits of Florida is critically eroded, which is shown in Figure 20<sup>40</sup>.

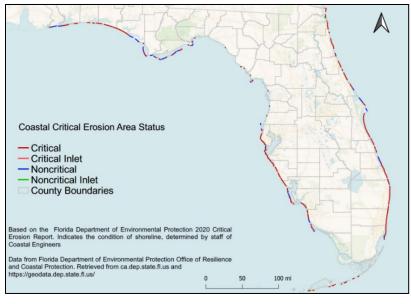


Figure 20: Coastal Critical Erosion Areas of Florida

Source: USGS.gov, Hurricane Irma - Forecast and Documentation of Coastal Change

While Figure 20 above provides a state-level view of areas of critical erosion, the complete inventory of erosion areas at a more granular level provided in the most recent "Critically Eroded Beaches in Florida" report from the Florida DEP Office of Resilience and Coastal Protection should be utilized when considering specific erosion related planning or mitigation measures.

Both global eustatic sea level rise (the distance from the earth's center to the surface of the sea) and the increased frequency of higher intensity hurricanes can affect coastal erosion. Continued atmospheric warming could also increase rates of global eustatic sea level rise. In the absence of offsetting changes in natural sediment supply, sand beaches will erode more rapidly as the rate of sea level rise increases.

# 2.4.6 Climate Influences Storm Frequency

Hurricane Michael made landfall in October, more than a month later than all previous equally powerful storms. It was the strongest landfalling U.S. hurricane so late in the year. One explanation for this is the exceptionally warm ocean waters in the eastern Gulf of Mexico which powered Michael  $^{41,42}$ . Florida had its warmest September on record prior to Michael and this helped heat up the waters of the eastern Gulf to  $2-4^{\circ}F$  ( $1-2^{\circ}C$ ) above average  $^{43}$ . A warmer climate makes record-setting warm Septembers like Florida experienced more likely to occur, and thus makes powerful late-season hurricanes like Michael more likely to occur  $^{44,45}$ .

<sup>&</sup>lt;sup>40</sup> Division of Water Resource Management Florida Department of Environmental Protection; "Critically Eroded Beaches in Florida", Retrieved from <a href="https://floridadep.gov/sites/default/files/FDEP">https://floridadep.gov/sites/default/files/FDEP</a> Critically%20Eroded%20Beaches 2020 FINAL.pdf

<sup>41</sup>https://www.wunderground.com/cat6/Potentially-Catastrophic-Hurricane-Michael-Nearing-Landfall-Florida-Panhandle

<sup>42</sup> https://science2017.globalchange.gov/chapter/13/

<sup>43</sup> https://www.wunderground.com/cat6/Active-and-Destructive-2018-Atlantic-hurricane-Season-Ends

<sup>44</sup> https://www.wunderground.com/cat6/Potentially-Catastrophic-Hurricane-Michael-Nearing-Landfall-Florida-Panhandle

<sup>45</sup> https://science2017.globalchange.gov/chapter/9/

# 2.5 Social Vulnerability

Florida prioritizes the fair and equitable treatment of vulnerable populations which are historically neglected during disaster recovery and in the consideration of long-term risk resilience and mitigation measures. The Federal Register requires Florida to assess how the use of CDBG-MIT funds may affect members of protected classes under fair housing and civil rights laws, racially and ethnically concentrated areas, as well as concentrated areas of poverty.

Throughout the lifecycle of the CDBG-Mitigation program DEO will ensure special care will be taken by DEO staff members, subrecipients and contractors regarding all protected populations. An analysis of how risk is not spread equitably throughout the state was included in the Risk Based Mitigation Needs Assessment. Analysis from the Risk Based Needs assessment ties directly to the programs presented in the Action Plan. Further, through a competitive application process, specific program projects will be selected with high consideration of special populations. Current proposed usage of the CDBG-MIT funds is focused on hardening critical facilities, updating or creating mitigation plans and general infrastructure. The scoring criteria for each of these programs is weighted heavily in favor of vulnerable and minority populations.

If a holistic understanding of disaster risk is to be achieved, it is important to incorporate aspects of multiple hazards (natural systems), social vulnerability (social systems) and built-environment vulnerability (human-constructed systems). Hazards that are uniform across considerable distances often result in widely divergent impacts and recovery rates for those who are affected. Social vulnerability describes this differential susceptibility of people based on social, economic, political and institutional factors. As these communities rebuild, the state will focus its planning and outreach efforts to ensure that rebuilding is equitable across all neighborhoods.

All communities exhibit varying degrees of physical vulnerability to potential disaster, but it is a community's social vulnerability that may determine how well it fares in a disaster. The socially vulnerable are often less prepared for disaster, and less likely to fully recover.

**Table 14: Demographic Profile of MID Counties** 

2016-2017 MIDs	Total Populatio	Percent	Percent	Percent Persons with	Percent	Total House	Percent Single- Parent HHs with Children Under
2018 MIDs*	n	Minority	Hispanic	Disabilities	LMI	holds (HH)	18 Years Old
		HUD	Most Impact	ed and Distres	sed Areas		
Bay *	182,482	15.4	6.3	19.5	34.42	70,199	8.66
Brevard	576,808	14.7	10.0	15.6	40.79	228,888	7.16
Broward	1,909,151	36.3	29.1	11.0	46.84	682,088	9.79
Calhoun*	14,444	16.9	5.8	22.0	40.45	4,556	7.53
Clay	207,291	15.9	9.7	13.6	34.50	73,398	9.57
Collier	363,922	10.8	27.5	11.4	43.55	140,942	6.82
Duval	924,229	36.8	9.3	13.5	45.57	354,387	10.77
Franklin*	11,736	17.8	5.4	21.8	37.48	4,297	4.98
Gadsden*	46,017	57.6	10.1	20.1	58.37	17,080	13.06
Gulf*	16,055	20.4	4.7	18.6	39.98	5,359	7.58
Hillsborough	1,378,883	26.6	28.0	11.5	40.78	516,478	10.26

Jackson*	48,472	29.6	4.8	19.6	43.66	16,894	10.23
Lee	718,679	13.6	20.7	13.6	41.77	271,861	7.40
Liberty*	8,365	17.4	5.8	24.5	30.75	2,381	10.12
Miami Dade	2,715,516	23.5	68.0	10.1	54.73	870,051	10.82
Monroe	76,325	10	23.9	11.1	49.52	30,982	6.65
Orange	1,321,194	33.4	30.9	10.9	42.86	458,613	10.81
Osceola	338,619	24	53.0	14.4	48.71	99,158	11.02
Palm Beach	1,446,277	24.3	21.9	12.3	45.10	548,216	7.69
Polk	668,671	19.9	21.5	15.4	39.15	231,260	9.55
St. Johns	235,503	9.5	6.7	11.3	29.29	86,268	6.13
St. Lucie	305,591	25	18.5	15.7	42.82	112,872	8.16
Volusia	527,634	15.8	13.4	17.0	41.13	212,985	7.30
Wakulla *	318,778	16.5	3.7	16.2	38.09	11,068	8.66
Washington*	24,566	18.1	3.6	19.6	40.51	8,484	10.07
		State	Most Impact	ed and Distre	ssed Areas		
Alachua	263,148	27.6	9.6	10.7	47.90	97,048	6.67
Baker	27,785	15.8	2.4	17.3	40.98	8,625	10.79
Bradford	26,979	21.2	4.0	19.9	38.12	8,993	10.36
Charlotte	176,954	8.1	7.0	21.9	39.13	76,150	4.33
Citrus	143,087	5.8	5.5	21.4	38.66	62,762	5.49
Columbia	69,105	20.6	6.0	19.5	40.08	24,985	7.64
DeSoto	36,399	15.3	31.2	14.1	50.14	11,996	10.30
Dixie	16,437	10.4	3.9	24.5	42.93	6,520	8.05
Flagler	107,139	15.7	10.1	16.0	37.36	40,629	5.91
Gilchrist	17,615	7.1	5.7	21.0	49.29	6,511	9.22
Glades	13,363	19.2	20.9	18.6	47.92	4,433	6.95
Hardee	27,228	18	43.5	10.1	51.46	7,772	11.75
Hendry	40,127	17.4	52.9	12.7	45.40	12,027	16.91
Hernando	182,696	8.4	12.9	19.1	45.23	73,541	7.38
Highlands	102,101	18	19.6	20.4	42.09	41,026	6.02
Holmes *	19,430	9.6	2.7	24.0	47.59	7,016	9.79
Indian River	150,984	11.9	12.3	16.6	42.08	57,403	3.90
Lafayette	8,744	18.8	14.4	17.2	39.17	2,095	8.78
Lake	335,362	14.9	14.9	16.4	39.86	130,190	7.58

Leon	288,102	36.1	6.3	11.4	46.55	112,918	8.59
Levy	39,961	10.2	8.2	19.9	43.74	16,433	7.94
Manatee	373,853	12.8	16.2	14.1	43.64	143,652	7.19
Marion	348,371	15.9	12.7	18.1	38.74	136,514	7.36
Martin	157,581	10.7	13.4	15.2	34.05	63,865	4.78
Nassau	80,578	8.1	4.0	16.0	39.43	31,241	8.30
Okeechobee	40,572	12.4	25.2	15.2	52.01	13,759	10.01
Pasco	510,593	10.1	14.5	16.2	41.35	199,227	8.02
Pinellas	957,875	15.7	9.4	15.3	39.87	407,720	6.93
Putnam	72,766	17.9	9.9	18.0	48.58	28,264	7.94
Sarasota	412,144	7.2	9.0	15.5	38.61	180,551	4.98
Seminole	455,086	19.9	20.7	10.3	33.12	167,304	7.67
Sumter	120,999	10.1	5.7	19.6	31.68	54,636	1.92
Suwannee	43,924	14.3	9.0	19.5	44.56	15,083	10.62
Taylor	22,098	24.6	4.2	22.7	40.91	7,356	6.63
Union	15,239	24.6	5.5	15.4	41.52	3,892	11.97
Wakulla	318,778	16.5	3.7	16.2	38.09	11,068	8.66

Source: American Community Survey (2018), U.S. Census Bureau46

# 2.5.1 Social Vulnerability Index

The Hazard and Vulnerability Research Institute's Social Vulnerability Index (SoVI<sup>®</sup>) measures the social vulnerability of U.S. counties to environmental hazards. This index synthesizes 29 socioeconomic variables that impact a community's ability to prepare for, and respond to, disasters<sup>47</sup>. The index of variables includes, but is not limited to, age, sex, race, income and unemployment rate. A full list of variables is located in **Appendix C**.

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<sup>46</sup> Peterson, Robert. 2019. Low- and Moderate-Income Summary Data, based on 2011-2015 ACS. Housing and Urban Development. <a href="https://hud.maps.arcgis.com/home/item.html?id=ffd0597e8af24f88b501b7e7f326bedd">https://hud.maps.arcgis.com/home/item.html?id=ffd0597e8af24f88b501b7e7f326bedd</a>

<sup>&</sup>lt;sup>47</sup> Hazards & Vulnerability Research Institute, "Social Vulnerability Index for the United States - 2010-2014" Retrieved from <a href="http://artsandsciences.sc.edu/geog/hvri/sovi%C2%AE-0">http://artsandsciences.sc.edu/geog/hvri/sovi%C2%AE-0</a>

Social Vulnerability to Environmental Hazards
State of Florida

County Comparison Within the Nation

County Comparison within the State

National Quantiles

N High (Top 20%)

Medium Low (Bottom 20%)

Medium High

Low (Bottom 20%)

Social Vulnerability Index 2010-2014

Figure 21: Social Vulnerability Map

Source: Hazards Vulnerability Research Institute, Retrieved from: <a href="http://artsandsciences.sc.edu/qeoq/hvri/sovi%C2%AE-2010-2014-state-maps">http://artsandsciences.sc.edu/qeoq/hvri/sovi%C2%AE-2010-2014-state-maps</a>

# 2.5.2 Demographic Profile of MID Areas

In addition to the information provided by SoVI®, the state is considering demographic characteristics and their connection to risk during disasters in state and HUD MID areas. Communities with higher percentages of socially-vulnerable residents are impacted adversely at a rate that is higher than state-wide averages. These demographics are presented in Table 15 and Table 16.

#### 2016-2017 Disaster affected areas

Table 15: Demographic Profile of MID Areas for 2016-2017 CDBG-MIT Allocation

Demographic Profile Information - American Community Survey (2018) <sup>48</sup>				
Socio-Demographic Characteristics	Designated MID Area Average <sup>49</sup>	Florida		
Population				
Population estimates, July 1, 2018, (V2018)	20,321,514	21,299,325		
Age and Sex				
Persons under 5 years, percent	5.18%	5.40%		
Persons under 18 years, percent	19.81%	19.90%		
Persons 65 years and over, percent	22.63% 20.50%			
Race				
White alone, percent	81.50%	77.30%		

<sup>&</sup>lt;sup>48</sup> Margin of Error: All ACS estimates published on AFF have Margins of Error calculated at the 90% confidence level.

<sup>&</sup>lt;sup>49</sup> This column depicts data averages across MID areas.

Black or African American alone, percent	13.24%	16.90%	
American Indian and Alaska Native alone, percent	0.69%	0.50%	
Asian alone, percent	1.90%	3.00%	
Native Hawaiian and Other Pacific Islander alone, percent	0.11%	0.10%	
Two or More Races, percent	2.06%	2.20%	
Hispanic or Latino, percent	18.55%	26.10%	
White alone, not Hispanic or Latino, percent	65.08%	53.50%	
Population Characteristics			
Veterans, 2013-2017	1,318,833	1,454,632	
Foreign born persons, percent, 2013-2017	12.71%	20.20%	
Language other than English spoken at home, percent of persons age 5 years+, 2013-2017	18.63% 28.70%		
Education			
High school graduate or higher, percent of persons age 25 years+, 2013-2017	84.40%	87.60%	
Bachelor's degree or higher, percent of persons age 25 years+, 2013-2017	21.75% 28.50%		
Health			
With a disability, under age 65 years, percent, 2013-2017	10.22%	8.60%	
Persons without health insurance, under age 65 years, percent	16.39%	16.00%	
Economy			
In civilian labor force, total, percent of population age 16 years+, 2013-2017	52.40%	58.40%	
Median household income (in 2017 dollars), 2013-2017	\$ 47,193.58 \$ 50,883.00		
Per capita income in past 12 months (in 2017 dollars), 2013-2017	\$ 25,697.50	\$ 28,774.00	
Persons in poverty, percent	17.98%	13.60%	

As illustrated in Table 15, the areas impacted by 2016-2017 disasters have a higher percentage of elderly residents (22.6%) per county as compared to the state average (20.5%). On average these counties also have more people with disabilities, more uninsured residents, lower median income households, lower per capita incomes and more people living in poverty than in the state as a whole. Poverty is an indicator of places that might see greater impacts from disasters because of a general lack of ability to prepare and plan for shocks and stresses.

## **2018 Disaster affected Areas**

Table 16: Demographic Profile of MID Areas for 2018 CDBG-MIT Allocation

Demographic Profile Information - American Co	mmunity Survey (2018)				
Socio-Demographic Characteristics	Designated MID Area Average	Florida			
Population					
Population estimates, July 1, 2018, (V2018)	403,444	21,299,325			
Age and Sex					
Persons under 5 years, percent	5.58%	5.40%			
Persons under 18 years, percent	20.59%	19.90%			
Persons 65 years and over, percent	17.10%	20.50%			
Race					
White alone, percent	75.44%	77.30%			
Black or African American alone, percent	18.93%	16.90%			
American Indian and Alaska Native alone, percent	0.60%	0.50%			
Asian alone, percent	1.32%	3.00%			
Native Hawaiian and Other Pacific Islander alone, percent	0.10%	0.10%			
Two or More Races, percent	2.63%	2.20%			
Hispanic or Latino, percent	5.88%	26.10%			
White alone, not Hispanic or Latino, percent	70.91%	53.50%			
Population Characteristic	S				
Veterans, 2013-2017	40,413	1,454,632			
Foreign born persons, percent, 2013-2017	4.50%	20.20%			
Language other than English spoken at home, percent of persons age 5 years+, 2013-2017	6.50%	28.70%			
Education					
High school graduate or higher, percent of persons age 25 years+, 2013-2017	82.15%	87.60%			
Bachelor's degree or higher, percent of persons age 25 years+, 2013-2017	15.07%	28.50%			
Health					
With a disability, under age 65 years, percent, 2013-2017	14.34	8.60%			
Persons without health insurance, under age 65 years, percent	11.01	16.00%			
Economy					

In civilian labor force, total, percent of population age 16 years+, 2013-2017	53.04	58.40%		
Median household income (in 2017 dollars), 2013-2017	ld income (in 2017 dollars), 2013-2017 \$43,344.50			
Per capita income in past 12 months (in 2017 dollars), 2013-2017	\$21,047.50	\$ 28,774.00		
Persons in poverty, percent	17.92%	13.60%		

Source: 2018 Disaster MID Area data is based on 2014-2018 ACS 5-year Estimates using Table DP05 (Demographic/Housing Estimates), Table DP02 (Select Social Characteristics), and Table DP03 (Select Economic Characteristics)

As illustrated in Table 16, the areas impacted by 2018 disasters have a higher percentage of residents under the age of 65 with a disability (14.34%) per county as compared to the state average (8.6%). On average the percentage of population living in poverty in these counties (17.92%) is higher when compared to the state's percentage of (13.60%). Poverty is an indicator of places that might see greater impacts from disasters because of a general lack of ability to prepare and plan for shocks and stresses.

# 2.5.3 Impact on Low-and-Moderate Income Populations

All projects supported by HUD Community Development Block Grant (CDBG) assistance must meet one of the program's three National Objectives: (1) benefiting low-and-moderate income (LMI) persons, (2) meeting a particularly urgent need or (3) aiding in the prevention or elimination of slums or blight. This CDBG-MIT allocation is focused on addressing LMI and Urgent Needs.

Low-and Moderate-Income households are defined as households whose income does not exceed 50% of area median income (low) and those that do not exceed 80% of the median income (moderate) for their area, as determined by HUD. These income categories are grouped into the following classifications:

- Very low income: with an annual income at 30% or below the area median income
- Low income: with an annual income at 31% of up to 50% of the area median income
- Moderate income: with an annual income at 50% to 80% of the area median income

For the purpose of the CDBG-MIT programs, a minimum of 50% of funds must benefit LMI persons. Every Florida county has areas that fall within the threshold of LMI income households. In Table 17, data regarding the LMI income population estimates are based upon HUD's LMI Summary Data (2011-2015 ACS). Attention will be paid to how programs and project benefits will directly meet the needs of these populations.

Table 17 depicts the estimated counts of LMI populations within the Florida Panhandle and provides percentages of LMI individuals who comprise the total eligible county population <sup>50</sup>.

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<sup>&</sup>lt;sup>50</sup> Eligible population: The Community Planning and Development Office uses the Census Bureau's definition of persons eligible, which removes persons in group housing such as college students, jails and nursing homes.

**Table 17: LMI Population Summary of MID Counties** 

Table Key			
LOW	Low Income		
LOW MOD	Low and Moderate Income		
LOW MOD_PCT	Percentage of the eligible population who are LMI		
2016-2017 State MID Areas	2018 State MID Areas		
2016-2017 HUD MID Areas	2018 HUD MID Areas		

Low and Moderate-Income Populations Summary (ACS 5-Year 2011-2015)							
NAME	LOW	LOW MOD	LOW MOD PCT	NAME	LOW	LOW MOD	LOW MOD PCT
Alachua County	79,229	114,030	47.9%	Lake County	66,025	122,220	39.86%
Baker County	6,320	10,085	40.98%	Lee County	154,249	273,063	41.77%
Bay County	39,065	69,270	40.12%	Leon County	85,050	125,365	46.55%
Bradford County	6,125	9,090	38.12%	Levy County	9,845	17,175	43.74%
Brevard County	124,830	223,160	40.79%	Liberty County	1,425	2,990	44.46%
Broward County	513,920	855,715	46.84%	Manatee County	87,505	148,010	43.64%
Calhoun County	3,050	5,775	45.82%	Marion County	71,645	127,110	38.74%
Charlotte County	32,415	63,510	39.13%	Martin County	27,255	50,355	34.05%
Citrus County	30,005	53,120	38.66%	Miami-Dade County	918,603	1,418,853	54.73%
Clay County	37,380	67,660	34.5%	Monroe County	21,600	36,455	49.52%
Collier County	84,240	146,720	43.55%	Nassau County	15,945	29,660	39.43%
Columbia County	15,330	25,270	40.08%	Okeechobee County	10,595	18,775	52.01%
DeSoto County	9,025	15,675	50.14%	Orange County	303,619	512,634	42.86%
Dixie County	3,645	6,255	42.93%	Osceola County	81,065	145,325	48.71%
<b>Duval County</b>	240,430	397,200	45.57%	Palm Beach County	370,370	612,920	45.1%
Flagler County	20,365	37,460	37.36%	Pasco County	107,225	195,210	41.35%
Franklin County	2,270	3,470	35.64%	Pinellas County	210,105	364,484	39.87%
Gadsden County	15,420	25,065	58.37%	Polk County	134,999	239,760	39.15%
Gilchrist County	5,135	7,755	49.29%	Putnam County	22,815	34,550	48.58%
Glades County	2,795	5,715	47.92%	St. Johns County	34,380	60,890	29.29%
Gulf County	2,570	5,025	37.35%	St. Lucie County	70,630	122,035	42.82%
Hardee County	7,510	13,040	51.46%	Sarasota County	80,980	149,210	38.61%
Hendry County	10,360	16,370	45.4%	Seminole County	79,220	143,535	33.12%
Hernando County	43,970	78,125	45.23%	Sumter County	16,580	31,210	31.68%
Highlands County	22,155	40,680	42.09%	Suwannee County	11,510	18,730	44.56%
Hillsborough County	304,965	522,705	40.78%	Taylor County	3,605	7,590	40.91%
Holmes County	5,320	8,435	47.59%	Union County	2,355	4,160	41.52%
Indian River County	33,665	59,450	42.08%	Volusia County	112,750	202,905	41.13%
Jackson County	10,809	17,955	43.66%	Wakulla County	5,655	10,480	47.82%
Lafayette County	1,905	2,740	39.17%	Washington County	5,555	8,900	40.51%

Source: HUD, ACS 5-Year 2011-2015 Low- and Moderate-Income Summary Data, Retrieved from: https://www.hudexchange.info/programs/acs-low-mod-summary-data/

### 2.5.4 Protected Classes

Florida DEO prioritizes the fair and equitable treatment of vulnerable populations which are historically neglected during disaster recovery and in the consideration of long-term risk resilience and mitigation measures. As part of HUD's requirement to assess how the use of CDBG-MIT funds may affect members of protected classes under fair housing and civil rights laws, the State's analysis of mitigation needs has given consideration to vulnerable populations in relation to disaster impacts and potential mitigation activities.

The federally protected classes under the Fair Housing Act are race, color, national origin, religion, sex, familial status, and disability. These protected classes make up an important component of the State of Florida's analysis.

#### 2.5.4.1 Race

While all members of populations are affected by disasters, research findings show that racial and ethnic minorities are less likely to evacuate and may be more affected by disasters and preparedness efforts should fully integrate factors related to race, culture, and language into risk communication, public health training, measurement, coordination, and policy at all levels<sup>51</sup>. Figure 22 shows the percentage of the population for each county in Florida that identifies as minority, which is noted to be all persons except those who are white, non-Hispanic.

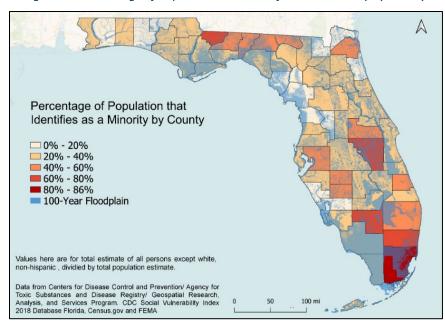


Figure 22: Percentage of Population that Identifies as a Minority by County

Across the state, there are several counties where the population of minorities is more than 50% of the total population in the county, notably Miami-Dade County which was heavily impacted by Hurricane Irma. Figure 23 below shows the same data but focused for the counties impacted by Hurricane Michael.

<sup>51</sup> Andrulis, Dennis P., Nadia J. Siddiqui, and Jenna L. Gantner. "Preparing racially and ethnically diverse communities for public health emergencies." Health Affairs 26, no. 5 (2007): 1269-1279.

Percentage of Population that Identifies as a Minority by County for Area Impacted by Hurricane Michael

0% - 20%
20% - 40%
40% - 60%
60% - 80%

Figure 23:Percentage of Population that Identifies as a Minority by County for Area Impacted by Hurricane Michael

Of the counties impacted by Hurricane Michael, Gadsden County has the highest percentage of population that identifies as minority.

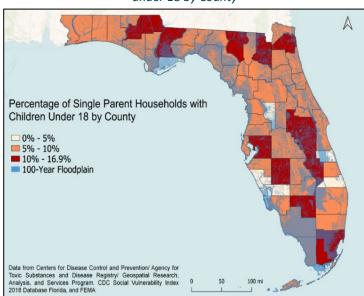


Figure 24: Percentage of Single Parent Households with Children under 18 by County

2018 Database Florida, Census.gov and FEMA

■ 80% - 86% ■ 100-Year Floodplain

Values here are for total estimate of all persons except white, non-hispanic, dividied by total population estimate.

Data from Centers for Disease Control and Prevention/ Agency for Toxic Substances and Disease Registry/ Geospatial Research, Analysis, and Services Program. CDC Social Vulnerability Index

### 2.5.4.2 Family Status

100 mi

All families with children are protected by the federal Fair Housing Act against familial status discrimination. including single-parent households and same-sex couples with children<sup>52</sup>. Family status and household composition also plays a critical factor in the immediate response to a disaster as well as long term recovery. For example, emergency evacuations can be financially burdensome. An analysis of lessons learned from Hurricane Katrina noted that concerns about money, property, or jobs impeded evacuation in several ways<sup>53</sup>. Figure 24 shows the percentage of single parent households with children under 18 by county for the state level, and the following Figure 25 shows a closer view of the counties impacted by Hurricane Michael.

<sup>52&</sup>lt;a href="https://www.fairhousingnc.org/know-your-rights/familial-status/#:~:text=Familial%20Status%20Housing%20Discrimination&text=All%20families%20with%20children%20are,same%2Dsex%20couples%20with%20children.">https://www.fairhousingnc.org/know-your-rights/familial-status/#:~:text=Familial%20Status%20Housing%20Discrimination&text=All%20families%20with%20children%20are,same%2Dsex%20couples%20with%20children.

<sup>&</sup>lt;sup>53</sup> Eisenman, D. P., Cordasco, K. M., Asch, S., Golden, J. F., & Glik, D. (2007). Disaster planning and risk communication with vulnerable communities: lessons from Hurricane Katrina. American journal of public health, 97 Suppl 1(Suppl 1), S109–S115. <a href="https://doi.org/10.2105/AJPH.2005.084335">https://doi.org/10.2105/AJPH.2005.084335</a>

Single parent households with children under 18 years old account for approximately 8.6% of all households statewide. The share of single parent households among all MID designated counties is nearly identical to the state as a whole. However, 23 of the 61 MID designated counties exceed the state percentage of single parent households with children under 18 years old. Two counties in particular include a disproportionate share of single parent households. Gadsden County's share is over 50% higher than the statewide percentage and Hendry County's share of single parent households is 17%, which is twice as high the statewide share.

Percentage of Single Parent Households with
Children Under 18 by County for Area Impacted
by Hurricane Michael

0% - 5%
5% - 10%
10% - 16.9%
100- Year Floodplain

Data from Centers for Disease Control and Prevention/ Agency for Toxic
Substances and Disease Registry/ Geospatial Research, Analysis, and Services
Program. CDC Social Vulnerability Index 2018 Database Florida, and FEMA
50
100 mi

Figure 25: Percentage of Single Parent Households with Children Under 18 by County for Area Impacted by Hurricane Michael

### 2.5.4.3 Disability

For members of the population with a disability, the response to and impacts of a disaster pose particularly unique challenges. Evacuation, especially on short notice, for someone who has issues with mobility or whose daily

activities require additional travel time or transportation assistance is a more difficult task. People with visual and hearing disabilities may also experience difficulty with respect to obtaining necessary information related to disasters. Figure 26 shows the percent of each county population with a disability. In many counties impacted by Irma, the percentage of the population with a disability exceeds 20%.

Figure 27 below shows the percent of each county population with a disability for the area impacted by Hurricane Michael. Much like the counties impacted by Irma, many of these have populations where the percentage of people with disabilities is over 20%. For this reason, mitigation activities and funds should especially consider the impacts on disabled populations.

Percent of Population\* with a
Disability by County

0% - 10%
10% - 15%
15% - 20%
20% - 24.5%
100-Year Floodplain

Centers for Disease Control and Prevention/ Agency for Toxic Substances and
Disease Registry/ Geospatial Research, Analysis, and Services Program. CDC
Social Vulnerability Index 2018 Database Florida, and FEMA
5 50 100 mi

\*Civilian, Noninstitutionalized Estimate

Figure 26: Percent of Population with a Disability by County

Figure 27: Percent of Population with a Disability by County for Area Impacted by Hurricane Michael

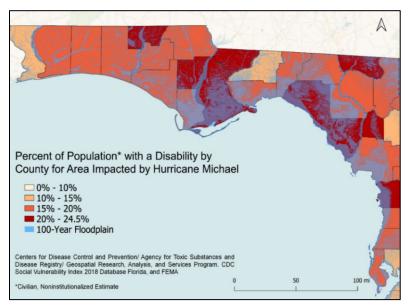
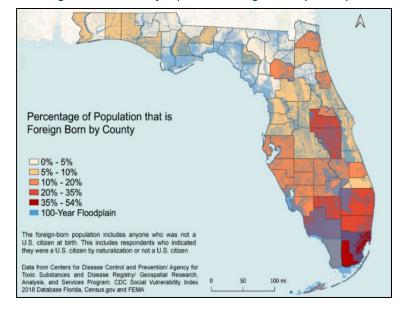


Figure 28: Percent of Population Foreign Born by County



### 2.5.4.4 Foreign Born

Foreign born persons include anyone who was not a U.S. citizen at birth, and includes American Community Survey respondents who indicated they were a U.S. citizen by naturalization or not a U.S. citizen. Across the state of Florida, the total population of foreign born persons is just over 20%, with MID counties accounting for 21%. Figure 28 and Figure 29 show the percentage of foreign born population in each county both at the state level and for the area impacted by Hurricane Michael.

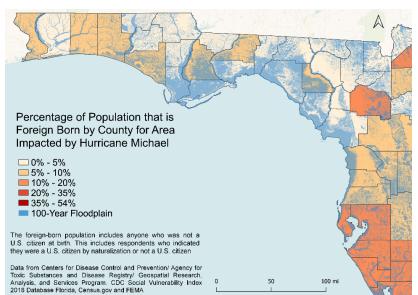


Figure 29: Percent of Population Foreign Born by County for Area Impacted by Hurricane Michael

As stated in the introduction of the Social Vulnerability section of this Action Plan, through a competitive application process, specific program projects will be selected with high consideration of special populations. Current proposed usage of the CDBG-MIT funds is focused on hardening critical facilities, updating or creating mitigation plans and general infrastructure. The scoring criteria for each of these programs is weighted heavily in favor of vulnerable and minority populations. Grantees are therefore encouraged to consider the impacts of proposed projects on these protected classes to ensure their most vulnerable populations are being served or not harmed by CDBG-MIT activities.

# 2.5.5 2018 CDBG-MIT Allocation: Fiscally-Constrained Counties

Fiscally-constrained counties (Figure 30: Fiscally Constrained Counties) are those which are within a rural area of opportunity as designated by the Governor pursuant to Florida Statute (F.S) 288.0656, or each county for which the value of a mill will raise no more than \$5 million in revenue, based on the taxable value certified pursuant to F.S 1011.62(4)(a)1.a. Florida Statute 288.0656 describes "economic distress" as conditions affecting the fiscal and economic viability of a rural community, including:

- Low per capita income;
- Low per capita taxable values;
- High unemployment;
- High underemployment;
- Low weekly earned wages compared to the State average;
- Low housing values compared to the State average;
- High percentages of the population receiving public assistance;
- High poverty levels compared to the State average; and
- A lack of year-round stable employment opportunities.

Figure 30: Fiscally Constrained Counties



Fiscally Constrained Counties
Per S. 218.67 (1), Florida Statutes

Calhoun Jackson

Franklin Liberty

Gadsden Wakulla

Gulf Washington

Holmes

Source: Property Tax Oversight, DOR

All nine of the 2018 HUD and State Identified MID areas receiving MIT funds in the Florida Panhandle: Calhoun, Franklin, Gadsden, Gulf, Holmes, Jackson, Liberty, Wakulla, and Washington are designated by the Governor as Fiscally-Constrained Counties. This designation indicates unmet needs in the Panhandle prior to Hurricane Michael, and punctuates those needs following the storm. See Figure 30: Fiscally Constrained Counties of Florida's fiscally-constrained counties.

# 2.5.6 Impact on Special Needs Populations

Florida will consider accessibility issues and functional needs of vulnerable populations in planning for and carrying out activities using CDBG-MIT funds. DEO will satisfy effective communications, language assistance needs and reasonable accommodations procedures required of recipients of Federal financial assistance. The state will implement HUD guidance to plan for the functional needs of persons with disabilities in the implementation of its CDBG-MIT programs. Florida will utilize specialized resources to plan for and accommodate the functional needs of persons with disabilities, persons with limited English proficiency and other vulnerable populations - including, but not limited to, public or private social services, information, interpreters, translators, and other services for those persons who may be visually or speech-impaired during the application and project-scoring process.

Of significant concern is housing which typically serves vulnerable populations, including mixed-population public housing, transitional housing, permanent supportive housing, permanent housing serving individuals and families (including subpopulations) that are homeless and at-risk of homelessness, and single room occupancy (SRO) housing. An analysis of the housing needs of special and vulnerable populations was conducted during the development of the Disaster Recovery Action Plans for both Hurricane Irma and Hurricane Michael. The Irma and Michael Housing Repair and Replacement programs ensure that these populations' housing needs are not ignored.

While the state currently has no plans to fund housing programs with the CDBG-MIT funds, it recognizes and will put forth every reasonable effort to accommodate the needs of vulnerable populations including children, senior citizens, persons with disabilities, persons from diverse cultures, immigrants, transportation disadvantaged, homeless persons, persons with chronic medical disorders and persons with limited English or who are altogether non-English speaking. The state certifies that it will conduct and carry out grant expenditures in conformity with Title VI of the Civil Rights Act of 1964 (42 USC 2000d) and the Fair Housing Act (42 USC 3601-3619) and implementing regulations, and that it will affirmatively further fair housing as applicable to its projects.

Individuals with functional needs will require assistance with accessing and/or receiving mitigation benefits and resources. These individuals could be children, older adults, pregnant women, individuals from diverse cultures, people who are transportation-disadvantaged, the homeless and individuals with chronic medical disorders and/or a pharmacological dependency. These individuals could also have disabilities, live in institutions, have limited English proficiency or be non-English speaking. We will work in partnership with Florida's Agency for Persons with Disabilities to ensure accommodation of vulnerable populations throughout the life of the program.

Specialized resources may include, but are not limited to, public or private social services, accommodations, information, transportation or medications to maintain health. Regardless of the nature of the need, care must be taken to ensure that all special need individuals are beneficiaries of mitigation activities.

The LMI Summary Data may be used by CDBG grantees to determine whether a CDBG-funded activity qualifies as meeting the LMI national objective. The LMI percentages are calculated at various principal geographies provided by the U.S. Census Bureau.

While the program areas included in this Action Plan do not define eligibly based on protected class status, the state is prioritizing both disaster risk mitigation and benefit to LMI households. The State is not using these CDBG-MIT funds to provide housing.

# 2.6 Community Lifelines

HUD requires that grantees assess their mitigation needs in a manner that effectively addresses risks to indispensable services. To accomplish this, the community lifeline construct is used to enable decision-makers to characterize and identify the root causes of priority issue areas and to create effective solutions. Community lifelines enable the continuous operation of government functions and critical businesses that are essential to human health and safety or economic security<sup>54</sup>.

Community lifelines are made up of the seven critical service areas displayed in Figure 31. Each of these lifelines are discussed with relevance to state capabilities and critical facilities. The guiding principles of the FEMA BRIC (Building Resilient Infrastructure and Communities) program, such as partnership promotion, large scale projects and supporting communities through capability and capacity building, help to inform the vision of the CDBG-MIT program goals.

Safety and Security

Security

Security

Shelter

Figure 31: Community Lifeline Components

Source: FEMA, "Community Lifelines Implementation Toolkit: Comprehensive Information and Resources for Implementing
Lifelines During Incident Response"

# 2.6.1 Safety and Security

Government services, law enforcement and search and rescue teams are key entities in the network of operators who deliver robust safety and security capabilities. Disaster conditions can greatly impact the capabilities of response activities necessary to stabilize the conditions of safety and security. Floods and severe winds can have major impacts on emergency operation centers and the infrastructure needed to deliver necessary resources to rescue survivors of life-threatening circumstances. For instance, several days after Hurricane Michael passed through the state, multiple public safety facilities still had limited functionality which hampered their ability to service their communities<sup>55</sup>.

Several jurisdictions throughout the state have emergency operations centers which are outdated and vulnerable to hazards. In the aftermath of Hurricane Michael, nearly 2,000 additional law enforcement personnel and 437

<sup>54</sup> https://www.fema.gov/emergency-managers/practitioners/lifelines

<sup>55</sup> The Florida State Emergency Response Team, "Current Disaster Updates: Situation Report No. 7""

additional ambulances were deployed to the Panhandle to assist with emergency lifesaving missions<sup>56</sup>. Further development of capacity and resources will minimize loss of life by mitigating threats to operations of response and recovery teams.

In Jackson County, the Federal Correctional Institution (FCI) Marianna remained closed for repairs until March 2020 due to significant structural damage caused by Hurricane Michael. The prison complex, a medium security facility and work camp with the capacity to house an estimated 1,200 and 1,400 prisoners, is critical to the protection of economic security for the community as it employed 300 of Marianna's 7,000 residents<sup>57</sup>.

In a study produced by Florida Atlantic University's Center for Urban & Environmental Solution, which has implications for the Safety and Security Lifeline, levels of evacuation preparedness among Florida counties were assessed. <sup>58</sup>The FAU study found that many counties in the Florida Panhandle were less prepared for emergency evacuations than the rest of the state (Figure 32).

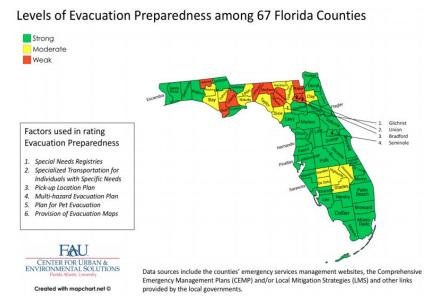


Figure 32: Levels of Evacuation Preparedness among 67 Florida Counties

Source: Florida Atlantic University Center for Urban & Environmental Solutions

Researchers reviewed six types of emergency plans for each Florida county and graded their effectiveness on a 0 to 2-point scale. A well-developed scheme scored 2 points and non-existent plans received a score of 0 points with a possible total of 12 points. In the end, several counties in northern Florida and the State's Panhandle received scores of fewer than four points (out of 12), which is deemed as "weak"<sup>59</sup>.

### 2.6.2 Communications

Communication is critical in times of disaster response and recovery. Failures in communications during disasters are most commonly due to physical damage to the devices or communication components of network infrastructure. Resilient telecommunications services can be the difference between life and death for both disaster victims and emergency response teams.

53

<sup>&</sup>lt;sup>56</sup>The State Emergency Response Team, "Hurricane Michael: After Action Report and Improvement Plan", Retrieved from https://portal.floridadisaster.org/SERT/AfterActionReports/Real-World%20AARs/Hurricane%20Michael%20AAR-IP%201-7-19.pdf

<sup>57</sup>https://www.rubio.senate.gov/public/index.cfm/press-releases?ID=23D9C70B-9C4F-45E8-8D0D-06AC65CD873F

<sup>58</sup> http://science.fau.edu/departments/urban-regional-planning/research/cues/research/evacuation/

<sup>59</sup> https://www.wired.com/story/hurricane-michael-florida-evacuation-plans/

During Hurricane Irma, one of the costliest storms to hit Florida, the communications sector did not fare well immediately after the storm. Communications to intelligent transportation system infrastructure and devices along state highways were sporadic at best. Traffic signal system infrastructure was devastated in the urbanized areas. At one point, more than 27% of cell towers across the state were out of service, with several counties (Collier, Hendry, Highlands, Lee, Miami-Dade and Monroe), experiencing outages of 50% or more<sup>60</sup>. While public and private response efforts proved resilient (within a week wireless service in the state was back up to 97%),

More than a year later, Hurricane Michael caused over 400,000 power outages and downed over 40,000 communication lines<sup>61</sup>. In the aftermath of Hurricane Michael, communications continued to pose a major problem. Wireless carriers and internet service providers, including the Florida Department of Transportation's wireless/cellular and internet service providers, continued to experience widespread outages. With no critical communications available to or from the Northwest Florida Regional Transportation Management Center, emergency responders were forced for some time to rely on the personal cellphone of one consultant for much of their critical communications<sup>62</sup>. The Federal Communications Commissions conducted an investigation to identify communications' providers preparedness for severe storms like Hurricane Michael. This investigation identified that the following insufficiencies contributed to the slow restoration of wireless service after Hurricane Michael: a lack of resilient backhaul connectivity and inadequate reciprocal roaming arrangements. Additionally, a lack of coordination between wireless providers and cleanup crews, contributed to continue loss of wireless services as cleanup crews inadvertently cleared or damaged communication equipment while clearing debris<sup>63</sup>.

Past events indicate that there is a rapid recovery capability within the communications sector but the high susceptibility to damage and outages poses significant risk to response and recovery efforts.

# 2.6.3 Food, Water, Sheltering

Coordination of food, water and shelter resources in major hazard events can be difficult, especially when the location of impact is wide-spread or uncertain. During hurricanes, stores have been severely limited in their ability to supply food along regular distribution lines. Stoppages and outages along highways and roads commonly result in the spoilage of perishable food. Analysts explain that Irma's size and path made it the perfect storm to cripple Florida's grocery supply lines impacting both suppliers and consumers<sup>64</sup>. During the week that Hurricane Michael made landfall, Florida saw a total of 11,400 weather-related food delivery delays<sup>65</sup>.

Hurricane Irma's path crossed some of Florida's most productive agricultural landscapes and consequently caused major losses to all segments of agriculture production. Total crop losses from Hurricane Irma were estimated at \$2 billion, while total losses to agriculture production were estimated at \$2.5 billion<sup>66</sup>. Half of Miami-Dade's agricultural crops were affected, resulting in damages of \$245 million. After Hurricane Michael, The Florida

<sup>&</sup>lt;sup>60</sup> Federal Communications Commission, "Communications Status Report for Areas Impacted by Hurricane Irma September 11, 2017", Retrieved from <a href="https://docs.fcc.gov/public/attachments/DOC-346655A1.pdf">https://docs.fcc.gov/public/attachments/DOC-346655A1.pdf</a>

<sup>&</sup>lt;sup>61</sup> State Emergency Response Team, "Hurricane Michael After Action Report and Improvement Plan, January 2019" Retrieved from <a href="https://portal.floridadisaster.org/SERT/AfterActionReports/Real-World%20AARs/Hurricane%20Michael%20AAR-IP%201-7-19.pdf">https://portal.floridadisaster.org/SERT/AfterActionReports/Real-World%20AARs/Hurricane%20Michael%20AAR-IP%201-7-19.pdf</a>

<sup>62</sup> Florida Department of Transportation, "One FDOT! Hurricane Michael Preparation, Response, and Recovery, Part I", Transportation Systems Management & Operations Disseminator, Retrieved from <a href="https://transops.s3.amazonaws.com/uploaded\_files/TSMO%20DISSEMINATOR.pdf">https://transops.s3.amazonaws.com/uploaded\_files/TSMO%20DISSEMINATOR.pdf</a>, p. 5

<sup>&</sup>lt;sup>63</sup> Florida Communications Commission press release following Hurricane Michael, Retrieved from <a href="https://docs.fcc.gov/public/attachments/DOC-357388A1.pdf">https://docs.fcc.gov/public/attachments/DOC-357388A1.pdf</a>

<sup>&</sup>lt;sup>64</sup>CNA Analysis and Solutions "Supply Chain Resilience and the 2017 Hurricane Season", Retrieved from <a href="https://www.cna.org/CNA\_files/PDF/IRM-2018-U-018098-Final.pdf">https://www.cna.org/CNA\_files/PDF/IRM-2018-U-018098-Final.pdf</a>

<sup>&</sup>lt;sup>65</sup> Kapadia, Shefali. 2021. "Florida Delivery Issues Jump 117% During Michael". Supply Chain Dive. <a href="https://www.supplychaindive.com/news/hurricane-michael-delivery-delays-convey/539792/">https://www.supplychaindive.com/news/hurricane-michael-delivery-delays-convey/539792/</a>.

<sup>66</sup> Her, Y.G. et al., "Hurricane Impacts on Florida's Agriculture and Natural Resources", Retrieved from http://edis.ifas.ufl.edu/ae528

Department of Agriculture and Consumer Service estimated that total losses to production agriculture were estimated at \$1.48 billion<sup>67</sup>.

Widespread damage to homes in Florida placed significant burdens on the emergency shelters positioned across the state. During Hurricane Irma, an estimated 6.5 million residents were ordered to evacuate; the largest evacuation in Florida history. Throughout the state, approximately 700 emergency shelters were opened, which collectively housed nearly 192,000 people<sup>68</sup>. For Hurricane Michael, it was estimated by the State Emergency Response Team that 375,000 Floridians were ordered to evacuate with over 6500 individuals seeking shelter in 44 shelters that were brought online in the hours before landfall<sup>69</sup>. The 2018 state-wide Emergency Shelter Plan shows that, though regional deficits still exist, on a state-wide aggregate basis, Florida has eliminated the deficit in general population public hurricane evacuation shelter space. However, a deficit of special needs shelter spaces continues to exist<sup>70</sup>. As the Florida population continues to increase, there will be an on-going need to maintain and continue to support hurricane evacuation shelter space.

## 2.6.4 Transportation

Figure 33: Impact of Hurricane Michael Storm
Surge on US 98



Source: The New York Times/Redux

Florida has a large transportation network that consists of airports, major highways, passenger railroads, marine ports and pipelines. These systems provide lifeline services for communities and are vitally important for response and recovery operations. In Florida, heavy rainfall events can disrupt transportation services and damage infrastructure and facilities. During or following periods of heavy rainfall, inundation and washouts can block transportation routes, damage facilities and interrupt power supplies.

Tropical cyclones can damage critical infrastructure such as roads and bridges, causing delays in critical response services and the ability to move throughout the state. For instance, during Hurricane Matthew, areas along the Atlantic coast sustained major infrastructure damage, including the main A1A highway, as multiple feet of storm surge and waves led to substantial coastal impacts<sup>71</sup>.

<sup>&</sup>lt;sup>67</sup> FDACS Hurricane Michael Agriculture Damage Assessment Report, 2018 Retrieved from <a href="http://nwdistrict.ifas.ufl.edu/phag/files/2018/11/FDACA-Hurricane-Michael-Agriculture-Damage-Assessment-Report.pdf">http://nwdistrict.ifas.ufl.edu/phag/files/2018/11/FDACA-Hurricane-Michael-Agriculture-Damage-Assessment-Report.pdf</a>

The State Emergency Response Team, "Hurricane Irma: After-Action Report/Improvement Plan", Retrieved from https://portal.floridadisaster.org/SERT/AfterActionReports/Real-World%20AARs/Irma%20AAR-IP%20Final.pdf

<sup>&</sup>lt;sup>69</sup> The State Emergency Response Team, Hurricane Michael After Action Report and Improvement Plan, January 2019 Retrieved from https://portal.floridadisaster.org/SERT/AfterActionReports/Real-World%20AARs/Hurricane%20Michael%20AAR-IP%201-7-19.pdf

The State Emergency Response Team, "Statewide Emergency Shelter Plan", Retrieved from <a href="https://www.floridadisaster.org/globalassets/dem/response/sesp/2018/2018-sesp-a1-main-plan-text\_final\_1-30-18.pdf">https://www.floridadisaster.org/globalassets/dem/response/sesp/2018/2018-sesp-a1-main-plan-text\_final\_1-30-18.pdf</a>

<sup>&</sup>lt;sup>71</sup> Florida Department of Environmental Protection, "Hurricane Damage Assessment report for 2016 Florida's Beaches and Dunes", Retrieved from https://floridadep.gov/sites/default/files/HurricaneDamageAssessmentReport 2016 0.pdf

Of the more than 12,000 bridges that stretch across Florida, 376 of them are designated as structurally deficient (SD), a classification used to identify bridges that need repair or replacement are at risk<sup>72</sup>.

The Panhandle's resiliency is inextricably linked to Transportation, which encompasses the ability for movement when needed throughout the state including evacuation routes. Along the coast, portions of U.S. 98 and Alligator Drive were washed out during Hurricane Michael, depicted in Figure 33, and had to be patched/repaved.

In Liberty County, Hurricane Michael's torrential downpour opened a large sinkhole that swallowed half a street and threatened homes in a community within the city of Bristol (Figure 34<sup>73</sup>).

Figure 34: Impact of Hurricane Michael in Bristol



Source: Tallahassee Democrat

Roadway damages impact the ability of communities to evacuate in response to disasters. The delivery of essential emergency responders and goods is necessary for the on-going safety of residents.

### 2.6.5 Health and Medical

Health and Medical lifeline components include medical care, patient movement, public health, fatality management and the health care supply chain. These critical public health and medical services are necessary in order to reduce the potential for adverse health outcomes during an event and help maintain the well-being of vulnerable populations. The capacity of facilities to cope with hazard impacts directly and to manage under the duress of providing increased service to those in need places a significant strain on the critical health and medical community lifeline. For example, according to the Florida Health Care Association 74,150 of the state's 700 nursing homes still lacked full power three days after Irma struck. Meeting the needs of persons with access needs and functional needs during or following a disaster is a key component of public health and medical preparedness planning. Direct vulnerability of health and medical centers also pose significant challenges. With more than 300 hospitals and more older adults than in any other state, emergency plans for Florida's hospitals are a critical issue facing mitigation planners.

Hurricane Michael left several hospitals in the Panhandle with significant damage.

Bay Medical Sacred Heart is a Level 2 trauma center and the only trauma center between Pensacola and Tallahassee. The damage sustained by the hospital was a major blow to the general Community Lifeline of Health and Medical. As a result of wind and water damage, Bay Medical laid off about 630 medical staff early in 2019<sup>75</sup>. Three hundred of these positions have been reopening over the course of 2019 as patient capacity returns.

<sup>&</sup>lt;sup>72</sup>Florida Department of Transportation, "Bridge Inventory 2019 Annual Report", Retrieved from <a href="https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/maintenance/str/bi/florida bridge inventory 2019 annual report.pdf?sfvrsn=1d855ba0 0</a>

<sup>&</sup>lt;sup>73</sup>https://www.tallahassee.com/story/news/2019/03/23/dont-forget-bristol-liberty-county-towns-still-reeling-five-months-after-michael/2837173002/

<sup>&</sup>lt;sup>74</sup>Florida Hospital Association, "Facts"

<sup>&</sup>lt;sup>75</sup>https://www.beckershospitalreview.com/workforce/after-february-layoffs-bay-medical-sacred-heart-seeks-to-hire-300-employees.html

Aside from its emergency room, Gulf Coast Regional Medical Center was unable to reopen its doors for more than a month after the storm, but even then, it was reopened with limited services<sup>76</sup>. The reduction in capacity has caused both medical and economic impacts.

Calhoun-Liberty Hospital, which serves as one of the only emergency rooms available to people in the area for 50 miles in any direction, was also severely damaged during Hurricane Michael with parts of the building permanently closed. <sup>77,78,79,80</sup>

The Mossy Pond Volunteer Fire Department in Calhoun County was destroyed after Hurricane Michael. The county's insurance company called the damages to the firehouse a complete loss and paid out the full \$103,000 policy but a new firehouse would cost between \$250,000 and \$400,000<sup>81</sup>. The lack of a firehouse complicates how the eight members of the all-volunteer fire department coordinate responding to medical calls, car accidents and wildfires in a part of Calhoun County where the closest ambulance and hospital is 25 minutes away.<sup>82</sup>

## 2.6.6 Hazardous Material (Management)

A hazardous material is any substance that poses a threat to humans, animals or the environment. Hazardous materials generally refer to hazardous substances such as petroleum, natural gas, synthetic gas and acutely toxic chemicals. The threat that hazardous materials pose to the health and safety of the environment and its inhabitants can be enhanced due to the destruction rendered by serious hazards. Exposure to contaminated water commonly affects communities hit by a hurricane or tropical storm. In the area hit, water treatment plants may not be operating.

# 2.6.7 Energy

Energy and electricity facilities, as well as transmission and distribution lines, are among the most critical of the lifelines<sup>83</sup>. Essential elements of this lifeline include the power grid and its critical facilities, including fuel supply lines. During Hurricane Matthew, Florida Power and Light reported that nearly 1.2 million customers across Florida lost power as a result of the storm<sup>84</sup>. When Hurricane Irma struck the state, it knocked out power to an estimated 6.7 million utility customers<sup>85</sup>. At its peak, Hurricane Michael caused more than 400,000 power outages throughout the Panhandle. Impacts on the state's energy grid places heavy strain on all sectors. During disasters, the continuity of energy access for the most critical facilities and operations is a high mitigation priority.

# 2.7 Mitigation Needs Problem Statements

Throughout the planning and administration of the CDBG-MIT grant, DEO is committed to providing multiple opportunities for public participation. Local residents are best able to provide valuable information about the

<sup>76</sup>https://www.wjhg.com/content/news/Gulf-Coast-Regional-Medical-Center-emergency-room-remains-open-497874561.html

<sup>77</sup> https://www.calhounlibertyhospital.com

<sup>78</sup> https://www.mypanhandle.com/news/calhoun-liberty-hospital-open-despite-hurricane-damage/

<sup>&</sup>lt;sup>79</sup> https://www.mypanhandle.com/news/calhoun-liberty-hospital-hopes-to-rebuild/

<sup>80</sup>https://www.wjhg.com/content/news/Blountstown-hospital-still-in-shambles-after-Hurricane-Michael-500719202.html

<sup>81</sup>https://www.nbcnews.com/news/us-news/florida-firefighters-says-firehouse-destroyed-hurricane-michael-now-life-or-n1045071

<sup>82/</sup>https://www.nbcnews.com/news/us-news/florida-firefighters-says-firehouse-destroyed-hurricane-michael-now-life-or-n1045071

<sup>&</sup>lt;sup>83</sup> National Association of Counties, "Improving Lifelines: Protecting Critical Infrastructure for Resilient Counties", Retrieved from <a href="https://www.naco.org/sites/default/files/documents/NACo">https://www.naco.org/sites/default/files/documents/NACo</a> ResilientCounties Lifelines Nov2014.pdf

<sup>&</sup>lt;sup>84</sup>http://newsroom.fpl.com/2016-10-13-FPL-completes-service-restoration-to-more-than-1-2-million-customers-impacted-by-Hurricane-Matthew

<sup>&</sup>lt;sup>85</sup> U.S. Energy Information Administration, "Hurricane Irma cut power to nearly two-third of Florida's electricity customers", Retrieved from <a href="https://www.eia.gov/todayinenergy/detail.php?id=32992">https://www.eia.gov/todayinenergy/detail.php?id=32992</a>

needs of a community. Examples of public participation include public meetings, surveys, and public comment periods. Federal guidance mandates that DEO consider and implement public comments as much as possible, seek input from minority and low-income populations, and conduct public outreach strategies during a review under the National Environmental Policy Act.

DEO is directed by the Affirmatively Furthering Fair Housing (AFFH) rule to provide opportunities for community participation, consultation and coordination. The purpose of this mandate is to solicit the views and recommendations of community members that live in the area that will be affected by a federal action. DEO is committed to considering and implementing those views and recommendations into decisions and outcomes as much as possible. In addition, DEO will provide outreach to populations who have been historically excluded from decision-making processes, including racial and ethnic minorities, Limited English Proficient (LEP) persons, and persons with disabilities.

DEO is committed to ensuring environmental justice in minority populations and low-income populations. Members of these populations are encouraged to participate in outreach efforts by DEO to provide valuable input on the needs and priorities of these communities. To ensure adequate public participation and access to information as required by Executive Order 12898, DEO will:

- Solicit public recommendations in developing and implementing environmental justice strategies;
- Use public documents that are concise and understandable; and
- Translate appropriate public documents for limited-English speaking populations.

DEO will provide meaningful opportunities for public participation throughout the environmental review process as required by guidance from the Council on Environmental Quality. Key opportunities for citizens to get involved in the NEPA process include:

- · Public meetings;
- Webinars;
- · Surveys; and
- Written comments

To ensure that citizens remain informed, DEO will provide regular updates on the CDBG-MIT website.

## 2.7.1 Mitigation Need: Operational Resilience

Public safety facilities enable first responders and emergency management staff to efficiently coordinate and navigate response and recovery efforts across Florida. Billions of dollars' worth of state and county facilities are vulnerable to hazard impacts of tropical cyclones, such as strong winds and flooding. Feedback from stakeholders across the state highlight the conditions of multiple Emergency Operations Centers, many of which have been identified as being inadequate in terms of meeting public safety needs. Older buildings, which are not up to code or are otherwise unprepared for weather hazard impacts, create increased risks for the populations they serve.

## 2.7.2 Mitigation Need: Repetitive Flooding

One of the most significant challenges faced by Florida communities is the threat of repetitive flooding. Maintaining current levels of flood risk in Florida is unsustainable and threatens the state's ability to provide critical services, preserve critical service areas and maintain long-term community and ecosystem viability and resilience. Flooding has been identified as one of the most destructive hazards in terms of loss of human life, injury and property damage. Florida's population is largely concentrated in coastal areas, which presents a difficult logistical challenge in the years to come and a strong need for implementation of mitigation projects. Coastal erosion, sea-level rise and destructive winds and storm surge will cause increasing dangers to coastal communities. According to a 2019 article by the National Oceanic and Atmospheric Association (NOAA), the sea

level will continue to rise at a rate of about one-eighth of an inch per year<sup>86</sup>. The rising sea level is expected to increase the frequency of flooding and the strength of storm surge, especially in Florida where coastal counties contain 76% of the state's population<sup>87</sup>. The Enhanced SHMP notes that increasing sea levels will result in more flooding and an expansion of the current floodplain area<sup>88</sup>. Enhancing the function of natural flood mitigation features such as streams and wetlands to ensure that conveyed water makes it to rivers and other water bodies is increasingly important. Storm water management is also a major issue for inland communities. Funding for implementing flooding mitigation projects is critical to achieving the state's lifeline objectives.

## 2.7.3 Mitigation Need: Resilient Infrastructure

There is a great need for the implementation of infrastructure mitigation projects that will improve resiliency to hazard impacts. In many communities, essential mitigation projects have gone unimplemented due to a lack of the funding necessary to complete them. Aging infrastructure across the state is vulnerable to the effects of hazard impacts such as flooding and damaging winds. If infrastructure failure was to occur during a disaster event, a critical situation could evolve into a crisis. Resilience of the power grid, especially to critical facilities such as medical centers and other public services, is recognized as a prevalent problem during most Florida hazards. Severe storms and tropical cyclones can have a devasting effect on the power grid, disrupting residents for a couple hours or for as long as several weeks.

### 2.7.3.1 Infrastructure Impacts

Florida's Panhandle experienced more severe damage than many urban areas around the state that are better prepared for behemoth storms. Lack of preparedness, including aging, limited, and substandard infrastructure, played a major role in the devastating impacts experienced by the region.

The Florida Division of Emergency Management oversees the Public Assistance Program and assists counties and local municipalities with applications for Public Assistance. FDEM's Public Assistance Project Worksheets provide the most comprehensive assessment of Hurricane Michael impacts to public buildings, infrastructure and other tax-funded assets. A review of FDEM's current public assistance program projects reveals more than \$13.9 billion in infrastructure impacts across the ten CDBG-DR county areas of interest (Table 18).

**Table 18: Impact to infrastructure in Hurricane Michael CDBG-MIT counties** 

	Public Assistance Categories and Impacts								
County	A Debris Removal	B Emergency Protective Measures	C Roads and Bridges	D Water Control Facilities	E Buildings and Equipment	F Utilities	G Parks, Recreation, and Other	<b>Z</b> Project Managemen t	Grand Total
Bay	\$878,318,895	\$250,049,709	\$168,881,198	\$64,975,539	\$564,937,186	\$109,797,290	\$179,705,826	\$12,101,450	\$2,228,767,093
Calhoun	\$3,072,819	\$2,223,700	\$374,200		\$35,411,331	\$3,654,250	\$5,018,738	\$3,200	\$49,758,238
Franklin	\$639,679	\$2,357,760	\$13,742,140	\$64,500	\$10,503,753	\$682,183	\$4,084,565	\$3,000	\$32,077,580
Gadsden	\$10,163,700	\$26,735,235	\$950,460		\$78,342,640	\$35,328,000	\$2,490,511	\$25,950	\$154,036,495
Gulf	\$9,507,534	\$58,176,687	\$1,965,552	\$191,800	\$13,811,478	\$27,335,725	\$10,212,237	\$3,039,400	\$124,240,413

<sup>86</sup>https://oceanservice.noaa.gov/facts/sealevel.html

<sup>87</sup>https://floridadep.gov/sites/default/files/Climate%20Change%20and%20Sea-Level%20Rise%20in%20Florida.pdf, pg 11

<sup>&</sup>lt;sup>88</sup> Florida Division of Emergency Management. "Enhanced State Hazard Mitigation Plan". Retrieved from https://www.floridadisaster.org/dem/mitigation/statemitigationstrategy/state-hazard-mitigation-plan/.

Holmes	\$470,000	\$371,796	\$13,247		\$503,500	\$310,306	\$75,700	\$35,100	\$1,779,649
Jackson	\$11,242,200	\$92,240,192	\$156,226,575	\$100,000	\$52,942,099	\$22,276,471	\$5,640,590	\$12,900	\$340,681,027
Liberty	\$3,556,701	\$5,546,129	\$196,575	\$11,000	\$8,703,288	\$1,211,195	\$2,488,253	\$15,001	\$21,728,142
Wakulla	\$56,400	\$669,854	\$184,276		\$593,597	\$126,984	\$746,500	\$12,100	\$2,389,711
Washington	\$268,501	\$294,703	\$292,223	\$250,000	\$947,153	\$265,000	\$619,500	\$24,700	\$2,961,780
Grand Total	\$1.3 B	\$773 M	\$346.9M	\$65 M	\$875 M	\$256 M	\$237 M	\$16.7 M	\$3.88 B

Fortunately, cost share for Categories A, B and most of Category Z costs is 0% for the state and will be covered 100% by FEMA through the Stafford Act. 89 All other Public Assistance categories remain at a 75% Federal / 25% State cost share.

The National Oceanic and Atmospheric Administration's (NOAA) National Centers for Environmental Information (NCEI) estimated that the total damage from Hurricane Michael is approximately \$25 billion: \$18.4 billion of which occurred in Florida, including nearly \$3 billion at Tyndall Air Force Base <sup>90</sup>. The devastating winds caused extensive timber destruction with damage estimates of nearly 3,000,000 acres of forested land estimated at more than \$1.3 billion dollars <sup>91</sup>. In addition to these damage costs, replanting in the more severely damaged areas will cost an estimated \$240 million <sup>92</sup>. This damage has also served to greatly increase the wildfire potential given the additional forest fuel from downed trees. <sup>93</sup>

Much of the damage to the timber industry occurred in the Florida Panhandle, primarily in Bay, Calhoun, Gadsden, Gulf, Jackson, and Liberty county. <sup>94</sup> Of the ten panhandle counties identified in this section, five are considered moderately to critically dependent on the timber industry in terms of employment. <sup>95</sup>

Panhandle communities have experienced deep and repetitive damage from recurring hurricane hazards such as flooding and devasting winds. The storm history of the Panhandle depicts a relentless "Build-Destroy-Rebuild" cycle that has continued over the course of several decades. This has caused significant economic damage and, most devastatingly, it has taken many human lives.

91 https://talltimbers.org/hurricane-michael-damages-forest-lands/

 $<sup>\</sup>frac{89}{\text{https://www.floridadisaster.org/news-media/news/20190310-governor-desantis-announces-formal-notification-from-fema-for-45-days-of-100-percent-federal-cost-share-reimbursement-for-hurricane-michael/}$ 

<sup>90</sup> https://www.nhc.noaa.gov/data/tcr/AL142018 Michael.pdf

<sup>92</sup> https://www.fdacs.gov/content/download/82204/file/HurricaneMichaelInitialTimberDamageEstimate1.pdf

<sup>93</sup> https://www.weather.gov/tae/HurricaneMichael2018

<sup>&</sup>lt;sup>94</sup>https://www.stateforesters.org/2019/04/05/hurricane-michaels-big-affect-on-timber-resources-wildfire-risk-in-florida-and-georgia/

<sup>95</sup>http://floridaforest.org/wp-content/uploads/FINAL-REPORT-2016-Florida-Forestry-Contributions-12-19-17.pdf, page 9

# 3.0 PROJECTS & ACTIVITIES

# 3.1 Program Overviews

DEO is the lead agency and responsible entity for administering more than \$633 million in CDBG-MIT funds allocated to the state for mitigation and resiliency efforts as a result of major disaster events in 2016 and 2017 and an additional \$46,926,000 was allocated for mitigation activities as a result of major declared disaster events in 2018, for a total CDBG-MIT allocation of \$680,411,000.

The total allocation of CDBG-MIT funds comes to \$680,411,000 and will fund similar activities; however, the funds must be used in different HUD- and State-MIDs. The following sections will discuss funds allocated to the 2016/2017 disasters followed by funds allocated for the 2018 Hurricane Michael disaster.

Table 19: CDBG-MIT HUD and State MIDs

2016/2017 CDBG-MIT HUD and State MIDs					
HUD MID Counties	Brevard, Broward, Clay, Collier, Duval, Hillsborough, Lee, Miami Dade, Monroe, Orange, Osceola, Palm Beach, Polk, St. Johns, St. Lucie, and Volusia				
HUD MID Zip Codes*	32084, 32091, 32136, 32145, 32771, 33440, 33523, 33825, 33870, 32068, 33935, 34266-				
State MID Counties	Alachua, Baker, Bradford, Charlotte, Citrus, Columbia, DeSoto, Dixie, Flagler, Gilchrist, Glades, Hardee, Hendry, Hernando, Highlands, Indian River, Lafayette, Lake, Leon, Levy, Manatee, Marion, Martin, Nassau, Okeechobee, Pasco, Pinellas, Putnam, Sarasota, Seminole, Sumter, Suwannee, Taylor, Union, Wakulla				
	2018 CDBG-MIT HUD and State MIDs				
HUD MID Counties	Bay, Calhoun, Gulf, Jackson				
HUD MID Zip Codes	32321 (Liberty), 32327 (Wakulla), 32328 (Franklin), 32346 (Wakulla and Franklin), 32351 (Gadsden), 32428 (Washington)  *zip codes within these counties were included as HUD designated MIDs. The state has included the entire counties as a MID area, as permitted by HUD in the Federal Register				
State MID Counties	Holmes				

# 3.1.1 Urgent Need Mitigation National Objective

The Appropriations Act directs the Department of Housing and Urban Development to allocate CDBG-MIT funds to grantees that received CDBG-DR funds to assist in recovery from major federally declared disasters occurring in 2015, 2016, and 2017. To reflect the direction of the Appropriations Act to allocate funds to grantees recovering from recent disasters and to address the demonstrable need for significant mitigation improvements by those grantees, HUD is waiving the criteria for the urgent need national objective as provided at 24 CFR 570.208(c) and 24 CFR 570.483(d), and is establishing an alternative requirement to include new urgent need national objective criteria for CDBG-MIT activities.

To meet the alternative criteria for the urgent need mitigation national objective, each grantee must document that the activity (1) addresses the current and future risks as identified in the grantee's Mitigation Needs Assessment of most impacted and distressed areas, and (2) will result in a measurable and verifiable reduction in the risk of loss of life and property.

The State of Florida will prioritize LMI beneficiaries to the greatest extent possible through its scoring of subrecipient applications and will ensure meeting or exceeding the 50% expenditure requirement for LMI activities. The urgent need mitigation national objective will be used as described below and result in measurable and verifiable reduction of the risk of loss of life and property as follows:

Infrastructure and public facility mitigation will keep roads, bridges, and emergency facilities operating in
future disaster events of a similar nature as identified in the Risk Assessment, allowing emergency
responders to reach area residents and save lives.

## 3.1.2 Mitigating Current and Future Risks

Each of DEO's Hazard mitigation activities seeks to make human development and the natural environment safer and more resilient from the risks identified in the Mitigation Risk Assessment. The mitigation process generally involves enhancing the built environment to significantly reduce risks and vulnerability to hazards. Mitigation can also include removing the built environment from disaster prone areas and maintaining natural mitigating features, such as wetlands or floodplains. Hazard mitigation makes it easier and less expensive to respond to, and recover from, disasters by breaking the damage and repair cycle.

Examples of how the proposed mitigation activities will mitigate hazards and the quantifiable benefits are listed below:

Mitigation measures include, but are not limited to, the following:

- Development of mitigation standards, regulations, policies and programs;
- Land use/zoning policies;
- Strong statewide building code and floodplain management regulations;
- Dam safety programs, seawalls and levee systems;
- Acquisition of flood prone and environmentally-sensitive lands;
- Retrofitting/hardening/elevating structures and critical facilities;
- Relocation of structures, infrastructure and facilities out of vulnerable areas;
- Permanent relocation of residential housing and businesses located in in high-risk areas through voluntary buyback programs, appropriate relocation assistance and rebuilding in low-risk areas within the neighborhood or areas of opportunity;
- Public awareness/education campaigns; and
- Improvement of warning and evacuation systems.

Quantifiable benefits of hazard mitigation include, but are not limited to, the following:

- Saving lives and protecting public health;
- Preventing or minimizing property damage;
- Minimizing social dislocation and stress;
- Reducing economic losses;
- Protecting and preserving infrastructure;
- Reducing legal liability of government and public officials; and
- Spending less on response and recovery efforts.

## 3.1.3 Covered Projects

In the CDBG-MIT Federal Register, a covered project is defined as an infrastructure project having a total project cost of \$100 million or more, with at least \$50 million in CDBG funds regardless of source (CDBG-DR, CDBG National Disaster Resilience [NDR], CDBG-MIT, or CDBG). The State of Florida does not anticipate any projects that meet the definition of a covered project. If it is determined that a project will meet the definition of a covered project, the State will include the covered project in a substantial Action Plan amendment and follow the public hearing process before committing to funding.

# 3.2 Program Budgets

DEO is the lead agency and responsible entity for administering more than \$633 million in CDBG-MIT funds allocated to the state for mitigation and resiliency efforts as a result of major disaster events in 2016 and 2017 and an additional \$46,926,000 which was allocated for mitigation activities as a result of major declared disaster events in 2018, for a total CDBG-MIT allocation of \$680,411,000.

Table 20: Allocation of 2016 and 2017 CDBG-MIT Funds

Allocation of 2016 and 2017 CDBG-MIT Funds					
Program	Allocation	Percent of Overall Funding	HUD-MID Area Allocation Minimum	LMI Designation Allocation Minimum	
Infrastructure	\$520,449,502.84	82.16%	\$260,224,751.42	\$260,224,751.42	
General Infrastructure	\$446,974,973.84	70.6%	\$223,487,486.92	\$223,487,486.92	
Critical Facility Hardening Program	\$73,474,529	11.5%	\$36,737,265	\$36,737,265	
Housing	\$45,554,289.16	7.2%	\$22,777,144.58	\$22,777,144.58	
Housing Oversubscription	\$45,554,289.16	7.2%	\$22,777,144.58	\$22,777,144.58	
Planning and Administrative Costs	\$67,481,208	10.5%			
General Planning Support	\$20,000,000	3%	\$10,000,000	\$10,000,000	
DEO Administration	\$31,674,250	5%			
DEO Planning	\$15,806,958	2.5%			
Total Allocation	\$633,485,000	100%	\$293,001,896	\$293,001,896	

Table 21: Allocation of 2018 CDBG-MIT Funds

Allocation of 2018 CDBG-MIT Funds					
Program	Allocation	Percent of Overall Funding	HUD-MID Area Allocation Minimum	LMI Designation Allocation Minimum	
General Infrastructure Program	\$42,233,400	90%	\$21,116,700	\$21,116,700	
Planning and Administrative Costs	\$4,692,600	10%	\$	\$	
DEO Administration	\$2,346,300	5%	\$	\$	
DEO Planning	\$2,346,300	5%	\$	\$	
Total Allocation	\$46,926,000	100%	\$21,116,700	\$21,116,700	

Table 22: Budget Adjustment of 2016-2017 CDBG-MIT Funds

Budget Adjustment of 2016 and 2017 CDBG-MIT Funds					
Program	Original Program Budget	June 13, 2022 Amended Program Budget	May 4, 2023 Amended Program Budget	Amount Adjusted	
Infrastructure	\$550,000,000	\$524,010,586.16	\$520,449,502.84	-\$3,561,083.32	
General Infrastructure	\$475,000,000	\$450,536,057.16	\$446,974,973.84	-\$3,561,083.32	
Critical Facility Hardening Program	\$75,000,000	\$73,474,529	\$73,474,529	-	
Housing	\$0	\$41,993,205.84	\$45,554,289.16	+\$3,561,083.32	
Housing Oversubscription	\$0	\$41,993,205.84	\$45,554,289.16	+\$3,561,083.32	
Planning and Administrative Costs	\$83,485,000	\$67,481,208	\$67,481,208	-	
General Planning Support	\$20,000,000	\$20,000,000	\$20,000,000	-	
DEO Administration	\$31,674,250	\$31,674,250	\$31,674,250	-	
DEO Planning	\$31,810,750	\$15,806,958	\$15,806,958	-	
Total Allocation	\$633,485,000	\$633,485,000	\$633,485,000	-	

Substantial amendment number 4 to the State of Florida Mitigation Action Plan submitted to HUD on 9/2/2022 re-allocated \$41,993,205.84 from 2016-2017 MIT Funds for Infrastructure and Planning to create the Housing Oversubscription Program (HOP) to help address additional unmet needs in the Hurricane Irma Housing Repair and Replacement Program (HRRP) administered under the State of Florida Action Plan for Disaster Recovery. The HOP will follow the mission of the HRRP—to repair, replace, or reconstruct eligible homes—with an additional focus on mitigation measures, which increase resilience to disasters and reduce or eliminate the long-term risk of loss of life, injury, damage to and loss of property, and suffering and hardship, by lessening the impact of future disasters for homeowners located in HUD and State MID areas affected by the 2017 disaster, Hurricane Irma.

# 3.3 2016 and 2017 CDBG-MIT Program

## 3.3.1 2016 and 2017 CDBG-MIT Program Overview

In accordance with Federal Register Vol. 84 No. 169, DEO's aggregate total for indirect costs and administrative and technical assistance expenditures will not exceed 5% of its total grant (\$31,674,250) plus program income. Planning costs are subject to the 15% cap (\$95,022,750) defined in 42 U.S.C. 5305(a) (12). The state is proposing a planning budget of 2.5% (\$15,806,958). Per the Federal Register, CDBG-MIT funds can be used to meet a matching requirement, share or contribution for other federal grant programs if they are used to carry out an eligible mitigation activity. This includes mitigation grants administered by FEMA and the United States Army Corps of Engineers. (The maximum amount for the US Army Corps of Engineers is \$250,000.) Activities that are funded with match dollars must meet the definition of a mitigation activity and must meet the eligibility requirements for the CDBG-MIT program and the federal program that is being aided with CDBG-MIT funds.

Eligible project delivery costs are presumed included as a portion of the overall CDBG-MIT grant funding allocation provided to each subrecipient. DEO will limit spending to a maximum of 13% of the total grant amount on a combination of planning and indirect and direct program administration costs. Subrecipients will be responsible for properly tracking and monitoring the expenses that may not be included as part of the overall grant award to each individual project or individual applicant as applicable.

DEO proposes two primary mitigation categories; Infrastructure and Planning. Within these two categories are programs that focus on risk reduction for the hazards identified in the state Action Plan's risk-based mitigation needs assessment. These hazards include flooding, severe storms, tropical cyclones, coastal erosion and wildfires.

DEO is also proposing a Housing Oversubscription Program (HOP) to help address additional unmet needs in the Hurricane Irma Housing Repair and Replacement Program (HRRP) administered under the State of Florida Action Plan for Disaster Recovery. The HOP will follow the mission of the HRRP—to repair, replace, or reconstruct eligible homes—with an additional focus on providing mitigation measures, which increase resilience to disasters and reduce or eliminate the long-term risk of loss of life, injury, damage to and loss of property, and suffering and hardship, by lessening the impact of future disasters for homeowners located in HUD and State MID areas affected by the 2017 disaster, Hurricane Irma.

Eligible CDBG-MIT activities are set forth in the Housing and Community Development Act of 1974 (HCDA). HCDA activities that meet the criteria for both Infrastructure and Planning include: the payment of the non-Federal share required in connection with a Federal grant-in-aid program undertaken as part of activities assisted under this title and the provision of assistance including loans (both interim and long-term) and grants for activities which are carried out by public or private nonprofit entities, including: acquisition of real property; acquisition, construction, reconstruction, rehabilitation or installation of public facilities (except for buildings for the general conduct of government), site improvements, and utilities, and commercial or industrial buildings or structures and other commercial or industrial real property improvements; and planning<sup>96</sup>.

The categories and program areas in this CDBG-MIT grant are:

- Infrastructure Programs
  - o General Infrastructure; and
  - Critical Facility Hardening
- Planning, Administration and Public Services

<sup>&</sup>lt;sup>96</sup> U.S. Department of Housing and Urban Development (n.d.). State CDBG Program Guide to National Objectives and Eligible Activities for State CDBG Programs - Appendix A. Retrieved from The Housing and Community Development Act of 1974 (HCDA) Eligible Activities for States Section 105(a)(14):

- General Planning Support;
- o DEO Administration; and
- o DEO Planning.
- Housing
  - Hurricane Irma Housing Oversubscription

These programs are summarized below.

## 3.3.2 2016 and 2017 CDBG-MIT Program Details

### 3.3.2.1 2016 and 2017 Infrastructure Programs

Infrastructure is the largest program area and is comprised of two programs: General Infrastructure and Critical Facility Hardening. These infrastructure programs will account for 82.5% of the total CDBG-MIT allocation.

Both programs are detailed below.

#### 2016 and 2017 General Infrastructure Program (GIP) Overview

The GIP will account for 71% of the total CDBG-MIT grant funding. It is the broadest, most flexible and most impactful of proposed programs. The GIP will fund large scale and high impact local, multi-jurisdictional and regional investments that include: upgrading of water, sewer, solid waste, communications, energy, transportation, health and medical and other public infrastructure projects that will reduce the hazard risks identified in the Mitigation Needs Assessment portion of this Action Plan.

The state currently has no plans to fund housing programs with the CDBG-MIT funds, but recognizes that vulnerable populations include children, senior citizens, persons with disabilities, persons from diverse cultures, immigrants, transportation disadvantaged, homeless persons, persons with chronic medical disorders and persons with limited English or who are altogether non-English speaking. The state certifies that it will conduct and carry out grant expenditures in conformity with Title VI of the Civil Rights Act of 1964 (42 USC 2000d) and the Fair Housing Act (42 USC 3601-3619) and implementing regulations, and that it will affirmatively further fair housing as applicable to its projects.

General Infrastructure dollars will allow local and regional units of government to address their most pressing hazard mitigation needs and will require subgrantee applicants to document how their proposed projects will meet or exceed hazard reduction needs of their most vulnerable citizens and identify which critical lifelines are protected by each proposed project. Other considerations such as multi-use facilities and natural infrastructure developments will be encouraged through the subgrantee application process described herein.

In accordance with the HCDA, eligible activities for Infrastructure projects include the acquisition, construction, reconstruction, or installation (including design features and improvements with respect to such construction, reconstruction or installation that promote energy efficiency) of public works, facilities (except for buildings for the general conduct of government), and site or other improvements.<sup>97</sup>

<sup>&</sup>lt;sup>97</sup> U.S. Department of Housing and Urban Development (n.d.). State CDBG Program Guide to National Objectives and Eligible Activities for State CDBG Programs - Appendix A. Retrieved from The Housing and Community Development Act of 1974 (HCDA) Eligible Activities for States Section 105(a)(2): <a href="https://www.hud.gov/sites/documents/DOC">https://www.hud.gov/sites/documents/DOC</a> 16364.PDF

Table 23: 2016-2017 General Infrastructure Program (GIP)

General Infrastructure Program (GIP)				
Funding Dollars	\$446,974,973.84			
Funding Percentage	70.6%			
HUD-MID Area Allocation Minimum	\$223,487,486.92			
LMI Designation Allocation Minimum	\$223,487,486.92			
Applicant Minimum & Maximum	\$500,000 - \$446,974,973.84			
Application Type	Subrecipient			
Applicant Eligibility	UGLG, state agencies, and other applicants including, but not limited to, non-profits and non-governmental agencies that apply in partnership with their local UGLG or state agencies.			
Geographic Eligibility	HUD and State designated MIDS			
National Objectives Fulfilled	LMI and Urgent Need			
Hazard Risks Addressed	Flooding, Severe Storms, Tropical Cyclones, Coastal Erosion, Wildfires			
Lifelines Protected	Safety and Security, Food, Water and Shelter, Health and Medical, Energy, Communications, Transportation, Hazardous Materials			

<u>DEO</u> will provide an initial allocation of resources to Units of General Local Government (UGLG) and entities that apply in partnership with their UGLG with an emphasis on innovative, collaborative and/or large-scale mitigation activities that reduce risks. DEO will solicit applications for projects from the pool of eligible applicants. Each project will be prioritized based on the overall score from each category of scoring criteria.

The CDBG-MIT Program will select projects based on the rankings from the scores with additional consideration to ensure that funding is applied in an equitable manner on a geographic basis. Each round will have a competitive application process.

The 2016-2017 GIP will be implemented in three rounds:

**Round I** of the GIP will have a total allocation of \$150 million and a minimum project cost of \$500,000 and no maximum limit. The state anticipates that regional coalitions and local governments or local public entities will act as partners in the implementation of this program.

**Round II** of the GIP will have a minimum project threshold of \$2 million per project. Round II will make strategic investments on a competitive basis to implement programs and projects that align with mitigation objectives. Projects will be ranked using the same prioritization methodology from Round I as their base.

**Round III** of the GIP will fund projects that were competitively selected through the CDBG-DR Hurricane Irma Infrastructure Repair Program Rounds I and II. The minimum award for those projects is \$500,000. The CDBG-DR Hurricane Irma Infrastructure Repair Program projects meet all CDBG-MIT GIP requirements.

#### 2016-2017 GIP Eligibility Criteria

To be eligible for funding, an application must:

1. Be in conformance with the State Mitigation Plan and Local or Tribal Mitigation Plan approved under 44 CFR part 201.4; or for Indian Tribal governments acting as grantees, be in conformance with the Tribal Mitigation Plan approved under 44 CFR 201.7;

- 2. Have a beneficial impact upon the designated disaster area;
- 3. Solve a problem independently or constitute a functional portion of a solution in which there is assurance that the project will be completed. Projects that merely identify or analyze hazards or problems are not eligible;
- 4. Consider the following for any flood mitigation project: high wind, continued sea level rise and ensure responsible floodplain and wetland management based on the history of flood mitigation efforts and the frequency and intensity of precipitation events.
- 5. As a condition of consideration for CDBG-MIT project funding, applicants will be required to identify their plans for funding operations and maintenance costs (when applicable). Long-term maintenance and operating costs are ineligible under CDBG-MIT funding except as identified at 84 FR 45838 Section V.A.9.
- 6. Be cost-effective and substantially reduce the risk of future damage, hardship, loss or suffering resulting from a major disaster. The grantee must demonstrate this by documenting that the project:
  - A. Addresses a problem that has been repetitive or a problem that poses a significant risk to public health safety if left unsolved;
  - B. Cost less than the anticipated value of the reduction in both direct damages and subsequent negative impacts to the area if future disasters were to occur;
  - C. Have been determined to be the most practical, effective and environmentally sound alternative after consideration of a range of options;
  - D. Contributes, to the extent practicable, to a long-term solution to the problem it is intended to address; and
  - E. Consider long-term changes to the areas and entities it protects and have manageable future maintenance and modifications requirements.

#### 2016-2017 GIP Application Process (Rounds I and II)

Eligible applicants will be invited to submit applications proposing GIP projects for funding through the CDBG-MIT program. Responses will be evaluated to ensure the proposed projects meet the minimum criteria as outlined in the GIP Guideline application materials. Responses that meet minimum threshold requirements will then be evaluated according to the scoring criteria outlined below.

Applications must, at a high level, describe their infrastructure project and address how it will serve to mitigate risks attributable to threats identified in the State of Florida Action Plan Risk-Based Mitigation Needs Assessment. Plans must also include a proposed budget with a detailed description of anticipated costs by category, including support services and program management and administration.

DEO will host a webinar to provide an overview of the GIP Guidelines, specific to the application process. The webinar will include a live question and answer period. These questions and answers will be published on DEO's website within five business days after the webinar. DEO will also provide an opportunity for applicants to schedule 20-minute, one-on-one phone calls with DEO's mitigation staff. These calls will provide applicants an opportunity to ask questions and/or discuss issues specific to their project and the application process.

Additional information regarding applicant status is provided in the GIP Guidelines located here

#### 2016-2017 GIP Criteria & Scoring

#### Rounds I and II

Applications will be evaluated to determine the mitigation value and cost effectiveness of the proposed project. An applicant's planning strategy and management capacity must be evident. The threshold/unscored requirements include meeting all GIP eligibility criteria (see previous page). Applicants that do not meet threshold eligibility requirements will not progress to the scoring stage.

Each scored element of the applications is included in a Criteria Evaluation Rubric and has a value associated with it. If eligible applications exceed available funding, applicants will be funded in rank order based on evaluation

scores. DEO reserves the option to fund all, a portion of or none of each application submitted by an applicant. Scored criteria is listed below in its order of importance. A total of 150 points are available.

Table 24: 2016-2017 General Infrastructure Program (GIP) Scoring Criteria (Rounds I and II)

Scoring Criteria	Maximum Points
Overall LMI Benefit	30
Value to Community (Resilience enhancement and lifelines served)	20
Detailed Project Description (Purpose, mitigation value, staff, anticipated outcomes, budget)	20
Special Designation (e.g. Fiscally-Constrained, Rural, Area of Critical State Concern)	15
Capacity Plan – Goals, stakeholders, quality controls, staffing, contractors (LMI hiring opportunities)	15
HUD- and State-Designated MID Areas Served	10
SoVI <sup>®</sup> Score	10
Implementation Plan	10
Budget	10
Leveraged Dollars	10

Round III

Projects identified for the CDBG-MIT Program General Infrastructure Program Round III were originally evaluated and ranked for the CDBG-DR Hurricane Irma Infrastructure Repair Program. The projects were competitively selected through the CDBG-DR Hurricane Irma Infrastructure Repair Program process. The threshold requirements include meeting all GIP eligibility criteria.

All CDBG-DR Hurricane Irma Infrastructure Repair Program applications were scored based on the following application elements. Maximum criteria values are noted in the rubric below. Scored criteria is listed below in priority order. A total of 105 points were available.

Table 25: 2016-2017 General Infrastructure Program (GIP) Scoring Criteria (Round III)

Scoring Criteria	Maximum Points
Overall LMI	30
Project Readiness	25
Management Capacity	15
Project Impact	15
Project Nature	10
Special Designation	10

The application and scoring processes of the original CDBG-DR Hurricane Irma Infrastructure Repair Program Rounds I and II and the CDBG-MIT General Infrastructure Program are similar. Adopting the CDBG-DR Hurricane

Irma Infrastructure Repair Program selected projects causes no change in eligibility criteria, beneficiaries, the amount of funding that is awarded to selected projects, or allocations to CDBG-MIT programs.

#### 2016 and 2017 Critical Facility Hardening Program (CFHP) Overview

The CFHP will allow units of general local government (UGLG) and state agencies to harden critical buildings that serve a public safety purpose for local communities. This program will enable local police, fire, shelters and local emergency management facilities and other designated critical facilities to better withstand the effects of the previously identified hazard risks. Examples of hardening against flood, fire, storms and coastal erosion include, but are not limited to, dry proofing, wet proofing, anchoring roof-mounted heating, shelters, ventilation and airconditioning units and retrofitting building exteriors with hazard-resistant materials in accordance with -national safety standards.

The hardening program will encompass energy resiliency projects that help ensure that the most critical facilities in Florida communities have access to power throughout and following an emergency when local sources of power are down. Critical facilities include, but are not limited to, potable water facilities, wastewater facilities, police departments, fire departments, hospitals, emergency operation centers and emergency shelters. Local units of government that apply for this program will need to identify critical facilities that have a need to update or replace existing power sources (such as generators or resiliency systems) so as to allow these facilities to safely maintain power during emergencies.

CFHP eligible activities under the HCDA include: clearance, demolition, removal, reconstruction and rehabilitation (including rehabilitation which promotes energy efficiency) of buildings and improvements (including interim assistance, and financing public or private acquisition for reconstruction or rehabilitation, and reconstruction or rehabilitation, of privately owned properties, and including the renovation of closed school buildings)<sup>98</sup>; special projects directed to the removal of material and architectural barriers which restrict the mobility and accessibility of elderly and handicapped persons; and lead-based paint hazard evaluation and reduction, as defined in section 1004 of the Residential Lead-Based Paint Hazard Reduction Act of 1992<sup>98</sup>.

Table 26: 2016-2017 Critical Facility Hardening Program (CFHP)

2016-2017 Critical Facility Hardening Program				
Funding Dollars	\$73,474,529			
Funding Percentage	11.5%			
Project Minimum & Maximum	\$50,000 - \$15,000,000			
HUD-MID Area Allocation Minimum	\$36,737,265			
LMI Designation Allocation Minimum	\$36,737,265			
Application Type	Subrecipient			
Applicant Eligibility	UGLG, state agencies and other applicants including, but not limited to, non-profits and non-governmental agencies that apply in partnership with their local UGLG or state agencies.			
Geographic Eligibility	HUD and State-Designated MIDS			

<sup>&</sup>lt;sup>98</sup> U.S. Department of Housing and Urban Development (n.d.). State CDBG Program Guide to National Objectives and Eligible Activities for State CDBG Programs - Appendix A. Retrieved from The Housing and Community Development Act of 1974 (HCDA) Eligible Activities for States Section 105(a)(4): <a href="https://www.hudexchange.info/sites/onecpd/assets/File/CDBG-State-National-Objectives-Eligible-Activities-Appendix-A.pdf">https://www.hudexchange.info/sites/onecpd/assets/File/CDBG-State-National-Objectives-Eligible-Activities-Appendix-A.pdf</a>

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National Objectives Fulfilled	LMI and Urgent Need				
Hazard Risks Addressed	Flooding, Severe Storms, Tropical Cyclones, Coastal Erosion, Wildfires				
Lifelines Protected	Safety and Security, Health and Medical, Energy, Communications				

#### 2016-2017 CFHP Eligibility Criteria

To be eligible for funding, an application must:

- Be in conformance with the State Mitigation Plan and Local or Tribal Mitigation Plan approved under 44 CFR part 201.4; or for Indian Tribal governments acting as grantees, be in conformance with the Tribal Mitigation Plan approved under 44 CFR 201.7;
- Have a beneficial impact upon the designated disaster area;
- Solve a problem independently or constitute a functional portion of a solution in which there is assurance
  that the project will be completed. Projects that merely identify or analyze hazards or problems are not
  eligible;
- Consider the following for any flood mitigation project: high wind, continued sea level rise and ensure responsible floodplain and wetland management based on the history of flood mitigation efforts and the frequency and intensity of precipitation events;
- As a condition of consideration for project CDBG-MIT funding, applicants will be required to identify their
  plans for funding operations and maintenance costs (when applicable). Long-term maintenance and
  operating costs are ineligible under CDBG-MIT funding except as identified at 84 FR 45838 Section V.A.9.
- Be cost-effective and substantially reduce the risk of future damage, hardship, loss or suffering resulting from a major disaster. The grantee must demonstrate this by documenting that the project:
  - Addresses a problem that has been repetitive or a problem that poses a significant risk to public health safety if left unsolved;
  - Will not cost more than the anticipated value of the reduction in both direct damages and subsequent negative impacts to the area if future disasters were to occur;
  - Has been determined to be the most practical, effective and environmentally sound alternative after consideration of a range of options;
  - Contributes, to the extent practicable, to a long-term solution to the problem it is intended to address; and
  - Considers long-term changes to the areas and entities it protects and has manageable future maintenance and modifications requirements.

#### 2016-2017 CFHP Application Process

Eligible applicants will be invited to submit applications proposing GPS projects for funding through the CDBG-MIT program. Responses will be evaluated to ensure the proposed projects meet the minimum criteria as outlined in the GPS Program Guideline application materials. Responses that meet minimum threshold requirements will then be evaluated according to the scoring criteria outlined below.

Applications must, at a high level, describe what is being identified as a critical facility and address how and why it needs to be hardened to mitigate risks attributable to threats identified in the State of Florida Action Plan Risk-Based Mitigation Needs Assessment. Plans must also include a proposed budget with a detailed description of anticipated costs by category, including support services and program management and administration.

DEO will host a webinar to provide an overview of the CFHP Guidelines, specific to the application process. The webinar will include a live question and answer period. These questions and answers will be published on DEO's

website within five business days after the webinar. DEO will also provide an opportunity for applicants to schedule 20-minute, one-on-one phone calls with DEO's mitigation staff. These calls will provide applicants an opportunity to ask questions and/or discuss issues specific to their project and the application process.

Applicants may check on the status of their submissions by sending an email to <a href="mailto:cdbg-mit@deo.myflorida.com">cdbg-mit@deo.myflorida.com</a> or checking online at: <a href="mailto:www.floridajobs.org/CDBG-MIT">www.floridajobs.org/CDBG-MIT</a>. DEO is also establishing, and will advertise, a toll-free number for this purpose.

#### 2016-2017 CFHP Criteria & Scoring

Applications will be evaluated to determine the mitigation value and cost effectiveness of the proposed project. An applicant's planning strategy and management capacity must be evident. The threshold/unscored requirements include meeting all CFHP eligibility criteria (see previous page). Applicants that do not meet threshold eligibility requirements will not progress to the scoring stage.

Each scored element of the applications is included in a Criteria Evaluation Rubric and has a value associated with it. If eligible applications exceed available funding, applicants will be funded in rank order based on evaluation scores. DEO reserves the option to fund all, a portion of or none of each application submitted by an applicant. Scored criteria is listed below in its order of importance. A total of 150 points are available.

Table 27: 2016-2017 Critical Facility Hardening Program (CFHP) Scoring Criteria

Scoring Criteria	Maximum Points
Overall LMI Benefit	30
Value to Community (Resilience enhancement and lifelines served)	20
Detailed Project Description (Purpose, mitigation value, staff, anticipated outcomes, budget)	20
Special Designation (e.g. Fiscally-Constrained, Rural, Area of Critical State Concern)	15
Capacity Plan – Goals, stakeholders, quality controls, staffing, contractors (LMI hiring opportunities)	15
HUD- and State-Designated MID Areas Served	10
SoVI <sup>®</sup> Score	10
Implementation Plan	10
Budget	10
Leveraged Dollars	10

#### 3.3.2.2 2016 and 2017 Planning and Administration Costs

Planning and Administrative Costs has a set aside of \$83,485,000 to support local, regional and statewide mitigation planning efforts. Planning funding can be used for: land use planning, hazard mitigation planning, modernization and resiliency planning, upgrading mapping capabilities and other plans or capabilities to better understand evolving disaster risks, and planning to reduce flood insurance premiums through the NFIP Voluntary Community Rating System Incentives Program. Public service activities like education and outreach that aim to support local, regional and statewide mitigation efforts and encourage best mitigation practices are also included in the General Planning Support Program.

#### 2016-2017 General Planning Support (GPS) Program Overview

The GPS program will provide funding opportunities for the purpose of developing and updating state, regional and local plans. DEO recognizes that planning is an important aspect of mitigation and that not all UGLGs have access to full-time planning staff. The GPS program provides rarely available funds to create regional plans that will enable the state of Florida to withstand future disasters. Examples of projects include, but are not limited to:

- Land use, comprehensive and neighborhood planning;
- Regional mitigation planning;
- Modernization and resiliency planning;
- Upgrading mapping, data and other capabilities to better understand evolving disaster risks;
- Planning to reduce flood insurance premiums through the National Flood Insurance Program (NFIP) Voluntary Community Rating System Incentives Program; and
- Education and outreach designed to support local, regional and statewide mitigation efforts and encourage best mitigation practices.

The goal of the GPS program is to prepare Florida communities to respond to and recover from future disasters, including the five major priorities referenced in the State of Florida Mitigation Action Plan: flooding; tropical cyclones; severe storms; wildfires; and coastal erosion.

Eligible GPS activities under the HCDA include: activities necessary to develop a comprehensive community development plan, and to develop a policy-planning-management capacity so that the recipient of assistance under this title may more rationally and effectively determine its needs, set long-term goals and short-term objectives, devise programs and activities to meet these goals and objectives, evaluate the progress of such programs in accomplishing these goals and objectives, and carry out management, coordination, and monitoring of activities necessary for effective planning implementation<sup>99</sup>; activities necessary to the development of energy use strategies related to a recipient's development goals, to assure that those goals are achieved with maximum energy efficiency, including items such as— an analysis of the manner in, and the extent to, which energy conservation objectives will be integrated into local government operations, purchasing and service delivery, capital improvements budgeting, waste management, district heating and cooling, land use planning and zoning, and traffic control, parking, and public transportation functions, and a statement of the actions the recipient will take to foster energy conservation and the use of renewable energy resources in the private sector, including the enactment and enforcement of local codes and ordinances to encourage or mandate energy conservation or use of renewable energy resources, financial and other assistance to be provided (principally for the benefit of lowand moderate-income persons) to make energy conserving improvements to residential structures, and any other proposed energy conservation activities; and provision of assistance by recipients under this title to institutions of higher education having a demonstrated capacity to carry out eligible activities under this subsection for carrying out such activities.

Table 28: 2016-2017 General Planning Support (GPS) Program

2016-2017 General Planning Support (GPS) Program	
Funding Dollars	\$20,000,000
Funding Percentage	3%

<sup>&</sup>lt;sup>99</sup> U.S. Department of Housing and Urban Development (n.d.). State CDBG Program Guide to National Objectives and Eligible Activities for State CDBG Programs - Appendix A. Retrieved from The Housing and Community Development Act of 1974 (HCDA) Eligible Activities for States Section 105(a)(12): <a href="https://www.hudexchange.info/sites/onecpd/assets/File/CDBG-State-National-Objectives-Eligible-Activities-Appendix-A.pdf">https://www.hudexchange.info/sites/onecpd/assets/File/CDBG-State-National-Objectives-Eligible-Activities-Appendix-A.pdf</a>

Project Minimum & Maximum	\$20,000 - \$10,000,000	
Application Type	Subrecipient	
Applicant Eligibility	UGLG, state agencies, non-profits and educational institutions	
Geographic Eligibility	HUD and State-Designated MIDS	
National Objectives Fulfilled	LMI and Urgent Need	
Hazard Risks Addressed	Flooding, Severe Storms, Tropical Cyclones, Coastal Erosion, Wildfires	
Lifelines Protected	Safety and Security, Food, Water and Shelter, Health and Medical, Energy, Communications, Transportation, Hazardous Materials	

#### 2016-2017 GPS Eligibility Criteria

To be eligible for funding, an application must:

- Be in conformance with the State Mitigation Plan and Local or Tribal Mitigation Plan approved under 44
   CFR part 201.4; or for Indian Tribal governments acting as grantees, be in conformance with the Tribal Mitigation Plan approved under 44 CFR 201.7;
- Have a beneficial impact upon the state-designated MID area;
- Be cost-effective and result in an actionable plan that will provide strategies for high-impact mitigation activities.

#### 2016-2017 GPS Application Process

Eligible applicants will be invited to submit applications proposing GPS projects for funding through the CDBG-MIT program. Responses will be evaluated to ensure the proposed projects meet the minimum criteria as outlined in the GPS Program Guideline application materials. Responses that meet minimum threshold requirements will then be evaluated according to the scoring criteria outlined below.

Applications must, at a high level, describe the planning project and how it will be used to help to mitigate risks attributable to threats identified in the State of Florida Action Plan Risk-Based Mitigation Needs Assessment. Plans must also include a proposed budget with a detailed description of anticipated costs by category, including support services and program management and administration.

DEO will host a webinar to provide an overview of the GPS Guidelines, specific to the application process. The webinar will include a live question and answer period. These questions and answers will be published on DEO's website within five business days after the webinar. DEO will also provide an opportunity for applicants to schedule 20-minute, one-on-one phone calls with DEO's mitigation staff. These calls will provide applicants an opportunity to ask questions and/or discuss issues specific to their project and the application process.

Applicants may check on the status of their submissions by sending an email to <a href="mailto:cdbg-mit@deo.myflorida.com">cdbg-mit@deo.myflorida.com</a> or checking online at: <a href="mailto:www.floridajobs.org/CDBG-MIT">www.floridajobs.org/CDBG-MIT</a>. DEO is also establishing, and will advertise, a toll-free number for this purpose.

#### 2016-2017 GPS Criteria & Scoring

Applications will be evaluated to determine the mitigation value and cost effectiveness of the proposed project. An applicant's strategy and management capacity must be evident. The threshold/unscored requirements include meeting all GPS eligibility criteria (see previous page). Applicants that do not meet threshold eligibility requirements will not progress to the scoring stage.

Each scored element of the applications is included in a Criteria Evaluation Rubric and has a value associated with it. If eligible applications exceed available funding, applicants will be funded in rank order based on evaluation

scores. DEO reserves the option to fund all, a portion of or none of each application submitted by an applicant. Scored criteria is listed below in its order of importance. A total of 100 points are available.

Table 29: 2016-2017 General Planning Support (GPS) Program Scoring Criteria

Scoring Criteria	Maximum Points
Value to Community (Resilience enhancement and lifelines served)	25
Detailed Project Description (Purpose, mitigation value, staff, anticipated outcomes, budget)	25
Capacity Plan – Goals, stakeholders, quality controls, staffing, contractors (LMI hiring opportunities)	20
Implementation Plan	15
Budget	10
Leveraged Dollars	5

#### 2016 and 2017 DEO Administration & Planning

In accordance with the Federal Register, DEO's aggregate total for indirect costs and administrative and technical assistance expenditures will not exceed 5% of its total grant (\$31,674,250) plus program income. Planning costs are subject to the 15% cap (\$95,022,750) defined in 42 U.S.C. 5305(a) (12). The state is proposing a planning budget of 2.5% (\$15,806,958).

Per the Federal Register, CDBG-MIT funds can be used to meet a matching requirement, share or contribution for other federal grant programs if they are used to carry out an eligible mitigation activity. This includes mitigation grants administered by FEMA and the United States Army Corps of Engineers. (The maximum amount for the US Army Corps of Engineers is \$250,000.) Activities that are funded with match dollars must meet the definition of a mitigation activity and must meet the eligibility requirements for the CDBG-MIT program and the federal program that is being aided with CDBG-MIT funds.

Eligible project delivery costs are presumed included as a portion of the overall CDBG-MIT grant funding allocation provided to each subrecipient. DEO will limit spending to a maximum of 13% of the total grant amount on a combination of planning and indirect and direct program administration costs.

#### 3.3.2.3 2016 and 2017 Housing Programs

#### **Housing Oversubscription Program (HOP)**

The HOP is a housing recovery program that will create long-lasting mitigation benefits by strengthening existing, storm damaged homes to create more resilient housing. The CDBG-MIT-funded HOP program intends to rehabilitate and reconstruct homes to increase resilience to disasters and reduce or eliminate the long-term risk of loss of life, injury, damage to and loss of property, and suffering and hardship, by lessening the impact of future disasters. Per FR Vol. 84, No. 169, mitigation housing programs may include: elevation, which may be accompanied by rehabilitation, reconstruction, or new construction activities to support resilient housing; flood proofing; and wind, water, fire, earthquake retrofitting or "hardening" of single- and multifamily units to withstand future disasters. More resilient homes better enable a community to quickly recover from the impacts of future disasters and lessen the impacts on local housing stock and reduce homelessness resulting from disasters. For example, elevated homes will be able to better withstand storm surge and other flooding events. It is imperative that qualifying homeowners for HOP receive recovery and mitigation assistance as residential resilience combined with other CDBG-MIT funded actions form a comprehensive mitigation effort.

Hurricane Irma (2017) had a devastating impact on the Florida housing market, destroying thousands of homes. The Hurricane Irma HRRP is a state-run housing program administered under the State of Florida Action Plan for Disaster Recovery. Homes impacted by Hurricanes Ian (2022) and Nicole (2022) that had been served by the Hurricane Irma HRRP, through rehabilitation or reconstruction, were better able to withstand the impacts of the 2022 disasters.

Acknowledging these positive outcomes, DEO intends to utilize CDBG-MIT funding to repair, reconstruct, or replace Hurricane Irma damaged properties to create more resilient housing through the implementation of mitigation measures and Resilient Home Construction Standards such as elevation, floodproofing, storm hardening, and retrofitting. For homes located inside the floodplain, the program will elevate the lowest floor, including the basement, at least 2 feet above the base flood elevation or the high-water mark, whichever is higher. Homes located outside the designated floodplain will be elevated at least 2 feet above the highwater mark.

At present, the Hurricane Irma HRRP program is oversubscribed, with the number of HRRP applications for assistance exceeding the available program funds needed to move forward with repair or replacement of damaged homes. Consequently, HRRP applicants potentially eligible for assistance are unable to be served unless further funding becomes available. CDBG-MIT funds have been allocated to the HOP to help address HRRP funding limitations, serve homeowners in the state's recovery process, and fund the incorporation of mitigation measure to better mitigate against future disasters. The HRRP awarded applicants based on specific prioritization of vulnerable populations. For additional details of the Hurricane Irma HRRP, please refer to the state action plan on DEO's CDBG-DR website at https://www.floridajobs.org/cdbg-dr/hurricane-irma.

To qualify for assistance through the HOP, a project must meet one or more of the following criteria:

- Resilient Home Construction Standards (RHCS): Typical housing mitigation programs may include buyouts (potentially accompanied by additional housing or homeownership assistance for relocated families); elevation (which may be accompanied by rehabilitation, reconstruction, or new construction activities to support resilient housing); flood proofing; and wind, water, fire, earthquake retrofitting or "hardening" of single- and multi-family units to withstand future disasters. In compliance with HUD goals, as expressed in Federal Register Notice Vol. 83, No. 28, February 9, 2018, the program has established RHCS to enhance property resistance to future wind-borne disasters. This standard includes resiliency and mitigation measures that are intended to provide enhanced construction materials for specific housing components including roofing, windows, and doors. The RHCS will be applied to all homes that have verified remaining unmet needs due to Hurricane Irma which will be repaired by the program.
- Green Building Standard for Replacement and New Construction of Residential Housing: As outlined in FR Vol. 83 No. 28, grantees must meet the following Green Building Standards for:
  - o All new construction of residential buildings and
  - All replacement of substantially damaged residential buildings. Replacement of residential buildings may include reconstruction (i.e., demolishing and rebuilding a housing unit on the same lot in substantially the same manner) and may include changes to structural elements such as flooring systems, columns, or load-bearing interior or exterior walls.

Green Building Standards: For purposes of program implementation, the Green Building Standard means that the grantee will require that all construction covered by RHCS, as described above and detailed in FR Vol. 83, No. 28, will meet an industry-recognized standard that has achieved certification under at least one of the following programs: (i) ENERGY STAR (Certified Homes and Multifamily High-Rise), (ii) Enterprise Green Communities, (iii) LEED (New Construction, Homes, Midrise, Existing Buildings Operations and Maintenance, or Neighborhood Development), (iv) ICC-700 National Green Building Standard, (v) EPA Indoor AirPlus (ENERGY STAR a prerequisite) or (vi) any other equivalent comprehensive Mitigation Policy Manual 95 | Page green building program acceptable to HUD. Grantees must identify, in each project file, which Green Building Standard will be used on any building.

- Elevation Standards for New Construction, Repair of Substantial Damage, or Substantial Improvement: The following elevation standards apply to new construction, repair of substantial damage, or substantial improvement of structures located in an area delineated as a flood hazard area or equivalent in FEMA's data source identified in 24 CFR 55.2(b)(1). To mitigate risks identified in a grantee's Mitigation Needs Assessment, all structures, defined at 44 CFR 59.1, designed principally for residential use and located in the 100-year (or 1 percent annual chance) floodplain that receive assistance for new construction, repair of substantial damage, or substantial improvement, as defined at 24 CFR 55.2(b)(10), must be elevated with the lowest floor, including the basement, at least two feet above the base flood elevation. Alternatively, grantees may choose to adopt the design flood elevation standards of ASCE-24 if it results in an elevation higher than two feet above base flood elevation.
  - Mixed-use structures with no dwelling units and no residents below two feet above base flood elevation must be elevated or floodproofed, in accordance with FEMA flood proofing standards at 44 CFR 60.3(c)(3)(ii) or successor standard, up to at least two feet above base flood elevation.
  - All Critical Actions, as defined at 24 CFR 55.2(b)(3), within the 500-year (0.2 percent annual chance) floodplain must be elevated or food proofed (in accordance with the FEMA standards) to the higher of the 500-year floodplain elevation or three feet above the 100-year floodplain elevation. If the 500-year floodplain is unavailable, and the Critical Action is in the 100-year floodplain, then the structure must be elevated or floodproofed at least three feet above the 100-year floodplain elevation. Critical Actions are defined as an "activity for which even a slight chance of flooding would be too great, because such flooding might result in loss of life, injury to persons, or damage to property." For example, Critical Actions include hospitals, nursing homes, police stations, fire stations and principal utility lines.
- Grantees are reminded that the use of recovery funds, including elevation of structures, must comply with
  all applicable federal accessibility standards. Applicable state, local, and tribal codes and standards for
  floodplain management that exceed these requirements, including elevation, setbacks, and cumulative
  substantial damage requirements, must be followed.

Table 30: 2016-2017 Housing Oversubscription Program (HOP)

Housing Oversubscriptions Program (HOP)		
Funding Dollars	\$45,554,289.16	
Funding Percentage	<mark>7.2%</mark>	
HUD-MID Area Allocation Minimum	\$22,777,144.58	
LMI Designation Allocation Minimum	\$22,777,144.58	
Applicant Minimum & Maximum	\$350,000, except in Monroe County which has a maximum assistance of \$650,000	
Application Type	Citizen	
Applicant Eligibility	Eligible Applicants who have been awarded through the CDBG-DR Hurricane Irma HRRP	
Geographic Eligibility	HUD and State designated MIDs	
National Objectives Fulfilled	LMI	
Hazard Risks Addressed	Flooding, Severe Storms, Tropical Cyclones, Coastal Erosion, Wildfires	
Lifelines Protected	Safety and Security, Food, Water and Shelter	

# 3.4 2018 CDBG-MIT Program

To streamline program delivery, DEO will offer one consolidated program for 2018 Mitigation: General Infrastructure Program (2018 GIP). The program focuses on risk reduction for the hazards identified in the state Action Plan's risk-based mitigation needs assessment. These hazards include flooding, severe storms, tropical cyclones, coastal erosion, and wildfires. At this time, the CDBG-MIT program will not pursue housing as a program activity. The state is addressing the housing need through the CDBG-DR grant funds administered by DEO.

### 3.4.1.1 2018 CDBG-MIT Program Details

#### 2018 General Infrastructure Program (2018 GIP) Overview

The 2018 GIP will account for 90% of the total CDBG-MIT grant funding. It is a broad and flexible program that will fund local, multi-jurisdictional and regional investments that include:

- Upgrading of water, sewer, solid waste, communications, energy, transportation, health and medical and other public infrastructure projects that will reduce the hazard risks identified in the Mitigation Needs Assessment portion of this Action Plan.
- Hardening of critical buildings that serve a public safety purpose for local communities. This program will
  enable local police, fire, shelters and local emergency management facilities and other designated critical
  facilities to better withstand the effects of the previously identified hazard risks. Examples of hardening
  against flood, fire, storms and coastal erosion include, but are not limited to, dry proofing, wet proofing,
  anchoring roof-mounted heating, shelters, ventilation and air-conditioning units and retrofitting building
  exteriors with hazard-resistant materials in accordance with -national safety standards.
- Hardening and energy resiliency projects that help ensure that the most critical facilities in Florida communities have access to power throughout and following an emergency when local sources of power are down. Critical facilities include, but are not limited to, potable water facilities, wastewater facilities, police departments, fire departments, hospitals, emergency operation centers and emergency shelters.

The state currently has no plans to fund housing programs with the CDBG-MIT funds, but recognizes that vulnerable populations include children, senior citizens, persons with disabilities, persons from diverse cultures, immigrants, transportation disadvantaged, homeless persons, persons with chronic medical disorders and persons with limited English or who are altogether non-English speaking. The state certifies that it will conduct and carry out grant expenditures in conformity with Title VI of the Civil Rights Act of 1964 (42 USC 2000d) and the Fair Housing Act (42 USC 3601-3619) and implementing regulations, and that it will affirmatively further fair housing as applicable to its projects.

General Infrastructure dollars will allow local and regional units of government to address their most pressing hazard mitigation needs and will require subgrantee applicants to document how their proposed projects will meet or exceed hazard reduction needs of their most vulnerable citizens and identify which critical lifelines are protected by each proposed project. Other considerations such as multi-use facilities and natural infrastructure developments are encouraged.

Table 31: 2018 General Infrastructure Program (2018 GIP)

2018 General Infrastructure Program (2018 GIP)		
Funding Dollars	\$42,233,400	
Funding Percentage	90%	
HUD-MID Area Allocation Minimum	\$21,116,700	

LMI Designation Allocation Minimum	\$21,116,700	
Applicant Minimum & Maximum	\$500,000 - \$42,233,400	
Application Type	Subrecipient	
Applicant Eligibility	UGLG, state agencies, and other applicants including, but not limited to, non-profits and non-governmental agencies that apply in partnership with their local UGLG or state agencies.	
Geographic Eligibility	HUD and State designated MIDS	
National Objectives Fulfilled	LMI and Urgent Need	
Hazard Risks Addressed	Flooding, Severe Storms, Tropical Cyclones, Coastal Erosion, Wildfires	
Lifelines Protected	Safety and Security, Food, Water and Shelter, Health and Medical, Energy, Communications, Transportation, Hazardous Materials	

The 2018 GIP will be implemented in one round:

The CDBG-MIT Program will select projects based on the rankings from the scores with additional consideration to ensure that funding is applied in an equitable manner on a geographic basis.

#### 2018 GIP Eligibility Criteria

To be eligible for funding, an application must:

- 1. Be eligible as an activity authorized under title I of the Housing and Community Development Act of 1974 (42 U.S.C. 5301 et seq.) (HCDA). HCDA activities that meet the criteria for these funds include:
  - A. The acquisition, construction, reconstruction, or installation (including design features and improvements with respect to such construction, reconstruction, or installation that promote energy efficiency) of public works, facilities (except for buildings for the general conduct of government), and site or other improvements;
  - B. The payment of the non-Federal share required in connection with a Federal grant-in-aid program undertaken as part of activities assisted under this title;
  - C. The provision of assistance including loans (both interim and long-term) and grants for activities which are carried out by public or private nonprofit entities, including:
    - i. acquisition of real property;
    - acquisition, construction, reconstruction, rehabilitation or installation of public facilities (except for buildings for the general conduct of government), site improvements, and utilities, and commercial or industrial buildings or structures and other commercial or industrial real property improvements;
  - D. Provision of assistance by recipients under this title to institutions of higher education having a demonstrated capacity to carry out eligible activities under this subsection for carrying out such activities<sup>99</sup>.
- Meet a national objective (LMI or Urgent Need- Mitigation), unless the activity is for an eligible planning activity;
- 3. Be in conformance with the State Mitigation Plan and Local or Tribal Mitigation Plan approved under 44 CFR part 201.4; or for Indian Tribal governments acting as grantees, be in conformance with the Tribal Mitigation Plan approved under 44 CFR 201.7;
- 4. Have a beneficial impact upon the designated disaster area;

- 5. Solve a problem independently or constitute a functional portion of a solution in which there is assurance that the project will be completed. Projects that merely identify or analyze hazards or problems are not eligible;
- Consider the following for any flood mitigation project: high wind, continued sea level rise and ensure responsible floodplain and wetland management based on the history of flood mitigation efforts and the frequency and intensity of precipitation events.
- 7. As a condition of consideration for CDBG-MIT project funding, applicants will be required to identify their plans for funding operations and maintenance costs (when applicable). Long-term maintenance and operating costs are ineligible under CDBG-MIT funding except as identified at 84 FR 45838 Section V.A.9.
- 8. Be cost-effective and substantially reduce the risk of future damage, hardship, loss or suffering resulting from a major disaster. The grantee must demonstrate this by documenting that the project:
  - A. Addresses a problem that has been repetitive or a problem that poses a significant risk to public health safety if left unsolved;
  - B. Cost less than the anticipated value of the reduction in both direct damages and subsequent negative impacts to the area if future disasters were to occur;
  - C. Have been determined to be the most practical, effective and environmentally sound alternative after consideration of a range of options;
  - D. Contributes, to the extent practicable, to a long-term solution to the problem it is intended to address; and
  - E. Consider long-term changes to the areas and entities it protects and have manageable future maintenance and modifications requirements.

#### 2018 GIP Application Process

Eligible applicants will be invited to submit applications proposing GIP projects for funding through the CDBG-MIT program. Responses will be evaluated to ensure the proposed projects meet the minimum criteria as outlined in the GIP Program Guideline application materials. Responses that meet minimum threshold requirements will then be evaluated according to the scoring criteria outlined below.

Applications must, at a high level, describe their project and address how it will serve to mitigate risks attributable to threats identified in the State of Florida Action Plan Risk-Based Mitigation Needs Assessment. Plans must also include a proposed budget with a detailed description of anticipated costs by category, including support services and program management and administration.

DEO will host a webinar to provide an overview of the GIP Guidelines, specific to the application process. The webinar will include a live question and answer period. DEO will also provide an opportunity for applicants to schedule 20-minute, one-on-one phone calls with DEO's mitigation staff. These calls will provide applicants an opportunity to ask questions and/or discuss issues specific to their project and the application process.

Applicants may check on the status of their submissions by sending an email to <a href="mailto:cdbg-mit@deo.myflorida.com">cdbg-mit@deo.myflorida.com</a> or checking online at: <a href="mailto:www.floridajobs.org/CDBG-MIT">www.floridajobs.org/CDBG-MIT</a>.

#### 2018 GIP Criteria & Scoring

Applications will be evaluated to determine the mitigation value and cost effectiveness of the proposed project. An applicant's planning strategy and management capacity must be evident. The threshold/unscored requirements include meeting all GIP eligibility criteria (see previous page). Applicants that do not meet threshold eligibility requirements will not progress to the scoring stage.

Each scored element of the applications is included in a Criteria Evaluation Rubric and has a value associated with it. If eligible applications exceed available funding, applicants will be funded in rank order based on evaluation scores. DEO reserves the option to fund all, a portion of or none of each application submitted by an applicant. Scored criteria is listed below in its order of importance. A total of 150 points are available.

Table 32: 2018 MIT General Infrastructure Program (GIP) Scoring Criteria

Scoring Criteria	Maximum Points
Overall LMI Benefit	30
Value to Community (Resilience enhancement and lifelines served)	20
Detailed Project Description (Purpose, mitigation value, staff, anticipated outcomes, budget)	20
Special Designation (e.g. Fiscally-Constrained, Rural, Area of Critical State Concern)	15
Capacity Plan – Goals, stakeholders, quality controls, staffing, contractors (LMI hiring opportunities)	15
HUD- and State-Designated MID Areas Served	10
SoVI <sup>®</sup> Score	10
Implementation Plan	10
Budget	10
Leveraged Dollars	10

### 3.4.1.2 2018 DEO Planning and Administration Costs

In accordance with the Federal Register, DEO's aggregate total for indirect costs and administrative and technical assistance expenditures will not exceed 5% of its total grant (\$2,346,300) plus program income. Planning costs are subject to the 15% cap (\$7,038,900) defined in 42 U.S.C. 5305(a) (12).

Per the Federal Register, CDBG-MIT funds can be used to meet a matching requirement, share or contribution for other federal grant programs if they are used to carry out an eligible mitigation activity. This includes mitigation grants administered by FEMA and the United States Army Corps of Engineers. (The maximum amount for the US Army Corps of Engineers is \$250,000.) Activities that are funded with match dollars must meet the definition of a mitigation activity and must meet the eligibility requirements for the CDBG-MIT program and the federal program that is being aided with CDBG-MIT funds.

Eligible project delivery costs are presumed included as a portion of the overall CDBG-MIT grant funding allocation provided to each subrecipient. DEO will limit spending to a maximum of 13% of the total grant amount on a combination of planning and indirect and direct program administration costs.

## 4.0 CITIZEN PARTICIPATION

The citizen participation plan for the CDBG-MIT allocation will provide a reasonable opportunity for citizen comment and ongoing citizen access to information about the use of grant funds. Before DEO adopts this Action Plan or any Substantial Amendment to this Plan, DEO will publish the proposed Plan or Amendment on DEO's main CDBG-MIT website, <a href="mailto:floridajobs.org/rebuildflorida/mitigation">floridajobs.org/rebuildflorida/mitigation</a>. DEO and/or subrecipients will notify affected citizens to participate in a public comment period through electronic mailings, press releases, statements by public officials, media advertisements, public service announcements, newsletters, contacts with neighborhood organizations and/or through social media.

DEO will ensure that all citizens have equal access to information about the programs, including persons with disabilities (vision and hearing impaired) and Limited English Proficiency (LEP). DEO's website includes an Interpretive Translation Notice informing citizens in 15 different languages that translation services are available upon request. DEO consulted the "Final Guidance to Federal Financial Assistance Recipients Regarding Title VI, Prohibition Against National Origin Discrimination Affecting Limited English Proficient Persons," published on January 22, 2007, in the Federal Register (72 FR 2732), in order to comply with citizen participation requirements. Further details on Accessibility can be found below in Section F.

DEO encourages participation and will take general comments via USPS mail or email at:

Attention: Disaster Recovery Programs

Florida Department of Economic Opportunity

107 East Madison Street

The Caldwell Building, MSC 400

Tallahassee, Florida 32399-2100

cdbg-mit@deo.myflorida.com

# 4.1 Publication

### 4.1.1 2016 and 2017 CDBG-MIT Allocation

Before its adoption, the proposed Action Plan was published on the DEO website, <u>floridajobs.org/rebuildflorida/mitigation</u> for a 45-day public comment period on December 9, 2019. DEO incorporated and addressed citizen comments received during that period into the final Action Plan. A summary of public comments and responses can be found in Appendix E.

### 4.1.2 2018 CDBG-MIT Allocation

Substantial Amendment 2, ahead of its formal adoption, was posted on the DEO website floridajobs.org/rebuildflorida/mitigation for a 30-day public comment period, beginning May 24, 2021 and ending June 23, 2021. During the 30 day public comment period, a virtual public hearing was held on June 8<sup>th</sup>. Following the comment period, DEO incorporated and addressed public comments received into the final Substantial Amendment of the CDBG-MIT Action Plan.

### 4.1.3 Public Website

DEO will maintain a public website that provides information accounting for how all grant funds are used and managed/administered, including: links to all Action Plans, Action Plan Amendments, CDBG–MIT program policies

and procedures, performance reports, citizen participation requirements, and activity/program information for activities described in its action plan, including details of all contracts and ongoing procurement policies.

DEO will make the following items available on <a href="http://floridajobs.org/rebuildflorida/mitigation">http://floridajobs.org/rebuildflorida/mitigation</a>: (1) the Action Plan (including all amendments); each Quarterly Performance Report (QPR) as created using the DRGR system; (2) Policies and Procedures Manual; (3) Program Guidelines; (4) executed CDBG-MIT contracts; and (5) status of services or goods currently being procured by DEO (e.g., phase of the procurement, requirements for proposals, etc.).

Additionally, DEO posts important information regarding public participation for the CDBG-MIT program on <a href="http://floridajobs.org/rebuildflorida/mitigation">http://floridajobs.org/rebuildflorida/mitigation</a>. This includes links to the Federal Register, short informative summaries and overviews of the programs, webinar recordings for individuals who could not participate or may want reminders on program specifics and other program participation links.

## 4.1.4 Public Engagement

Seeking input from stakeholders and communities around the state is an important component of the planning process. DEO used a variety of methods to inform local officials and the public on the purpose and goals of mitigation, understanding risks, threats and hazards in the MID areas and gathering feedback on how to craft programs that will meet the needs of communities as quickly as possible. In addition to gaining feedback, this process helped local stakeholders and members of the public understand what to expect from CDBG-MIT funding and allowed them to play a key role in shaping the outcomes of this plan. The outreach methods, along with the feedback obtained, are included below.

#### **4.1.4.1 Webinars**

#### 2016 and 2017 CDBG-MIT Allocation

Over the course of the planning period, DEO conducted two webinars to keep stakeholders informed of the process and to solicit feedback.

- The first webinar was held on October 16, 2019. There were 145 participants. The purpose of this live
  webinar was to provide an orientation and education regarding the state Action Plan planning and
  implementation process for CDBG-MIT professional partners and to set the stage for upcoming visits to
  communities.
- DEO will continue to hold webinars in response to participant feedback to promote an open line of communication with stakeholders.

#### 2018 CDBG-MIT Allocation

Over the course of the planning period, DEO conducted one webinar to provide an additional public hearing avenue where stakeholders were informed of the process and could solicit feedback to support the Substantial Amendment development.

- The webinar was held on April 26, 2021. There were 99 participants. The purpose of this live webinar was
  to provide an orientation and education regarding the Substantial Amendment planning and
  implementation process for CDBG-MIT partners and stakeholders.
- DEO will continue to hold webinars in response to participant feedback to promote an open line of communication with stakeholders.

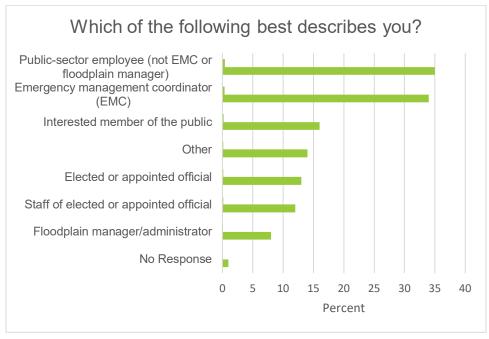
### 4.1.4.2 Community Stakeholder Survey

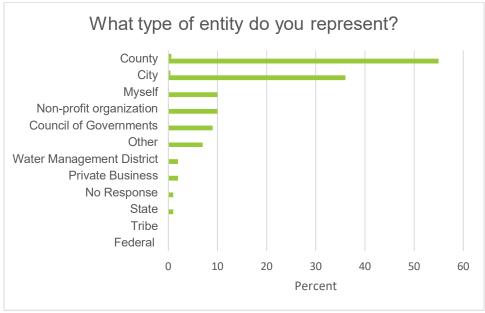
#### 2016 and 2017 CDBG-MIT Allocation

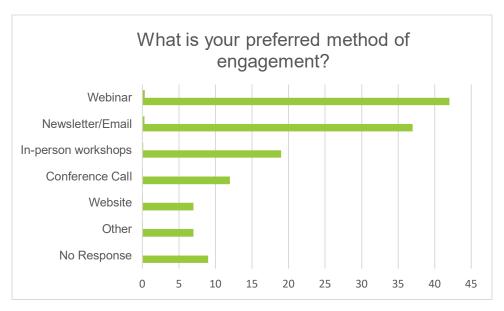
Prior to the publication of the Federal Register, DEO developed a survey to capture feedback from communities that were in the HUD-identified MIDs and to allow for additional input from communities that were not able to

attend stakeholder meetings. The survey was opened on May 31, 2019 and closed November 30, 2019. The survey gathered feedback from Florida communities regarding their mitigation needs and priorities. In addition, survey respondents were asked to rank various mitigation program needs based on risks, hazards and threats. They were also given an opportunity to suggest additional program ideas. The Community Engagement Survey Questions and Answer Options are included in Appendix A: - Community Engagement Survey Questions. A Summary of Survey Responses is included in Appendix B – Survey Summary Report.

The cumulative results from the initial outreach survey follow:







As displayed in preceding tables of the 133 survey respondents, most are those who described themselves as public-sector employees (26.3%). The second most common type of respondents were Emergency Management Coordinators at 25.5%. Most of the respondents represent their counties (41%); cities were the second-most represented (27%). The preferred method of communication is webinar (32%) followed closely by newsletter or email (28%).

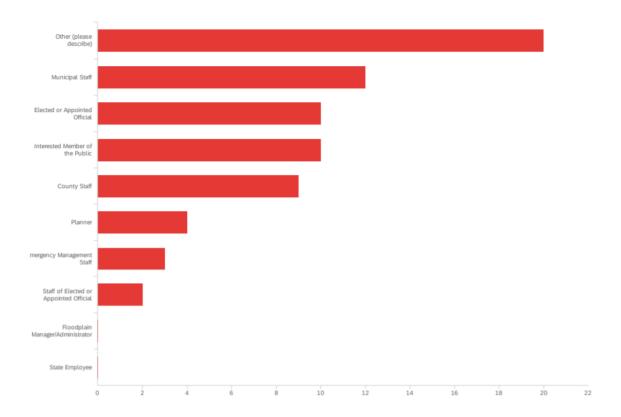
These preliminary statistics were considered with the recognition that certain groups were underrepresented and will be specifically sought after in future survey efforts. During the public comment period DEO endeavored to incorporate feedback, particularly from those who were not reached during initial engagement efforts.

#### 2018 CDBG-MIT Allocation

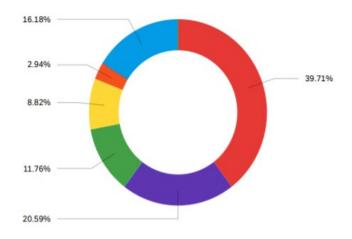
To assist in the development of the Substantial Amendment, DEO created a survey to capture feedback from communities located in the HUD-identified MIDs and to provide an avenue for input from individuals that were unable to attend stakeholder meetings. The survey was opened on April 15, 2021 and closed on April 30, 2021. The survey gathered feedback from Florida's Panhandle communities regarding their disaster mitigation needs and priorities. In addition, survey respondents were asked to rank various mitigation program needs based on risks, hazards, and threats. They were also given an opportunity to suggest additional program ideas. The Community Engagement Survey Questions and Answer Options are included in Appendix A: - Community Engagement Survey Questions. A Summary of Survey Responses is included in Appendix B – Survey Summary Report.

The cumulative results from the initial outreach survey follow:

### Q1 - Which of the following best describes you?



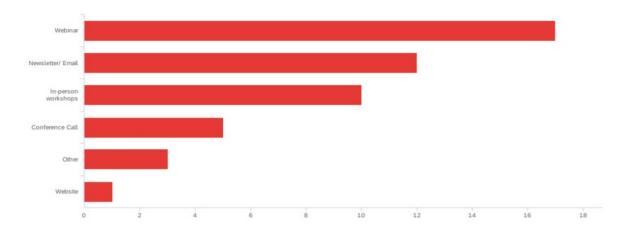
Q2 - What type of entity do you represent?



Q15 - If you are interested in remaining informed of the state's development and

implementation of the State Mitigation Action Plan, what is your preferred method of

### engagement?



As displayed in preceding tables of the 86 survey respondents, most are those who described themselves as the Other category (28.5%), where occupations represented include the non-profit and private sectors. The second most common type of respondents were Municipal Staff at 17.1%. Most of the respondents represent their cities (39.7%); counties were the second-most represented (20.5%). The preferred method of communication is webinar (35.4%) followed closely by newsletter or email (25%).

### 4.1.4.3 Public Hearings and Stakeholder Workshops

DEO, in partnership with MID communities, conducts stakeholder workshops across the state to provide resources for long-term mitigation to local governments, businesses and other organizations. CDBG-MIT information is presented to community members proceeded by a public hearing, question-and-answer session about the program and subrecipient application process. In addition to serving as a CDBG-MIT outreach platform, these meetings provide DEO with an opportunity to focus on regionally specific issues and challenges.

On March 20, 2020 HUD clarified its requirements for public hearings as provided in the main CDBG-MIT Notice, to include virtual public hearings. Virtual public hearings may be used during the public comment period required for any substantial amendments of the CDBG-MIT Action Plan. In accordance with the waiver set forth in Federal Register Vol 86, No. 3 561-569, DEO's procedures for virtual hearings are as follows:

- DEO will provide at least seven days notice for any virtual public hearings, as practical.
- DEO will post a public notice announcement on the DEO website at https://floridajobs.org/rebuildflorida/mitigation
- DEO will email the public notice announcement to the list of community members who have expressed
  interest in the CDBG-MIT program.. The signup form for this list is publicly accessible on DEO's website"
  at: https://floridajobs.org/rebuildflorida/rebuild-florida-newsletters
- A registration link and instructions will be provided in all public notices for virtual public hearings.
- During all virtual public hearings DEO will provide participants an opportunity to ask questions in real time.
- Transcripts for all virtual hearings will be translated into Haitian Creole and Spanish and will be made available on DEO's public website. Transcripts will be made available in other languages upon request. <a href="http://www.floridajobs.org/rebuildflorida/mitigation">http://www.floridajobs.org/rebuildflorida/mitigation</a>

- All virtual public hearings will be recorded and a link to the recording will be published to the website. Subtitles will be included. http://www.floridajobs.org/rebuildflorida/mitigation
- All questions submitted during virtual public hearings will be collected and summarized in Error!
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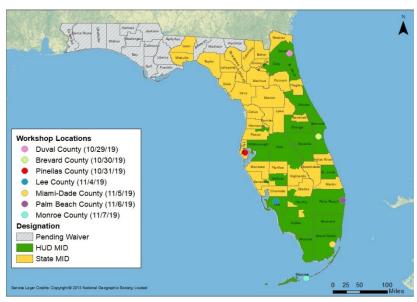
### 2016 and 2017 CDBG-MIT Allocation

For the 2016 and 2017 CDBG-MIT allocation, DEO staff traveled throughout the state and visited several of the HUD-identified MID areas. The state hosted one meeting for local leadership officials and members of the public in each region. Seven regional public hearings were held prior to the Action Plan's 45-day public comment period. At these meetings, participants were given a brief overview of the program with an opportunity to ask questions. The meetings were open dialogues with local government staff and question and answer sessions. Risks, hazards and threats were assessed, and DEO staff suggested various program options that may be available to strengthen those vulnerabilities. Community members also offered suggestions under various program planning categories provided by the DEO Mitigation Team. Table 33: Regional Public Hearings in 2016-2017 MID Areas and Figure 35 contains the dates and locations for each of these meetings.

Table 33: Regional Public Hearings in 2016-2017 MID Areas

Location	Date			
Duval County	October 29, 2019			
Brevard County	October 30, 2019			
Pinellas County	October 31, 2019			
Lee County	November 4, 2019			
Miami-Dade County	November 5, 2019			
Palm Beach County	November 6, 2019			
Monroe County	November 7,2019			

Figure 35: 2016 & 2017 CDBG-MIT Regional Public Hearing Locations



Source: Department of Economic Opportunity

During the public hearings, DEO staff responded to each comment and question as thoroughly as possible. Participants were provided information on how to remain in contact with the Mitigation Team to ensure open lines of communication between state and local partners throughout each phase of the program. Overall, concerns were outlined regarding a wide range of topics including, but not limited to, climate change considerations, hardening of establishments, subrecipient eligibility and composition of the Citizen Advisory Committee. DEO has recorded and considered all observations from these meetings in the Action Plan.

### 2018 CDBG-MIT Allocation

Table 34: 2018 CDBG-MIT Allocation Regional Public Hearing Dates

Following the 2018 CDBG-MIT allocation, DEO staff traveled to the HUD-identified MID areas located across the Panhandle. The State hosted three public hearings for local leadership officials and members of the public across the impacted Panhandle areas. At these meetings, participants were given a brief overview of the program with an opportunity to ask questions. The meetings were open dialogues with local government staff and question and answer sessions. Risks, hazards and threats were assessed, and DEO staff suggested various program options that may be available to strengthen those vulnerabilities. Community members also offered suggestions under various program planning categories provided by the DEO Mitigation Team. Table 34 and Figure 36 contain the dates and locations for each of these meetings.

Location **Date Jackson County** April 20, 2021 **Bay County** April 22, 2021 **Gulf County** April 22, 2021

Michael Public Meeting Jackson Cou (4/20/21) Bay County (4/22/21) Gulf Count (4/22/21) Florida Major Cities Florida\_Counties Fort Myers

Figure 36: 2018 Public Hearing Locations

During the public hearings, DEO staff responded to each comment and question as thoroughly as possible. Participants were provided information on how to remain in contact with the Mitigation Team to ensure open lines of communication between state and local partners throughout each phase of the program. Overall, concerns were outlined regarding a wide range of topics including, but not limited to, general infrastructure improvements, stormwater improvements, and subrecipient eligibility. Input from these meetings was incorporated into Substantial Amendment 2.

### 4.1.4.4 Direct Communication

### 2016 and 2017 CDBG-MIT Allocation

In addition to the outreach described above, DEO had many one-on-one discussions with community members by phone. DEO also sent out emails with Federal Register content summaries and other information.

### 2018 CDBG-MIT Allocation

In addition to the outreach described above, DEO anticipates one-on-one discussions with community stakeholders. DEO also anticipates emailing interested parties to provide them with Federal Register content summaries and other information.

## 4.1.5 Citizen Advisory Committee

The CDBG-MIT program will establish a committee of statewide representatives who will provide a forum for public participation and increased transparency in the implementation of CDBG-MIT programs. As required by the U.S. Department of Housing and Urban Development (HUD), the Committee will serve as a liaison between the communities and citizens located in state and <a href="https://hub-designated.org/">https://hub-designated.org/</a> Most Impacted and Distressed (MID) areas and DEO. One Representative per region will be appointed to serve on the Committee, with regions based on the Florida Division of Emergency Management's recovery regions. These regions cover the portions of the state that were impacted by Hurricanes Hermine, Matthew, Irma, and Michael. The Committee will meet at least biannually and act in an advisory capacity in reviewing and making recommendations to the program regarding mitigation activities including program administration, planning, and operations.

As of Substantial Amendment 2, DEO has begun accepting applications and nominations for its Citizen Advisory Committee for Mitigation. Interested parties may submit applications or nominations to the Committee using the form posted on the Citizen Advisory Committee for Mitigation webpage. Applications and nominations were due on or before May 14, 2021.

More information is available in the Citizen Advisory Committee Guidelines for Mitigation, posted on the webpage <a href="https://floridajobs.org/rebuildflorida/mitigation/citizen-advisory-committee">https://floridajobs.org/rebuildflorida/mitigation/citizen-advisory-committee</a>. For questions, please contact the Rebuild Florida Mitigation Team at CDBG-MIT@deo.myflorida.com

### 4.1.5.1 Website

DEO posts important information regarding the CDBG-MIT program on its website at <a href="www.floridajobs.org/CDBG-MIT">www.floridajobs.org/CDBG-MIT</a>. This includes links to the Federal Register, short informative summaries and overviews and webinar recordings for individuals who could not participate or may want reminders on program specifics.

### 4.1.5.2 Additional Outreach

In addition to the outreach described above, DEO staff plans to facilitate the following outreach opportunities across the life of CDBG-MIT programs:

- Application Workshop for Subgrantees;
- Citizen Advisory Committee Trainings;
- Participation at Governor's Hurricane Conference;
- Newsletters; and
- Press Releases

DEO will continue to conduct outreach with communities in partnership with other organizations throughout the implementation of this Action Plan and its Amendments to ensure that all stakeholders are aware of the opportunities that exist and have an opportunity to provide feedback along the way.

# 4.1.6 Accessibility

DEO will ensure that all citizens have equal access to information about CDBG-MIT programs, including persons with disabilities and Limited English Proficiency (LEP). Additionally, DEO will ensure that program information is available in the appropriate languages for the geographic area served by the jurisdiction.

Florida is committed to providing all citizens with equal access to information about the mitigation program, including persons with disabilities and Limited English Proficiency (LEP). The DEO website contains an embedded technology to provide accessibility to the visually impaired. In addition, DEO website features a Babel Notice informing individuals of the interpretive and translational services available upon request.

Florida follows HUD's regulation, 24 CFR Part 1, "Nondiscrimination in Federally Assisted Programs of the Department of Housing and Urban Development Effectuation of Title VI of the Civil Rights Act of 1964," which requires all recipients of federal financial assistance from HUD provide meaningful access to LEP persons. Persons who do not speak English as their primary language and who have a limited ability to read, write, speak or understand English, may be entitled to language assistance with respect to a particular type of service, benefit or encounter. To address this need, DEO has developed and implemented a <u>Language Access Plan</u>, which details how Florida will address the needs of LEP individuals.

The State of Florida Action Plan, any ensuing amendments, outreach materials, the application and related guidance materials will be published in languages selected based on the entire eligible area of the CDBG-MIT funds and a natural break in the numbers of LEP individuals. Recognizing there may be a need for individuals to have access to the document in additional languages, DEO will supply needed translation services to provide personalized translations of the Action Plan upon request.

### 4.1.6.1 2016 and 2017 CDBG-MIT Allocation

The Action Plan was made available in English, Spanish, and Haitian Creole. The plan is available on the DEO website.

### 4.1.6.2 2018 CDBG-MIT Allocation

Substantial Amendment 2 of the Action Plan will be made available in English, Spanish, and Haitian Creole.

# 4.1.7 Receipt of Comments

DEO will consider and respond to all written comments regarding the Action Plan or any Substantial Amendment.

### 4.1.7.1 2016 and 2017 CDBG-MIT Allocation

Following the development of the Draft Action Plan, DEO provided a 45-day timeframe for receiving public comments. Comments were received via an e-mail address published on the mitigation website. A summary of the public comments as well as DEO's responses are included in Error! Reference source not found..

### 4.1.7.2 2018 CDBG-MIT Allocation

Following the posting of the Substantial Amendment Draft, DEO will provide a 30-day timeframe for receiving public comments. Comments will be received via the <a href="mailto:cdbg-mit@deo.myflorida.com">cdbg-mit@deo.myflorida.com</a> email or via USPS mail from May 24, 2021 through June 23, 2021. A summary of the public comments as well as DEO's responses will be included with the final document within Appendix F - Summary of Public Comments for Substantial Amendment 2.

### 4.1.8 Public Comment and Substantial Amendments

DEO will engage citizens throughout the grant process to maximize the opportunity for input on proposed program changes that result in a substantial amendment. Program changes result in a substantial amendment when there is:

- a change in program benefit or eligibility criteria;
- the addition or deletion of an activity; and
- the allocation or reallocation of more than 25% of the total HUD CDBG-MIT allocation to the state.

Citizens will be provided with no less than 30 calendar days to review and provide comments on proposed substantial changes. A summary of all comments received will be included in the final Substantial Amendment submitted to HUD for approval.

When DEO develops a Technical Amendment or Non-Substantial Amendment, DEO will notify HUD, but is not required to undertake public comment. HUD will be notified at least five business days before the Amendment becomes effective.

Every Amendment to the Action Plan (substantial and non-substantial) will be numbered and posted on the DEO website.

## 4.1.9 Complaints Process

DEO will handle citizen complaints and inquiries through a Constituent Services Management staff. All complaints and inquiries received by the state, its contractor and/or other program sources, will be reviewed by the Constituent Services Management staff for:

- Investigation, as necessary;
- Resolution; and
- Follow-up actions.

Citizens may file a written complaint or inquiry through the DEO mitigation email at <a href="mailto:CDBG-MIT@deo.myflorida.com">CDBG-MIT@deo.myflorida.com</a> or submit by postal mail to the following address:

Attention: Rebuild Florida Constituent Services
Florida Department of Economic Opportunity

107 East Madison Street

Caldwell Building, MSC 400

Tallahassee, FL 32399

The State will make every effort to provide a timely written response within 15 working days of the receipt of complaint, where practicable. The aim of the state will be to resolve complaints in a manner that is sensitive to the complainant's concerns and achieves a fair result.

Constituent Management staff will maintain files that include:

- The name of the person who filed the complaint;
- The date the complaint was received;
- A description of the complaint;
- The name of each person contacted in relation to the complaint;
- A summary of the results of the review or investigation of the complaint; and
- An explanation of the resolution (e.g., the reason the file was closed).

# 4.1.10 Citizen Participation and Applications for Assistance

Local governments are responsible for notifying citizens of planned or proposed mitigation activities and for obtaining citizen input in accordance with their Citizen Participation Plan. Citizens can access the data via the HUD User Internet website at: <a href="https://www.huduser.gov/portal/datasets/il.html">https://www.huduser.gov/portal/datasets/il.html</a>.

# 5.0 GENERAL ACTION PLAN REQUIREMENTS

# 5.1 Implementation Plan and Capacity Assessment

As directed by HUD in conjunction with this Action Plan, the state is submitting a detailed Implementation Plan. It will be provided under separate cover on February 3, 2020. The Implementation Plan outlines the following:

- Procedures to collect timely information on application status;
- A capacity assessment;
- Staffing plan;
- Procedures ensuring internal and interagency coordination;
- Procedures to provide technical assistance; and
- Accountability procedures.

# 5.2 Projection of Expenditures and Outcomes

As directed, in conjunction with this Action Plan, the state submitted to HUD a projection of expenditures and anticipated outcomes, broken down on a quarterly basis. These projections include measures to ensure compliance with the following:

- Requirement to expend at least 50% of funds to the benefit of LMI persons
- Requirement to expend at least 50% of funds to the benefit of HUD MIDs
- Requirement to expend 50% of CDBG-MIT funds within six years of HUD's execution of the grant agreement and 100% of CDBG-MIT funds within 12 years of HUD's execution of the grant agreement

# 5.3 Program Income

The state understands that when implementing certain activities with CDBG-MIT funds, there is potential for generating program income. When implementing activities that could generate program income, the state will develop and adopt program income policies and procedures for the specific program. The state does not anticipate program income from the administration of the projects and programs in this Action Plan, however any program income generated by CDBG-MIT funds under this grant will be returned to DEO, unless otherwise specified in program policies and procedures.

Program income may be retained by local government subgrantees for the repair, operation and maintenance of publicly-owned and operated projects with CDBG-MIT funds, provided that (1) the agency that owns and operates the project has entered into a written agreement with the grantee that commits the agency to providing not less than 50% of funds necessary for the annual repair, operating and maintenance costs of the project; and (2) the grantee adopts policies and procedures to provide for the grantee's regular, on-site inspection of the project in order to ensure its proper repair, operation and maintenance. As a state grantee, DEO retains the right to request a waiver from HUD later for the use of program income for this purpose.

# 5.4 Plans to Minimize Displacement and Ensure Accessibility

The state will minimize displacement of persons or entities as a result of the implementation of CDBG-MIT projects by ensuring that all programs are administered in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act (URA) of 1970, as amended (49 CFR Part 24) and Section 104(d) of the Housing

and Community Development Act of 1974 and the implementing regulations at 24 CFR Part 570.496(a), subject to any waivers or alternative requirements provided by HUD. While nonstructural mitigation (such as elevations, buyout and/or acquisition) programs may be necessary to achieve flood risk mitigation goals and may cause displacement, most of the programs detailed in this Action Plan will be implemented with the goal of minimizing displacement of families from their homes, whether rented or owned. Moreover, in the event displacement does occur, DEO will take into consideration the functional needs of the displaced persons in accordance with guidance outlined in Chapter 3 of HUD's Relocation Handbook.

Through subrecipient certifications the state will ensure federal accessibility requirements are met including, but not limited to, the Fair Housing Act, Section 504 of the Rehabilitation Act, and Titles II and III of the Americans with Disabilities Act. All reasonable accommodations will be made.

# 5.5 Protection of People and Property and Construction Methods

The state intends to promote high quality, durable, sustainable, mold resistant and energy efficient construction methods for all activities funded with CDBG-MIT resources as applicable. These include the following minimum standards:

- Construction standards will be based on the Florida Building Code and must meet or exceed applicable requirements;
- For rehabilitation construction, the state will follow the Green Building Retrofit Checklist to the extent
  applicable to the rehabilitation work undertaken, including the use of mold resistant products when
  replacing surfaces such as drywall. When older or obsolete products are replaced as part of the
  rehabilitation work, rehabilitation is required to use ENERGY STAR-labeled, WaterSense-labeled, or
  Federal Energy Management Program (FEMP)-designated products and appliances or other equivalent.

# 5.6 Section 3

DEO has established compliant standards for construction. Construction contractors will be qualified through an invitation to bid process. To ensure full and open competition, through an invitation to bid process, DEO will follow 24 CFR 570.489(g) at a minimum. Contractors will comply with Section 3 of the Housing and Urban Development Act of 1968 (12. U.S.C. 1700lu) and its implementing regulations at 24 CFR part 153. Contractors selected under DEO will ensure, to the greatest extent feasible, that employment and business opportunities will be directed to qualified low and very low-income persons and business concerns that provide economic opportunities to low-income persons. Contractors will make every effort to recruit, target, and direct opportunities to Section 3 residents and businesses as well as notifying Section 3 residents about training opportunities. DEO will provide Contractors with helpful resources to maximize these efforts including, but not limited to, a Section 3 Business Registry and examples of training and employment opportunities. Contractor procurement procedures will be monitored by DEO.

DEO will require both quality inspections and code compliance inspections on all projects. Site inspections will be required on all projects to ensure quality and compliance with building codes. The DEO will encourage and support subrecipients' efforts to update and strengthen local compliance codes to mitigate hazard risks due to sea level rise, high winds, storm surge, and flooding where applicable. In the project application, subrecipients will submit an explanation of both current and future planned codes to mitigate hazard risks. The DEO will provide technical guidance on hazard mitigation code examples.

## 5.7 Flevation Standards

As applicable, the state will, at a minimum, adhere to the advanced elevation requirements established in section V.B. I.D. of the FRN, subtitled "Elevation standards for new construction, repair of substantial damage, or substantial improvement." Future property damage will be minimized by requiring that any rebuilding be done according to the best available science for that area with respect to base flood elevations. Infrastructure hardening projects within a floodplain will be built with at least two feet of freeboard above Base Flood Elevation or with a minimum of three feet of freeboard if the project is a critical facility <sup>100</sup>.

As applicable and within its policies and procedures on a program-by-program basis, the state or its subgrantees will document decisions to elevate structures. This documentation will address how projects will be evaluated and how elevation costs will be reasonably determined relative to other alternatives or strategies, such as the demolition of substantially-damaged structures with reconstruction of an elevated structure on the same site, property buyouts, or infrastructure improvements to reduce the risk of loss of life and property.

## 5.8 Natural or Green Infrastructure Standards

The state recognizes that natural or green infrastructure methods provide drainage functions to reduce storm water runoff while offering low-cost and attractive site design options. All commercial or institutional construction or retrofitting funded through programs within this Action Plan must utilize one of the following green infrastructure strategies to reduce runoff, retain water and improve water quality on the subject site:

- 1. Retaining or planting native vegetation;
- 2. Removing existing impervious surface area or utilizing pervious pavement;
- 3. Installing bio swales or other retention areas;
- 4. Collecting rainwater for non-potable uses; and
- 5. Installing green roofs.

# 5.9 Green Building Standards

All replacement and/or reconstruction of substantially-damaged buildings must incorporate Green Building Standards must follow guidelines in the HUD CPD Green Building Retrofit Checklist. Any construction subject to the Green Building Standards must meet an industry-recognized standard and achieve certification under at least one of the following programs:

- ENERGYSTAR;
- Enterprise Green Communities;
- IFFD:
- ICC-700 National Building Standard;
- EPA Indoor AirPlus; and
- Any other equivalent comprehensive green building program deemed acceptable to HUD and approved by DEO.

For construction projects completed, under construction or under contract prior to the date that assistance is approved for the project, adherence to the applicable standards to the extent feasible is encouraged, but not required.

<sup>100</sup> https://www.fema.gov/base-flood-elevation

All state-administered programs may use a third-party inspection service to ensure that Green Building Standards are met using standardized checklists developed from the above-listed programs.

# 5.10 Operation and Maintenance Plans

FRN-6109-N-02 allows for flexibility in the use of program income to address on-going operations and maintenance of mitigation projects. Such eligible uses include repair, operation and maintenance of publicly owned projects financed with CDBG–MIT funds. The state will request an appropriate waiver in order to avail itself of this flexibility for itself and subgrantees as appropriate.

Because site-specific mitigation projects are not included in this Action Plan and are addressed as an anticipatory activity in Section VI, and in furtherance of the state's mission and in accordance with federal requirements, the state will address the following requirements within its policies and procedures on a program-by-program basis, including specific benchmarks instituted to ensure operations and maintenance requirements are met:

- State or local resources must be identified for the operation and maintenance costs of projects assisted with CDBG-MIT funds;
- If operations and maintenance plans are reliant on any proposed changes to existing taxation policies or tax collection practices, those changes and relevant milestones must be expressly addressed; and
- Any public infrastructure or facilities funded with CDBG-MIT resources must illustrate their ability to account for long-term operation and maintenance needs beyond an initial investment of CDBG-MIT funds.

## 5.11 Cost Verification Procedures

All construction activities that utilize CDBG-MIT funds must be reasonable and consistent with market costs at the time and place of construction. For infrastructure projects, the DEO will rely on licensed engineers responsible for project budget justification, construction code requirements and CDBG-MIT project funding maximums.

DEO will encourage subrecipients to consider the costs and benefits of the project when selecting CDBG-MITeligible projects. DEO may use an independent, qualified third-party architect, construction manager or other professional (e.g., a cost estimator) to verify the planned project costs and cost changes to the contract (e.g., change orders) during implementation are reasonable.

The proposed projects undergo application review which includes a cost verification. Each identified covered projects will be required to conduct a benefit cost analysis (BCA).

More detailed cost verification requirements for Covered Projects will be provided by the state in accordance with Section V.A.2.H. of the FRN, as applicable.

# 5.12 Monitoring Standards and Procedures

The state has adopted monitoring standards, including procedures to ensure program requirements (including non-duplication of benefits) are met, and to provide for continual quality assurance and adequate program oversight. These standards and procedures are included in the pre-award Implementation Plan as required by the Federal Register. Monitoring will be conducted by DEO, which will be supported by an external vendor procured through competitive solicitation to ensure that program activities progress toward timely completion and to allow for the early identification of potential issues and problems, so they can be prevented or corrected. Monitoring will also include environmental compliance under 24 CFR Part 58. DEO currently has staff that will oversee environmental compliance. Additionally, the current staff will be augmented by external vendors procured through competitive solicitation.

The DEO monitoring program includes desk monitoring and onsite monitoring with priority and frequency based on the results of a risk assessment of each subrecipient. The purpose of the risk assessment is to define the scope and focus of the monitoring efforts, including establishing a framework for determining the appropriate level of monitoring consistent with available resources. In addition, the risk assessment will be required each state fiscal year to guarantee continuous review of risks. DEO monitoring is based on criteria consistent with HUD guidance in assessing program risk. The risk assessment provides the basis for developing individual monitoring strategies and documents the decisions and recommendations regarding where to apply staff and travel resources for monitoring, training and/or technical assistance.

The Florida Auditor General and staff will act as the state's independent auditor and conduct financial audits of the accounts and records of state agencies. When applicable, accounting policies and procedures of DEO will mirror the requirements of the Office of Auditor General.

The state of Florida is dedicated to the prevention of fraud, waste and abuse. DEO's Office of the Inspector General serves as DEO's internal auditor. Internal audit functions associated with Mitigation funding may be supported by external vendors procured through competitive solicitation. All suspected cases of fraud will be taken seriously, and complaints will be reported to DEO's Office of the Inspector General at OIG@deo.myflorida.com or 1-855-456-0650. If the Office of Inspector General has reasonable grounds to believe there has been a violation of criminal law, the Office will report expeditiously to the appropriate law enforcement agency.

# 6.0 CERTIFICATIONS OF CONTROLS, PROCESSES AND PROCEDURES

# 6.1 Certification of Controls, Processes and Procedures

The State of Florida Department of Economic Opportunity submitted the Certification and Risk Analysis Documentation to HUD on December 6th, 2019 as required.

## 6.2 CDBG-MIT Certifications

24 CFR 91.225 and 91.325 are waived. Each grantee receiving a direct allocation of CDBG-MIT funds must make the following certifications with its action plan:

- a. The grantee certifies that it has in effect and is following a residential anti-displacement and relocation assistance plan in connection with any activity assisted with CDBG-MIT funding.
- b. The grantee certifies its compliance with restrictions on lobbying required by 24 CFR part 87, together with disclosure forms, if required by part 87.
- c. The grantee certifies that the action plan is authorized under State and local law (as applicable) and that the grantee, and any entity or entities designated by the grantee, and any contractor, subrecipient, or designated public agency carrying out an activity with CDBG-MIT funds, possess(es) the legal authority to carry out the program for which it is seeking funding, in accordance with applicable HUD regulations and this notice. The grantee certifies that activities to be undertaken with CDBG-MIT funds are consistent with its action plan.
- d. The grantee certifies that it will comply with the acquisition and relocation requirements of the URA, as amended, and implementing regulations at 49 CFR part 24, except where waivers or alternative requirements are provided for CDBG-MIT funds.
- e. The grantee certifies that it will comply with Section 3 of the Housing and Urban Development Act of 1968 (12 U.S.C. 1701u) and implementing regulations at 24 CFR part 135.
- f. The grantee certifies that it is following a detailed citizen participation plan that satisfies the requirements of 24 CFR 91.115 or 91.105 (except as provided for in notices providing waivers and alternative requirements for this grant). Also, each local government receiving assistance from a State grantee must follow a detailed citizen participation plan that satisfies the requirements of 24 CFR 570.486 (except as provided for in notices providing waivers and alternative requirements for this grant). Start Printed Page 45870
- g. State grantee certifies that it has consulted with affected local governments in counties designated in covered major disaster declarations in the non-entitlement, entitlement, and tribal areas of the State in determining the uses of funds, including the method of distribution of funding, or activities carried out directly by the State.
- h. The grantee certifies that it is complying with each of the following criteria:
  - Funds will be used solely for necessary expenses related to mitigation activities, as applicable, in the most impacted and distressed areas for which the President declared a major disaster in 2015, 2016, or 2017 pursuant to the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1974 (42 U.S.C. 5121 et seq.);

- With respect to activities expected to be assisted with CDBG-MIT funds, the relevant action plan has been developed to give priority to activities that will benefit low- and moderate-income families;
- The aggregate use of CDBG-MIT funds shall principally benefit low- and moderate-income families in a manner that ensures that at least 50 percent (or another percentage permitted by HUD in a waiver published in an applicable Federal Register notice) of the CDBG-MIT grant amount is expended for activities that benefit such persons; and
- The grantee will not attempt to recover any capital costs of public improvements assisted with CDBG-MIT funds by assessing any amount against properties owned and occupied by persons of low- and moderate-income, including any fee charged or assessment made as a condition of obtaining access to such public improvements, unless: (a) CDBG-MIT funds are used to pay the proportion of such fee or assessment that relates to the capital costs of such public improvements that are financed from revenue sources other than under this title; or (b) for purposes of assessing any amount against properties owned and occupied by persons of moderate income, the grantee certifies to the Secretary that it lacks sufficient CDBG funds (in any form) to comply with the requirements of clause (a).
- i. The grantee certifies that the grant will be conducted and administered in conformity with title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), the Fair Housing Act (42 U.S.C. 3601-3619), and implementing regulations, and that it will affirmatively further fair housing.
- j. The grantee certifies that it has adopted and is enforcing the following policies, and, in addition, must certify that they will require local governments that receive grant funds to certify that they have adopted and are enforcing:
  - A policy prohibiting the use of excessive force by law enforcement agencies within its jurisdiction against any individuals engaged in nonviolent civil rights demonstrations; and
  - A policy of enforcing applicable State and local laws against physically barring entrance to or exit from a facility or location that is the subject of such nonviolent civil rights demonstrations within its jurisdiction.
- k. The grantee certifies that it (and any subrecipient or administering entity) currently has or will develop and maintain the capacity to carry out mitigation activities, as applicable, in a timely manner and that the grantee has reviewed the respective requirements of this notice. The grantee certifies to the accuracy of its Public Law 115-56 Financial Management and Grant Compliance certification checklist, or other recent certification submission, if approved by HUD, and related supporting documentation referenced at section V.A.1.a of this notice and its implementation plan and capacity assessment and related submissions to HUD referenced at section V.A.1.b. (See Implementation Plan.)
- The grantee certifies that it considered the following resources in the preparation of its action plan, as appropriate: FEMA Local Mitigation Planning Handbook: https://www.fema.gov/media-librarydata/20130726-1910-25045-9160/fema local mitigation handbook.pdf; DHS Office of Infrastructure Protection: https://www.dhs.gov/sites/default/files/publications/ip-fact-sheet-508.pdf; National Association Counties, **Improving** (2014):https://www.naco.org/sites/default/files/documents/NACo ResilientCounties Lifelines Nov2014.pdf; the National Interagency Coordination Center (NICC) for coordinating the mobilization of resources for wildland fire: https://www.nifc.gov/nicc/); the U.S. Forest Service's resources around wildland fire (https://www.fs.fed.us/managing-land/fire); HUD's CPD Mapping tool: https://egis.hud.gov/cpdmaps/.
- m. The grantee certifies that it will not use CDBG-MIT funds for any activity in an area identified as flood prone for land use or hazard mitigation planning purposes by the State, local, or tribal government or

delineated as a Special Flood Hazard Area (or 100-year floodplain) in FEMA's most current flood advisory maps, unless it also ensures that the action is designed or modified to minimize harm to or within the floodplain, in accordance with Executive Order 11988 and 24 CFR part 55. The relevant data source for this provision is the State, local, and tribal government land use regulations and hazard mitigation plans and the latest-issued FEMA data or guidance, which includes advisory data (such as Advisory Base Flood Elevations) or preliminary and final Flood Insurance Rate Maps.

- n. The grantee certifies that its activities concerning lead-based paint will comply with the requirements of 24 CFR part 35, subparts A, B, J, K, and R.
- o. The grantee certifies that it will comply with environmental requirements at 24 CFR part 58.
- p. The grantee certifies that it will comply with applicable laws.

The Florida Department of Economic Opportunity here Director.	by certifies the above, as authorized by the Executive
DEO Executive Director	Date

## 6.3 SF-424

DEO submits this Action Plan to HUD along with a completed and executed Federal Form SF-424.

# 7.0 CONCLUSION

# 7.1 Completeness and Compliance

This plan will be reviewed for completeness and compliance by HUD as part of the approval process.

# 7.2 DEO Implementation

A copy of the state Mitigation Program Implementation Timeline and other important information will be posted to DEO's website at the following location: www.floridajobs.org/CDBG-MIT once the action plan has been approved.

# 7.3 Pre-Award, Pre-Agreement and Reimbursement

The provisions of 24 CFR 570.489(b) and 570.200 (h) permit a state to reimburse itself for otherwise allowable costs incurred by itself or its recipients or subrecipients on or after the incident of the covered disaster. The provisions at 24 CFR 570.200(h) and 570.489(b) apply to grantees reimbursing costs incurred by itself or its recipients or subrecipients prior to the execution of a grant agreement with HUD. This includes, but is not limited to, activities supporting program development, Action Plan development and stakeholder involvement support, and other qualifying eligible costs incurred in response to an eligible disaster covered under Public Law 115-254.

DEO incurred pre-award costs and is seeking reimbursement for those costs that are reasonable and allowable under this regulation. DEO intends to recover the pre-award costs consistent with the authority cited in this section. These costs include the cost for salary, employer fringe benefits, and direct operating costs for each employee based on his or her individual percentage of time spent on the planning of the CDBG-MIT program during a pay period. Any cost associated with the mitigation efforts will be allocated based on the total time spent on CDBG-MIT activities versus other duties within a particular month.

The total cost of the contractors that assist DEO with mitigation research and analysis and help prepare the Risk-based Mitigation Needs Assessment and Action Plan, along with other costs associated with meetings, community outreach, and any other direct costs associated with the Action Plan, will be reimbursed by this CDBG-MIT grant. Additionally, once contracted, DEO may allow the drawdown of pre-agreement costs associated with eligible mitigation activities dating back to the date of the disaster(s) for subrecipients and DEO with appropriate documentation.

# **APPENDICES**

Appendices are included herein as separate documents. These Appendices are referenced, in order, throughout this Action Plan.

Appendix A: - Community Engagement Survey Questions

Appendix B – Survey Summary Report

Appendix C: List of SoVI® Variables

Appendix D: Program Expenditures Projections

Appendix E – Summary of Public Comments for initial CDBG-MIT Action Plan

Appendix F - Summary of Public Comments for Substantial Amendment 2

Appendix G - Summary of Public Comments for Substantial Amendment 3

Appendix H - Summary of Public Comments for Substantial Amendment 4

# Appendix A: - Community Engagement Survey Questions 2016 and 2017 CDBG-MIT Allocation

### List of Survey Questions Asked

- 1. Which of the following best describes you?
  - A. Elected or appointed official
  - B. Staff of elected or appointed official
  - C. Floodplain manager/administrator
  - D. Emergency management coordinator (EMC)
  - E. Public-sector employee (not an EMC or floodplain manager)
  - F. Interested member of the public
  - G. Other
- 2. What type of entity do you represent?
  - A. City
  - B. County
  - C. Council of Governments
  - D. Federal
  - E. Myself
  - F. Non-profit organization
  - G. Private Business
  - H. State
  - I. Tribe
  - J. Water Management District
  - K. Other
- 3. Which locality (city/town/county) are you associated with? (only answer if you work for or are directly associated with a city/town/county, otherwise skip)
- 4. What is the current status of your community's Local Hazard Mitigation Strategy?
  - A. Current
  - B. Being Revised
  - C. Expired with no plan to revise
  - D. No plan
  - E. I don't know
- 5. What is your biggest barrier to implementing hazard mitigation projects?
  - A. Capacity/staffing
  - B. Funding
  - C. Legal impediments (e.g., property rights, regulatory barriers)
  - D. Other
- 6. Please indicate which staff members your jurisdiction currently employs [Select all that apply]:
  - A. Planners
  - B. Public works officials
  - C. Engineers

- D. Emergency managers
- E. Floodplain managers/admins
- F. Grant managersLand surveyors
- G. Environmental scientists
- H. Personnel skilled in Geographic Information Systems (GIS)
- I. We contract out these services
- J. None of the above
- 7. Taking into consideration your community's past experiences with natural hazards, please rate, on a scale from 1 to 4, your community's interest in pursuing the following activities (1 = Least Important, 4 = Most Important)
  - A. Preparedness, Coordination and Response Actions. (Examples: Implement or enhance communication infrastructure, such as radio and cell towers or tree maintenance where power and phone lines existed.)
  - B. Education and Awareness Programs. (Examples: Hazard safety education programs home emergency kits, publicizing the location of the local emergency shelter, "Get A Plan" PSAs.)
  - C. Structure and Infrastructure Projects. (Examples: New stormwater systems, storm-proofing windows, elevating buildings, roads, etc.)
  - D. Local Plans and Regulations. (Examples: Development restrictions in flood zones, capital planning for mitigation projects, and revising building codes.)
  - E. Comment
- 8. If additional, limited funding becomes available, please rate the following mitigation activities according to your community's current priorities: (1 = Most Important, 2 = Somewhat Important, 3 = Not Important)
  - A. Develop or refine an evacuation plan
  - B. Enhance the function of natural flood-mitigation features (e.g. streams, wetlands, etc.)
  - C. Enhanced maintenance of vulnerable utilities
  - D. Fortify critical facilities (e.g. transportation networks, hospitals, fire stations, etc.)
  - E. Improve community awareness of hazard risks
  - F. Prevent development in hazardous areas such as floodplains through buyouts/acquisitions
  - G. Replace inadequate or vulnerable bridges and causeways
  - H. Strengthen emergency services (e.g. Police, Fire, EMS, etc.)
- 9. Which, if any, planning, mitigation or protection activities has your community or jurisdiction implemented recently (i.e. in the past five years)? [Select all that apply]
  - A. Coastal resilience
  - B. Construction of a community hazard shelter
  - C. Dry brush removal
  - D. Encouraging purchase of flood insurance (i.e. participation in the NFIP)
  - E. Flood-proofing and/or flood retrofits
  - F. Levees, flood walls, or related infrastructure
  - G. Local channel conveyance improvements
  - H. Local drainage improvements
  - I. Natural hazard/disaster awareness training and/or education
  - J. Natural hazard/disaster warning system
  - K. Property buyouts or relocations

- L. Property elevation
- M. Reconstruction of noncompliant structures
- N. Roadway bridges, culverts, and other forms of stormwater conveyance
- O. Updated building codes
- P. Updated land development ordinances
- Q. I don't know
- R. Other
- 10. Which, if any, planning, mitigation, or protection activities has your community or jurisdiction identified as needed but not yet implemented? [Select all that apply]
  - A. Coastal resilience
  - B. Construction of a community hazard shelter
  - C. Dry brush removal
  - D. Encouraging purchase of flood insurance (i.e. participation in the NFIP)
  - E. Flood-proofing and/or flood retrofits
  - F. Levees, flood walls, or related infrastructure
  - G. Local channel conveyance improvements
  - H. Local drainage improvements
  - I. Natural hazard/disaster awareness training and/or education
  - J. Natural hazard/disaster warning system
  - K. Property buyouts or relocations
  - L. Property elevation
  - M. Reconstruction of noncompliant structures
  - N. Roadway bridges, culverts, and other forms of stormwater conveyance
  - O. Updated building codes
  - P. Updated land development ordinances
  - Q. I don't know
  - R. Other
- 11. Are you currently, or have you in the past, coordinated with regional partners (neighboring communities and regional organizations such as Councils of Governments) to develop and implement hazard mitigation activities?
  - A. Yes
  - B. No
  - C. I don't know
  - D. Comment
- 12. If your Local Hazard Mitigation Strategy was completed prior to your community experiencing hurricane impacts in 2015-2017, are your prioritized mitigation activities still aligned with your community's needs?
  - A. Yes, our priorities are still aligned with the community's needs
  - B. No, our community's needs have changed
  - C. I don't know
  - D. N/A
  - E. Other

- 13. Which of the following describes your funding sources for natural hazard/disaster mitigation activities? [Select all that apply]
  - A. Federal FundingState General Revenue Funds
  - B. Bond Program
  - C. Grant Funding
  - D. Impact/Permitting FeesSpecial Tax Districts
  - E. We do not have a local funding source for mitigation activities
  - F. I don't know
  - G. Other
- 14. Are there any hazard issues specific to your community or region that you would like to emphasize, e.g. repetitive flooding at specific locations?
- 15. If you are interested in remaining informed of the state's development and implementation of the State Mitigation Action Plan, what is your preferred method of engagement?
  - A. Conference Call
  - B. In-person workshops
  - C. Newsletter/Email
  - D. Webinar
  - E. Website
  - F. Other
- 16. If you would like to be included in future communications related to the State Mitigation Action Plan, please include your contact information below.
  - A. First Name
  - B. Last Name
  - C. Company Name
  - D. Work Phone
  - E. Email Address
  - F. Address 1
  - G. Address 2
  - H. City
  - I. State/Province (US/Canada)
  - J. Postal Code
  - K. FL County

## 2018 CDBG-MIT Allocation

### List of Survey Questions Asked

- 1. Which of the following best describes you?
  - A. Elected or Appointed Official
  - B. County Staff
  - C. Staff of elected or appointed official
  - D. Municipal Staff
  - E. Floodplain Manager/Administrator
  - F. Planner
  - G. Emergency Management Staff
  - H. Interested Member of the Public
  - I. State Employee
  - J. Other (please describe)
- 2. Which locality (city/town/county) are you associated with? (only answer if you work for or are directly associated with a city/town/county, otherwise, put N/A)
- 3. What type of entity do you represent?
  - A. City
  - B. State
  - C. County
  - D. Tribe
  - E. Federal
  - F. Water Management District
  - G. Myself
  - H. Planning
  - I. Non-profit organization
  - J. Public Housing Authority
  - K. Private Business
  - L. Other (please describe)
- 4. Does your entity work with or contract any of the following services? (select all that apply)
  - A. Planners
  - B. Grant Managers
  - C. Public works officials
  - D. Land surveyors
  - E. Engineers
  - F. Environmental Scientists
  - G. Emergency Managers
  - H. Personnel skilled in Geographic Information Systems (GIS)/Mapping
  - I. Floodplain managers/admins
  - J. None of the above
- 5. If your Local Hazard Mitigation Strategy was completed prior to Hurricane Michael, are your prioritized mitigation activities still aligned with your community's needs?

- A. Yes, our priorities are still aligned with the community's needs
- B. No, our community's needs have changed
- C. I don't know
- D. Other
- 6. Which, if any, planning, mitigation or protection activities has your community or jurisdiction implemented recently (i.e. in the past five years)? [Select all that apply]
  - A. Coastal resilience
  - B. Local drainage improvements
  - C. Updated building codes
  - D. Construction of a community hazard shelter
  - E. Natural hazard/disaster awareness training and/or education
  - F. Updated land development ordinances
  - G. Dry brush removal
  - H. Natural hazard/disaster warning system
  - I. Timer Removal or Controlled Burns
  - J. Encouraging purchase of flood insurance (i.e. participation in the NFIP)
  - K. Property buyouts or relocations
  - L. Erosion Control
  - M. Flood-proofing and/or flood retrofits
  - N. Property elevation
  - O. I don't know
  - P. Levees, flood walls, or related infrastructure
  - Q. Reconstruction of noncompliant structures
  - R. Other (please describe)
  - S. Local channel conveyance improvements
  - T. Roadway bridges, culverts, and other forms of stormwater conveyance
- 7. Which, if any, planning mitigation, or protection activities has your community or jurisdiction identified as needed but not yet implemented? [Select all that apply]
  - A. Coastal resilience
  - B. Local drainage improvements
  - C. Updated building codes
  - D. Construction of a community hazard shelter
  - E. Natural hazard/disaster awareness training and/or education
  - F. Updated land development ordinances
  - G. Dry brush removal
  - H. Natural hazard/disaster warning system
  - I. Timer Removal or Controlled Burns
  - J. Encouraging purchase of flood insurance (i.e. participation in the NFIP)
  - K. Property buyouts or relocations
  - L. Erosion Control
  - M. Flood-proofing and/or flood retrofits

- N. Property elevation
- O. I don't know
- P. Levees, flood walls, or related infrastructure
- Q. Reconstruction of noncompliant structures
- R. Other (please describe)
- S. Local channel conveyance improvements
- T. Roadway bridges, culverts, and other forms of stormwater conveyance
- 8. Taking into consideration your community's past experiences with natural hazards, please rate, on a scale from 1 to 4, your community's interest in pursuing the following activities (1 = Least Important, 4 = Most Important)
  - A. Preparedness, Coordination, and Response Actions (Examples: Implement or enhance communication infrastructure, such as radio and cell towers or tree maintenance where power and phone lines existed)
  - B. Education and Awareness Programs. (Example: Hazard safety education programs home emergency kits, publicizing the location of the local emergency shelter "Get A Plan" PSAs)
  - C. Structure and Infrastructure Projects. (Examples: New stormwater systems, storm-proofing windows, elevating buildings, roads, etc.)
  - D. Local Plans and Regulations. (Examples: Development restrictions in flood zones, capital planning for mitigation projects, and revising building codes)
  - E. Other (please describe)
- 9. Are there any hazard issues specific to your community or region that you would like to emphasize, e.g. repetitive flooding, inland flooding, or erosion issues at specific locations? Otherwise enter "N/A"
- 10. What is your biggest barrier to implementing hazard mitigation projects?
  - A. Capacity/staffing
  - B. Funding
  - C. Legal impediments (e.g. property rights, regulatory barriers)
  - D. Other (please describe)
- 11. Which of the following describes your funding sources for natural hazard/disaster mitigation activities? [Select all that apply]
  - A. Federal Funding and State General Revenue Funds
  - B. Impact/Permitting Fees, Special Tax Districts
  - C. Bond Program
  - D. We do not have a local funding source for Mitigation activities
  - E. Grant Funding
  - F. I don't know
  - G. Private Funding
  - H. Other (please describe)
- 12. There are a number of funding sources available from FEMA and HUD to support Hurricane Michael recovery and mitigation. How can CDBG-MIT grant funds fill any mitigation funding gaps your community has? [1 = Current funding need, 2=Funding award pending, 3 = Not a Community Need at this Time]
  - A. Enhance the function of natural flood-mitigation features (e.g. streams, wetlands, etc.)
  - B. Enhance maintenance of vulnerable utilities
  - C. Fortify critical facilities (e.g. transportation networks, hospitals, fire stations, etc.)

- D. Improve community awareness of hazard risks
- E. Prevent development in hazardous areas such as floodplains through buyouts/acquisitions
- F. Replace inadequate or vulnerable bridges and causeways
- G. Strengthen emergency services (e.g. Police, Fire, EMS, etc.)
- 13. Are you currently, or have you in the past, coordinated with regional partners (neighboring communities and regional organizations) to develop and implement hazard mitigation activities?
  - A. Yes
  - B. No
  - C. I don't know
  - D. Comment (please describe)
- 14. If you are interested in remaining informed of the state's development and implementation of the State Mitigation Action Plan, what is your preferred method of engagement?
  - A. Conference Call
  - B. In-person workshops
  - C. Newsletter/Email
  - D. Webinar
  - E. Website
  - F. Other

# Appendix B – Survey Summary Report

### 2016 and 2017 CDBG-MIT Allocation

### Introduction

The Florida Department of Economic Opportunity is the governor-designated state authority responsible for administering all long-term disaster recovery funds awarded to the state from the U.S. Department of Housing and Urban Development (HUD). In April 2018, HUD announced the state of Florida would receive \$633,485,000 from its Community Development Block Grant Mitigation (CDBG-MIT) program. Florida will use these funds in communities that experienced major disaster-declared events during 2016 and 2017. The expenditure of the CDBG-MIT funds will be guided by programs and activities identified in the state Action Plan.

The CDBG-MIT survey was created in anticipation of the Federal Register to engage stakeholders across the state and to learn more about their experiences and the status of their recent and current mitigation activities. The use of the CDBG-MIT survey is just one of the methods DEO has employed to generate necessary feedback.

The following summary details preliminary results of the CDBG-MIT survey which solicited statewide feedback from representatives of jurisdictions, organizations and businesses. The mitigation needs reflected in the survey helped to inform the development of the programs and activities in the Action Plan.

### **Survey Summary**

The CDBG-MIT survey was deployed on May 31, 2019 and was closed for comments on November 30, 2019. The survey was made available on the DEO mitigation website and promoted through DEO communication channels.

The central question guiding the survey was "What are the current conditions regarding mitigation efforts throughout the state of Florida?" Respondents described various vulnerabilities and areas of needed improvement that fell within four major categories:

- 1. repetitive flooding;
- 2. infrastructure;
- 3. planning, building and design;
- 4. and equity.

Flooding is one of the predominant issues faced throughout most jurisdictions. The concerns include vulnerable infrastructure, repetitive flooding of homes and businesses, impacts to sewer systems and transportation networks. There is a great need to fortify and harden community lifelines such as transportation networks and hospitals and to enhance maintenance of vulnerable utilities. According to the survey, funding is the biggest barrier that communities have faced in their efforts to complete their structural and infrastructural projects.

Most activities completed by responding jurisdictions have been minor water conveyance improvements including drainage improvements and promotion of prevention measures such as natural hazard training. The purchase of flood insurance was encouraged. Activities that have been identified as needed, but not yet implemented, primarily include large-scale infrastructural improvements to roadway bridges, culverts and other forms of stormwater conveyance, coastal resilience activities, and property buyouts and relocations.

The survey indicates a need for improvements to regulations regarding development standards, and regional coordination of resiliency planning. Funding allocations are needed to enable building to higher standards as opposed to just supporting a retrofitting project. Related was an issue identified as the "slow-rolling" nature of mitigation funding sources and mentions of how this hampers progress in mitigation plans.

Respondents recognized the vulnerable nature of their elderly and low-income populations. There were comments regarding the difficulties these populations face in hardening homes and in having access to evacuation routes and shelters.

These mitigation priorities confirm and supplement the extensive research conducted during the risk-based needs assessment conducted by DEO. It also adds texture to needs identified in the Enhanced State Hazard Mitigation Plan.

### **Survey Descriptive Statistics**

The survey is composed of 16 questions. Two are open-response questions and 14 are multiple-choice questions which consisted of single-choice, ranked-choice and "select all that apply" selection questions.

Most of the survey responders were city and county representatives. These respondents are especially valuable because of their technical knowledge and the likelihood that they are familiar with the status of mitigation projects in their areas.

- Type of Entities represented
  - 41.3%County
  - o 27.0% City
  - o 7.5%Myself
  - o 7.5%Non-profit organization
  - 6.7% Council of Governments
  - o 5.2%Other
  - 1.5%Private Business
  - 1.5%Water Management District
  - o 1.0%State
  - <1%No Responses</p>
  - o 0.0%Tribe
  - o 0.0%Federal
- Top 3 respondent types:
  - 26.3% Public-sector employee (not an EMC or floodplain manager)
  - 25.5% Emergency Management Coordinator (EMC)
  - o 12.0% Interested member of the public

### **Geographic Information**

This report finds that 26 of 51 MID areas had representatives that responded to the survey. While the CDBG-MIT survey does provide a high-level insight into mitigation conditions across the state, certain counties are not represented directly by survey results. Other counties such as Brevard, Miami-Dade and Monroe, which had multiple respondents, may be over-represented.

- Representatives from 27 unique cities
- Representatives from 26 unique counties
- Representatives from nine regional or multi-jurisdictional organizations, partnerships or entities

### **Cities**

Atlantic Beach, Bonita Springs, City of Clewiston, City of Crystal River, City of Doral, City of Hialeah, City of Marco Island, City of Margate, City of Miami, City of Miami Beach, City of Naples, City of North Port, City of Riviera Beach, City of St. Cloud, City of Sunny Isles Beach, City of Venice, Cocoa, Doral, Gulf Coast, Homestead, Islamorada, Jacksonville, Key Biscayne (North Bay Village), Key West, Lynn Haven, Marathon, Marianna, Miami Shores Village, Miami, North Bay Village, Orlando, Panama City Beach, Quincy, Sanford, St. Petersburg, Tampa, Town of Fort Myers Beach, Treasure Island, Village of Estero, Village of Key, Biscayne, Village of Palmetto Bay

### **Counties**

Brevard, Calhoun, Volusia, DeSoto, Flagler, Franklin, Hardee, Hendry, Highlands, Jefferson, Marion, Miami-Dade, Monroe, Nassau, Okeechobee, Orange, Osceola, Palm Beach, Pasco, Pinellas, Putnam, St. Lucie, Sumter, Union, Washington, Bay County

### 2018 CDBG-MIT Allocation

### Introduction

The Florida Department of Economic Opportunity is the governor-designated state authority responsible for administering all long-term disaster recovery funds awarded to the state from the U.S. Department of Housing and Urban Development (HUD). In January of 2021, HUD announced the state of Florida would receive an additional \$46,926,000 from its Community Development Block Grant Mitigation (CDBG-MIT) program. Florida will use these funds in communities that experienced major disaster-declared events during 2018. The expenditure of the CDBG-MIT funds will be guided by programs and activities identified in the Substantial Amendment.

The CDBG-MIT survey was created to support the development of the Substantial Amendment and to engage stakeholders across the state and to learn more about their experiences and the status of their recent and current mitigation activities. The use of the CDBG-MIT survey is just one of the methods DEO has employed to generate necessary feedback.

The following summary details preliminary results of the CDBG-MIT survey which solicited feedback from representatives of jurisdictions, organizations and businesses located in the impacted Panhandle areas. The mitigation needs reflected in the survey helped to inform the development of the programs and activities in the Substantial Amendment.

### **Survey Summary**

The CDBG-MIT survey was deployed on April 15, 2021 and was closed for comments on April 30, 2021. The survey was made available on the DEO mitigation website and promoted through DEO communication channels.

The central question guiding the survey was "Are there any hazard issues specific to your community or region that you would like to emphasize, e.g. repetitive flooding, inland flooding, or erosion issues at specific locations?" Respondents described various vulnerabilities and areas of needed improvement that fell within four major categories:

- Stormwater management: stormwater infiltration, severe flooding, erosion issues
- Future flood risk: sea level rise, repetitive flooding, FEMA flood maps
- Preparation: Hurricane and flood education, Safe rooms and shelters, evacuation routes
- Critical Infrastructure Hardening: utilities, communication systems, shelters/safe rooms, roads/evacuation routes

### **Survey Descriptive Statistics**

The survey is composed of 14 questions. Two are open-response questions and 12 are multiple-choice questions which consisted of single-choice, ranked-choice and "select all that apply" selection questions.

### **Geographic Information**

This report finds that 6 of 10 MID areas had representatives that responded to the survey. While the CDBG-MIT survey does provide a high-level insight into mitigation conditions across the impacted Panhandle area, certain counties are not represented directly by survey results. Although the CDBG-MIT allocation is focused to the impacted Panhandle area, a few counties outside the area also participated in the survey, they include Calhoun, Pasco, and Charlotte Counties.

### **Cities**

Panama City, Apalachicola, Quincy, Marianna, Lynn Haven, Panama City Beach, Jacob, Port St. Joe, Springfield, Gretna, Town of Esto

### **Counties**

Charlotte, Bay, Jackson, Gulf, Calhoun, Wakulla, Pasco, Franklin,

# Appendix C: List of SoVI® Variables

List of SoVI® 2006-10 Variables (n=29). Daggers notate new variables added.

SoVI<sup>®</sup> 2010-14 uses the same list of variables.

VARIABLE	DESCRIPTION
QASIAN	Percent Asian
QBLACK	Percent Black
QSPANISH	Percent Hispanic
QINDIAN	Percent Native American
QAGEDEP	Percent Population under 5 years or 65 and over
QFAM†	Percent Children Living in Married Couple Families
MEDAGE	Median Age
QSSBEN	Percent Households Receiving Social Security Benefits
QPOVTY	Percent Poverty
QRICH	Percent Households Earning over \$200,000 annually
PERCAP	Per Capita Income
QESL	Percent Speaking English as a Second Language with Limited English Proficiency
QFEMALE	Percent Female
QFHH	Percent Female Headed Households
QNRRES	Nursing Home Residents Per Capita
HOSPTPC	Hospitals Per Capita (County Level ONLY)
QNOHLTH†	Percent of population without health insurance (County Level ONLY)
QED12LES	Percent with Less than 12 <sup>th</sup> Grade Education
QCVLUN	Percent Civilian Unemployment
PPUNIT	People per Unit
QRENTER	Percent Renters
MDHSEVAL	Median Housing Value
MDGRENT	Median Gross Rent
QMOHO	Percent Mobile Homes
QEXTRCT	Percent Employment in Extractive Industries
QSERV	Percent Employment in Service Industry
QFEMLBR	Percent Female Participation in Labor Force
QNOAUTO†	Percent of Housing Units with No Car
QUNOCCHU†	Percent Unoccupied Housing Units

# Appendix D: Program Expenditures Projections

			2020						
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Remaining Funds		
	\$	\$	\$	\$	\$	\$	\$		
General Infrastructure	475,000,000	-	-	-	-	-	475,000,000		
Critical Facility	\$	\$	\$	\$	\$	\$	\$		
Hardening Program	75,000,000	-	-	-	-	-	75,000,000		
General Planning	\$	\$	\$	\$	\$	\$	\$		
Support	20,000,000	-	-	-	-	-	20,000,000		
	\$	\$	\$	\$	\$	\$	\$		
DEO Administration	31,674,250	-	700,000	650,000	650,000	2,000,000	29,674,250		
	\$	\$	\$	\$	\$	\$	\$		
DEO Planning	31,810,750	-	650,000	600,000	600,000	1,850,000	29,960,750		
	\$	\$	\$	\$	\$	\$	\$		
Grand Total	633,485,000		1,350,000	1,250,000	1,250,000	3,850,000	629,635,000		

			2021					
							Remaining	
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds	
	\$	\$	\$	\$	\$	\$	\$	
General Infrastructure	475,000,000	-	4,000,000	4,000,000	4,000,000	12,000,000	463,000,000	
Critical Facility	\$	\$	\$	\$	\$	\$	\$	
Hardening Program	75,000,000	1,000,000	1,000,000	1,000,000	1,000,000	4,000,000	71,000,000	
General Planning	\$	\$	\$	\$	\$	\$	\$	
Support	20,000,000	500,000	500,000	500,000	500,000	2,000,000	18,000,000	
	\$	\$	\$	\$	\$	\$	\$	
DEO Administration	31,674,250	650,000	650,000	650,000	650,000	2,600,000	27,074,250	
	\$	\$	\$	\$	\$	\$	\$	
DEO Planning	31,810,750	600,000	600,000	600,000	600,000	2,400,000	27,560,750	
	\$	\$	\$	\$	\$	\$	\$	
Grand Total	633,485,000	2,750,000	6,750,000	6,750,000	6,750,000	23,000,000	606,635,000	

			2022					
		0.1					Remaining	
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds	
	\$	\$	\$	\$	\$	\$	\$	
General Infrastructure	475,000,000	7,000,000	7,000,000	7,000,000	7,000,000	28,000,000	435,000,000	
Critical Facility	\$	\$	\$	\$	\$	\$	\$	
Hardening Program	75,000,000	2,500,000	2,500,000	2,500,000	2,500,000	10,000,000	61,000,000	
General Planning	\$	\$	\$	\$	\$	\$	\$	
Support	20,000,000	500,000	500,000	500,000	500,000	2,000,000	16,000,000	
	\$	\$	\$	\$	\$	\$	\$	
DEO Administration	31,674,250	650,000	650,000	650,000	650,000	2,600,000	24,474,250	
	\$	\$	\$	\$	\$	\$	\$	
DEO Planning	31,810,750	600,000	600,000	600,000	600,000	2,400,000	25,160,750	
	\$	\$	\$	\$	\$	\$	\$	
Grand Total	633,485,000	11,250,000	11,250,000	11,250,000	11,250,000	45,000,000	561,635,000	

			2023					
							Remaining	
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds	
	\$	\$	\$	\$	\$	\$	\$	
General Infrastructure	475,000,000	10,000,000	10,000,000	10,000,000	10,000,000	40,000,000	395,000,000	
Critical Facility	\$	\$	\$	\$	\$	\$	\$	
Hardening Program	75,000,000	2,500,000	2,500,000	2,500,000	2,500,000	10,000,000	51,000,000	
General Planning	\$	\$	\$	\$	\$	\$	\$	
Support	20,000,000	500,000	500,000	500,000	500,000	2,000,000	14,000,000	
	\$	\$	\$	\$	\$	\$	\$	
DEO Administration	31,674,250	650,000	650,000	650,000	650,000	2,600,000	21,874,250	
	\$	\$	\$	\$	\$	\$	\$	
DEO Planning	31,810,750	600,000	600,000	600,000	600,000	2,400,000	22,760,750	
	\$	\$	\$	\$	\$	\$	\$	
Grand Total	633,485,000	14,250,000	14,250,000	14,250,000	14,250,000	57,000,000	504,635,000	

		2024							
							Remaining		
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds		
	\$	\$	\$	\$	\$	\$	\$		
General Infrastructure	475,000,000	10,000,000	10,000,000	10,000,000	10,000,000	40,000,000	355,000,000		
Critical Facility	\$	\$	\$	\$	\$	\$	\$		
Hardening Program	75,000,000	2,500,000	2,500,000	2,500,000	2,500,000	10,000,000	41,000,000		
General Planning	\$	\$	\$	\$	\$	\$	\$		
Support	20,000,000	500,000	500,000	500,000	500,000	2,000,000	12,000,000		
	\$	\$	\$	\$	\$	\$	\$		
DEO Administration	31,674,250	650,000	650,000	650,000	650,000	2,600,000	19,274,250		
	\$	\$	\$	\$	\$	\$	\$		
DEO Planning	31,810,750	600,000	600,000	600,000	600,000	2,400,000	20,360,750		
	\$	\$	\$	\$	\$	\$	\$		
Grand Total	633,485,000	14,250,000	14,250,000	14,250,000	14,250,000	57,000,000	447,635,000		

			2025					
							Remaining	
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds	
	\$	\$	\$	\$	\$	\$	\$	
General Infrastructure	475,000,000	15,000,000	15,000,000	15,000,000	15,000,000	60,000,000	295,000,000	
Critical Facility	\$	\$	\$	\$	\$	\$	\$	
Hardening Program	75,000,000	3,000,000	3,000,000	3,000,000	3,000,000	12,000,000	29,000,000	
General Planning	\$	\$	\$	\$	\$	\$	\$	
Support	20,000,000	500,000	500,000	500,000	500,000	2,000,000	10,000,000	
	\$	\$	\$	\$	\$	\$	\$	
DEO Administration	31,674,250	650,000	650,000	650,000	650,000	2,600,000	16,674,250	
	\$	\$	\$	\$	\$	\$	\$	
DEO Planning	31,810,750	600,000	600,000	600,000	600,000	2,400,000	17,960,750	
	\$	\$	\$	\$	\$	\$	\$	
Grand Total	633,485,000	19,750,000	19,750,000	19,750,000	19,750,000	79,000,000	368,635,000	

			2026					
							Remaining	
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds	
	\$	\$	\$	\$	\$	\$	\$	
General Infrastructure	475,000,000	22,000,000	22,000,000	22,000,000	22,000,000	88,000,000	207,000,000	
Critical Facility	\$	\$	\$	\$	\$	\$	\$	
Hardening Program	75,000,000	3,000,000	3,000,000	3,000,000	3,000,000	12,000,000	17,000,000	
General Planning	\$	\$	\$	\$	\$	\$	\$	
Support	20,000,000	500,000	500,000	500,000	500,000	2,000,000	8,000,000	
	\$	\$	\$	\$	\$	\$	\$	
DEO Administration	31,674,250	650,000	650,000	650,000	650,000	2,600,000	14,074,250	
	\$	\$	\$	\$	\$	\$	\$	
DEO Planning	31,810,750	650,000	650,000	650,000	650,000	2,600,000	15,360,750	
	\$	\$	\$	\$	\$	\$	\$	
Grand Total	633,485,000	26,800,000	26,800,000	26,800,000	26,800,000	107,200,000	261,435,000	

			2027					
							Remaining	
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds	
	\$	\$	\$	\$	\$	\$	\$	
General Infrastructure	475,000,000	12,000,000	12,000,000	12,000,000	12,000,000	48,000,000	159,000,000	
Critical Facility	\$	\$	\$	\$	\$	\$	\$	
Hardening Program	75,000,000	3,000,000	2,000,000	2,000,000	2,000,000	9,000,000	8,000,000	
General Planning	\$	\$	\$	\$	\$	\$	\$	
Support	20,000,000	400,000	400,000	400,000	400,000	1,600,000	6,400,000	
	\$	\$	\$	\$	\$	\$	\$	
DEO Administration	31,674,250	600,000	600,000	600,000	600,000	2,400,000	11,674,250	
	\$	\$	\$	\$	\$	\$	\$	
DEO Planning	31,810,750	650,000	650,000	650,000	650,000	2,600,000	12,760,750	
	\$	\$	\$	\$	\$	\$	\$	
Grand Total	633,485,000	16,650,000	15,650,000	15,650,000	15,650,000	63,600,000	197,835,000	

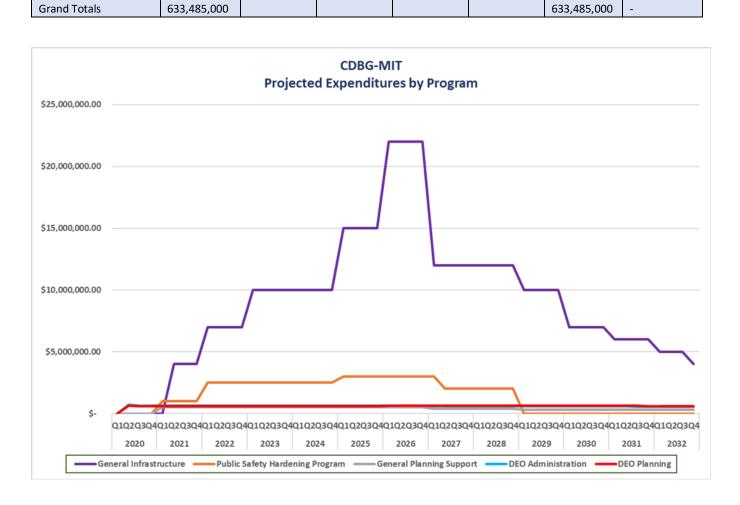
			2028						
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Remaining Funds		
	\$	\$	\$	\$	\$	\$	\$		
General Infrastructure	475,000,000	12,000,000	12,000,000	12,000,000	12,000,000	48,000,000	111,000,000		
Critical Facility	\$	\$	\$	\$	\$	\$	\$		
Hardening Program	75,000,000	2,000,000	2,000,000	2,000,000	2,000,000	8,000,000	-		
General Planning	\$	\$	\$	\$	\$	\$	\$		
Support	20,000,000	400,000	400,000	400,000	400,000	1,600,000	4,800,000		
	\$	\$	\$	\$	\$	\$	\$		
DEO Administration	31,674,250	600,000	600,000	600,000	600,000	2,400,000	9,274,250		
	\$	\$	\$	\$	\$	\$	\$		
DEO Planning	31,810,750	650,000	650,000	650,000	650,000	2,600,000	10,160,750		
	\$	\$	\$	\$	\$	\$	\$		
Grand Total	633,485,000	15,650,000	15,650,000	15,650,000	15,650,000	62,600,000	135,235,000		

		2029					
							Remaining
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds
	\$	\$	\$	\$	\$	\$	\$
General Infrastructure	475,000,000	10,000,000	10,000,000	10,000,000	10,000,000	40,000,000	71,000,000
Critical Facility	\$	\$	\$	\$	\$	\$	\$
Hardening Program	75,000,000	-	-	-	-	-	-
General Planning	\$	\$	\$	\$	\$	\$	\$
Support	20,000,000	300,000	300,000	300,000	300,000	1,200,000	3,600,000
	\$	\$	\$	\$	\$	\$	\$
DEO Administration	31,674,250	600,000	600,000	600,000	600,000	2,400,000	6,874,250
	\$	\$	\$	\$	\$	\$	\$
DEO Planning	31,810,750	650,000	650,000	650,000	650,000	2,600,000	7,560,750
	\$	\$	\$	\$	\$	\$	\$
Grand Total	633,485,000	11,550,000	11,550,000	11,550,000	11,550,000	46,200,000	89,035,000

		2030					
							Remaining
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds
	\$	\$	\$	\$	\$	\$	\$
General Infrastructure	475,000,000	7,000,000	7,000,000	7,000,000	7,000,000	28,000,000	43,000,000
Critical Facility	\$	\$	\$	\$	\$	\$	\$
Hardening Program	75,000,000	-	-	-	-	-	-
General Planning	\$	\$	\$	\$	\$	\$	\$
Support	20,000,000	300,000	300,000	300,000	300,000	1,200,000	2,400,000
	\$	\$	\$	\$	\$	\$	\$
DEO Administration	31,674,250	600,000	600,000	600,000	600,000	2,400,000	4,474,250
	\$	\$	\$	\$	\$	\$	\$
DEO Planning	31,810,750	650,000	650,000	650,000	650,000	2,600,000	4,960,750
	\$	\$	\$	\$	\$	\$	\$
Grand Total	633,485,000	8,550,000	8,550,000	8,550,000	8,550,000	34,200,000	54,835,000

		2031					
							Remaining
Programs	Allocations	Q1	Q2	Q3	Q4	Total	Funds
	\$	\$	\$	\$	\$	\$	\$
General Infrastructure	475,000,000	6,000,000	6,000,000	6,000,000	6,000,000	24,000,000	19,000,000
Critical Facility	\$	\$	\$	\$	\$	\$	\$
Hardening Program	75,000,000	-	-	-	-	-	-
General Planning	\$	\$	\$	\$	\$	\$	\$
Support	20,000,000	300,000	300,000	300,000	300,000	1,200,000	1,200,000
	\$	\$	\$	\$	\$	\$	\$
DEO Administration	31,674,250	580,000	580,000	560,000	550,000	2,270,000	2,204,250
	\$	\$	\$	\$	\$	\$	\$
DEO Planning	31,810,750	650,000	650,000	650,000	610,750	2,560,750	2,400,000
	\$	\$	\$	\$	\$	\$	\$
Grand Total	633,485,000	7,530,000	7,530,000	7,510,000	7,460,750	30,030,750	24,804,250

		2032						
Programs	Allocations	Q1	Remaining Funds					
	\$	\$	\$	\$	\$	\$	\$	
General Infrastructure	475,000,000	5,000,000	5,000,000	5,000,000	4,000,000	19,000,000	-	
Critical Facility	\$	\$	\$	\$	\$	\$	\$	
Hardening Program	75,000,000	-	-	-	-	-	-	
General Planning	\$	\$	\$	\$	\$	\$	\$	
Support	20,000,000	300,000	300,000	300,000	300,000	1,200,000	-	
	\$	\$	\$	\$	\$	\$	\$	
DEO Administration	31,674,250	550,000	550,000	550,000	554,250	2,204,250	-	
	\$	\$	\$	\$	\$	\$	\$	
DEO Planning	31,810,750	600,000	600,000	600,000	600,000	2,400,000	-	
	\$	\$	\$	\$	\$	\$	\$	
Grand Total	633,485,000	6,450,000	6,450,000	6,450,000	5,454,250	24,804,250		
_		<u> </u>						
	\$					\$	\$	



# Appendix E – Summary of Public Comments for initial CDBG-MIT Action Plan

# Responses to Public Comment

This document describes the comments received from the public following the release of the initial Community Development Block Grant – Mitigation (CDBG-MIT) draft State Action Plan. Each section addresses comments and questions that correspond to specific topics mentioned in the draft Action Plan.

Release Date: December 6, 2019

• Comment Period: December 6, 2019-January 20, 2020

Approved by HUD: October 14, 2020

Comments were received via email. The duration of the public comment period as well as instructions for how to submit public comments were posted to the webpage. More information can be found on the CDBG-MIT official webpage at <a href="https://www.floridajobs.org/CDBG-MIT">www.floridajobs.org/CDBG-MIT</a>.

DEO staff carefully reviewed and considered all comments. Minor corrections (such as typographical errors) have been made and are *not* included in the summary below. DEO received commentary on the State Action Plan from many entities, including, but not limited to, State Agency partners, county and city officials, nonprofit organizations, healthcare facilities and private citizens. The commentary topics fall into the following categories: Housing, Risk Assessment, Accessibility, Program Details, Clarity & Definition Overall, Application Process, Waiver, Funding, HUD Requirements and Miscellaneous.

#### **Table 35: List of Those that Submitted Comment**

AdventHealth North Pinellas
Affordable Homeownership Foundation
Agency for Persons with Disabilities
City of Blountstown
Broward County Environmental Planning and Community Resilience Division
City of Everglades City
City of Hollywood Florida
City of Jacksonville
City of Largo
City of Miami Gardens, Florida
DeSoto County Hospital/DeSoto Memorial Hospital
Equal Justice Works
FAIR Foundation
Fawcett Memorial Hospital
Federation of Manufactured Home Owners of Florida
Florida City Community Redevelopment Agency
Florida Department of Corrections

State of Florida Willigation Action Flan	7 (I I EIVDICE
Florida Division of Emergency Management	
Florida Hospital Association	
Florida Housing Coalition	
Florida Policy Institute	
Florida Wildlife Federation, Inc.	
Global Center for Climate Resilience	
International Code Council	
Islamorada, Village of Islands, FL	
Jackson South Community Hospital	
Lakewood Ranch Medical Center	
Lee Health	
Manatee Memorial Hospital	
Memorial Healthcare System	
Miami-Dade County	
Monroe County Board of County Commissioners	
Nemours Children's Hospital	
Niklaus Children's Health System	
Orlando Health, Inc.	
Putnam County Public Works	
RISE Orange County	
Schneider Electric North America	
Talquin Electric Cooperative	
Town of Cutler Bay	
U.S. Department of Energy, Office of Electricity	
Several Comments from Private Citizens	

The following is a summary of comments received as well as the response.

# Comment and Response Summary

## **Public Comment related to Housing**

Comments received supported the addition of a housing program including, but not limited to, voluntary home buyouts, relocation, reconstruction, structure elevation, dry flood proofing of non-residential and historical residential structures, mobile home upgrades and retrofitting of homes. Accessibility for Low-to-Moderate Income (LMI) persons to receive these types of services was emphasized regarding these specific types of mitigation activities. DEO received public comment related to housing from the following organizations: Affordable Housing Foundation, City of Largo, Equal Justice Works, Florida Housing Coalition, Federation of Manufactured Home

Owners of Florida, Florida Policy Institute, Miami-Dade County and Monroe County Board of County Commissioners.

**Response:** While DEO recognizes the need for housing activities in Florida's communities, this need is being addressed through the Community Development Block Grant – Disaster Recovery (CDBG-DR) grant. These funds are administered through DEO. At this time, the CDBG-MIT program will not pursue housing as a program activity.

### **Public Comment related to Risk Assessment**

Comments were received requesting further explanation on sea level rise, the Social Vulnerability Index, clarification on mitigation need statements, data resources consulted, list discrepancies, Hurricane Michael references, compounding risk factor considerations, the addition of the Federal Emergency Management Agency's Building Resilient Infrastructure and Communities program (FEMA BRIC) and DEO's Adaptation Action Areas. Commenters also emphasized critical lifelines and supported the importance of continuing functionality of the energy sector and highlighted the environmental risk of harmful algal blooms. DEO received public comment related to the Risk Assessment from the Florida Division of Emergency Management, Global Center for Climate Resilience, Miami-Dade County, Sarasota County, US Department of Energy and the University of Florida.

**Response:** In response to public comments on the Risk Assessment, several areas of the Risk Assessment were clarified, bolstered, deleted, or otherwise edited to strengthen the Action Plan Risk Assessment.

### **Public Comment related to Accessibility**

DEO received comments recommending that a strategy be developed to increase community lifelines and mitigate disaster risks for Florida's vulnerable populations (i.e. persons with disabilities, including intellectual and developmental disabilities) and meaningful access to information for Limited English Proficiency (LEP) persons and organizations. Commenters also suggested a transparent roadmap for how vulnerable populations can best access benefits DEO received public comment related to accessibility from the following organizations: Agency for Persons with Disabilities and the Florida Policy Institute.

**Response:** DEO has added language to strengthen the Community Development Block Grant – Mitigation (CDBG-MIT) program's commitment to vulnerable populations. Additionally, DEO will continue to consult with our state partners and nonprofits to address the needs of Florida's vulnerable populations.

### **Public Comment related to Program Details**

Comments were received suggesting inclusion for the needs of persons with access and functional needs within the program areas, expanding the eligibility requirements to community-based organizations, nonprofits, state agencies, electric cooperatives and hospitals, emphasizing energy efficient building activities, exceeding Florida Building Code standards, expansion of the activities in the Critical Facility Generator Program, the inclusion of Urgent Need in the Critical Facility Generator Program and inclusion of private properties in the Match Program. Clarification was requested regarding the definitions of local units of government and shelters. DEO received public comment related to program details from the following organizations: AdventHealth North Pinellas, DeSoto Memorial Hospital, Fawcett Memorial Hospital, Florida Department of Corrections, Florida Division of Emergency Management, Florida Hospital Association, International Code Council, Jackson South Community Hospital, Lakewood Ranch Medical Center, Lee Health, Manatee Memorial Hospital, Miami-Dade County, Memorial Healthcare System, Nemours Children's Hospital, Nicklaus Children's Hospital, Orlando Health Inc. and Talquin Electric Cooperative Inc.

**Response:** We have designated Units of General Local Government (UGLG) and State Agencies as the primary applicants for the Infrastructure program. UGLG, educational institutions and State Agencies can apply for General Program Planning. DEO has also outlined how community-based organizations and nonprofits can apply for funding within some program areas as co-applicants through UGLG and State Agency partners. We will expand on how eligible entities can apply in our forthcoming application documents and provide technical assistance.

### **Public Comment related to Application Process**

Comments were made recommending that DEO differentiate between and allow subrecipients to submit budget estimates and consult larger state building construction programs, allow State Small Cities jurisdictions, hospitals, and school districts to be direct subrecipients, a 2-month application window for Planning project submissions and a 4-month application window for Infrastructure project submissions, staggered application cycles, multiple project submission, and public-private partnerships. DEO received public comment related to the application process from the following organizations: AdventHealth North Pinellas, City of Jacksonville, DeSoto Memorial Hospital, Fawcett Memorial Hospital, Florida Department of Corrections, Florida Hospital Association, Jackson South Community Hospital, Lakewood Ranch Medical Center, Lee Health, Manatee Memorial Hospital, Memorial Healthcare System, Miami-Dade County, Nemours Children's Hospital, Nicklaus Children's Hospital and Orlando Health Inc.

**Response:** DEO will take all recommendations into account as we develop the application process and scoring criteria.

### **Public Comment related to Waiver**

Comments were received supporting the inclusion of Hurricane Michael-impacted areas as potential recipients of mitigation funding from private citizens. Commenters mentioned the extensive damage and devastation caused by Hurricane Michael, as well as the strain on resources in counties that are unable to take on large scale mitigation projects and activities.

**Response:** On December 12, 2019 DEO submitted a substantial waiver to include all Florida counties in mitigation activities. DEO is currently awaiting a response from HUD.

### **Public Comment related to Funding**

Comments were received regarding the funding allocation for DEO's proposed Planning budget. The following requests were made:

- Increase the amount of funding allocated above the 50 percent allocated to HUD MID counties and zip codes,
- Decrease funding for the General Planning Support Program,
- Increase the funding for the General Planning Support Program,
- Prohibit funds from having to go directly through counties,
- Set aside \$150 million for Monroe County,
- Set aside 10% of the General Infrastructure Program for beach nourishment activities,
- Identify the amount of funds for improved code enforcement.

DEO received public comment from the following organizations: Broward County Environmental Planning and Community Resilience Division, County of Volusia, Florida City Community Redevelopment Agency, Florida Division of Emergency Management, Miami-Dade County, International Code Council, University of Florida, and private citizens.

**Response:** At this time, DEO is not submitting any covered projects or specific set asides. Many, if not all of the projects requested fall within the existing proposed mitigation programs. We have also designated Units of General Local Government (UGLG) and State Agencies as eligible applicants for the program.

### Public Comment related to HUD Requirements and Policies and Procedures.

Comments were received requesting clarification regarding the definition of match maximums and planning, adding a HUD MID area, the rationale for a 12-year grant program and inclusion of Benefit Cost Analysis standards.

DEO received comments related to HUD requirements and Policies and Procedures from the following organizations: City of Everglades City, City of Jacksonville and Florida Division of Emergency Management.

**Response:** Per the Federal Register, the maximum allowable match amount for the U.S. Army Corps of Engineers is capped at \$250,000. There are two separate planning categories: one for DEO planning, and one for General Program Planning and Administration. Benefit Cost Analysis standards and processes are outlined in our Policies and Procedures documents. CDBG-MIT funding has been described as once-in-a-generation funding to undertake and support projects and programs that are transformative and long-term. Due to the lasting and far reaching impact of mitigation activities, HUD extended the life of the grant to 12 years.

### Public Comment related to Low-to-Moderate Income.

Comments received supporting an increase of the Low-to-Moderate Income (LMI) requirement above the HUD designated 50 percent. DEO received public comment related to LMI from Florida Policy Institute and Miami Dade County.

**Response:** HUD requires a minimum of 50 percent of all funds to benefit LMI populations. DEO will make all reasonable efforts to exceed HUD's requirements.

### Public Comment Related to Policies and Procedures.

Comments were received requesting clarification on Policies and Procedures. DEO received public comment related to Policies and Procedures from City of Jacksonville and Florida Division of Emergency Management.

**Response:** As a point of clarification, Policies and Procedures are separate from the Mitigation Program Guidelines. The guidelines will further explain the specifics of each program areas. These will be made available to the public prior to the program application period.

# Appendix F - Summary of Public Comments for Substantial Amendment 2

# Responses to Public Comment

This document describes the comments received from the public following the release of Substantial Amendment 2 to the Community Development Block Grant – Mitigation (CDBG-MIT) draft State Action Plan.

Release Date: May 24, 2021

Comment Period: May 24, 2021- June 23, 2021

Approved by HUD: TBD

• Number of Comments Received: 1

Comments were received via email. The duration of the public comment period as well as instructions for how to submit public comments were posted to the webpage. More information can be found on the CDBG-MIT official webpage at <a href="https://www.floridajobs.org/CDBG-MIT">www.floridajobs.org/CDBG-MIT</a>.

• DEO received one comment identifying three minor typographical and grammatical errors in the Action Plan document. This comment also included a request for further information on the number of state facilities within the 100-year floodplain.

**Staff Response:** DEO has addressed the errors identified and will provide the commenter with the requested information.

# Appendix G - Summary of Public Comments for Substantial Amendment 3

# Responses to Public Comment

This document describes the comments received from the public following the release of Substantial Amendment 3 to the Community Development Block Grant – Mitigation (CDBG-MIT) draft State Action Plan.

Release Date: August 5, 2021

Comment Period: August 5, 2021 – September 7, 2021

• Approved by HUD: September 23,2021

Number of Comments Received: 0

Comments were received via email. The duration of the public comment period as well as instructions for how to submit public comments were posted to the webpage. More information can be found on the CDBG-MIT official webpage at <a href="https://www.floridajobs.org/CDBG-MIT">www.floridajobs.org/CDBG-MIT</a>.

# Appendix H - Summary of Public Comments for Substantial Amendment 4

# Responses to Public Comment

This document describes the comments received from the public following the release of Substantial Amendment 4 to the Community Development Block Grant – Mitigation (CDBG-MIT) draft State Action Plan.

Release Date: July 19, 2022

Comment Period: July 19, 2022 - August 18, 2022

Approved by HUD: October 21, 2022

Number of Comments Received: Four

Comments were received via email. The duration of the public comment period as well as instructions for how to submit public comments were posted to the webpage. More information can be found on the CDBG-MIT official webpage at <a href="https://www.floridajobs.org/CDBG-MIT">www.floridajobs.org/CDBG-MIT</a>.

1. DEO received three comments expressing frustration with the timeliness of assistance provided to individuals impacted by Hurricane Irma, specifically through the HRRP.

**Staff Response:** DEO acknowledges receipt of these comments and encourages Rebuild Florida Housing Repair and Replacement Program applicants to reach out to their Rebuild Florida Intake Specialist or OLTR Constituent Management Services staff via email at <a href="mailto:CDBG-DR@deo.myflorida.com">CDBG-DR@deo.myflorida.com</a> for specific application status information.

At a minimum, 70 percent of program funds must meet the Low- and Moderate-Income (LMI) national objective as directed in Federal Register, Vol. 83, No. 28, February 9, 2018. At-risk and vulnerable populations with the greatest needs will be prioritized. LMI households with one or more of the following vulnerability factors will be prioritized and processed in the order that they complete an application:

- Households with seniors age 62 and older.
- o Households with children under the age of 18.
- Households with special needs or special accommodation requirements (disabled).
- Persons who have been displaced from Puerto Rico and the U. S. Virgin Islands and are permanently resettling in Florida.

In addition, the purpose of the Housing Oversubscription Program (HOP) is to utilize CDBG-MIT funding to serve individuals who have applied to the Hurricane Irma HRRP to receive assistance for home damage caused by Hurricane Irma. DEO's intention in implementing the HOP is to better serve more eligible individuals in a timely manner.

2. DEO received one comment from a coalition in South Florida requesting that grant funding be reopened to assist individuals in two South Florida counties (Hendry and Glades) to assist "residents impacted by (Hurricane) Irma" with unmet housing needs. This commenter also expressed that DEO should increase outreach efforts to Limited English Proficiency (LEP) individuals in these areas to include "door to door" outreach and mailers.

**Staff Response:** DEO acknowledges receipt of this comment and has reached out to the commenter directly to provide further information and response.

Due to catastrophic damage caused by Hurricane Irma and because the CDBG-DR funding allocated to Florida does not meet the estimated amount of damage caused, DEO will not be able to meet all needs. Recognizing that the HRRP allocation for owner-occupied housing and rental properties will likely not address all needs, at-risk and vulnerable populations with the greatest needs will be prioritized. In

addition, the purpose of the HOP is to utilize CDBG-MIT funding to serve individuals who have applied to the Hurricane Irma HRRP to receive assistance for home damage caused by Hurricane Irma. DEO's intention in implementing the HOP is to serve individuals whose housing situation was impacted by Hurricane Irma, especially those in historically underserved communities and populations with LEP.

In future outreach, DEO will ensure that outreach materials continue to be provided in languages and formats accessible to the communities impacted by the applicable disaster. In the future, DEO may utilize mailers as outreach to impacted communities, especially those that have been historically underserved.