



City of New Orleans Hazard Mitigation Planning

City of New Orleans
Water Management Working Group
September 29, 2020

Greetings

Austin Feldbaum

Hazard Mitigation Office

City of New Orleans

hazardmitigation@nola.gov

Agenda

- 2020 Mitigation Plan Overview
- Introductions
- Benchmarking Recent Accomplishments
- Next Steps

Introductions

- I. Tell us who you are and who you represent (organizational affiliations)
- II. Tell us about one project or effort to reduce the risks associated with climate change that you want to see realized by 2025

Project Timeline



Detailed Timeline

Working Group Meetings: Climate, Water, City Agencies

Meeting 1: Week of 9/28

Meeting 2: Week of 10/12

Planning Committee Meeting: Week of 10/26

Planning Committee Meeting and Public Meeting: Week of 11/2

How to Provide Input

- I. Visit ready.nola.gov/hazard-mitigation/home/
- II. Review and Comment on 2015 Actions, and Propose New Actions
- III. Email hazardmitigation@nola.gov
- IV. Provide as much detail as you can



HAZARD MITIGATION PLAN

THE CITY OF NEW ORLEANS

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2020 HAZARD MITIGATION PLAN

Upcoming Community Meeting, Thursday, Sep. 17 at 6pm

Join us online for the third community meeting on the Hazard Mitigation Plan Update.

[Register here](#)

[Review and comment on 2015 action items](#)

We're planning for a resilient future.

In 2020, the City of New Orleans will update its Hazard Mitigation Plan. Through this process, we will detail the risks faced by our city--both man made and naturally occurring--and risk reduction strategies that can help lessen the impact of future disasters. The plan helps guide the City and its partners to implement these strategies throughout New Orleans.

For the first time ever, the City's plan will be multi-jurisdictional with major stakeholders involved as signatories, including the Sewerage and Water Board of New Orleans, New Orleans Redevelopment Authority, Housing Authority of New Orleans, Orleans Parish School Board, Dillard University, Loyola University of New Orleans, Tulane University, and Xavier University. Together in this planning process, these entities will identify shared resilience goals, increase access to joint mitigation efforts and grant opportunities, and leverage resources to increase risk education and community outreach.

Maintaining an up-to-date Hazard Mitigation Plan is also a federal requirement. The [Hazard Mitigation Office](#), housed in the New Orleans Office of Homeland Security and Emergency Preparedness, will oversee the plan update process. Read the current [Hazard Mitigation Plan](#), which was adopted in 2016.

2020 HAZARD MITIGATION PLAN

Mitigation Actions

During the last update of the Hazard Mitigation Plan in 2015, the following action items were identified to reduce risk in the face of future disasters. You can filter the actions by mission area, capability, hazard addressed, status as of the end of 2019, and agency responsible. As the City drafts new action items for the 2020 update, we're asking for your feedback and suggestions to make New Orleans more resilient during the next five years.

[Suggest an action item](#)

Mission

All (5 missions) ▼

Capability

All (35 capabilities) ▼

Hazard

All (31 hazards) ▼

Status

All (7 statuses) ▼

Agency

All (28 agencies) ▼



Public Information and Warning

Increase the City's preparedness by becoming StormReady and by pursuing No Adverse Impact

1.01

Hazard:

Flood, Tropical Cyclones, Storm Surge, Levee Failure, Coastal Erosion, Tornado/Extreme Wind, Subsidence [Flood](#)

Status:

In Progress

Mission:

Mitigation

Timeframe:

1-5 years

Priority:

High

Location:

City Wide

Agencies:

City of New Orleans

Cost:

50000

Funding source:

City of New Orleans General Fund, Private Sector

2019 Status:

Ongoing

2019 Status Summary:

NOHSEP to maintain certification

[Comment on this action item](#)

Comment on this action item

Action Item

1.01 Increase the City's preparedness by becoming StormReady and by pursuing No Adverse Impact

Your Name


Your Email

Your Organization (if applicable)

Comment (required)




Submit

CITY OF NEW ORLEANS

HOMELAND SECURITY

Select Language ▼



HAZARD MITIGATION

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2020 Hazard Mitigation Plan

Action Items

2020 HAZARD MITIGATION

Mitigation Action Items

During the last update of the Hazard Mitigation Plan, we can filter the actions by mission area. As the City drafts new action items for the 2020 update, we're asking you to suggest an action item.

Suggest an action item

Mission


Capability

Agency

All (5 missions)


All (35 capabilities)

All (28 agencies)




Public Information
Increase the impact

1.01



Mass Care Services
Improve pedestrian

1.02



On-scene Security

SUGGEST AN ACTION ITEM

Your Name:

Your Email:

Your Organization (if applicable):

Name of action:

Description:

What hazard(s) does this address? :

☐ Flooding

☐ Tropical Cyclones

☐ Coastal Erosion

☐ Tornadoes

☐ Subsidence

☐ Winter Weather

☐ Extreme Heat

☐ Drought



Evaluating Mitigation Actions for the 2020 HMP

- Submit List of Recommended Actions to the Steering Committee for Review
- The Steering Committee will use the **S**ocial, **T**echnical, **A**dministrative, **P**olitical, **L**egal, **E**conomic, and **E**nvironmental (**STAPLEE**) Criteria for Evaluation
- The STAPLEE Evaluation along with the Public Comment and Feedback will be factored into the final draft of the Mitigation Action Strategy

STAPLEE Criteria Worksheet

1. Fill in the goal and its corresponding objective. Use a separate worksheet for each objective. The considerations under each criterion are suggested ones to use; you can revise these to reflect your own considerations (see Table 2-1).

2. Fill in the alternative actions that address the specific objectives the planning team identified in Worksheet #1.

3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

When you complete the scoring, negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the “expert” or source to consult to help you evaluate the criterion.

Source: Federal Emergency Management Agency. 2003. *State and Local Mitigation Planning How-To Guide: Developing the Mitigation Plan – Identifying Mitigation Actions and Implementation Strategies*. FEMA. http://www.fema.gov/fima/planning_howto3.shtm



Goal: _____

Objective: _____

STAPLEE Criteria	S (Social)		T (Technical)			A (Administrative)			P (Political)			L (Legal)			E (Economic)			E (Environmental)					
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance/ Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land/ Water	Effect on Endangered Species	Effect on HAZMAT/ Waste Sites	Consistent with Community Environmental Goals	Consistent with Federal Laws

Source: Federal Emergency Management Agency. 2003. *State and Local Mitigation Planning How-To Guide: Developing the Mitigation Plan – Identifying Mitigation Actions and Implementation Strategies*. FEMA. http://www.fema.gov/fima/planning_howto3.shtml



Mitigation Strategy Framework



Foundational Principles 2015

- Consider the principles of equity in risk reduction decisions, including land use, zoning, and the allotment of funds and resources
- Plan for future conditions, including development and climate change
- Plan for minimizing damage and maximizing disaster recovery
- Treat risk reduction and hazard mitigation as part of an integrated system, with an emphasis on safety.

Flooding Definitions



Riverine flooding occurs along a river or smaller stream, including the Mississippi River.



Flash flooding occurs when locally intense precipitation inundates an area in a short amount of time, resulting in local streamflow and drainage capacity being overwhelmed.



Ponding occurs when concave areas (e.g., parking lots, roads, and clay-lined natural low areas) collect water and are unable to drain.



Flooding Definitions



Backwater flooding occurs when water slowly rises from a normally unexpected direction where protection has not been provided.



Urban flooding is similar to flash flooding but is specific to urbanized areas. It takes place when stormwater drainage systems cannot keep pace with heavy precipitation, and water accumulates on the surface.



Coastal flooding occurs when normally dry coastal land is flooded by seawater but may be caused by direct inundation, overtopping of a natural or artificial barrier, or the breaching of a natural or artificial barrier.



Flooding Future Occurrence

- Flooding is anticipated to be an ongoing and increasing hazard
 - Subsidence
 - Sea-level rise
 - Increased hurricane activity
 - Increased rain events

2015 Flood Risk Reduction Action Items

Goal 1: Reduce Risk to the Human Environment

- 1.01 Storm Ready Certification and No Adverse Impact
- 1.06 Provide shade structures and seating for evacuation sites
- 1.09 Develop a Warning System for sudden river flooding

Goal 2: Reduce Risk to the Built Environment

2.01 Feasibility study on use of internal polders

2.02-2.11 Drainage Improvements and Green Infrastructure

2.16 Floodplain Management Ordinance

2.22 Install a system of sensors (Flood Warning System)

Goal 3: Reduce risk to the Natural Environment

- 3.01 Golden Triangle Marsh Creation
- 3.02 Biloxi Marsh Living Shoreline
- 3.05 Plan for MS River Delta ecosystem sustainability
- 3.06 Orleans Land Bridge
- 3.07 Wetland Restoration near Fort Pike
- 3.08 Develop Parish wetland protection regulations
- 3.09 Lake Pontchartrain Fringe Marsh and Shoreline

Goal 4: Maximize Involvement of Whole Community in Risk Reduction through Education and Outreach

4.01-06 Public Information about risks, mitigation options, flood insurance, etc.

4.08 Explore alternative financing to support projects, such as a rebate program

4.10 Promote greater use of pervious concrete

4.12 Require mandatory training in floodplain regulations for all building officials

Goal 5: Promote, implement and sustain mitigation measures in order to reduce and manage risks to human life, the environment, and property

5.01 Provide Floodplain Management Training to local officials

5.03 Maintain a Comprehensive GIS Database

5.04 Adopt new 2016 Flood Insurance Rate Maps

5.05 Advocate to increase access and funding caps for ICC

5.06-07 engage with regional efforts

5.13 Coordinate with USACE and SLFPA

Actions and Strategies from Related Plans/Programs

- City Master Plan, Climate Action Plan, Urban Water Plan, CZO
- SWBNO HM Plan
- Louisiana Coastal Master Plan, Watershed Initiative
- Other Best Practices

Discussion

Risk Reduction happens at multiple scales and can take the form of projects, programs, policies, and procedures.

1. What neighborhood-level actions would you propose?

Discussion

Risk Reduction happens at multiple scales and can take the form of projects, programs, policies, and procedures.

2. What citywide initiatives would you propose?

Next Steps

- Planning team will compile input from first working group meetings
- 2nd working group meeting: report out on potential strategies; workshop any missing details
- Planning Committee Meeting
- Present Draft Mitigation Strategy for public comment



THANK YOU

City of New Orleans
Hazard Mitigation Water Management Working Group
September 29, 2020