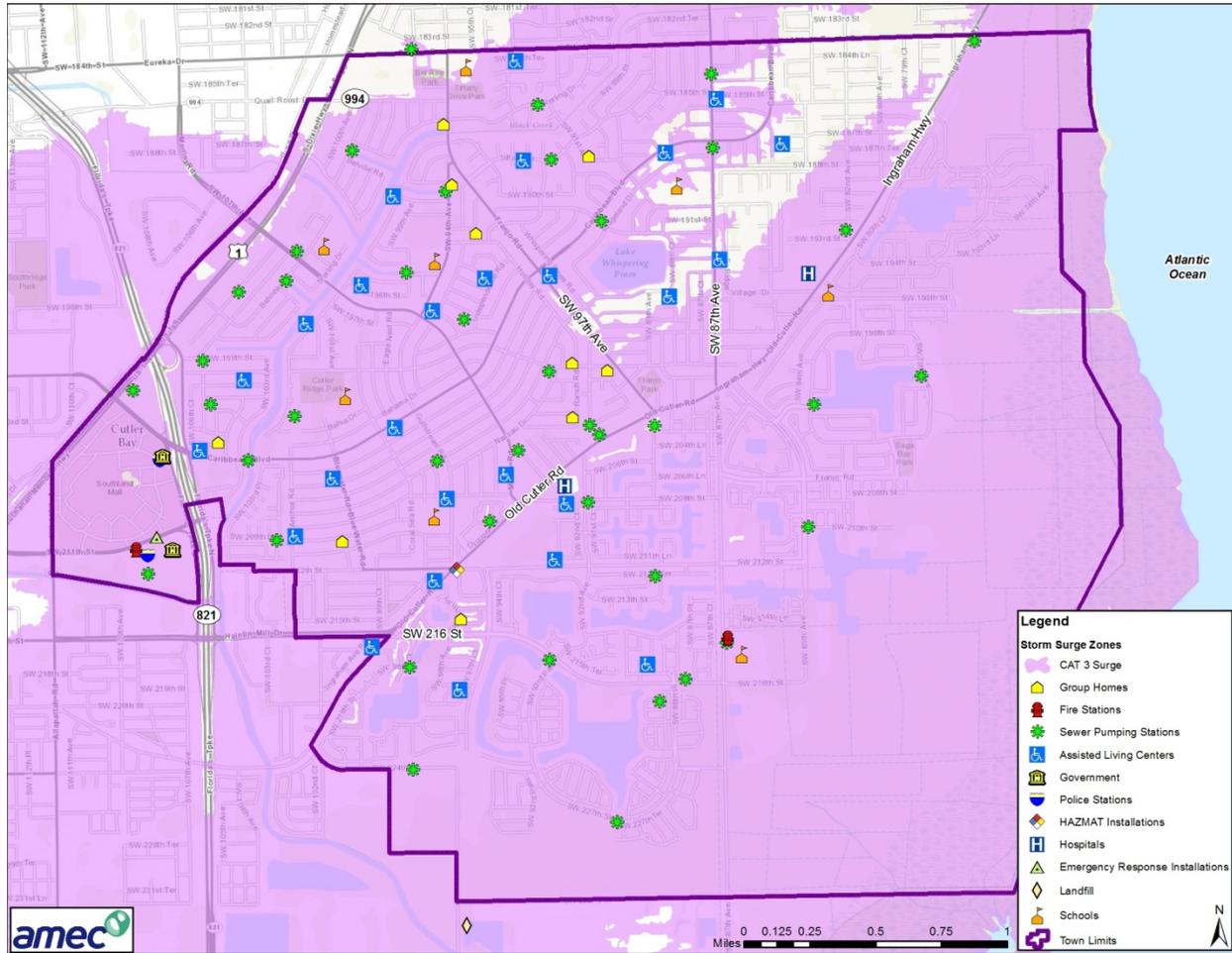


In a category 3 hurricane, Cutler Bay can expect greater than 6 feet of storm surge based on NOAA's Storm Surge Inundation Mapping.



Source: Florida Division of Emergency Management (<http://www.floridadisaster.org>)

Figure 3.38 - Category 3 Storm Surge Impact in Cutler Bay

Table 3.42 - Cutler Bay Assets at Risk to Category 3 Storm Surge

Land Use	Total Parcel Count	Improved Parcel Count	Land Value	Improved Value	Estimated Content Value	Total Value <sup>1</sup>
Residential	12,307	12,284	\$380,025,456	\$1,147,291,683	\$573,645,842	\$1,720,937,525
Commercial	80	78	\$129,608,965	\$79,413,481	\$79,413,481	\$158,826,962
Education	10	10	\$15,522,287	\$47,013,077	\$47,013,077	\$94,026,154
Government	86	13	\$49,411,117	\$36,347,156	\$36,347,156	\$72,694,312
Religious	8	8	\$7,175,576	\$12,534,413	\$12,534,413	\$25,068,826
Other	579	28	\$82,701,470	\$29,774,601	\$41,723,388	\$71,497,989
<b>Total</b>	<b>13,070</b>	<b>12,421</b>	<b>\$664,444,871</b>	<b>\$1,352,374,411</b>	<b>\$790,677,357</b>	<b>\$2,143,051,768</b>

Source: Miami-Dade County 2013 Tax Assessor's Data, NOAA, FDEM

<sup>1</sup>Total value does not include land value.

In a category 4 hurricane, Cutler Bay can expect up to 9 feet of storm surge based on NOAA's Storm Surge Inundation Mapping

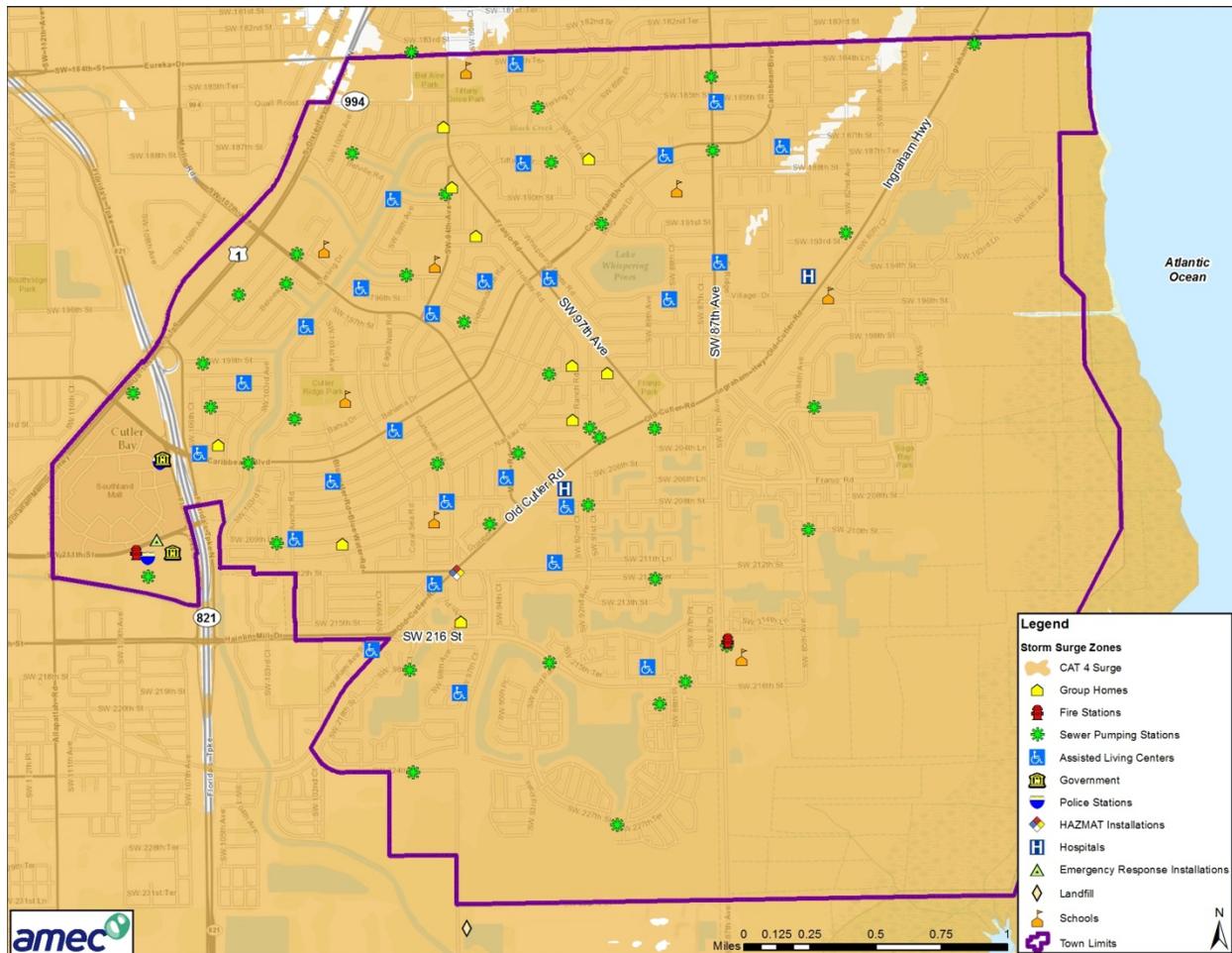


Figure 3.39 - Category 4 Storm Surge Impact in Cutler Bay

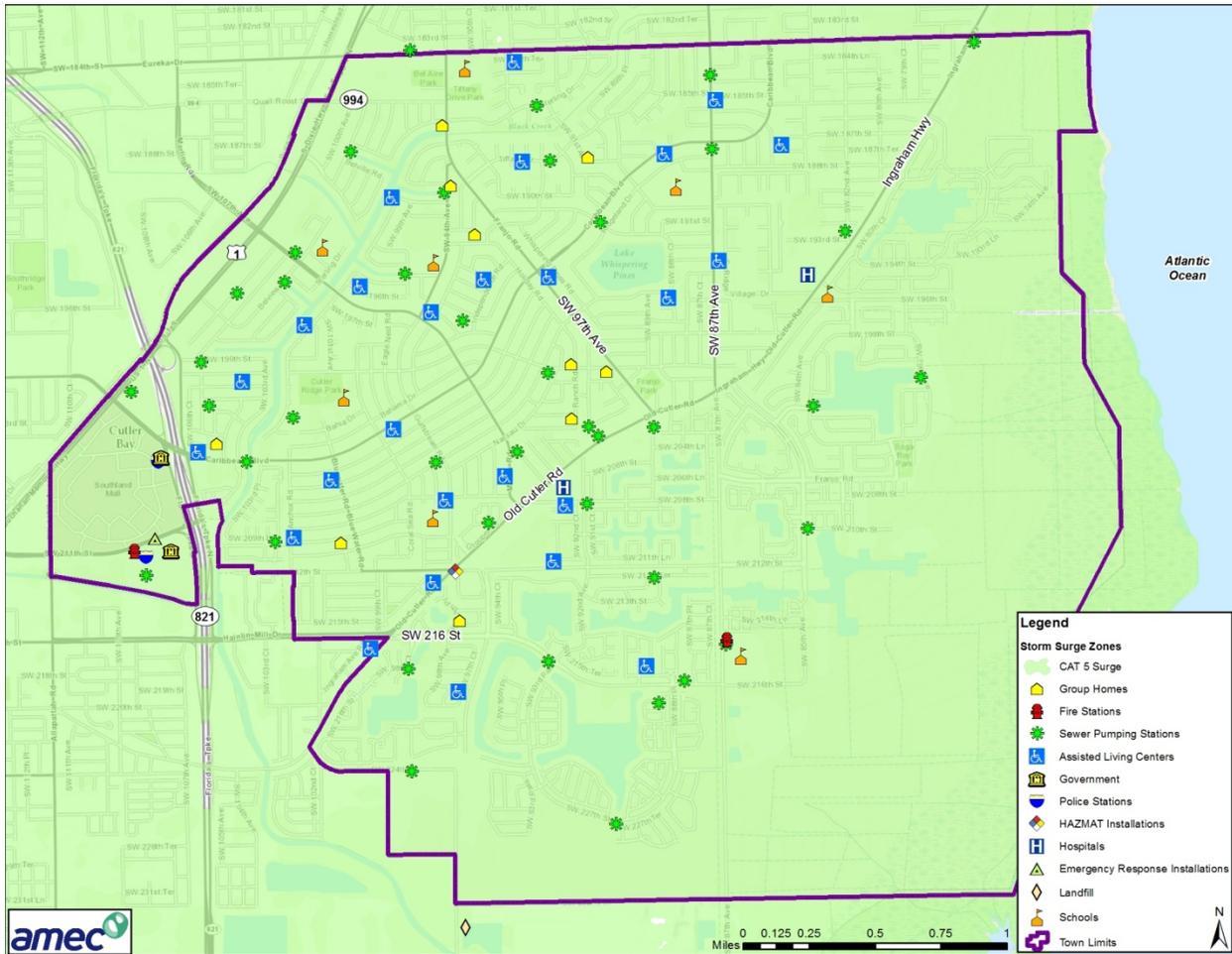
Table 3.43 - Cutler Bay Assets at Risk to Category 4 Storm Surge

Land Use	Total Parcel Count	Improved Parcel Count	Land Value	Improved Value	Estimated Content Value	Total Value <sup>1</sup>
Residential	12,570	12,547	\$396,851,782	\$1,197,267,361	\$598,633,681	\$1,795,901,042
Commercial	86	84	\$133,843,386	\$83,764,330	\$83,764,330	\$167,528,660
Education	10	10	\$15,522,287	\$47,013,077	\$47,013,077	\$94,026,154
Government	87	13	\$49,412,594	\$36,347,156	\$36,347,156	\$72,694,312
Religious	8	8	\$7,175,576	\$12,534,413	\$12,534,413	\$25,068,826
Other	590	31	\$85,073,136	\$30,292,386	\$42,500,066	\$72,792,452
<b>Total</b>	<b>13,351</b>	<b>12,693</b>	<b>\$687,878,761</b>	<b>\$1,407,218,723</b>	<b>\$820,792,722</b>	<b>\$2,228,011,445</b>

Source: Miami-Dade County 2013 Tax Assessor's Data, NOAA, FDEM

<sup>1</sup>Total value does not include land value.

In a Category 5 hurricane, Cutler Bay can expect over 9 feet of storm surge based on NOAA's Storm Surge Inundation Mapping.



Source: Florida Division of Emergency Management (<http://www.floridadisaster.org>)

Figure 3.40 - Category 5 Storm Surge Impact in Cutler Bay

Table 3.44 - Cutler Bay Assets at Risk to Category 5 Storm Surge

Land Use	Total Parcel Count	Improved Parcel Count	Land Value	Improved Value	Estimated Content Value	Total Value <sup>1</sup>
Residential	12,575	12,552	\$397,212,144	\$1,198,688,315	\$599,344,158	\$1,798,032,473
Commercial	86	84	\$133,843,386	\$83,764,330	\$83,764,330	\$167,528,660
Education	10	10	\$15,522,287	\$47,013,077	\$47,013,077	\$94,026,154
Government	87	13	\$49,412,594	\$36,347,156	\$36,347,156	\$72,694,312
Religious	8	8	\$7,175,576	\$12,534,413	\$12,534,413	\$25,068,826
Other	590	31	\$85,073,136	\$30,292,386	\$42,500,066	\$72,792,452
<b>Total</b>	<b>13,356</b>	<b>12,698</b>	<b>\$688,239,123</b>	<b>\$1,408,639,677</b>	<b>\$821,503,199</b>	<b>\$2,230,142,876</b>

Source: Miami-Dade County 2013 Tax Assessor's Data, NOAA, FDEM

<sup>1</sup>Total value does not include land value.

Table 3.45 provides an overall summary of parcels at risk in the Town by hurricane category.

**Table 3.45 – Overall Summary of Cutler Bay Assets at Risk to Storm Surge**

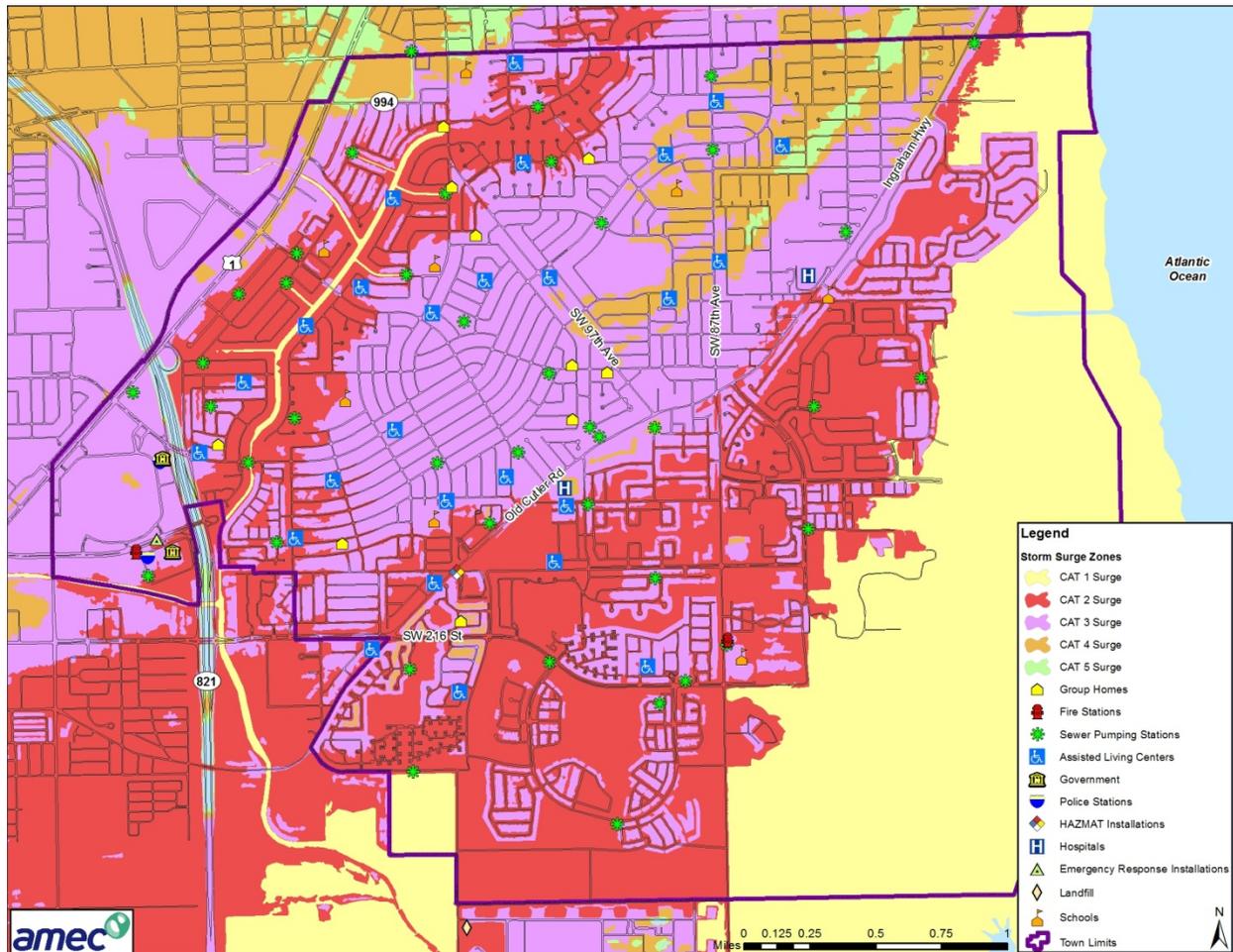
Hurricane Category	Total Parcel Count	Improved Parcel Count	Land Value	Improved Value	Estimated Content Value	Total Value <sup>1</sup>
1	294	133	\$52,963,091	\$44,545,357	\$26,308,459	\$70,853,816
2	8,960	8,414	\$369,372,455	\$892,791,897	\$512,023,634	\$1,404,815,531
3	13,070	12,421	\$664,444,871	\$1,352,374,411	\$790,677,357	\$2,143,051,768
4	13,351	12,693	\$687,878,761	\$1,407,218,723	\$820,792,722	\$2,228,011,445
5	13,356	12,698	\$688,239,123	\$1,408,639,677	\$821,503,199	\$2,230,142,876

Source: Miami-Dade County 2013 Tax Assessor’s Data, NOAA, FDEM

<sup>1</sup>Total value does not include land value.

### Critical Facilities at Risk

Figure 3.41 and Tables 3.46 and 3.47 provide an overall summary of critical facilities at risk due to storm surge from a Category 1 through a Category 5 hurricane.



Source: Florida Division of Emergency Management (<http://www.floridadisaster.org>)

**Figure 3.41 – Cutler Bay Storm Surge Impact (Category 1-5)**



**Table 3.46 - Cutler Bay Critical Facilities at Risk by Storm Surge Category**

Facility	Address	CAT 1	CAT 2	CAT 3	CAT 4	CAT 5
Bel Aire Retirement Home	9955 SW 196TH ST	No	No	Yes	Yes	Yes
Bel-Air Alf II Inc.	19431 FRANJO RD	No	No	Yes	Yes	Yes
Bel-Air ALF Inc.	8830 CARIBBEAN BLVD	No	No	No	Yes	Yes
Bell Luna Retirement Home	18700 SW 93RD CT	No	No	Yes	Yes	Yes
Bel-View ALF Corp	19768 BEL AIRE DR	No	Yes	Yes	Yes	Yes
Bertha Elderly Care	10051 HAITIAN DR	No	No	Yes	Yes	Yes
Bertha Elderly Care #2	10411 SW 200TH TER	No	No	Yes	Yes	Yes
Best ALF	19010 BEL AIRE DR	No	Yes	Yes	Yes	Yes
Blue Point Home Care	21910 SW 97TH CT	No	Yes	Yes	Yes	Yes
Caribbean ALF	9860 CARIBBEAN BLVD	No	No	Yes	Yes	Yes
East Ridge Retirement Village	19301 SW 87TH AVE	No	No	No	Yes	Yes
Genesis Care Centers	8395 SW 187TH TER	No	No	No	No	Yes
Good Time Home Care	8640 SW 185TH ST	No	No	Yes	Yes	Yes
Guardian Angel ALF	10265 NICARAGUA DR	No	Yes	Yes	Yes	Yes
Harmony Family Home	9245 SW 208TH TER	No	No	Yes	Yes	Yes
Kenneth Home Inc.	9760 MEMORIAL RD	No	No	Yes	Yes	Yes
Living Well Alf	21280 OLD CUTLER RD	No	Yes	Yes	Yes	Yes
Marlin Retirement	20610 MARLIN RD	No	No	Yes	Yes	Yes
Nuestro Hogar ALF, Inc.	9384 SW 184TH TER	No	No	Yes	Yes	Yes
Old Cutler Retirement Home	21640 OLD CUTLER RD	No	Yes	Yes	Yes	Yes
Paradise Villa	21164 SW 92ND PL	No	Yes	Yes	Yes	Yes
Precious Moments ALF	9480 DANA RD	No	No	Yes	Yes	Yes
Roadesk One Inc.	9700 MONTEGO BAY DR	No	No	Yes	Yes	Yes
The Haven	10601 CARIBBEAN BLVD	No	No	Yes	Yes	Yes
Welcome Home Alf	8950 SW 215TH TER	No	No	Yes	Yes	Yes
Whispering Pines Home Care	8830 SW 196TH DR	No	No	No	Yes	Yes
Miami-Dade County Vehicle Maintenance and Fueling	10740 SW 211TH ST	No	No	Yes	Yes	Yes
Miami-Dade Fire Rescue Station #34	10850 SW 211TH ST	No	No	Yes	Yes	Yes
Miami-Dade Fire Rescue Station #55	21501 SW 87TH AVE	No	Yes	Yes	Yes	Yes
Government Center	10710 SW 211TH ST	No	No	Yes	Yes	Yes
Town Hall	10720 CARIBBEAN BLVD	No	No	Yes	Yes	Yes
A Guardian Group Home	9700 STERLING DR	No	Yes	Yes	Yes	Yes
All Care Residential	18901 SW 97TH AVE	No	Yes	Yes	Yes	Yes
Campos Fleitas	9010 SW 200TH ST	No	No	Yes	Yes	Yes
Cutler Bay Group Home	10471 SW 204TH TER	No	No	Yes	Yes	Yes
Lizi's Garden Group Home	9220 NAUTILUS DR	No	No	Yes	Yes	Yes
Mains'L	19930 HOLIDAY RD	No	No	Yes	Yes	Yes
Sierra Developmental Enterprises	10030 NICARAGUA DR	No	No	Yes	Yes	Yes
Sunrise Opp. Inc	9031 SW 187TH TER	No	No	Yes	Yes	Yes
Sunrise Opp. Inc	9500 SW 191ST TER	No	No	Yes	Yes	Yes
Sunrise Opp. Inc	9765 SW 215TH LN	No	No	No	Yes	Yes
Florida City Gas Sub Station #3	21210 SW 97TH CT	No	Yes	Yes	Yes	Yes
Health South	20601 Old Cutler Road	No	No	No	Yes	Yes
Purdue Medical Center	19590 OLD CUTLER RD	No	No	Yes	Yes	Yes



Facility	Address	CAT 1	CAT 2	CAT 3	CAT 4	CAT 5
South Dade Landfill	23707 SW 97TH AVE	No	Yes	Yes	Yes	Yes
Cutler Bar Police Department	10720 CARIBBEAN BLVD	No	No	Yes	Yes	Yes
Cutler Ridge Police Department	10800 SW 211TH ST	No	No	Yes	Yes	Yes
Bel-Aire Elementary	10205 SW 194TH ST	No	No	Yes	Yes	Yes
Cutler Ridge Elementary	20210 CORAL SEA RD	No	No	Yes	Yes	Yes
Cutler Ridge Middle	19400 GULFSTREAM RD	No	No	Yes	Yes	Yes
Gulfstream Elementary	20900 SW 97TH AVE	No	No	Yes	Yes	Yes
Our Lady of the Holy Rosary	9500 SW 184 St	No	No	No	Yes	Yes
Whigham Elementary	21545 SW 87TH AVE	No	No	Yes	Yes	Yes
Whigham Learning Facility	8035 SW 196TH ST	No	No	Yes	Yes	Yes
Whispering Pines Elementary	18929 SW 89TH RD	No	No	No	Yes	Yes
Station # 0000	20351 OLD CUTLER RD	No	No	No	Yes	Yes
Station # 0507	20299 SW 83RD AVE	No	Yes	Yes	Yes	Yes
Station # 0516	10390 PUERTO RICO DR	No	No	Yes	Yes	Yes
Station # 0517	18445 OLD CUTLER RD	No	No	No	Yes	Yes
Station # 0540	21791 SW 98TH CT	No	Yes	Yes	Yes	Yes
Station # 0577	10010 SW 224TH ST	No	Yes	Yes	Yes	Yes
Station # 0578	SW Corner of Caribbean Blvd and SW 103 Ave	No	Yes	Yes	Yes	Yes
Station # 0583	21600 SW 93RD PATH	No	Yes	Yes	Yes	Yes
Station # 0603	10800 SW 211TH ST	No	Yes	Yes	Yes	Yes
Station # 0609	20000 SW 79TH AVE	No	Yes	Yes	Yes	Yes
Station # 0610	21001 SW 85TH AVE	No	Yes	Yes	Yes	Yes
Station # 0684	20810 OLD CUTLER RD	No	No	Yes	Yes	Yes
Station # 0701	Martinique Drive between Eagle Nest Road and Gulfstream Road	No	No	Yes	Yes	Yes
Station # 0702	8880 SW 220TH ST	No	No	Yes	Yes	Yes
Station # 0703	10869 CARIBBEAN BLVD	No	No	Yes	Yes	Yes
Station # 0704	9290 CUTLER RIDGE DR	No	No	Yes	Yes	Yes
Station # 0705	9500 IRENE DR	No	No	Yes	Yes	Yes
Station # 0706	SW 87th Avenue between Caribbean Blvd and Ridgeland Drive	No	No	Yes	Yes	Yes
Station # 0707	192nd Drive between Caribbean Blvd and Ridgeland Drive	No	No	Yes	Yes	Yes
Station # 0708	10485 SW 202ND TER	No	Yes	Yes	Yes	Yes
Station # 0734	Infront of 9190 SW 203 Terrace (Middle of Cul-de-sac)	No	No	Yes	Yes	Yes
Station # 0744	20504 MANTA DR	No	No	Yes	Yes	Yes
Station # 0750	20400 OLD CUTLER RD	No	No	Yes	Yes	Yes
Station # 1046	8781 SW 216TH ST	No	Yes	Yes	Yes	Yes
Station # 1051	18701 LENAIRE DR	No	Yes	Yes	Yes	Yes
Station # 1052	Belview Drive between Bonito Road and Dolphin Road	No	Yes	Yes	Yes	Yes
Station # 1053	10520 SW 199TH ST	No	Yes	Yes	Yes	Yes



Facility	Address	CAT 1	CAT 2	CAT 3	CAT 4	CAT 5
Station # 1054	SW 97 Avenue Between SW 189 Street and SW 190 Street	No	Yes	Yes	Yes	Yes
Station # 1055	Intersection of SW 98 Avenue and SW 194 Terrace	No	Yes	Yes	Yes	Yes
Station # 1057	Infront of Property 10192 SW 202 Terrace	No	Yes	Yes	Yes	Yes
Station # 1058	On Tiffany Drive between SW 93 Avenue and SW 92 Court	No	Yes	Yes	Yes	Yes
Station # 1059	Infront of Property 9320 Sterling Drive	No	Yes	Yes	Yes	Yes
Station # 1060	10325 MARLIN RD	No	Yes	Yes	Yes	Yes
Station # 1063	SW Corner of Eureka Drive and SW 89 Place	No	No	No	Yes	Yes
Station # 1064	In front of 19531 SW 103 Court	No	Yes	Yes	Yes	Yes
Station # 1067	SW 87 Avenue between SW 184 Terrace and SW 184 Lane	No	No	Yes	Yes	Yes
Station # 1074	19300 SW 82ND AVE	No	No	Yes	Yes	Yes
Station # 1096	21301 SW 87TH AVE	No	Yes	Yes	Yes	Yes
Station # 1109	Across from 8881 SW 212 Terrace	No	Yes	Yes	Yes	Yes
Station # 1111	8981 SW 227TH TER	No	Yes	Yes	Yes	Yes
Station # 1119	Neighboring property- 9131 SW 208 Terrace	No	Yes	Yes	Yes	Yes

**Table 3.47 - Summary of Cutler Bay Critical Facilities at Risk to Storm Surge**

Facility Type	CAT 1	CAT 2	CAT 3	CAT 4	CAT 5
Assisted Living Centers	0	7	22	25	26
Emergency Response Installation	0	0	1	1	1
Fire Stations	0	1	2	2	2
Government	0	0	2	2	2
Group Homes	0	2	9	10	10
HAZMAT Installation	0	1	1	1	1
Hospitals	0	0	1	2	2
Landfill	0	1	1	1	1
Police Stations	0	0	2	2	2
Schools	0	0	6	8	8
Sewer Pumping Stations	0	24	38	41	41
<b>Total</b>	<b>0</b>	<b>36</b>	<b>85</b>	<b>95</b>	<b>96</b>

### Population at Risk

A hurricane surge analysis was conducted by intersecting the improved parcel layer provided by Miami-Dade County with the polygon shapefile for each hurricane surge layer. In evaluating populations at risk, only those people residing in the hurricane storm surge zones are included. Thus, those improved residential parcels intersecting the hurricane surge zones were counted and multiplied by the Census



Bureau Cutler Bay household factor (3.15). Cutler Bay’s population at risk to storm surge is shown in Table 3.48.

**Table 3.48 - Cutler Bay Population at Risk to Storm Surge**

Hurricane Category	Improved Residential Parcels	Population
Hurricane Category 1	131	413
Hurricane Category 2	8,371	26,369
Hurricane Category 3	12,284	38,695
Hurricane Category 4	12,547	39,523
Hurricane Category 5	12,552	39,539

Source: Miami-Dade County 2013 Tax Assessor’s Data, FDEM, U.S. Census Bureau

### Life Safety

The very young, the elderly and the handicapped are especially vulnerable to harm from hurricanes. For those who are unable to evacuate for medical reasons, there should be provision to take care of special-needs patients and those in hospitals and nursing homes. Many of these patients are either oxygen-dependent, insulin-dependent, or in need of intensive medical care. There is a need to provide ongoing treatment for these vulnerable citizens, either on the coast or by air evacuation to upland hospitals.

The stress from disasters such as a hurricane can result in immediate and long-term physical and emotional health problems among victims. The Town’s Emergency Management Plan and Emergency Management Ordinance help guide evacuation and identification of vulnerable populations.

### Evacuation Zones

Figure 3.42 depicts hurricane evacuation zones for Cutler Bay. This figure utilizes a polygon set created by the Miami-Dade County Emergency Management Department based on regional surge zones from a 2007-2010 statewide evacuation study initiated by FDEM.

Because of Cutler Bay’s Location in southern Miami-Dade County and adjacent to the Atlantic Ocean, evacuation will be necessary based upon certain tropical storm and or hurricane events. The Florida Department of Emergency Management created the evacuation mapping for Cutler Bay. The eastern and southern portions of the Town are located in Evacuation Zone A. The remainder of the Town is located in Evacuation Zone B.

Residents and visitors are both equally impacted by evacuations in Cutler Bay. Additional public outreach is required to more adequately notify vulnerable populations, residents and visitors in Cutler Bay about evacuation procedures and routes. The primary evacuation routes in Cutler Bay are US 1 and the Florida Turn Pike.

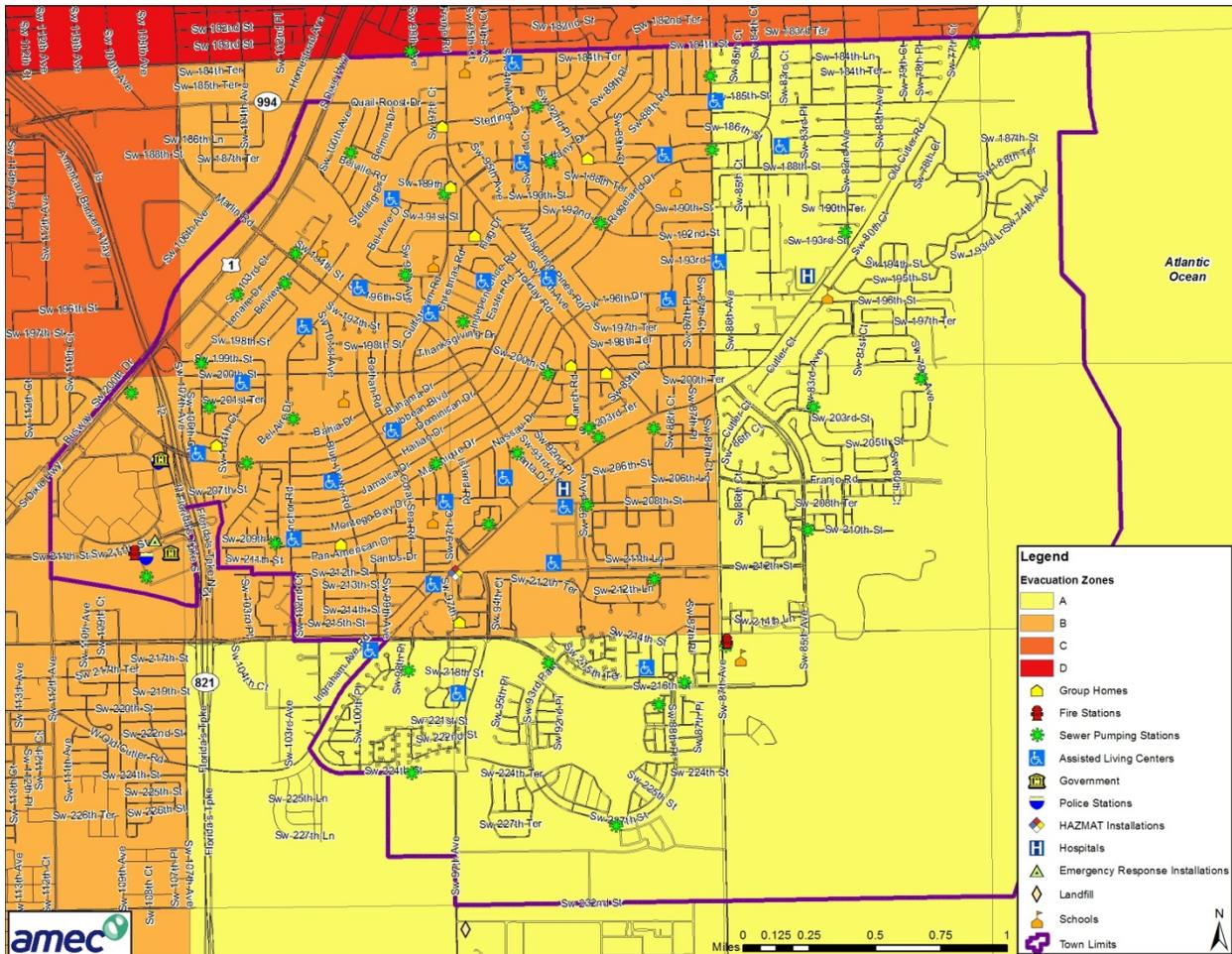
The National Weather Service (NWS) with the Miami-Dade Emergency Management Agency are responsible for notifying residents in Cutler Bay to evacuate. The local news media also provides evacuation guidance to the public.

There are six key components to a successful evacuation:

- Adequate warning
- Adequate routes
- Proper timing to ensure the routes are clear
- Traffic control

- Knowledgeable travelers
- Care for special populations (e.g., the handicapped, prisoners, hospital patients, and schoolchildren)

Those who cannot get out of harm's way need shelter. Typically, the American Red Cross will staff a shelter and ensure that there is adequate food, bedding, and wash facilities. Shelter management is a specialized skill. Managers must deal with problems like scared children, families that want to bring in their pets, and the potential for an overcrowded facility.



Source: Florida Division of Emergency Management (<http://www.floridadisaster.org>)

**Figure 3.42- Cutler Bay Evacuation Zones**



### 3.4 Capability Assessment

Table 3.49 lists regulatory mitigation capabilities, including planning and land management tools, typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in the Town of Cutler Bay. Excerpts from applicable policies, regulations, and plans and program descriptions follow to provide more detail on existing mitigation capabilities.

**Table 3.49- Cutler Bay Regulatory Mitigation Capabilities**

Regulatory Tool	Date	Comments
Repetitive Loss Area Analysis	2012	Prepared by Kimley-Horn and Associates, Inc.
Stormwater Master Plan (Basin or sub-basin flood studies)	March 2008	Prepared by Kimley-Horn and Associates, Inc.
Comprehensive Growth Management Plan	April 2008	Prepared by Corradino Group
Capital Improvement Plan	March 2008	Prepared by the Town of Cutler Bay
Land Development Regulations (Zoning and Subdivision Ordinances)	June 2012	Prepared by Corradino Group
Flood Insurance Study	September 2009	Prepared by FEMA
Flood Damage Prevention Ordinance	March 2010	Prepared by the Town of Cutler Bay
Building Code Ordinance	2010	Prepared by the State of Florida
Miami-Dade County Local Mitigation Strategy	May 2010	Prepared by Miami-Dade County Office of Emergency Management
Miami-Dade County Comprehensive Emergency Management Plan	June 2013	Prepared by Miami-Dade County Office of Emergency Management
Southeast Florida Regional Climate Action Plan	October 2012	Prepared by Southeast Florida Regional Climate Change Compact Counties

#### Repetitive Loss Area Analysis (2012)

The Town is classified as a Repetitive Loss Category “C” community. As a result, the Town developed a Repetitive Loss Area Analysis (RLAA) in 2012 to provide more specific guidance on how to reduce damage from repetitive flooding. The plan follows Section 512.b of the CRS Coordinators manual (DRAFT 4-6-12 Edition: 2012). The RLAA is linked to the Stormwater Master Plan in that it illustrates the RL properties and their relationship to the priority basins identified in the Stormwater Master Plan. RL properties in “priority basins” are considered part of a Repetitive Loss Area (RLA). The “priority basins” became the Capital Improvement Plan for the Town.

The RLAA was used in the development of this FMP to help in identifying repetitive loss properties within the Town and to examine the locations of the RL properties as they relate to FEMA flood zones, flood depths and known localized flooding areas.

#### Stormwater Master Plan (2008)

The Stormwater Master Plan identifies opportunities to protect surface water quality and reduce flooding within the Town limits. The Stormwater Master Plan includes the following components:

- A review of existing stormwater and drainage data, reports and plans available through SFWMD, Miami-Dade County and Town sources
- A field inventory of existing drainage structures
- A drainage atlas including the type, size and general location of drainage infrastructure elements
- Basin and sub-basin delineations based on available survey data and other sources



- Hydrologic and hydraulic modeling analysis of the existing systems and their capacity to handle the 5-year/24-hour, 10-year/24-hour, 25-year/72-hour, 50-year/72-hour, and 100-year/72-hour storm events
- Identification and analysis of alternatives for improvements needed to alleviate deficiencies identified in the hydrologic and hydraulic modeling phase
- Development of an optional Capital Improvement Plan (CIP) to implement the identified improvements

Based on a review of the drainage deficiencies and input from Town staff, 17 drainage sub-basins were selected as a priority for detailed analysis. The performance goals representing the minimum standards for sub-basin performance are as follows:

- During the five-year return design storm event, flooding in local and collector roadways travel lanes should not exceed the edge of the roadway pavement. This goal is consistent with SFWMD and Miami-Dade County requirements.
- During the 10-year return design storm event, flooding in roadway travel lanes should be below the crown of the roadway. This goal is consistent with Miami-Dade County requirements.
- During the 100-year return design storm event, flooding should be below the building finish floor elevations. This goal is consistent with Miami-Dade County requirements.
- Drainage sub-basins which discharge directly into canals should have water quality pre-treatment for the first one inch of runoff. This standard is consistent with federal, state and county water quality treatment requirements.
- Drainage sub-basins which discharge directly into lakes or drainage wells should have water quality pre-treatment for the first one-half inch of runoff. This standard is consistent with federal, state and county water quality treatment requirements.

Projects were identified to bring each priority sub-basin into compliance with the performance goals, and the 17 priority sub-basins were ranked from worst to best according to current performance against goals. The ranking and budgets for improvements were used to develop a 10-year CIP.

The Stormwater Master Plan was used in the development of this FMP to identify potential flooding sources as well as known localized flooding areas within the Town.

### **Town of Cutler Bay Comprehensive Growth Management Plan (2008)**

A Comprehensive Plan, in broad terms, is a policy statement to guide the future placement and development of community facilities. It is the basis for a community's zoning, subdivision and design regulations and a community's official maps and amendments to the zoning, subdivision and design ordinances. The Comprehensive Plan identifies a future vision, values, principals and goals for the community, determines the projected growth for the community and identifies policies to plan, direct and accommodate anticipated growth. This document was adopted by the Town in April 2008. Goals from the Cutler Bay Growth Management Plan are as follows:

- Future Land Use Goal
  - Protect and improve the Town's built and natural environment through the use of land in a manner that enhances existing neighborhoods, conserves resources, ensures the availability of public facilities and services, and realizes the community's vision for its future.
- Housing Goals
  - Ensure the availability of a decent, safe and sanitary housing stock to accommodate current and future residents.



- Ensure the availability of housing that is affordable to current and future residents of all income and special needs groups in the Town of Cutler Bay.
- Infrastructure Goals
  - Work with the town-wide service provider, Miami-Dade County Water and Sewer Department (WASD), to assure a sufficient, dependable, and high quality potable water supply to meet the needs of Cutler Bay residents and businesses on a timely basis, at a reasonable cost and in compliance with all state and federal requirements to protect the health and safety of the public.
  - The Town will protect the health and safety of the public by ensuring wastewater treatment facilities and services are environmentally sound, cost effective, and meet the community's present and future needs.
  - To protect the health and safety of the public by ensuring stormwater management facilities and services are properly maintained, environmentally sound, cost effective, and meet the community's present and future demands.
  - The Town will promote efficient and economical balance of public and private solid waste collection and disposal services that will meet established requirements in a manner that will protect the public health, safety and environmental resources of the community.
  - The Town will continue to support and monitor county, South Florida Water Management District, state and federal efforts to protect, conserve and manage the quality and quantity of natural groundwater resources.
- Coastal Management Goal
  - Provide for the conservation, environmentally sound use and protection of all natural and historic resources; limit public expenditures in areas subject to destruction by natural disasters; and protect human life and property in the coastal area of the Town.
- Conservation Goal
  - Protect and enhance the long term environmental resources of the Town to ensure continued resource availability and environmental quality through prudent management, public education, appropriate regulations and enforcement, and active partnership with governmental and environmental entities.
- Intergovernmental Coordination Goal
  - Continue to strengthen relationships through intergovernmental coordination with adjacent municipalities, the Miami-Dade County Planners Technical Committee, Miami-Dade County, Miami-Dade County Public School System, regional, state and other governmental entities and service providers that have regulatory, supply and/or jurisdictional authority to identify methods for information sharing and funding, assistance and support in order to protect the health, safety and welfare of the community and to ensure consistency between the local, county, regional and state policies and plans when implementing the Town's Growth Management Plan. The Town will offer to provide guidance and assistance to future municipalities in Miami-Dade County.
- Capital Improvements Goals
  - Identify the public facilities and infrastructure capacity needed, as outlined in the Growth Management Plan, to accommodate existing and future residents and businesses in the Town of Cutler Bay, to provide such facilities and infrastructure in a timely and efficient manner and adopt financial policies in order to guide the funding, scheduling and construction of improvements.
  - Develop and maintain a concurrency management system, including the adopted level of service standards, to track and issue development orders in order to ensure the availability of public facilities and infrastructure needed to support development are available concurrent with the impacts of such development.



- **Transportation Goals**
  - Provide for the citizens of Cutler Bay, a safe, convenient, accessible and efficient transportation system.
  - The Town shall develop a financially feasible transportation system that meets the needs of the Town residents.
- **Recreation & Open Space Goal**
  - To provide and ensure a comprehensive system of public parks, open spaces and recreational programs that are well planned, convenient and customized to the recreational needs of the residents of Cutler Bay while preserving and protecting valuable natural resources for future generations.
- **Educational Facilities Goal**
  - Develop, operate, and maintain a system of public education by Miami-Dade County public schools, in cooperation with the county and other appropriate governmental agencies, which will strive to improve the quality and quantity of public educational facilities available to the citizenry of Miami-Dade County, Florida.

The Comprehensive Growth Management Plan was used in the development of this FMP to identify existing and future land use; growth and development trends; and cultural, historic and natural resources within the Town.

### **Capital Improvement Plan (2008-2018)**

The Town of Cutler Bay Stormwater Master Plan identified 17 priority sub-basins that were ranked from worst to best according to current performance against established Plan goals. The Capital Improvement Program is based on the results of the 17 priority subbasin studies. Recommended improvements to achieve the stated performance goals were identified for each basin, and a ten-year CIP summary including preliminary budgets has been prepared for each basin.

The Capital Improvement Plan was used in the development of this FMP to identify potential flooding sources as well as known localized flooding areas within the Town. The Capital Improvement Plan was also used to develop mitigation strategies and projects.

### **Land Development Regulations (2012)**

The purpose of the Land Development Regulations is to provide the minimum regulations necessary to facilitate safe and orderly growth, and to also ensure that growth forms an integral part of a community of functional neighborhoods, retail and commercial centers; increases collective security and community identity to promote civic awareness and responsibility; and enhances the quality of life for the entire Town to ensure the greatest possible economic and social benefits for all residents. These regulations are intended to promote consistency with the goals, objectives and policies of the Town's Growth Management Plan.

The Land Development Regulations were used in the development of this FMP to identify mitigation strategies through protection of natural floodplain resources, open space preservation and identifying property protection measures.

### **Flood Insurance Study (2009)**

A Flood Insurance Study (FIS) dated September 2009 was prepared by FEMA for Miami-Dade County, Florida and Incorporated Areas which includes the Town of Cutler Bay. The FIS identifies areas within Cutler Bay that are subject to flooding from the 100-year storm event. This information is used by Cutler



Bay to implement floodplain regulations as part of participation in the NFIP and to promote sound land use and floodplain development within the community.

The FIS was used in the development of this FMP to identify FEMA flood hazard areas and to calculate the associated flood depths for the 100-year storm event. The flood depths were then used to prepare the risk assessment for Cutler Bay. Based on the flood depth, a depth damage factor was applied to each parcel based on its occupancy class in order to calculate an accurate damage assessment for each parcel located within the 100-year flood hazard area.

### **Flood Damage Prevention Ordinance (2010)**

The Flood Damage Prevention Ordinance is perhaps the Town's most important flood mitigation tool. The Town first adopted the ordinance in May 2006, and the Town has been a participant in the NFIP since August 2006. The ordinance has been amended a couple of times; the most recent amendment was made in March 2010.

The objectives of this ordinance are to:

- 1) Protect human life, health and to eliminate or minimize property damage;
- 2) Minimize expenditure of public money for costly flood control projects;
- 3) Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- 4) Minimize prolonged business interruptions;
- 5) Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, roadways, and bridges and culverts located in floodplains;
- 6) Maintain a stable tax base by providing for the sound use and development of flood prone areas in such a manner as to minimize flood blight areas; and
- 7) Ensure that potential homebuyers are notified that property is in a food hazard area.

The Flood Damage Prevention Ordinance was used in the development of this FMP to assist in the risk assessment and identification of potential mitigations strategies and projects.

### **Building Code Ordinance (2010)**

The Town of Cutler Bay has by ordinance adopted and enforces the 2010 Florida Building Code which includes provisions for all buildings and structures constructed in whole or in part in a flood hazard area to be constructed in accordance with specific elevation requirements. The Building Code also includes provisions for high-velocity hurricane zones to mitigate wind damage from hurricanes and other wind storms.

The Florida Building Code was used in the development of this FMP to assist in the risk assessment and identification of potential mitigations strategies and projects.

### **Miami-Dade County Local Mitigation Strategy (2010)**

The Town of Cutler Bay has by ordinance adopted the 2010 Miami-Dade County Local Mitigation Strategy (LMS). The Town's Stormwater Master Plan identified several flood mitigation projects that were included in the County's 2010 LMS. The LMS also includes other flood mitigation related projects identified by Town staff. Goals from the Miami-Dade County LMS are as follows:



- The primary mitigation goal is to reduce vulnerability to natural, technological and societal hazards from all sources but especially, in South Florida, from hurricanes, tornadoes, major rainfall and other severe weather events.
- Related to the above is the goal to mitigate the extent and severity of the problems created by these hazards and to, collaterally, secure the necessary commitments and, to the maximum extent feasible, the necessary resources to implement mitigation activities in annual action plans to achieve these goals.
- To prevent any additions to the list of “Repetitive Loss Properties” published annually by the FEMA National Flood Insurance Program (NFIP) and to reduce the number of repetitive loss properties to a point where the municipalities and the county can qualify as a category A or B Community (i.e. a community containing no more than nine repetitive loss properties). A repetitive loss property is a single property that has two or more NFIP flood insurance claims of \$1,000 or more.
- To assure incremental improvements in municipalities’ standing and classification in the Community Rating System (CRS), with the related consequences of making flood insurance under the NFIP more affordable and reachable, while improving cities’ effectiveness in coping with flood hazards, problems and emergencies. It is also a goal of the Local Mitigation Strategy to ensure that all the municipalities in Miami-Dade County are or will become members of the CRS program.
- Increase the continual dissemination of information on a repetitive basis with respect to the existence of flood hazards and the availability of measures to mitigate the problems presented by such hazards.
- Continually improve and maintain cutting-edge, state-of-the-art, effectiveness of the cities’ emergency preparedness and disaster response capacity.
- To increase the level of coordination of mitigation management concerns, plans and activities at the municipal, county, state and federal levels of government.
- To secure an enforceable commitment for the implementation of the local hazard mitigation strategy.

The Miami-Dade County LMS was used in the development of this FMP to assist in the identification of potential mitigations strategies and projects.

### **Miami-Dade County Comprehensive Emergency Management Plan (2013)**

The Miami-Dade County Comprehensive Emergency Management Plan (CEMP) is designed to address “all hazards” threats to the County. In the event of a countywide emergency declaration, the corporate resources of the County and each of its municipalities work together for the mutual benefit of all residents and visitors of Miami-Dade County. Goals from Miami-Dade County CEMP are as follows:

- To provide an organized system of hazard vulnerability reduction to the citizens of and visitors to Miami-Dade County.
- To develop an enhanced level of awareness relative to emergency preparedness, throughout the population at large.
- To provide the most efficient response and recovery system possible through effective coordination and maximum utilization of all available resources.
- To coordinate the return of essential services to a normal state as quickly and effectively as possible after a disaster.
- To maintain a high level of readiness through community outreach and regular training.
- To reduce the public’s vulnerability to recurrent hazards by the promotion of hazard mitigation strategies, particularly in the areas of critical infrastructure, land use, and building codes.

The Miami-Dade County CEMP was used in the development of this FMP to assist in the identification of potential mitigations strategies and projects.



## Southeast Florida Regional Climate Action Plan (2012)

The objective of the Southeast Florida Regional Climate Action Plan is to integrate climate adaptation and mitigation into existing decision-making systems through actions that can be implemented through existing local and regional agencies, processes and organizations. Goals from the Southeast Florida Regional Climate Action Plan are as follows:

- Reduce financial and physical losses in our building stock by reshaping where and how we build.
- Reduce greenhouse gas emissions by planning, designing, and prioritizing walkable, affordable communities supported by sustainable multimodal transportation options.
- Advance water management strategies and infrastructure improvements needed to mitigate for adverse impacts of climate change and sea level rise on water supplies, water and wastewater infrastructure, and water management systems.
- Implement monitoring, management, and conservation programs designed to protect natural systems and improve their capacity for climate adaptation.
- Ensure the continued viability of agriculture in Southeast Florida through policies which remove barriers to production, promote economic incentives, improve water reliability, and provide research on best management practices, thereby encouraging sustainable production in the face of a changing climate.
- Increase renewable energy capacity and reduce consumption of electricity and fuel.
- Provide a more resilient natural and built physical environment in light of climate change.
- Communicate the risks related to climate change and the value of adapting policies and practices to achieve resilience throughout the region.
- Guide and influence local, regional, state and federal climate change related policies and programs through collaboration and joint advocacy.

The Southeast Florida Regional Climate Action Plan was used in the development of this FMP to assist in the risk assessment for sea level rise and identification of potential mitigations strategies and projects.

### 3.4.1 Administrative/Technical Mitigation Capabilities

Table 3.50 identifies Town personnel responsible for activities related to mitigation and loss prevention in the Town of Cutler Bay.

**Table 3.50 - Cutler Bay Administrative/Technical Capabilities**

Resource	Y/N	Responsible Department	Comments
Planner/Engineer with knowledge of land development/land management practices	Y	Community Development Dept	CFM
Engineer/Professional trained in construction practices related to buildings and/or infrastructure	Y	Public Works Dept	CFM's
Planner/Engineer/Scientist with an understanding of natural hazards	Y	Community Development & Public Works Dept	
Personnel skilled in GIS	Y	Community Development Dept	Utilize consultants
Full time building official	Y	Community Development Dept	
Floodplain Manager	Y	Office of the Town Manager, Community Development & Public	CFM's



Resource	Y/N	Responsible Department	Comments
		Works Dept	
Emergency Manager	Y	Public Works Dept	Aided by Miami-Dade County
Grant writer	Y	Office of the Town Manager	
GIS data – hazard areas	N		Miami-Dade County
GIS data – critical facilities	Y	Community Development Dept	
GIS data – building footprints	N		Miami-Dade County
GIS data – land use	Y	Community Development Dept	
GIS data – links to assessor’s data	N		Miami-Dade County
Warning systems/services	N		Miami-Dade County

### 3.4.2 Fiscal Mitigation Capabilities

Table 3.51 identifies financial tools or resources that the Town could potentially use to help fund mitigation activities.

**Table 3.51 - Cutler Bay Fiscal Mitigation Capabilities**

Resource	Accessible? Y/N	Comments
Community development block grants	Y	
Capital improvements project funding	Y	Ongoing Capital Improvement Plan
Authority to levy taxes for specific purposes	Y	
Fees for water, sewer, gas or electric services	Y	
Impact fees for new development	Y	
Incur debt through general obligation bonds	Y	
Incur debt through special tax bonds	Y	
Incur debt through private activities	N	
Withhold spending in hazard prone areas	Y	

### 3.4.3 Mitigation Outreach and Partnerships

#### Mitigation Outreach

##### *Annual Mailing of Hazard Information*

Annually, the Town of Cutler Bay mails a brochure concerning flood-related subjects to every address in the Town. Subjects discussed in the brochure include flood safety, flood warning, flood hazard areas, drainage system maintenance/stream ordinance, property protection measures, flood protection assistance, floodplain development regulations, substantial improvement/ damage requirements, the National Flood Insurance Program, natural and beneficial functions of wetlands, and flood-zone descriptions.

Since hurricanes and tropical storms are a major flood producer for the community, also included in the annual mailing is a Hurricane Evacuation Zone Map and a Hurricane Tracking Map with instructions concerning hurricane safety. The instructions provide information about sheltering, family disaster planning, flood hazards in Cutler Bay due to hurricane storm surge, and evacuation as well as definitions of terms used by weather forecasters.



**Public Library**

In addition to the direct distribution of educational brochures, hurricane tracking maps, and other information by the Town, the public library also houses and distributes a variety of emergency and disaster-related documents and brochures.

The Town has engaged in the following flood mitigation outreach activities as detailed in Table 3.52.

**Table 3.52 - Flood Mitigation Outreach Activities**

<b>Project/Event</b>	<b>Message</b>	<b>Frequency</b>
Project Kick-off – Public Meeting	Presentation, Informational Brochures and Flyers	One-time
Flood Mitigation Meeting	Presentation, Informational Brochures and Flyers	One-time
Miami Herald	Article and FMPC meeting announcement	One-time
South Dade News Leader	Article on 1 <sup>st</sup> FMPC Public Meeting	One-time
Cutler Bay News	FMPC Meeting Announcement	One-time
Movie Night	Public Service Announcement	One-time
Caribbean Blvd Holiday – Work Zone Open	Presentation, Informational Brochures and Flyers	One-time
Chili Cook-Off	Surveys and Information Materials	One-time
Roadway Resurfacing Phase III + Flood Flyers	Presentation, Informational Brochures and Flyers	One-time
Tree Trimming & Canopy Uplifting Project – Bel Aire Section 9 & 10	Informational Brochures and Flyers	One-time
Tree Trimming & Canopy Uplifting Project – Bel Aire Section 1	Informational Brochures and Flyers	One-time
Councilmember Loyzelle’s Newsletter	FMPC Meeting Announcement	One-time
Concerned Citizen’s Meeting (2/4/14)	Presentation, Informational Brochures and Flyers	One-time
Sidewalk Repairs	Presentation, Informational Brochures and Flyers	One-time
Alina-School	Presentation, Informational Brochures and Flyers	One-time
Taste of the Bay	Surveys and Informational Materials	One-time
Old Cutler Glenn HOA Meeting	Presentation, Informational Brochures and Flyers	One-time
Movie Night at the Park	PSA, Informational Materials and Surveys	One-time
Relay for Life	Charity Event, Outreach	One-time
Marlin MOT	Informational Brochures and Flyers	One-time
Concerned Citizens Meeting (3/4/14)	Presentation, Surveys and Informational Materials	One-time
OCR Grand Re-Opening	Presentation, Surveys and Informational Materials	One-time
Make Mitigation Happen – Repetitive Loss Properties	Surveys and Informational Materials	One-time
CBBA Luncheon	Informational Materials and Surveys	One-time
CBBA Meeting	Presentation, Surveys and Informational Materials	One-time
Seagrape HOA Meeting	Information Materials	One-time
Concerned Citizens Meeting (4/1/14)	Presentation, Informational Brochures and Flyers	One-time
Flood Surveys for Repetitive Loss Properties	Informational Brochures and Flyers	One-time
Enclave Fair at Enclave Club House	Informational Materials and Surveys	One-time
Centennial (Chanterelle) HOA Meeting	Information Materials	One-time
CBBA/EDC Luncheon	Informational Materials and Surveys	One-time
Cutler Bay Press Release	Announcing April 2014 Committee and Public Meeting	One-time
MOT Work Zone 2 Detour	Informational Brochure and Flyers	One-time
South Dade News Leader	Meeting Announcement	One-time
Miami Herald Neighbors Section	Meeting Announcement	One-time
Flood Mitigation Meeting	Presentation, Surveys and Informational Materials	One-time
Cutler Bay Website	Survey	Continuous/4



Project/Event	Message	Frequency
		months
Councilmember Mixon	FMPC Meeting Announcement at Council Meetings	Monthly
Cutler Bay Website	FMPC Meeting Announcement	Monthly
Cutler Bay Announcement Board	FMPC Meeting Announcement	Monthly

## Partnerships

### *Local*

The Town is a partner with Miami-Dade County Office of Emergency Management and South Florida Water Management District. The Town is an active participant in Miami-Dade County's Local Mitigation Strategy which includes flood mitigation projects for the Town. The Town also utilizes Miami-Dade County's Hurricane Preparedness and Emergency Evacuation Programs and provides links to this information on the Town's website. Furthermore, the Town uses flood mitigation publications prepared by Miami-Dade County and the South Florida Water Management District.

### *State*

The Town is a partner with the State of Florida Department of Emergency Management. The Town utilizes the State's hurricane surge maps and hurricane evacuation zones to perform local risk assessments and to develop mitigation strategies. The Town also partners with the State on grant funding opportunities.

### *Federal*

The Town is a partner with FEMA. The Town utilizes FEMA's flood insurance study to perform local risk assessments and to enforce local floodplain management ordinances. The Town also utilizes FEMA literature and brochures to promote flood risk awareness.

## 4 MITIGATION STRATEGY

**Requirement §201.6(c)(3): [The plan shall include] a mitigation strategy that provides the jurisdiction’s blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.**

This section describes the mitigation strategy process and mitigation action plan for the Cutler Bay Floodplain Mitigation Plan. It describes how the Town met the following requirements from the 10-step planning process:

- Planning Step 6: Set Goals
- Planning Step 7: Review Possible Activities
- Planning Step 8: Draft an Action Plan

### 4.1 Mitigation Strategy: Overview

The results of the planning process, the risk assessment, the goal setting, and the identification of mitigation actions led to the mitigation strategy and mitigation action plan for this FMP. Section 4.2 below identifies the goals and objectives of this plan and Section 4.4 details the new mitigation action plan. The following umbrella mitigation strategy was developed for this FMP:

**Communicate** the hazard information collected and analyzed through this planning process as well as FMPC success stories so that the community better understands what can happen where and what they themselves can do to be better prepared.

**Implement** the action plan recommendations of this plan.

**Use** existing rules, regulations, policies, and procedures already in existence.

**Monitor** multi-objective management opportunities so that funding opportunities may be shared and packaged and broader constituent support may be garnered.

#### 4.1.1 Continued Compliance with NFIP

Given the flood hazards in the planning area, an emphasis will be placed on continued compliance with the NFIP and participation in the Community Rating System. Detailed below is a description of the Town of Cutler Bay’s flood management program to ensure continued compliance with the NFIP.

##### Cutler Bay’s Flood Management Program

Cutler Bay joined the NFIP in August of 2006. Since then, the Town has administered floodplain management regulations that meet and exceed the minimum requirements of the NFIP. Under that arrangement, residents and businesses paid the same flood insurance premium rates as most other communities in the country.

The Community Rating System (CRS) was created in 1990. It is designed to recognize floodplain management activities that are above and beyond the NFIP’s minimum requirements. Cutler Bay is



currently a Class 6 community, which gives a 20% premium discount to individuals in Cutler Bay in the Special Flood Hazard Area, and a 10% discount to policyholders outside the Special Flood Hazard Area.

The activities credited by the CRS provide direct benefits to Cutler Bay and its residents, including:

- Enhanced public safety;
- A reduction in damage to property and public infrastructure;
- Avoidance of economic disruption and losses;
- Reduction of human suffering; and
- Protection of the environment.

The following is a summary of Cutler Bay's total CRS credit points by activity:

**Activity 310 – Elevation Certificates:** The Building Department maintains elevation certificates for new and substantially improved buildings. Copies of elevation certificates are made available upon request. Elevation certificates, plans, regulations and other records are maintained in a secure location away from the permit office. (66 credit points received)

**Activity 320 – Map Information:** Credit is provided for furnishing inquirers with flood zone information from the community's latest FIRM, publicizing the service annually and maintaining records. (140 credit points received)

**Activity 330 – Outreach Projects:** A community brochure is mailed to all properties in the community on an annual basis. An outreach brochure is mailed annually to all properties in the SFHA. Cutler Bay also provides flood information in the permit office and Town Hall, distributes both a County and Town hurricane guide, and prints flood information in the phonebook. (218 credit points received)

**Activity 340 – Hazard Disclosure:** Credit is provided for the local real estate agents disclosure of flood hazards to prospective buyers. (10 credit points received)

**Activity 350 – Flood Protection Information:** Documents relating to floodplain management are available in the reference section of the Miami Dade Library. Credit is also provided for floodplain information displayed on the community's website. (48 credit points received)

**Activity 360 Flood Protection Assistance:** Cutler Bay provides technical advice and assistance to interested property owners and annually publicizes the service. (62 credit points received)

**Activity 410 – Additional Flood Data:** Credit is provided for a cooperating technical partnership agreement with FEMA. (11 credit points received)

**Activity 420 – Open Space Preservation:** Credit is provided for preserving approximately 1,904 acres in the SFHA as open space. Credit is also provided for open space land that is deed restricted and preserved in a natural state. (401 credit points received)

**Activity 430 – Higher Regulatory Standards:** Credit is provided for enforcing regulations that require freeboard for new and substantial improvement construction, cumulative substantial improvement, lower substantial improvement, other higher regulatory standards, and state mandated regulatory standards. Credit is also provided for a BCEGS classification of 4/4 and for staff education and certification as a floodplain manager. (338 credit points received)



**Activity 440 – Flood Data Maintenance:** Credit is provided for maintaining and using digitized maps, overlay maps and parcel records in the day to day management of the floodplain. Credit is also provided for establishing and maintaining a system of benchmarks. (107 credit points received)

**Activity 450 – Stormwater Management:** Cutler Bay enforces regulations for stormwater management, freeboard in non-SFHA zones, soil and erosion control, and water quality. (125 credit points received)

**Section 510 – Floodplain Management Planning:** Cutler Bay has 32 unmitigated repetitive loss properties and is a Category C community for CRS purposes. All requirements for a Category C community have been met. Credit is provided for the adoption and implementation of a Floodplain Mitigation Plan. A progress report must be submitted on an annual basis. (102 credit points received)

**Activity 540 – Drainage System Maintenance:** Portions of Cutler Bay’s drainage system are inspected regularly throughout the year and maintenance is performed as needed by the Town of Cutler Bay Public Works Department. Records are being maintained for both inspections and required maintenance. Credit is also provided for an ongoing Capital Improvements Program. The Town also enforces a regulation prohibiting dumping in the drainage system. (240 credit points received)

**Activity 610 Flood Warning Program:** Credit is provided for program that provides timely identification of impending flood threats, disseminates warnings to appropriate floodplain residents, and coordinates flood response activities. (85 credit points received)

**Activity 630 – Dam Safety:** All CRS communities in Florida currently receive credit for the State’s Dam Safety Program. (71 credit points received)

## 4.2 Goals and Objectives

**Requirement §201.6(c)(3)(i): [The mitigation strategy section shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.**

Section 3.0 documents the flood hazards and associated risks that threaten the Town of Cutler Bay including the vulnerability to structures, infrastructure, and critical facilities. Section 3.0 also evaluates the capacity of the Town to reduce the impact of those hazards. The intent of Goal Setting is to identify areas where improvements to existing capabilities (policies and programs) can be made so that community vulnerability is reduced. Goals are also necessary to guide the review of possible mitigation measures. This Plan needs to make sure that recommended actions are consistent with what is appropriate for Cutler Bay. Mitigation goals need to reflect community priorities and should be consistent with other plans in the Town and within Miami-Dade County.

**Goals:** are general guidelines that explain what is to be achieved. They are usually broad-based policy type statements, long term and represent Global visions. Goals help define the benefits that the plan is trying to achieve.

**Objectives:** are short term aims, when combined, form a strategy or course of action to meet a goal. Unlike goals, objectives are specific and measurable.

## 4.2.1 Coordination with Other Planning Efforts

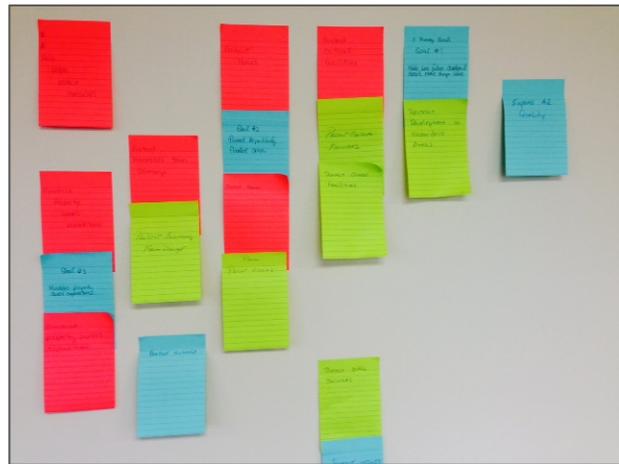
The goals of this plan need to be consistent with and complement the goals of other planning efforts. The primary planning document where the goals of this Plan must complement and be consistent with is the Miami-Dade Local Mitigation Strategy and to a lesser degree the community’s comprehensive plan. The importance of Cutler Bay’s comprehensive plan is that this plan is developed and designed to guide the future growth within the Town. Therefore, there should be some consistency in the overall goals and how they relate to each other. Likewise, the goals of the county’s local mitigation strategy play an important role as Cutler Bay participates in this multi-jurisdictional plan and each plan focuses on the flood hazards.

## 4.2.2 Goal Setting Exercise

On July 17th, 2011, the Cutler Bay Floodplain Mitigation Planning Committee (FMPC) conducted an exercise to outline its goals for this flood mitigation plan. The first part of the exercise including asking each committee member: “*What would you like to see in Cutler Bay’s future?*” Each member was given a handout which appears in Figure 4.1.

Committee members wrote down their choices on post-it-notes. Each member then explained their choices to the larger committee membership. The notes were posted on the wall and then organized by similar topics. There was some consistency in the members’ topics. The handout has 22 possible statements, but the members’ nominations included fewer than half of them. The results are listed below:

- Confine new development to areas already developed
- Special attention to older established business areas (eliminate blight)
- Less traffic congestion (improved roads and new bike lanes)
- Improved recreational facilities (preserve historical and cultural sites)
- Improved housing and improving the business climate
- Increase knowledge of local residents (special attention to the elderly and disabled)



A second exercise was then conducted to recommend mitigation goals. Each member was given the hand out that appears in Figure 4.2 which asks “*What should be the goals of the mitigation program?*” Committee members wrote down their top three choices on post-it-notes. Each member explained their choices to the larger membership. After the notes were placed on the wall, they were then organized by similar topics. The resulting goals are listed below:

- Protect homes and businesses
- Make sure future development doesn't make things worse
- New Development should occur in areas already developed
- Maximize the use of state and federal funds to protect property
- Protect the lives, health, safety and welfare of the citizens of Cutler Bay
- Protect critical and public infrastructure



The goal statements selected by committee members were in line with what they wanted to see in Cutler Bay's future. The exercise revealed important information to guide the planning effort. For example, members stressed the importance of protecting lives and property, even though improving the economy and increasing the number of jobs was an important part of their vision for the future.

### 4.2.3 Resulting Goals

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At the end of the exercises, the FMPC agreed upon four general goals for this planning effort. The goals were refined and include:

- Goal 1:** Protect the health, safety and welfare of the citizens of Cutler Bay from the effects of flooding
- Goal 2:** Promote a public education program to encourage residents to undertake mitigation measures that reduce the effects of flood damage on private property
- Goal 3:** Protect critical and essential facilities from flood damage
- Goal 4:** Reduce the number of repetitively flooded structures

### 4.2.4 Resulting Objectives

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The FMPC also included objectives in support of the goals. The FMPC developed ten objectives in for implementing each goal. The objective numbers relate to the goal numbers above. The objectives include:



- Objective 1.1:** Reduce flood damage to insurable buildings and public infrastructure through stormwater improvement projects
- Objective 1.2:** Preserve open space areas, especially where there are sensitive natural areas
- Objective 1.3:** Promote higher development and design standards to protect new buildings from flood damage
- Objective 2.1:** Encourage residents to assume an appropriate level of responsibility for their own flood protection
- Objective 2.2:** Promote flood insurance as a property protection measure against potential flood damage
- Objective 2.3:** Develop a public education program for the local schools
- Objective 3.1:** Seek county, state and federal support for mitigation projects
- Objective 3.2:** Prioritize critical and essential facilities in need of protection from potential flood damage
- Objective 4.1:** Leverage local, state and federal grant funding to facilitate mitigation actions such as elevation, acquisition, or floodproofing
- Objective 4.2:** Target repetitive loss properties for implementation of mitigation projects

## Goals Exercise 1

### What would you most like to see in Cutler Bay's future?

Here are possible answers to this question, listed in alphabetical order. Pick three that you think are most important. You may reword them or add new ones if you want.

You have three cards. Use one card for each of your top three answers.

- Educated children
- Improved air quality
- Improved water quality
- Less new development
- Less traffic congestion
- Improved/more businesses
- Improved/more cultural facilities
- Improved/more housing
- Improved/more public transportation
- Improved/more job opportunities
- Improved/more knowledgeable residents
- Improved/more open space
- Improved/more shopping
- New development confined to areas already developed
- Preserved historical/cultural sites
- Special attention given to elderly/disabled
- Special attention given to lower income areas
- Special attention given to newer shopping areas
- Special attention given to older business areas
- Younger people staying/moving into the area
- Other \_\_\_\_\_

Figure 4.1 - Handout for Goal Outline Exercise

## Goals Exercise 2

### What should be the goals of our mitigation program?

Here are possible answers to this question, listed in alphabetical order. Pick three that you think are most important. You may reword them or add new ones if you want.

You have three cards. Use one card for each of your top three answers.

- Help people protect themselves
- Make sure future development doesn't make things worse
- Maximize the share paid by benefiting property owners
- Maximize use of state and federal funds
- Minimize property owner's expenditures
- Minimize public expenditures
- New developments should pay the full cost of protection measures
- Protect businesses from damage
- Protect cars and other vehicles
- Protect centers of employment
- Protect critical facilities
- Protect forests
- Protect homes
- Protect new/future buildings
- Protect people's lives
- Protect power stations and power lines
- Protect public health
- Protect public services (fire, police, etc.)
- Protect repetitively flooded areas
- Protect scenic areas, greenways, etc.
- Protect schools
- Protect shopping areas
- Protect streets
- Protect utilities (power, phone, water, sewer, etc.)
- Protect wetlands/environmentally sensitive areas
- Protect a particular area \_\_\_\_\_
- Protect a particular property \_\_\_\_\_
- Restrict development in hazardous areas
- Use public/private partnerships
- Other \_\_\_\_\_

Figure 4.2 - Handout for Goal Setting Exercise

## 4.3 Identification and Analysis of Mitigation Activities

**Requirement §201.6(c)(3)(ii): [The mitigation strategy section shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure. All plans approved by FEMA after October 1, 2008, must also address the jurisdiction's participation in the NFIP, and continued compliance with NFIP requirements, as appropriate.**

In order to identify and select mitigation projects to support the mitigation goals, each hazard identified in Section 3.1 Hazard Identification was evaluated. Because of the Town's proximity to the Atlantic Ocean, high water table, and poor drainage, each flood-related hazard was considered to be a priority hazard. The following were determined to be priority flood-related hazards:

- Climate Change and Sea Level Rise
- Coastal/Canal Bank Erosion
- Flood: 100/500 year
- Flood: Stormwater/ Localized Flooding
- Hurricane and Tropical Storms (including Storm Surge)

Once it was determined which flood hazards warranted the development of specific mitigation actions, the FMPC analyzed viable mitigation options that supported the identified goals and objectives. The FMPC was provided with the following list of mitigation categories which are utilized as part of the CRS planning process.

- Prevention (Required to be evaluated)
- Property Protection
- Natural Resource Protection
- Emergency Services
- Structural Projects
- Public Information and Outreach

The FMPC was also provided with examples of potential mitigation actions for each of the above categories. The FMPC was instructed to consider both future and existing buildings in evaluating possible mitigation actions. A facilitated discussion then took place to examine and analyze the options. Appendix B, Mitigation Strategy, provides a detailed discussion organized by CRS mitigation category of possible mitigation alternatives for the Town to assist in the review and identification of possible mitigation activities. This comprehensive review of possible mitigation activities details why some were appropriate for implementation and why others were not. As promoted by CRS, Prevention type mitigation alternatives were discussed for the flood hazards. This discussion was followed by a brainstorming session that generated a list of preferred mitigation actions by hazard.

### 4.3.1 Prioritization Process

Once the mitigation actions were identified, the FMPC was provided with several decision- making tools, including FEMA's recommended prioritization criteria, STAPLEE sustainable disaster recovery criteria; Smart Growth principles; and others, to assist in deciding why one recommended action might be more important, more effective, or more likely to be implemented than another. STAPLEE stands for the following:

- Social: Does the measure treat people fairly? (e.g. different groups, different generations)
- Technical: Is the action technically feasible? Does it solve the problem?
- Administrative: Are there adequate staffing, funding and other capabilities to implement the project?
- Political: Who are the stakeholders? Will there be adequate political and public support for the project?
- Legal: Does the jurisdiction have the legal authority to implement the action? Is it legal?
- Economic: Is the action cost-beneficial? Is there funding available? Will the action contribute to the local economy?
- Environmental: Does the action comply with environmental regulations? Will there be negative environmental consequences from the action?

In accordance with the DMA requirements, an emphasis was placed on the importance of a benefit-cost analysis in determining action priority. It was agreed that the following four criteria would be used to determine the priority of the action items:

- Contribution of the action to save life or property
- Availability of funding and perceived cost-effectiveness
- Available resources for implementation
- Ability of the action to address the problem

A comprehensive review of mitigation measures was performed using the criteria (alternatives and selection criteria) in Appendix B.

With these criteria in mind, FMPC members were asked to prioritize the importance of each mitigation project based on whether the project should be a low, medium or high priority. The FMPC reached consensus on the priority for each mitigation project.

The process of identification and analysis of mitigation alternatives allowed the FMPC to come to consensus and to prioritize recommended mitigation actions. During the process, emphasis was placed on the importance of a benefit-cost review in determining project priority; however, this was not a quantitative analysis. The team agreed that prioritizing the actions collectively enabled the actions to be ranked in order of relative importance and helped steer the development of additional actions that meet the more important objectives while eliminating some of the actions which did not garner much support. Benefit-cost was also considered in greater detail in the development of the Mitigation Action Plan detailed below in Section 4.4. The cost-effectiveness of any mitigation alternative will be considered in greater detail through performing benefit-cost project analyses when seeking FEMA mitigation grant funding for eligible actions associated with this plan.

The FMPC determined that cost benefit review of each of the mitigation actions was clearly an important criterion in the prioritization process. They discussed the contribution of the action to saving lives or property as first and foremost, with additional consideration given to the benefit-cost aspect of a project.

## 4.4 Mitigation Action Plan

**Requirement §201.6(c)(3)(iii): [The mitigation strategy section shall include an] action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.**

This action plan was developed to present the recommendations developed by the FMPC for how the Town of Cutler Bay can reduce the risk and vulnerability of people, property, infrastructure, and natural and cultural resources to future disaster losses. Emphasis was placed on both future and existing development. The action plan summarizes who is responsible for implementing each of the prioritized actions as well as when and how the actions will be implemented. Each action summary also includes a discussion of the benefit-cost review conducted to meet the regulatory requirements of the Disaster Mitigation Act. Table 4.1 identifies the mitigation actions.

It is important to note that the Town of Cutler Bay has many existing, detailed action descriptions, which include benefit-cost estimates, in other planning documents, such as, stormwater plans, and capital improvement budgets and reports. These actions are considered to be part of this plan, and the details, to avoid duplication, should be referenced in their original source document. The FMPC also realizes that new needs and priorities may arise as a result of a disaster or other circumstances and reserves the right to support new actions, as necessary, as long as they conform to the overall goals of this plan.

Further, it should be clarified that the actions included in this mitigation strategy are subject to further review and refinement; alternatives analyses; and reprioritization due to funding availability and/or other criteria. The Town is not obligated by this document to implement any or all of these projects. Rather this mitigation strategy represents the desires of the community to mitigate the risks and vulnerabilities from identified hazards. The actual selection, prioritization, and implementation of these actions will also be further evaluated in accordance with the CRS mitigation categories and criteria contained in Appendix B.



**Table 4.1 - Summary of Cutler Bay Mitigation Actions**

Action	Related to Goal	Address Current Development	Address Future Development	Continued Compliance with NFIP	Mitigation Category
Identify segments of canals where erosion is causing banks to collapse and prepare a prioritized list for improvements	1 & 4	Y	Y	N	Property Protection and Natural Resource Protection
Cleanout all storm drains on a bi-annual basis	1, 3 & 4	Y	Y	Y	Preventative and Property Protection
Improve drainage along the C-100 canal through a dredging project	1, 3 & 4	Y	Y	Y	Preventative, Property Protection and Structural Projects
Improve drainage in the Saga Bay sub basin through upgraded stormwater piping	1 & 4	Y	Y	Y	Preventative, Property Protection, and Structural Projects
Implement program to identify all catch basins located on private streets in gated communities	1 & 4	Y	N	N	Preventative
Continue implementation of drainage system maintenance on all surface water channels, canals and ditches	1, 3 & 4	Y	Y	Y	Preventative and Property Protection
Improve drainage along SW 212th Street with construction of a new outfall	1, 3 & 4	Y	Y	Y	Preventative, Property Protection, and Structural Projects
Promote an Enviro Scape model to elementary school students	2	N	N	N	Public Information and Outreach
Work with local, state and federal partners to target repetitive loss properties for acquisition or elevation	2 & 4	Y	N	Y	Property Protection
Promote retrofitting techniques for floodproofing of residential structures	2 & 4	Y	N	Y	Property Protection
Revise local codes to require landscapers to obtain licenses	1 & 2	Y	Y	N	Preventative and Public Information and Outreach
Work with the Miami-Dade Association of Realtors to require flood zones to be included in a	1 & 2	Y	Y	N	Public Information and Outreach



Action	Related to Goal	Address Current Development	Address Future Development	Continued Compliance with NFIP	Mitigation Category
MLS					
Promote the purchase of flood insurance to residents and businesses	1, 2 & 3	Y	Y	Y	Property Protection and Public Information and Outreach
Protect the natural floodplain functions within the Town including the Cutler Wetlands	1, 2, 4	Y	Y	Y	Natural Resource Protection
Increase awareness of the flood hazard through development of a Program for Public Information PPI	1 and 2	Y	N	Y	Public Information and Outreach
Work with Miami-Dade County Emergency Management on identifying vulnerable populations for evacuations	1 and 2	Y	N	N	Emergency Services and Public Information and Outreach
Work with Miami-Dade County Emergency Management, state and federal governments, to protect vulnerable critical facilities	1 and 3	Y	N	N	Emergency Services



## 4.5 Flood-Hazard Mitigation Actions

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### 1. Identify segments of canals where erosion is causing banks to collapse and prepare a prioritized list for improvements

**Project Description:** Inventory all canals (whether owned by the town or other agency or community) to determine where erosion is causing banks to erode and collapse so that a capital improvement strategy can be put in place for maintenance.

**Hazards Addressed:** Flood – Canal Bank Erosion

**Issue/Background:** Canals throughout the Town’s jurisdiction are in need of maintenance so that nearby properties are not adversely affected by erosion and potential collapse of canal banks.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Capital Improvement Program

**Responsible Office:** Department of Public Works

**Priority (H, M, L):** High

**Cost Estimate:** Unknown

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from canals not operating properly.

**Potential Funding:** Town of Cutler Bay Capital Improvement Funds

**Timeframe:** 2016

### 2. Cleanout all storm drains on a bi-annual basis

**Project Description:** Ensure that storm drains are cleaned on a regular and consistent basis in order to maintain adequate stormwater drainage as they were designed.

**Hazards Addressed:** Flood - Stormwater/ Localized Flooding

**Issue/Background:** Storm drains throughout the Town’s jurisdiction are in need of regular cleaning/maintenance so that nearby properties are not adversely affected by inadequate drainage and ponding of stormwater.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Capital Improvement Program and Town’s Operating Budget



**Responsible Office:** Department of Public Works

**Priority (H, M, L):** High

**Cost Estimate:** \$225,000

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from catch basins not draining properly.

**Potential Funding:** Town of Cutler Bay Capital Improvement Funds and Town's Operating Budget

**Timeframe:** Complete every 2 years

### **3. Improve drainage along the C-100 canal through a dredging project**

**Project Description:** Mitigate/reduce flooding in the sub-basin that currently outfalls to the canal by dredging the C-100 canal.

**Hazards Addressed:** Flood – Stormwater/ Localized Flooding

**Issue/Background:** The C-100 canal is in need of dredging in order to improve drainage in the adjacent sub-basin.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Capital Improvement Program and funding support from Miami-Dade County

**Responsible Office:** Department of Public Works

**Priority (H, M, L):** High

**Cost Estimate:** Unknown

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from inadequate drainage within the canal.

**Potential Funding:** Town of Cutler Bay Capital Improvement Funds with support from Miami-Dade County

**Timeframe:** 2016

### **4. Improve drainage in the Saga Bay sub-basins through upgraded stormwater piping**

**Project Description:** Based on hydrologic and hydraulic calculations, the capacity of the existing drainage infrastructure is not sufficient to discharge the volume of runoff that is necessary to meet the desired performance criteria for the modeled storm events.



**Hazards Addressed:** Flood – Stormwater/ Localized Flooding

**Issue/Background:** Observed flooding across roadway and localized ponding in roadway in multiple locations within the sub-basins. Multiple complaints have been received.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Capital Improvement Program

**Responsible Office:** Department of Public Works

**Priority (H, M, L):** High

**Cost Estimate:** Detailed phasing cost estimates are included in the Cutler Bay Stormwater Master Plan.

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from stormwater ponding. This project will help to eliminate hazardous driving conditions for the citizens of Cutler Bay during heavy rainfall events.

**Potential Funding:** Town of Cutler Bay Capital Improvement Funds

**Timeframe:** Phased implementation through 2019

## **5. Implement program to identify all catch basins located on private streets in gated communities**

**Project Description:** Inventory all catch basins located on private streets in gated communities in order to develop a plan for maintenance.

**Hazards Addressed:** Flood – Stormwater/ Localized Flooding

**Issue/Background:** Property owners in gated communities are located on private streets where the Town has no responsibility to clean catch basins. The Town gets numerous complaints concerning the lack of maintenance. The Town does not have a comprehensive inventory of all catch basins on private streets. Since storm drains must be cleaned on a regular basis in order to ensure adequate drainage, an inventory will help to assess the severity of the problem.

**Other Alternatives:** Leave maintenance up to homeowners.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** The public works department's maintenance procedures

**Responsible Office:** Department of Public Works

**Priority (H, M, L):** Medium



**Cost Estimate:** \$20,000

**Benefits (Losses Avoided):** Reduces potential losses to buildings on private streets which could be damaged from catch basins not draining properly.

**Potential Funding:** Town of Cutler Bay Operating Budget

**Timeframe:** 2018

**6. Continue implementation of drainage system maintenance on all surface water channels, canals and ditches**

**Project Description:** Maintain all surface water channels, canals and ditches in order to ensure the proper storage, disposal and water quality treatment of runoff.

**Hazards Addressed:** Flood – Stormwater/ Localized Flooding

**Issue/Background:** Drainage features throughout the Town’s jurisdiction are in need of regular maintenance so that nearby properties are not adversely affected by reduced function.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Capital Improvement Program

**Responsible Office:** Department of Public Works

**Priority (H, M, L):** High

**Cost Estimate:** Unknown

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from channel, canals and ditches not operating properly.

**Potential Funding:** Town of Cutler Bay Capital Improvement Funds

**Timeframe:** Annually

**7. Improve drainage along SW 212<sup>th</sup> Street with construction of a new outfall**

**Project Description:** Upgrade the stormwater infrastructure along SW 212<sup>th</sup> street in order to ensure sufficient discharge of stormwater runoff.

**Hazards Addressed:** Flood – Stormwater/ Localized Flooding

**Issue/Background:** Observed flooding across roadway and localized ponding in roadway.



**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Capital Improvement Program

**Responsible Office:** Department of Public Works

**Priority (H, M, L):** Medium

**Cost Estimate:** \$425,000

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from stormwater ponding and prevents hazardous driving conditions for residents.

**Potential Funding:** Town of Cutler Bay Capital Improvement Funds

**Timeframe:** 2017

## **8. Promote an Enviro-Scape model to elementary school students**

**Project Description:** Help elementary school students to better understand the sources of flooding and prevention of water pollution.

**Hazards Addressed:** Flood – Stormwater/ Localized Flooding

**Issue/Background:** The Town is committed to public outreach programs dedicated to informing the public about flood risk and pollution prevention.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Community's Outreach Program

**Responsible Office:** Town Manager and Public Works

**Priority (H, M, L):** Low

**Cost Estimate:** \$2,000

**Benefits (Losses Avoided):** Educates children on how to avoid flood damage and the benefits of reduced stormwater pollution.

**Potential Funding:** Town's Operating Budget

**Timeframe:** Annually



## 9. Work with local, state and federal partners to target repetitive loss properties for acquisition or elevation

**Project Description:** Target repetitive loss properties for either acquisition or retrofitting to eliminate the potential for future flooding.

**Hazards Addressed:** Flood – 100/500 yr and Stormwater/ Localized Flooding

**Issue/Background:** The Town has a number of repetitive loss buildings including some which are located in X - Zones. To eliminate the potential for future flood damage, the Town would like to work with other local, state and federal partners to prepare a strategy for mitigation of these buildings.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Flood Damage Prevention Ordinance (NFIP), along with federal grant programs.

**Responsible Office:** Department of Community Development

**Priority (H, M, L):** Medium

**Cost Estimate:** Unknown

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from future flood events.

**Potential Funding:** Local, State and Federal Grant Funding

**Timeframe:** 2019

## 10. Promote retrofitting techniques for floodproofing of residential structures

**Project Description:** Promote public outreach efforts where residents can help themselves to potentially eliminate damage from low level flooding to their structure by encouraging retrofitting techniques.

**Hazards Addressed:** All Flooding Types

**Issue/Background:** There are simple things residents and business can do to help reduced damage from the food hazard. Applying a moisture barrier with adhesive along the bottom few feet of a residence along with barriers for openings in doors can help eliminate flood damage to slab on grade homes.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Flood Damage Prevention Ordinance

**Responsible Office:** Department of Public Works and Planning and Zoning

**Priority (H, M, L):** Low



**Cost Estimate:** \$5,000

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from all types of flooding

**Potential Funding:** Town of Cutler Bay Operating Budget

**Timeframe:** 2019

#### 11. Develop local ordinance to require landscapers to register with the Town

**Project Description:** The Town wants to make sure area landscape businesses don't create flooding conditions by blowing grass and leaves toward or into catch basins. The Town wants to license Landscape business to ensure when working in the Town they are fully aware of the requirement not to put debris into catch basins.

**Hazards Addressed:** Flood – Local Stormwater

**Issue/Background:** One of the major causes of local stormwater flooding is due to homeowners and landscape professionals blowing yard waste into catch basins as opposed to bagging and removing the yard waste from site. By issuing licenses to landscape businesses, the Town is more likely to know who is doing work in the Town. Additionally, the fees generated can increase the public outreach efforts.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Town Codes/Ordinance

**Responsible Office:** Department of Public Works

**Priority (H, M, L):** High

**Cost Estimate:** Unknown

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from local stormwater flooding.

**Potential Funding:** Town of Cutler Bay Operating Budget

**Timeframe:** 2016

#### 12. Work with Miami-Dade County Association of Realtors to require flood zones to be included in a LMS

**Project Description:** Work with the Miami-Dade County Association of Realtors to provide flood zone information in the Multiple Listing Service (MLS) to better inform residents as to whether a property is located in a flood zone.



**Hazards Addressed:** All Types of Flooding

**Issue/Background:** Most potential purchasers of homes or businesses don't know if that building is located in a flood prone area or a designated floodplain. Having the MLS disclose this information would greatly increase the buyer's knowledge of flood risk and the potential hazard.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Miami-Dade Multiple Listing Service

**Responsible Office:** Department of Community Development in cooperation with local Cutler Bay Real Estate Agents

**Priority (H, M, L):** Medium

**Cost Estimate:** Staff Time

**Benefits (Losses Avoided):** N/A Upfront knowledge of the risk to the property

**Potential Funding:** Town of Cutler Bay's Operating Budget

**Timeframe:** 2018

### **13. Promote the purchase of flood insurance to residents and businesses**

**Project Description:** Increase the Town's flood insurance policy base to ensure that residents are adequately protected from flood damage. The Town's outreach program can increase the messaging in a number of ways to encourage the purchase of flood insurance including working with local insurance agents.

**Hazards Addressed:** All Flooding Types

**Issue/Background:** Since a majority of the Town is located in a 100-year floodplain, the more buildings that have flood insurance the fewer properties that will not have to dig into their own pockets to repair their home or business.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Cutler Bay's Outreach Program

**Responsible Office:** Department of Community Development and Public Works

**Priority (H, M, L):** Low

**Cost Estimate:** \$10,000

**Benefits (Losses Avoided):** N/A Public outreach and awareness that flood insurance is a homeowner's



first line of defense against flood damage.

**Potential Funding:** Town of Cutler Bay's Operating Budget

**Timeframe:** 2017

#### 14. Protect the natural floodplain functions within the Town including the Cutler Wetlands

**Project Description:** Preserve the Cutler Wetlands as a natural area on the east side of Cutler Bay to protect homes against storm surge and sea-level rise. Additionally, the wetland areas serve as a natural habitat for certain species of plant and animals which should also be protected.

**Hazards Addressed:** Storm Surge and Sea-Level Rise

**Issue/Background:** The Cutler Wetlands is natural barrier to storm surge and sea-level rise from the Atlantic Ocean. Natural buffers are necessary to protect buildings from flood damage whether they are dunes or natural wetland protection areas. The Town of Cutler Bay is fortunate to have this large wetland area in the east part of the Town. Protecting this area from infiltration of development should be a strategy.

**Other Alternatives:** Allowing development to encroach upon this natural buffer.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Town of Cutler Bay's Comprehensive Plan and Zoning Ordinance

**Responsible Office:** Department of Community Development/Building and Zoning

**Priority (H, M, L):** Medium

**Cost Estimate:** Local Staff Time

**Benefits (Losses Avoided):** Reduces potential losses to buildings which could be damaged from storm surge and sea-level rise.

**Potential Funding:** Town of Cutler Bay's Operating Budget

**Timeframe:** 2019

#### 15. Increase awareness of the flood hazard through development of a Program for Public Information

**Project Description:** Increase outreach efforts by determining which types of messages, target audiences and target areas should be focused upon in an overall outreach strategy to better inform the public of flood risks and flood response efforts.

**Hazards Addressed:** All Types of Flooding

**Issue/Background:** Improving upon the overall messaging, the dissemination methods, and who the



Town is targeting with those messages will improve the overall effectiveness of the outreach program and may result in a better informed public.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Town's Outreach Program

**Responsible Office:** Department of Public Works

**Priority (H, M, L):** High

**Cost Estimate:** Staff Time

**Benefits (Losses Avoided):** N/A Better informed public can result in better protection to buildings

**Potential Funding:** Town of Cutler Bay's Operating Budget

**Timeframe:** 2015

#### **16. Work with Miami-Dade County Emergency Management on identifying vulnerable populations for evacuations**

**Project Description:** Inventory and identify vulnerable populations within the Town to ensure that the elderly and those who are disabled are recognized by first responders and their locations are established so that the emergency management officials understand where these populations reside in case evacuations become necessary.

**Hazards Addressed:** All Flooding Types

**Issue/Background:** In many cases emergency managers are not aware of where vulnerable populations are located. Having this information in a data base and in GIS mapping can better equip responders with the knowledge to assist in evacuations.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Miami-Dade County Emergency Management

**Responsible Office:** Town Manager and Police Department

**Priority (H, M, L):** High

**Cost Estimate:** Unknown

**Benefits (Losses Avoided):** N/A

**Potential Funding:** State Emergency Management Grant Funding



**Timeframe:** 2017

**17. Work with Miami-Dade County Emergency Management and state and federal governments to protect vulnerable critical facilities**

**Project Description:** Protecting critical facilities from flood damage is necessary to ensure they operate properly during flooding conditions.

**Hazards Addressed:** All Flood Types

**Issue/Background:** Critical facilities which operate as either evacuation centers or pump flood waters, or sewage should be protected from flood damage so they perform without interruption.

**Other Alternatives:** No action.

**Existing Planning Mechanism(s) through which Action Will Be Implemented:** Miami-Dade County Local Mitigation Strategy

**Responsible Office:** Police Department and Town Manager

**Priority (H, M, L):** Medium

**Cost Estimate:** Unknown

**Benefits (Losses Avoided):** Reduces potential damage to critical facilities.

**Potential Funding:** HMGP Grant Funding and State Emergency Management Funding

**Timeframe:** 2019



## 5 PLAN ADOPTION

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**Requirement §201.6(c)(5): [The plan shall include] documentation that the plan has been formally approved by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council).**

The purpose of formally adopting this plan is to secure buy-in from the Town of Cutler Bay, raise awareness of the plan, and formalize the plan's implementation. The adoption of this plan completes Planning Step 9 of the 10-step planning process: Adopt the Plan, in accordance with the requirements of DMA 2000. The Town Council has adopted the Floodplain Mitigation Plan by passing a resolution. A copy of the executed resolution is shown below.



**RESOLUTION NO. 14-73**

**A RESOLUTION OF THE TOWN COUNCIL OF THE  
TOWN OF CUTLER BAY, FLORIDA, RELATING TO THE  
ADOPTION OF THE FLOODPLAIN MITIGATION PLAN  
AND PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, flooding in the State of Florida and in South Florida have historically caused significant disasters with losses of life and natural resources damages; and

**WHEREAS**, the Flood Mitigation Assistance (FMA) Program helped to fund development of this Floodplain Mitigation Plan which will enable the Town of Cutler Bay (the "Town") to remain eligible for both pre and post-disaster federal funding for mitigation purposes; and

**WHEREAS**, the FMA Program requires that a community officially adopt floodplain mitigation plans; and

**WHEREAS**, the Town has been an active participant in the FMA planning process in concert with FEMA's Disaster Mitigation Act (DMA) of 2000 Planning Requirements and FEMA's National Flood Insurance Program's (NFIP) Community Rating System (CRS) Program Activity 510 Planning Requirements with full and open public meetings; and

**WHEREAS**, the appointed Floodplain Mitigation Planning Committee (FMPC) worked with Town Staff and the Council Liaison under the mission, goals and objects set forth for the Floodplain Mitigation Plan; and

**WHEREAS**, the Town has repetitive loss properties which must be addressed in the FMA, DMA and CRS planning processes; and

**WHEREAS**, the Town is a participant in FEMA's CRS Program and this Floodplain Mitigation Plan will support additional credits to help reduce flood insurance premiums for policy holders; and

**WHEREAS**, the Town Council finds that the adoption of the Floodplain Mitigation Plan is in the best interest of the health, safety and welfare of the residents of the Town.

**NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE  
TOWN OF CUTLER BAY, FLORIDA THAT:**

**Section 1. Recitals.** The above recitals are true and correct and are incorporated herein by this reference.



**Section 2. Adoption and Implementation of Floodplain Mitigation Plan.** That the Floodplain Mitigation Plan in substantially the form attached as Exhibit "A" is hereby adopted. The Town Manager is authorized to take all actions necessary to implement the Master Plan.

**Section 3. Funding.** The Town will pursue available funding opportunities for implementation of the mitigation projects contained in the Floodplain Mitigation Plan.

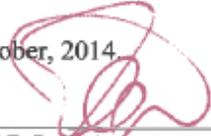
**Section 4. Effective Date.** This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 15<sup>th</sup> day of October, 2014.

Attest:

  
DEBRA E. EASTMAN, MMC  
Town Clerk



  
EDWARD P. MACDOUGALL,  
Mayor

APPROVED AS TO FORM AND  
LEGAL SUFFICIENCY FOR THE  
SOLE USE OF THE TOWN OF CUTLER BAY:

  
WEISS SEROTA HELFMAN PASTORIZA  
COLE & BONISKE, P.L.  
Town Attorney

Moved By: Council Member Mixon  
Seconded By: Vice Mayor Sochin

FINAL VOTE AT ADOPTION:

Mayor Edward P. MacDougall	YES
Vice Mayor Ernest N. Sochin	YES
Council Member Peggy R. Bell	YES
Council Member Sue Ellen Loyzelle	YES
Council Member Mary Ann Mixon	YES



## 6 PLAN IMPLEMENTATION AND MAINTENANCE

**Requirement §201.6(c)(4): [The plan maintenance process shall include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.**

Implementation and maintenance of the plan is critical to the overall success of hazard mitigation planning. This is Planning Step 10 of the 10-step planning process. This section provides an overview of the overall strategy for plan implementation and maintenance and outlines the method and schedule for monitoring, updating, and evaluating the plan. The section also discusses incorporating the plan into existing planning mechanisms and how to address continued public involvement.

### 6.1 Implementation

Once adopted, the plan must be implemented in order to be effective. While this plan contains many worthwhile actions, the Town of Cutler Bay will need to decide which action(s) to undertake first. The priority assigned the actions in the planning process and funding availability will affect that decision. Low or no-cost actions most easily demonstrate progress toward successful plan implementation.

An important implementation mechanism that is highly effective and low-cost is incorporation of the hazard mitigation plan recommendations and their underlying principles into other plans and mechanisms, such as the Town's Comprehensive Growth Management Plan and Stormwater Management Plan. The Town of Cutler Bay already implements policies and programs to reduce losses to life and property from hazards. This plan builds upon the momentum developed through previous and related planning efforts and mitigation programs and recommends implementing actions, where possible, through these other program mechanisms.

Mitigation is most successful when it is incorporated into the day-to-day functions and priorities of government. Implementation will be accomplished by adhering to the schedules identified for each action and through constant, pervasive, and energetic efforts to network and highlight the multi-objective, win-win benefits to each program and the Cutler Bay community. This effort is achieved through the routine actions of monitoring agendas, attending meetings, and promoting a safe, sustainable community. Additional mitigation strategies could include consistent and ongoing enforcement of existing policies and vigilant review of programs for coordination and multi-objective opportunities.

Simultaneous to these efforts, it is important to maintain a constant monitoring of funding opportunities that can be leveraged to implement some of the more costly recommended actions. This will include creating and maintaining a bank of ideas on how to meet local match or participation requirements. When funding does become available, the Town will be in a position to capitalize on the opportunity. Funding opportunities to be monitored include special pre- and post-disaster funds, state and federal earmarked funds, benefit assessments, and other grant programs, including those that can serve or support multi-objective applications.

#### **Responsibility for Implementation of Goals and Activities**

The elected officials and officials appointed to head each department within the Town are charged with implementation of various activities in the plan. During the quarterly reviews as described later in this section, an assessment of progress on each of the goals and activities in the plan will be determined and noted. At that time, recommendations will be made to modify timeframes for completion of activities, funding resources, and responsible entities. On a quarterly basis, the priority standing of various activities



may also be changed. Some activities that are found not to be doable may be deleted from the plan entirely and activities addressing problems unforeseen during plan development may be added.

### **6.1.1 Role of Hazard Mitigation Planning Committee in Implementation, Monitoring and Maintenance**

With adoption of this plan, the Town of Cutler Bay will be responsible for the plan implementation and maintenance. The FMPC identified in Section 2 will reconvene quarterly each year to ensure mitigation strategies are being implemented and the Town continues to maintain compliance with the NFIP. As such, Cutler Bay agrees to continue its relationship with the FMPC and:

- Act as a forum for hazard mitigation issues;
- Disseminate hazard mitigation ideas and activities to all participants;
- Pursue the implementation of high-priority, low/no-cost recommended actions;
- Ensure hazard mitigation remains a consideration for community decision makers;
- Maintain a vigilant monitoring of multi-objective cost-share opportunities to help the community implement the plan's recommended actions for which no current funding exists;
- Monitor and assist in implementation and update of this plan;
- Report on plan progress and recommended revisions to the Town Council; and
- Inform and solicit input from the public.

The primary duty is to see the plan successfully carried out and report to the Town Council, FDEM, FEMA, and the public on the status of plan implementation and mitigation opportunities. Other duties include reviewing and promoting mitigation proposals, considering stakeholder concerns about hazard mitigation, passing concerns on to appropriate entities, and posting relevant information on the Town's website (and others as appropriate).

## **6.2 Maintenance**

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Plan maintenance implies an ongoing effort to monitor and evaluate plan implementation and to update the plan as progress, roadblocks, or changing circumstances are recognized.

### **6.2.1 Maintenance Schedule**

The Town of Cutler Bay's Building & Code Compliance Division Manager is responsible for initiating plan reviews. In order to monitor progress and update the mitigation strategies identified in the action plan, Cutler Bay will revisit this plan quarterly and following a hazard event. The Town will submit a five-year written update to FDEM and FEMA Region IV, unless disaster or other circumstances (e.g., changing regulations) require a change to this schedule. With this plan update anticipated to be fully approved and adopted in 2014, the next plan update for the Town will occur in 2019.

### **6.2.2 Maintenance Evaluation Process**

Evaluation of progress can be achieved by monitoring changes in vulnerabilities identified in the plan. Changes in vulnerability can be identified by noting:

- Decreased vulnerability as a result of implementing recommended actions;
- Increased vulnerability as a result of failed or ineffective mitigation actions; and/or
- Increased vulnerability as a result of new development (and/or further annexation).

Updates to this plan will:



- Consider changes in vulnerability due to action implementation;
- Document success stories where mitigation efforts have proven effective;
- Document areas where mitigation actions were not effective;
- Document any new hazards that may arise or were previously overlooked;
- Incorporate new data or studies on hazards and risks;
- Incorporate new capabilities or changes in capabilities;
- Incorporate growth and development-related changes to infrastructure inventories; and
- Incorporate new action recommendations or changes in action prioritization.

Changes will be made to the plan during the update process to accommodate for actions that have failed or are not considered feasible after a review of their consistency with established criteria, time frame, community priorities, and/or funding resources. Actions that were not ranked high but were identified as potential mitigation activities will be reviewed as well during the monitoring and update of this plan to determine feasibility of future implementation. Updating of the plan will be by written changes and submissions, as is appropriate and necessary, and as approved by the Town Council. In keeping with the five-year update process, the FMPC will convene public meetings to solicit public input on the plan and its routine maintenance and the final product will be adopted by the Town Council.

Specifically, the Town will adhere to the following process for the next update of this FMP:

#### **Quarterly Plan Review Process**

For the 2015 flood mitigation plan update review process, the Town's Building & Code Compliance Division Manager, on behalf of the Town Council, will be responsible for facilitating, coordinating, and scheduling reviews and maintenance of the plan. The review of the Floodplain Mitigation Plan will normally occur on a quarterly basis each year and will be conducted as follows:

- The Town's Building & Code Compliance Division Manager will place an advertisement in the local newspaper advising the public of the date, time, and place for each quarterly review of the plan and will be responsible for leading the meeting to review the plan.
- Notices will be mailed to the members of the FMPC, federal, state, and local agencies, non-profit groups, local planning agencies, representatives of business interests, neighboring communities, and others advising them of the date, time, and place for the review.
- Town officials will be noticed by email and telephone or personal visit and urged to participate.
- Members of the Town's Planning Commission and other appointed commissions and groups will also be noticed by email and either by telephone or personal visit.
- Prior to the review, department heads and others tasked with implementation of the various activities will be queried concerning progress on each activity in their area of responsibility and asked to present a report at the review meeting.
- The local news media will be contacted and a copy of the current plan will be available for public comment.
- After the review meeting, minutes of the meeting and a quarterly report will be prepared by the FMPC and forwarded to the news media (public) and the ISO/CRS specialist for the CRS program. The report will also be presented to the Town Council for review, and a request will be made that the Council take action to recognize and adopt any changes resulting from the review.

#### **Criteria for Quarterly Reviews**

The criteria recommended in 44 CFR 201 and 206 will be utilized in reviewing and updating the plan. More specifically, the quarterly reviews will include the following information:



- Community growth or change in the past quarter.
- The number of substantially damaged or substantially improved structures by flood zone
- The renovations to public infrastructure including water, sewer, drainage, roads, bridges, gas lines, and buildings.
- Natural hazard occurrences that required activation of the Emergency Operations Center (EOC) and whether or not the event resulted in a presidential disaster declaration.
- Natural hazard occurrences that were not of a magnitude to warrant activation of the EOC or a federal disaster declaration but were severe enough to cause damage in the community or closure of businesses, schools, or public services.
- The dates of hazard events descriptions.
- Documented damages due to the event.
- Closures of places of employment or schools and the number of days closed.
- Road or bridge closures due to the hazard and the length of time closed.
- Assessment of the number of private and public buildings damaged and whether the damage was minor, substantial, major, or if buildings were destroyed. The assessment will include residences, mobile homes, commercial structures, industrial structures, and public buildings, such as schools and public safety buildings.
- Review of any changes in federal, state, and local policies to determine the impact of these policies on the community and how and if the policy changes can or should be incorporated into the Floodplain Mitigation Plan. Review of the status of implementation of projects (mitigation strategies) including projects completed will be noted. Projects behind schedule will include a reason for delay of implementation.

### **6.2.3 Incorporation into Existing Planning Mechanisms**

Another important implementation mechanism that is highly effective and low-cost is incorporation of the Floodplain Mitigation Plan recommendations and their underlying principles into other Town plans and mechanisms. Where possible, plan participants will use existing plans and/or programs to implement hazard mitigation actions. As previously stated, mitigation is most successful when it is incorporated into the day-to-day functions and priorities of government and development. As described in this plan's capability assessment, the Town of Cutler Bay already implements policies and programs to reduce losses to life and property from hazards. This plan builds upon the momentum developed through previous and related planning efforts and mitigation programs and recommends implementing actions, where possible, through these other program mechanisms. These existing mechanisms include:

- Town Comprehensive Growth Management Plan
- Town Emergency Operations Plans
- Town ordinances
- Flood/stormwater management/master plans
- Other plans, regulations, and practices with a mitigation focus

Those involved in these other planning mechanisms will be responsible for integrating the findings and recommendations of this plan with these other plans, programs, etc, as appropriate. As described in Section 6.1 Implementation, incorporation into existing planning mechanisms will be done through the routine actions of:

- Monitoring other planning/program agendas;
- Attending other planning/program meetings;



- Participating in other planning processes; and
- Monitoring community budget meetings for other community program opportunities.

The successful implementation of this mitigation strategy will require constant and vigilant review of existing plans and programs for coordination and multi-objective opportunities that promote a safe, sustainable community.

Efforts should continuously be made to monitor the progress of mitigation actions implemented through other planning mechanisms and, where appropriate, their priority actions should be incorporated into updates of this hazard mitigation plan.

#### **6.2.4 Continued Public Involvement**

Continued public involvement is imperative to the overall success of the plan's implementation. The update process provides an opportunity to solicit participation from new and existing stakeholders and to publicize success stories from the plan implementation and seek additional public comment. The plan maintenance and update process will include continued public and stakeholder involvement and input through attendance at designated committee meetings, web postings, press releases to local media, and through public hearings.

##### **Public Involvement Process for Quarterly Reviews**

The public will be noticed by placing an advertisement in the newspaper specifying the date and time for the review and inviting public participation. The FMPC, local, state, and regional agencies will be notified and invited to attend and participate.

##### **Public Involvement for Five-year Update**

When the FMPC reconvenes for the update, they will coordinate with all stakeholders participating in the planning process—including those that joined the committee since the planning process began—to update and revise the plan. In reconvening, the FMPC plans to identify a public outreach subcommittee, which will be responsible for coordinating the activities necessary to involve the greater public. The subcommittee will develop a plan for public involvement and will be responsible for disseminating information through a variety of media channels detailing the plan update process. As part of this effort, public meetings will be held and public comments will be solicited on the plan update draft. The subcommittee will also coordinate this public outreach process with the public information program established pursuant to the 2013 guidelines from the Community Rating System (CRS).



# Appendix A



# APPENDIX A

## Appendix A: Planning Process

### Planning Step 1: Organize to Prepare the Plan

#### RESOLUTION 13-56

**A RESOLUTION OF THE MAYOR AND TOWN COUNCIL OF THE TOWN OF CUTLER BAY, FLORIDA AUTHORIZING THE ESTABLISHMENT OF A FLOODPLAIN MITIGATION PLAN ADVISORY COMMITTEE FOR THE PURPOSE OF DEVELOPING A PLAN TO MINIMIZE THE TOWN VULNERABILITY TO FLOODING, WHILE PROTECTING THE NATURAL AND BENEFICIAL FUNCTIONS OF THE FLOODPLAIN; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, on May 25, 2006, the Town of Cutler Bay (the "Town") Town Council adopted the Town Floodplain Management Regulations via Ordinance No. 06-10 as a formal requirement for participation in the National Flood Insurance Program (NFIP); and

**WHEREAS**, the purpose of the Floodplain Management Regulations is to promote the public health, safety and welfare of Town residents while minimizing public and private losses due to flood conditions; and

**WHEREAS**, management of the Town's floodplain is an important means of protecting the natural and beneficial functions of the floodplain; and

**WHEREAS**, the participation of the Town in the NFIP's Community Rating System requires the Town to have a Floodplain Management Plan that meets the minimum standards outlined in 44 CFR 78.5, 78.6, 201.6 and comply with the Local Multi-Hazard Mitigation Plan; and

**WHEREAS**, in 2012, the State of Florida Division of Emergency Management (DEM) awarded a grant in the amount of \$50,000 (12FM-23-11-23-02) to the Town as part of the Flood Mitigation Assistance Grant Program to prepare the Town Mitigation Plan; and

**WHEREAS**, it is in the best interest of the Town to incorporate in the development of the Flood Mitigation Plan a public participation component and development of a comprehensive community-based plan; and

**WHEREAS**, the Town Council finds that this Resolution will promote the health, safety and welfare of the residents of the Town.

**NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND TOWN COUNCIL OF THE TOWN OF CUTLER BAY, FLORIDA, AS FOLLOWS:**

**Section 1. Recitals.** The above recitals are true and correct and are incorporated herein by this reference.



**Section 2. Flood Mitigation Plan.** The purpose of the Flood Mitigation Plan is to identify activities that will reduce future flood losses, improve local hazard mitigation capability, increase public and private sector awareness and address and protect cultural, economic, and natural resources.

**Section 3. Creation of the Flood Mitigation Plan Advisory Committee.** The Town Council hereby creates a citizens committee, to be known as the “Flood Mitigation Plan Advisory Committee” to assist the Town in the development of the Flood Mitigation Plan. The Committee activities will include, but is not limited to, technical and non-technical input related to floodplain management, review of documents, participation in community outreach initiatives, and assist in the preparation of the Flood Mitigation Plan. Councilmember Mixon is hereby appointed Council liaison to the Committee and shall report to the Town Council as to the Committee’s activities on a regular basis.

**Section 4. Composition of the Committee.** The formation of the Flood Mitigation Plan Committee is hereby authorized as follows:

**Voting Members**

- Local Residents (two (2) member –reside in the Special Flood Hazardous Area (SFHA)
- Local Business (one (1) member –business active in the community)
- Insurance Agent (one (1) member – services the NFIP insurance)
- Real Estate Agent (one (1) member –lists sells homes in the SFHA)

**Non-Voting Technical Experts to Committee**

- Non-Governmental Organization (NGO) (one (1) member – South Florida Chapter of the American Red Cross or other compatible local NGO)
- Government Agency (one (1) member – South Florida Water Management District “SFWMD” or Miami-Dade County)
- Town Staff (two (2) members – Department of Community Development and Public Works Department)

Voting members of the Committee must be local residents.

**Section 5. Continuation of Committee.** The Flood Mitigation Plan Advisory Committee (or similar) will continue to meet as needed to monitor the implementation of the Flood Mitigation Plan.

**Section 6. Town Committee Ordinance.** This Committee shall be subject to Town Ordinance 10-08, as amended by Ordinance 11-08.

**Section 7. Effective Date.** This resolution shall take effect immediately upon adoption.



PASSED and ADOPTED this 17th day of July, 2013.

Edward P. MacDougall, Mayor

Attest:

Debra E. Eastman, MMC  
Town Clerk



APPROVED AS TO FORM AND  
LEGAL SUFFICIENCY FOR THE  
SOLE USE OF THE TOWN OF CUTLER BAY:

WEISS SEROTA HELFMAN PASTORIZA  
COLE & BONISKE, P.L.  
Town Attorney

Moved By: Council Member Mixon

Seconded By: Council Member Bell

FINAL VOTE AT ADOPTION:

Mayor Edward P. MacDougall	Yes
Vice Mayor Ernest N. Sochin	Yes
Councilmember Peggy R. Bell	Yes
Councilmember Mary Ann Mixon	Yes
Councilmember Sue Ellen Loyzelle	Yes



Exhibit "A"

# Town of Cutler Bay Floodplain Mitigation Plan Advisory Committee Appointments



Appointee Name	Address
Jorge E. Acevedo, P.E.	7417 SW 189 <sup>th</sup> Street Cutler Bay, FL 33157
Luis A. Badillo	9042 Tiffany Drive Cutler Bay, FL 33157
Paul J. Mauriello, AICP	9230 Sterling Drive Cutler Bay, FL 33157
Janice C. Rowton	19410 Christmas Road Cutler Bay, FL 33157
Dan Vesce	Cutler Bay, FL