

MIAMI-DADE COUNTY 2008 ANNUAL PROGRESS REPORT  
LOCAL MITIGATION STRATEGY

ACTIVITY 510

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### ACTIVITY 510

The Local Mitigation Strategy Working Group has created the Local Mitigation Strategy (LMS), which is updated semi-annually on June 30th and December 31st. The LMS Working Group is made up of representatives from Miami-Dade municipalities, county departments, state and federal agencies, schools, colleges and universities, hospitals, and private for profit and not-for-profit organizations. The latest published version of the Local Mitigation Strategy is available for public scrutiny and commentary at: <http://www.miamidade.gov/oem/LMS.asp> . Comments can be provided via e-mail to via e-mail to: [mdlms@miamidade.gov](mailto:mdlms@miamidade.gov). Additional information and questions can be directed to Frank Reddish, LMS Coordinator at: [frank.reddish@miamidade.gov](mailto:frank.reddish@miamidade.gov) or by phone at (305) 468-5424.

The Resolution 710-05 authorizes the County Managers to apply for, receive and amend applications for grant funds for projects listed in the Miami-dade County Local Mitigation Strategy (LMS), which is updated twice a year, on June 30<sup>th</sup> and December 31<sup>st</sup>, with the inclusion of new projects and removal of the projects already completed. Please refer to the attached list of projects completed and on-going during the fiscal year 2007-2008 for all federal funding sources, associated to Miami-dade County unincorporated areas.

#### **LMS Project Updates**

New projects are recommended by the community, different departments and organizations. The Stormwater Management Masterplan performs area floodplain analyses based on hydrology and hydraulics modeling, inspection reports, and repetitive loss information received from FEMA.

Stormwater Management Masterplan area analysis reports are conducted in two cycles: an overall re-evaluation of each of the primary canal basins every 5-years; an evaluation of the repetitive loss areas is performed every year.

The severity of flooding is identified by the Stormwater Management Masterplan through an established Flood Problem Severity Score (FPSS) to rank each individual sub-basin or drainage area by the severity of the flood problem. The executive summary of the latest 5-year flood plain analyses and sub-basin prioritization is included in the attached in the CD.

The repetitive loss areas or sub-basins are identified and ranked according to the number of losses in each sub-basin; a cost estimate for the recommended drainage system is prepared.

All proposed projects are forwarded to the Department of Public Works for design and construction, pending availability of funds. The schedule of implementation is established based on severity of flooding (priority rank) and availability of funds.

The 2008-2009 Proposed resource Allocation and Multi-Year Capital Plan reserves \$ 11,459,000 for Stormwater Management Activities. Additionally, a transfer of \$ 24,438,000 from the Stormwater Utility to the Department of Public Works will take place. These funds are reserved for secondary canal

maintenance, drain cleaning, design and construction management of the drainage capital projects and street sweeping.

The total capital budget reserved for drainage improvements by Miami-Dade County is \$ 45,586,000 for the fiscal year 2008-2009. Please refer to the attached 2008-2009 Capital Budget for the complete project list.

# MIAMI-DADE COUNTY ANNUAL REPORT

## LMS Flood Mitigation Funded Projects as of 7/7/08

### Unincorporated Miami-Dade

#### **HMGP funded projects (FEMA-1204-DR-FL) tornadoes:**

Miami-Dade County – Elevation of generator at Miami Avenue Bridge – \$47,000

**1204 Total = 4 @ \$47,000**

#### **HMGP funded projects (FEMA-1345-DR-FL) Leslie:**

South Florida Water Management District:

- Tamiami Canal (C-4) forward pump at S-25B - \$3,403,000
- Miami River (C-6) forward pump at S-26 - \$5,200,000
- Tamiami Basin wetlands mitigation - \$1,500,000
- Tamiami Canal dredging, enlargement and enhancements - \$5,600,000
- C-4 impoundment pump station - \$4,500,000
- C-4 impoundment supply canal - \$3,500,000
- C-4 impoundment perimeter levee - \$1,000,000
- C-4 impoundment access bridge - \$200,000
- Tamiami Basin sampling, A & E - \$590,000
- Sweetwater north bank berm - \$967,000

**1345 Total = 10 @ \$26,460,000**

#### **South Florida Water Management District funded:**

C-4 Emergency Detention Basin – Phase II

- Land Acquisition – \$10,000,000
- Pumps and Structures – \$7,000,000

**SFWMD Totals = 2 @ \$17,000,000**

#### **CBIR funded flood control projects – FY 2002:**

Miami-Dade County DERM – Snake Creek (C-9) basin drainage project – \$1,000,000

Miami-Dade County DERM – Central watershed planning project – \$500,000

SFWMD primary conveyance system improvements – \$5,956,000

**CBIR FY 2002 Total = 18 @ \$7,456,000**

#### **CBIR funded flood control projects – FY 2003:**

South Florida Regional Planning Council – \$300,000

SFWMD – Primary conveyance system improvements – \$10,000,000

**CBIR FY 2003 Total = 16 @ \$10,300,000**

**CBIR funded flood control projects – FY 2004:**

Miami-Dade County DERM – \$600,000

**CBIR FY 2004 Total = 25 @ \$600,000**

**CBIR funded flood control projects – FY 2005:**

Miami River dredging (federal channel) – \$1,000,000

Miami River dredging (outside federal channel) – \$2,000,000

**CBIR FY 2005 Total = 21 @ \$3,000,000**

**CBIR funded flood control projects – FY 2006:**

Miami River dredging (Miami-Dade County) – \$3,200,000

**CBIR FY 2006 Total = 20 @ \$3,200,000**

**CBIR funded flood control projects – FY 2007:**

Miami River dredging (Federal Channel) – \$5,800,000

**CBIR FY 2007 Total = 19 @ \$5,800,000**

**Totals:**

**Flood Mitigation in Miami-Dade County= \$73,863,000**

**Key to Disaster Events:**

FEMA-1204-DR-FL = Ground Hog Day tornadoes, February, 1998

FEMA-1345-DR-FL = Tropical Storm Leslie (aka No Name Storm), October, 2000

**Key to Abbreviations:**

CBIR = Community Benefit Issue Request (legislative member projects)

EMPA = Emergency Management Preparedness and Assistance Trust Fund

FDEM = Florida Division of Emergency Management

FEMA = Federal Emergency Management Agency

HMGP = Hazard Mitigation Grant Program

LMS = Local Mitigation Strategy

NFIP = National Flood Insurance Program

SFWMD = South Florida Water Management District

**Notes:**

CBIR funds are appropriated by the state legislature annually.

HMGP funds are generated as a percentage of the total cost of a declared disaster event.

MIAMI-DADE COUNTY ANNUAL PROGRESS REPORT

UPDATES ON THE LOCAL MITIGATION STRATEGY FLOOD PROJECT LIST

COMPLETED AND ON-GOING PROJECTS LISTED ON THE LOCAL MITIGATION STRATEGY – October 2008	
PROJECT	STATUS
<b>Project 3:</b> Drainage Improvements in Belen Jesuit School Area	Design Complete Construction of Drainage system is complete Construction of pump stations :75% Complete
<b>Project 8:</b> Midway Drainage Improvement Project	Construction of Drainage system is complete Pump station design is on-going
<b>Project 12</b> Miami River “Beyond the Channel” Dredging Project	Design Complete Construction will be completed by December 2008
<b>Project 13</b> Miami River Federal Channel Dredging Project	Design Complete Construction will be completed by December 2008
<b>Project 17</b> Flood Control Measure for Sub-basin C1N-E-3	Design Complete Construction Complete
<b>Project 19</b> Flood Control Improvements for Sub-basin C1-N-9	Design Complete Construction Complete
<b>Project 20</b> Flood Control Improvements for Sub-basin C1-N-10	Design Complete Construction Complete
<b>Project 21</b> Provide Additional Capacity to French Drain System in Sub-basin C1N-W-3	Design Complete Construction Complete
<b>Project 24</b> Add Conveyance Pipe to System Proposed for Sub-basin C1-S-5	Design Complete Construction Complete

<b>Project 26</b> Added French-Drains in Sub-basin C1-S-7	Design Complete Construction Complete
COMPLETED AND ON-GOING PROJECTS LISTED ON THE LOCAL MITIGATION STRATEGY – JUNE 2008 (CONT.)	
<b>PROJECT</b>	<b>STATUS</b>
<b>Project 27</b> Added French-Drains in C1-S-7A Sub-Basin	Design Complete Construction Complete
<b>Project 28</b> More French-Drains in C1-S-7A Sub-Basin	Design Complete Construction Complete
<b>Project 30</b> Beach and Dune restoration and Maintenance	Design Complete Construction On-Going
<b>Project 31</b> 32 <sup>nd</sup> Street Breakwater rehabilitation and Stabilization	Design completion is scheduled for December 2008

## RECOMMENDATIONS FOR PROJECTS OR REVISED RECOMMENDATIONS

This is the proposed list of Stormwater Management Masterplan Projects to be included in the next LMS update, based on the Flood Problem Severity Score (FPSS) and Rank.

RECOMMENDED STORMWATER MANAGEMENT MASTERPLAN PROJECTS  
TO BE INCLUDED IN THE LOCAL MITIGATION STRATEGY  
DECEMBER 2008 UPDATE

PROJECT NAME	ESTIMATED COST,
<b>C103-6</b> Bridge and Canal Cross-Section Improvement at the intersection of Campbell Drive and SW 312 ST	\$ 1,500,000
<b>C102-7,8 and 9</b> Raise the canal banks from 9.0 to 10.0 for the C102-S-3 and C102-N-3 banks to mitigate the flooding effects of the 100-year storm event, raise the canal bank from 8.5 to 10.0 for the C102-S-2 and C102-N-2 banks to mitigate the flooding effects of the 100-year storm event, and to raise the canal bank from 9.0 to 10.0 for the C102-S-1 and C102-N-1 banks to mitigate the flooding effects of the 100-year storm event.	\$1,000,000
<b>C3-1</b> Replacement of C-3 culvert canal crossings at SW 67th Avenue just north of SW 36th Street.	\$ 1,300,000

This is the proposed list of Repetitive Loss Area Projects to be included in the next LMS update. The selection of project areas is based on based on the number of historical flood losses and repetitive losses in the drainage area or sub-basin. The areas are ranked based on the number of losses. The 10 sub-basins with the largest number of losses are prioritized, and scheduled for design and construction based on the availability of funds.

RECOMMENDED REPETITIVE LOSS AREA PROJECTS TO BE INCLUDED IN THE LOCAL MITIGATION STRATEGY DECEMBER 2008 UPDATE							
SUB-BASIN	AREA, ACRES	COMMISSION DISTRICT	BASIN	NUMBER OF REPETITIVE LOSSES IN THE AREA(*)	RANK	PROJECT LIMITS	ESTIMATED COST
CC100-W-1	412	11	C-100	635	1	SW 88TH ST & SW 149TH AVE & SW 104TH TER & SW 142 AVE	\$ 2,680,750
C1-N-4	1160	11	C-1	421	2	SW 88TH ST & SW 167TH CT & SW 117TH ST & SW 147 CT	\$ 7,537,854
BD-S-3	633	11	C-2	321	3	SW 56TH ST & SW 157TH CT & SW 42ND ST & SW 147 AVE	\$ 4,114,506
BD-S-4	624	11	C-2	296	4	SW 56TH ST & SW 137TH AVE & SW 42ND ST & SW 147 AVE	\$ 4,058,897
C100-E-1	575	10	C-100	257	5	SW 88TH TER & SW 137TH AVE & SW 104TH ST & SW 127 AVE	\$ 3,739,428
CC4-N-6	337	12	C-4	218	6	NW 12TH ST & NW 137 AVE & NW 6TH ST & NW 128 PL	\$ 2,193,123
C1-N-3	949	11	C-1	215	7	SW 88 ST & SW 167TH AVE & SW 157 AVE & C1-W CANAL	\$ 6,170,547
CC100-W-2	327	11	C-100	214	8	SW 104TH TER & SW 147 AVE & SW 120 ST & SW 142 CT	\$ 2,127,166
139AVE-E-1	179	11	C-2	185	9	SW 8TH ST & SW 139TH AVE & SW 26TH TER & SW 137TH AVE	\$ 1,162,909
MC-W-1	366	11	C-2	184	10	SW 8TH ST & SW 137TH AVE & SW 26TH TER & SW 131ST CT	\$ 2,380,690
<b>TOTAL COST</b>							<b>\$ 36,165,870</b>
(*) NUMBER OF LOSSES EXCLUDES NO-NAME STORM AND IRENE							

- 1- Copy of e-mail to Reddish with recommended project
- 2- Map