



**PALM BEACH COUNTY COMMUNITY RATING SYSTEM
FLOODPLAIN MANAGEMENT PLAN
ACTIVITY 510 PROGRESS REPORT CY2021**

Palm Beach County, Florida
NFIP Number - 120192

**Department of Public Safety
Division of Emergency Management**

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1. Name of the CRS Floodplain Management Plan:

Unified Local Mitigation Strategy

The purpose of the Palm Beach County Unified Local Mitigation Strategy (LMS) is to develop and execute an ongoing unified strategy for reducing the community's vulnerability to identified natural, technological, and societal hazards. The strategy provides a rational, managed basis for considering and prioritizing hazard-specific mitigation options and for developing and executing sound, cost effective mitigation projects. The LMS also provides a basis for justifying the solicitation and use of local, state, federal, and other monies to support hazard mitigation projects and initiatives. The Palm Beach County Unified LMS believes broad community support, including ongoing public and private sector involvement, is very important to the success of the program.

Palm Beach County (PBC) has had an increasing number of stakeholders preparing to incorporate the LMS as part of their Floodplain Management Plans in accordance with the CRS Coordinator's Manual Activity 500 – Flood Damage Reduction Activities, specifically, Activity 510 – Floodplain Management Planning. Several communities have worked with PBC Division of Emergency Management, the Building Division of the Planning, Zoning, and Building Department, and private contractors in efforts to identify the resources necessary to accomplish planning initiatives. Currently nearly all of our municipalities use the LMS for their floodplain management plan in addition to unincorporated Palm Beach County.

2. Date Adopted

- Original adoption: September 30, 1999
- Revised Plan approved by FEMA: November 2004
- Revised Plan approved by FEMA: January 2010
- Revised Plan approved by FEMA: February 2015
- Revised Plan approved by FEMA: October 16, 2019

3. Location where copies are available for review:

Palm Beach County Division of Emergency Management
Emergency Operations Center
20 South Military Trail
West Palm Beach, FL 33415

Contact: Ronnie Heen, CRS-LMS Coordinator, Planning Section

Also posted on the internet at the following address:

<http://discover.pbcgov.org/publicsafety/dem/Publications/PBC%20Local%20Mitigation%20Strategy%202020.pdf>

4. Summarize any flooding that occurred during calendar year 2021:

The LMS ranks floods at the top of the list of identified hazards because of their projected impact potential across the entire spectrum of community exposure and services. Florida, and especially PBC, is highly susceptible to localized flooding. Inland and coastal flooding in particular are the likely types of floods frequently affecting communities across the County. The tropical rainfall pattern in the county coupled with the hurricane season (June 1 through November 30) makes PBC particularly vulnerable to flooding, especially later in the hurricane season when the water table is high and the ground is saturated from impacts of cyclones and rain events. PBC averaged just over 54 inches of rain per year last year, and more than 120 rain days, with most of that occurring between the months of June and November. The following flooding advisory statistics were noted for CY 2021:

Flood Advisories:	40
Flash Flood Warnings:	2
Flash Flood Watches:	3
Coastal Flood Statements	5

Total Precipitation for CY 2021 (NWS – Miami taken from PBC PBI)

2021	Total Rain	Days >0.01"	Days >0.10"	Days >0.50"	Days 1.00">	Greatest Rain Day	Date
Jan	0.3	3	1	0	0	0.21	13-Jan
Feb	2.62	9	5	2	1	1.02	16-Feb
Mar	0.96	2	2	1	0	0.55	6-Mar
Apr	2.88	6	5	3	0	0.97	11-Apr
May	0.61	5	1	0	0	0.4	6-May
Jun	6.85	22	15	4	1	1.46	16-Jun
Jul	5.66	17	10	6	0	0.85	5-Jul
Aug	9.9	17	12	5	3	2.31	3-Aug
Sep	6.64	15	13	5	2	1.43	4-Sep
Oct	9.02	15	10	6	3	2.26	8-Oct
Nov	6.54	8	7	2	2	2.99	19-Nov
Dec	2.16	7	6	1	0	0.63	19-Dec

Source NWS: <https://w2.weather.gov/climate/index.php?wfo=mfl>

Significant weather activities during this past year:

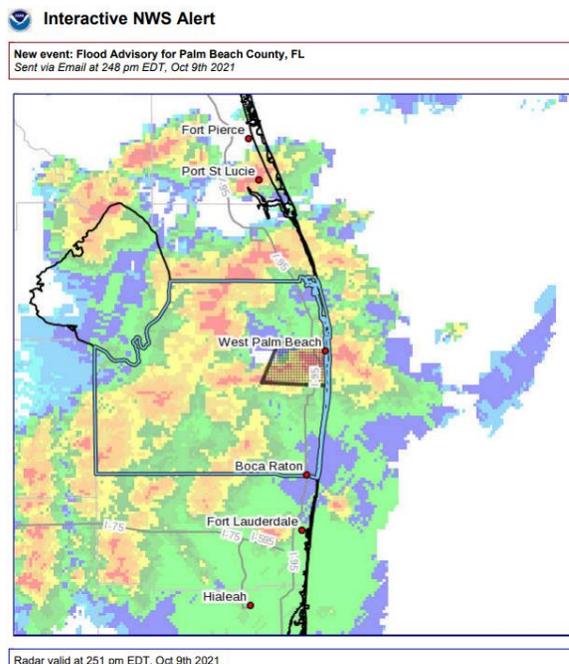
June 16, 2021

Doppler radar indicated heavy rain due to developing thunderstorms. Approximately 1.46 inches of rain have fallen causing minor flooding over portions of southeastern Palm Beach County.



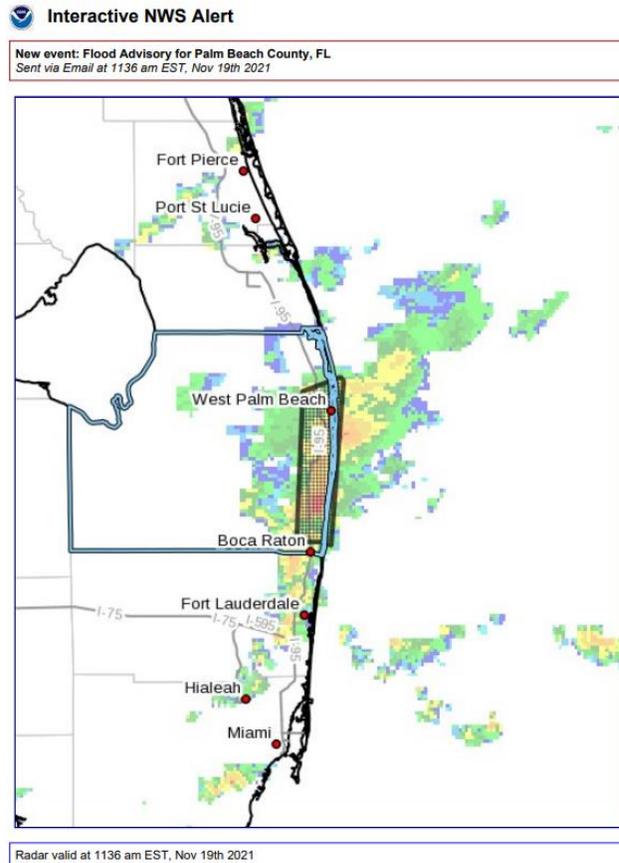
October 9, 2021

Doppler radar indicated heavy rain due to thunderstorms causing minor flooding within the areas of West Palm Beach, Wellington, Lake Worth, Palm Beach and Greenacres. Approximately 2.22 inches of rainfall was recorded.



November 19, 2021

Doppler radar and automated rain gauges indicated heavy rain due to thunderstorms causing minor flooding affecting West Palm Beach, Boca Raton, Boynton Beach, Delray Beach, Palm Beach Gardens, Lake Worth, Riviera Beach, Palm Beach, Highland Beach, Ocean Ridge, Greenacres, Palm Springs, North Palm Beach, Lantana, Lake Park, Atlantis, Haverhill, Cloud Lake, Gun Club Estates and Village Of Golf. Approximately 2.99 inches of rainfall was recorded.



5. What impact did the flooding have on repetitive loss areas?

This office did not receive any reports of flooding from repetitive loss property area owners. The rainfall average total was approximately 10 inches below the normal rainfall average in 2021 throughout unincorporated PBC, and the county was limited to minor street flooding. No structures were reported flooded during any of 2021 rain events.

6. List each element of the plan and note how much was accomplished during the previous year.

Major progress in the LMS program during this reporting period includes:

- The LMS Program continued its mitigation efforts as the spread of COVID-19 slowed and we transitioned back to a normal schedule for most government and private sector agencies within Palm Beach County in 2021. In-person meetings that were all but impossible due to social distancing requirements resumed, along with travel for work and training. Our LMS team continued to adapt by using virtual means of communication in order to keep moving the program forward, and almost all of our normal meetings were held as scheduled.

- Quarterly Meetings were held for the LMS Working Group (4), LMS Steering Committee (4), and the CRS Users Group (4). There were two (2) meetings of the LMS Evaluation Panel to evaluate, score, and rank new projects for the Prioritized Project List (PPL).
 - We continue to use the LMS WebEOC portal in capturing community submission packages for the Prioritized Project List (PPL). A total of 91 projects are active on our PPL.
 - The LMS Newsletter was published four (4) times in 2021. These documents are sent out to the LMS Working Groups, available to all municipalities to be displayed in their public spaces, and posted online at <https://discover.pbcgov.org/publicsafety/dem/Sections/Planning-Local-Mitigation-Strategy.aspx>.
 - Completed the Dike Failure Hazard Specific Plan, addressing response to a breach or failure of the Herbert Hoover Dike and the Corbett Berm, and subsequent flooding to the identified vulnerable areas, in Palm Beach County.
 - Palm Beach County along with Broward, Monroe, and Miami-Dade continued to enhance the Southeast Florida Regional Climate Change Compact to coordinate mitigation and adaptation activities across county lines. Palm Beach County hosted the 13th Annual Climate Leadership Summit virtually on December 9 and 10, 2021. This summit emphasizes how climate resiliency is cross-sector and intersects with all of PBC's Departments.
 - PPL Mitigation projects continued to be funded from previous disasters, including those of flood mitigation projects. See *Annex 1* for updated projects in progress or completed from FEMA disaster number 4468.
7. Were any objectives not reached or are implementation behind schedule? If so, state why.

As a result of the response to COVID-19, the Program for Public Information (CRS Activity 330) was not completed as scheduled in 2021. However, it is now in final review with our stakeholders and should be finalized by May of 2022.

8. Should new projects be started or should any of the recommendations or objectives be revised?

The LMS PPL returned to its normal schedule. New projects were scored/ranked, after a vote of the LMS Working Group, in two (2) periods. These two (2) review periods took place in March/April 2021, and the second in October/November 2021. Seven (7) out of the 18 projects added in the March/April period and 14 out of the 19 projects added in the October/November 2021 period were dedicated to mitigate flooding issues within the respective communities. Projects on the list for then more than five (5) years at the time of bi-annual reviews were reviewed, and if necessary, either updated or purged.

9. Progress Reports discussed and/or made available at a public meeting.

The status of all mitigation projects and success stories were reported and discussed at the quarterly LMS Working Group and Steering Committee meetings (open to the public). An update to the website includes the number of new and existing projects. The PPL is posted on the DEM website once approved by the Steering Committee, and is publicly available for review at [https://discover.pbcgov.org/publicsafety/dem/PDF/Fall%202021%20Prioritized%20Project%20List%20\(PPL\).pdf](https://discover.pbcgov.org/publicsafety/dem/PDF/Fall%202021%20Prioritized%20Project%20List%20(PPL).pdf).

All general meetings are publicized through media releases, social media platforms, and posted announcements. See *Annex 2* for media release example. The minutes for each LMS Working Group and Steering Committee meeting are posted on our LMS webpage for public consumption at <https://discover.pbcgov.org/publicsafety/dem/Sections/Planning-Local-Mitigation-Strategy.aspx>.

10. We have provided copies of this report to our governing board and local media.

The governing board for the CRS is the LMS Steering Committee. Copies of this progress report have been provided to members of the Steering Committee and have been posted to the homepage of the Palm Beach County Division of Emergency Management website for public review. A media release announcing the report and its posting has been executed.

Annex 1: PPL Project Progress

As part of this annual progress report preparation process, the LMS Coordinator prepares an update on the status of all active county flood mitigation projects from the state. The most current update to projects submitted for Hazard Mitigation Grant Program (HMGP) funds for Hurricane Dorian that were awarded funds are listed below. A total of \$898,144.43 were funded in total project costs.

Hurricane Dorian DR-4468

Disaster Number	Project Number	Subgrantee	Project Title	Type	Project Status	Date Initially Approved	Project Date Closed	Federal Share Obligated	Fed Share Grantee Admin Amount	Fed Share Subgrantee Admin Amount	Subrecipient Management Costs Obligated Amount	Total Obligated Amount
4468	0016	Riviera Beach	City of Riviera Beach, Lift Station # 47, Generator	6012: Generators - Regular	Approved	9/8/2021		\$282,492.00	\$0.00	\$15,245.60	\$297,737.60	\$94,164.00
4468	0023	Palm Springs	Village of Palm Springs, Davis Road North Basin, Drainage	103.1: Feasibility, Engineering and Design Studies	Approved	9/20/2021		\$96,244.01	\$0.00	\$6,416.27	\$102,660.28	\$268,938.00
4468	0025	JUPITER TOWN HALL	Town of Jupiter, WTP Server Room, Code Plus, Safe Room & Generator	103.2: Feasibility, Engineering, and Design Studies - Safe Rooms;	Approved	8/25/2021		\$144,895.47	\$0.00	\$0.00	\$144,895.47	\$611,905.00
4468	0027	Lake Park	Town of Lake Park, Lake Park Harbor Marina, Drainage	103.1: Feasibility, Engineering and Design Studies	Approved	8/25/2021		\$96,435.45	\$0.00	\$0.00	\$96,435.45	\$2,291,992.00
4468	0030	Riviera Beach	City of Riviera Beach, Lift Stations, Generators	6012: Generators - Regular	Approved	9/20/2021		\$278,077.50	\$0.00	\$17,643.75	\$295,721.25	\$92,692.50

This report will be released to the media via the county's Public Affairs Department, and posted on the Division of Emergency Management's website.

Annex 2: Media Release example for LMS Meetings

LMS Working Group Meeting: Media Release Distributed on November 30, 2021.

discover.pbcgov.org/Lists/Newsroom/NewsDispForm.aspx?ID=3974&Source=https%3A%2F%2Fdiscover%2Epb



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Local Mitigation Strategy Working Group to Hold General Meeting

 Posted On Tuesday, November 30, 2021

On Wednesday, Dec. 8, 2021, at 9 a.m., the Palm Beach County Local Mitigation Strategy (LMS) Working Group will hold a virtual general meeting of its public and private sector membership. This meeting is open to the public.

The Palm Beach County Public Safety Department's Division of Emergency Management coordinates the LMS Working Group that is comprised of county, municipal and community partners. The goal is to prepare and promote local strategies and projects that will reduce long-term risks to life and property from natural, technological and human-caused hazards. The resulting pre-disaster and post-disaster mitigation strategies and projects are supported by a variety of state and federal programs and funding sources in accordance with the Disaster Mitigation Act of 2000.

Topics to be discussed include the Prioritized Project List (PPL) and current LMS activities.

Meeting attendees can join via WebEx ([Link](#)) or by phone:

1-904-900-2303 or (toll-free) 1-844-621-3956

Meeting Number: 2308 302 2973

Meeting password: UCftNAt9p28

For more information, contact Ronnie Heen at (561) 712-6481.