



*City of Cooper City
2016 Floodplain Management Plan
Annual Progress Report*

Prepared by the Growth Management Department

To: Mayor and City Commission
Thru: Bruce Loucks, City Manager
From: Matt Wood, Growth Management Director
Date: September 21, 2016
Re: 2016 Annual Progress Report - Community Rating System Activity 510,
Floodplain Management Planning - Broward County Local Mitigation Strategy

Attached is Cooper City's completed 2016 Annual Progress Report relative to the implementation of the Broward County Local Mitigation Strategy (LMS), which serves as the City's Floodplain Management Plan. This memo and attached 2016 Annual Progress Report were prepared by the Growth Management Department with the assistance of its consultant, CRS Max Consultants, Inc. This annual report is specific to the participation and actions in the implementation of the LMS plan's goals, objectives and action items.

For the purpose of receiving credit under the Community Rating System (CRS) Activity 510, this report must be distributed to our governing body and be available to the public. Copies of this report and the Broward County Local Mitigation Strategy are available for review in the Growth Management Department, located at 9090 Southwest 50th Place, Cooper City, Florida 33328. The public can also review this report on the City's website at www.coopercityfl.org.

The City of Cooper City continues to be a Class 7 in the National Flood Insurance Program (NFIP) Community Rating System (CRS) providing a fifteen percent discount to our residents and businesses relative the premium cost of flood insurance for NFIP policies issued or renewed in the Special Flood Hazard Area (SFHA).

Broward County has adopted the 2012 Revised Local Mitigation Strategy and has received certification through the State of Florida and the Federal Emergency Management Agency (FEMA). Subsequently, Cooper City submitted Resolution No. 13-4-8, supporting and adopting the Broward County 2012 LMS, which was submitted to the State and FEMA. The City received approval from the State and FEMA, as a participating community for inclusion in this LMS, which will continue the City's eligibility for Federal Hazard Mitigation Grant Program funding after a presidential declared disaster and other FEMA grants.

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The following Annual Report has been updated to reflect current on-going goals and new projects for FY 2016/2017. Cooper City will continue the commitment to be a member of the Broward County Mitigation Task Force and the LMS Working Group since its inception and will attend the regularly scheduled meetings. During this past year, the City has continued to make progress in its flood mitigation efforts. The City will continue providing outreach projects to residents and businesses while maintaining the CRS Class 7 Rating, in addition to performing the other goals and objectives included in this report.

I. Background

The original Broward County Local Mitigation Strategy (LMS hereafter) was drafted by the Broward County Mitigation Task Force and Broward County Emergency Coordinating Council in 1999-2000. The strategy focused on all potential hazards including those related to wind and flood. The plan recommended goals to reduce and prevent hazards, including flooding. The plan was updated in part from 2002 to 2004 and later in 2009. Broward County's most recent revision was adopted by the County in October 2012 and by the City of Cooper City on April 23, 2013 (Resolution 13-4-8). Cooper City's Resolution was then forwarded to the State and FEMA and was approved for inclusion to the plan. This approval allows the City of Cooper City to be an eligible applicant through the State for the following mitigation grant programs administered by FEMA:

Hazard Mitigation Grant Program (HMGP)
Pre-Disaster Mitigation (PDM)
Severe Repetitive Loss (SRL)
Flood Mitigation Assistance (FMA)

II. Review of Action Items in the Action Plan

This document reviews, evaluates and updates the action items that pertain to the City of Cooper City and are listed in the Broward County LMS, which serves as the City's Floodplain Management Plan. This review is intended to determine the overall implementation and success of the plan and, therefore, Cooper City with regard to being an on-going participant in the Broward County Multi-jurisdictional LMS.

The following action items are listed for the City of Cooper City in Chapter 6, Mitigation Initiatives:

- Conduct and document drainage system maintenance throughout the community – **Done. In fact, City has improved its level of service for storm drain system cleaning such that all of the City-owned and operated storm drain infrastructure is cleaned once every 3-4 years.**
- Conduct drainage system maintenance by inspecting/repair/maintain drainage system – **Done**
- Continue to preserve and maintain our open space and parks system – **Done**
- Enforce Floodplain Development Permits – **Done**



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- Enforce Floodplain Management Regulations – **Done**
- Enforce stormwater management ordinances – **Done**
- Enforce our stream dumping regulations – **Done**
- Inform lenders, insurance agents, and real estate offices of our services – **Done**
- Inform residents of the Broward County "Home Damage Assessment Program" which will benefit the City by providing critical information where major damage has occurred – **Done**
- Maintain and keep old and current FIRMs – **Done**
- Maintain Elevation Certificates for all new/substantially improved buildings – **Done**
- Maintain flood protection materials at the local library – **Done**
- On-going training for staff relative to floodplain management – **Done. Training has resulted in the obtaining of a Florida Stormwater Association Stormwater Operator Level 2 Certification. CRS training is now being supplemented by the assistance of a consultant.**
- Prepare/distribute Floodplain Management Plan (LMS) Annual Progress Report – **Done, upon completion of this item.**
- Preserve open space in floodplain – **Done**
- Produce and maintain a log and history of drainage system maintenance provided to residents – **Done**
- Produce/distribute outreach projects to all residents/businesses within the floodplain and all of Cooper City – **Done**
- Produce/distribute property protection information to Repetitive Loss Areas – **Done**
- Produce/distribute property protection information to Repetitive Loss Properties – **Done**
- Provide copies of Elevation Certificates to residents and/or businesses – **Done**
- Provide flood protection assistance – **Done**
- Provide information on "no dumping" signage throughout the City – **Done**
- Provide letters of Flood Insurance Rate Map Determination – **Done**



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- Provide property protection assistance to homeowners and/or businesses – **Done**
- Update and maintain the Flood Information on the City's website – **Done**

As can be seen, the City of Cooper City has successfully implemented all of these action items identified in the Broward County LMS.

In addition to these programmatic action items, Appendix C of the LMS identifies several specific project action items for the City. Following is a list of these items and the progress that has been made to date:

<u>Title</u>	<u>Estimated Cost</u>	<u>Project Status</u>	<u>Explanation</u>
1. Cooper City Auxiliary Generator for Critical Facility	\$196,000	Complete	
2. Cooper City Emergency Operations Center within Full Service Fire Rescue Facility	\$200,000	Removed	City has chosen to remove
3. Cooper City Community Outreach Project	\$ 5,000	Ongoing	Annual project
4. Cooper City EOC Retrofit	\$279,000	Removed	City has chosen to remove
5. Cooper City Tree Trimming	\$300,000	Complete	
6. Cooper City Public Building Shuttering	\$ 35,000	Incomplete	Funded in FY13-14

The review and evaluation above addresses the action items included in the LMS for the City of Cooper City. In addition to these action items, the City has implemented and continues to implement numerous supplemental programs and activities as a part of its participation in the CRS program.

Following are two additional action items that the City specified a year ago for FY 2015/2016. Each additional action item is followed by a brief update.

1. Implement Storm Drainage Improvement Project

The recommended project is in the vicinity of SW 103 Avenue and SW 55 Lane. Design of this project to resolve a standing water problem in the right of way is being reconsidered and perhaps redesigned in order to reduce the impact on trees in the project area. Completion of a final design has been delayed, but is anticipated in early 2016.

Update: Design is 95% complete and award/construction is expected during the upcoming 2016/2017 fiscal year.



2. Implement Storm Drainage Improvement Project

A project to improve drainage and water storage in the Flamingo Gardens drainage basin, which is an area bounded by SW 49 Street to the north, the C11S Canal to the east and south, and Flamingo Road to the west. This project is needed to address street flooding in the Flamingo Gardens Townhomes and the Natalie's Cove developments. An analysis of the existing drainage system is complete and design of the project is nearly complete. The project is expected to go to bid in early 2016 and construction in mid-2016.

Update: Design is 100% complete and award/construction is expected during the upcoming 2016/2017 fiscal year.

We also completed, this year, a small swale reclamation and french drain improvement project on SW 113 Ave at approximately the 5600 block to resolve a standing water concern in the street and adjacent sidewalk.

III. Recommendations

Cooper City will continue to participate in the Broward County Multi-jurisdictional LMS and implement this progress report to include pertinent updates and recommendations promoted through the LMS. Cooper City will re-evaluate and consider any improvements that should be incorporated into the City's Floodplain Management Plan based upon those recommendations.

The City will continue to participate in the CRS/ISO and work toward maintaining our Class 7 Rating as well as working toward improving our class rating to achieve a greater discount for the public on the purchase and/or renewal of flood insurance premiums.

The City will continue to participate in the Broward County Mitigation Task Force and the Broward County Emergency Operations Center (EOC), complete additional training requirements, and apply any updates that may be relevant to City programs or procedures.

The City will continue to work toward increasing outreach projects including the Flood Preparedness Newsletter, Articles posted on the City website, provide brochures and flyers to convey the importance of keeping and obtaining flood protection as well as to disseminate accurate and consistent information relating to disaster mitigation to all residents and local businesses throughout the City.

The City will continue to facilitate preparedness measures to mitigate hazards by providing updated flood maps, tips on hiring contractors, and provide flood protection advice to all inquirers. In addition,



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the computerized mapping system will also provide more detail to flood map requests and drainage maps and will greatly improve the accuracy of mapping efforts.

The City will continue to disseminate flood information through the City's website. The website will be updated and monitored to offer residents, businesses and the public community the latest information on flood protection and hazard mitigation. Contact information, links to other pertinent agencies are also provided on this website.

The City will continue to improve and protect its inventory of open space land to maximize efforts to prevent flood hazards within the community.

The City will continue to evaluate, implement and request funding resources to resolve localized flooding in the community.

The City will continue to provide funding for the Storm Drain System Cleaning Program conducted on a citywide basis in order to prevent potential flooding hazards caused by back-ups within the drainage system.

The City will continue to monitor and evaluate the four repetitive loss properties along with the areas surrounding those properties and to inform them of potential flood hazards and the availability of flood insurance as required by CRS.

The City will continue to monitor Legislative updates and potential changes relative to Floodplain Management.

Copies of this report and the Broward County Local Mitigation Strategy are available for review:

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