

Flood Information Report

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Query

"Which areas in Mobile, Alabama have experienced flood events and are considered vulnerable to future flooding?"

Answer

Based on the available data for Mobile, Alabama, several areas have experienced flood events and are considered vulnerable to future flooding. Here's a detailed overview:

Historical Flood Events in Mobile, Alabama:

- Downtown Mobile:**
 - **108 N Royal St:** Experienced a flash flood on August 18, 2022, located just 0.1 miles from the query point.
 - **601 St Francis St:** Flash flood on June 19, 2021, 0.71 miles away.
 - **10 S Pine St:** Flash flood on April 24, 2021, 1.31 miles away.
- Midtown Mobile:**
 - **1559 Dauphin St:** Flash flood on July 9, 2022, 2.15 miles away.
 - **2704 Dauphin St:** Flash flood on July 25, 2024, 3.98 miles away.
- West Mobile:**
 - **4693 Airport Blvd #100:** Flash flood on August 24, 2022, 8.0 miles away.
 - **1501 Hillcrest Rd:** Flash flood on September 15, 2021, 9.26 miles away.
- Theodore and Irvington Areas:**
 - **5850 US-90, Theodore:** Flash flood on June 19, 2023, 12.65 miles away.
 - **9701 Oak Isle Ct, Irvington:** Flash flood on August 24, 2022, 17.7 miles away.

Vulnerability to Future Flooding:

The Social Vulnerability Index (SVI) for Mobile County indicates several risk factors that contribute to the community's vulnerability to flooding:

- **Overall SVI Ranking:**
 - National: 0.8304
 - State: 0.7424
- **Key Vulnerability Themes:**
 - **Housing Type & Transportation:** High vulnerability with a score of 0.7727, indicating issues such as reliance on multi-unit structures and transportation challenges.
 - **Racial & Ethnic Minority Status:** Score of 0.6818, suggesting significant minority populations that may face additional challenges during flood events.
 - **Socioeconomic Status:** Score of 0.6364, highlighting economic vulnerabilities that can affect recovery and

resilience.

- **Specific Vulnerability Variables:**

- **Multi-Unit Structures (10+):** Very high score of 0.9242, indicating a large number of residents in multi-unit housing, which can be more susceptible to flooding.

- **Housing Cost Burden:** Score of 0.8939, suggesting that many residents may struggle financially, impacting their ability to recover from flood damage.

- **No Health Insurance:** Score of 0.8182, indicating a significant portion of the population may lack access to healthcare, complicating recovery efforts.

Conclusion:

Areas in and around downtown and midtown Mobile, as well as parts of West Mobile and the Theodore-Irvington areas, have experienced multiple flood events. The high Social Vulnerability Index scores in these areas suggest they are at increased risk for future flooding impacts. These vulnerabilities are compounded by socioeconomic factors, housing conditions, and minority status, which can hinder effective response and recovery efforts.

Detailed Data: Mobile, Alabama

Address: Mobile, AL, USA
Coordinates: 30.6953657, -88.0398912

County Information

County	Mobile
State	Alabama
FIPS Code	01097
Area (sq mi)	1272.18

Historical Flood Events (47 events)

Date	Type	Distance (mi)	Warning Zone
2022-08-18	Flash Flood	0.10	MOBILE CO.
2021-06-19	Flash Flood	0.71	MOBILE CO.
2021-04-24	Flash Flood	1.31	MOBILE CO.
2025-04-06	Flash Flood	1.35	MOBILE CO.
2021-04-15	Flash Flood	1.82	MOBILE CO.
2022-07-09	Flash Flood	2.15	MOBILE CO.
2022-07-09	Flash Flood	2.19	MOBILE CO.
2022-08-18	Flash Flood	3.40	MOBILE CO.
2024-07-25	Flash Flood	3.98	MOBILE CO.
2021-05-04	Flash Flood	4.05	MOBILE CO.

Social Vulnerability Index (SVI)

Overall Rankings:
National Percentile: 0.83
State Percentile: 0.74

Theme Rankings

Theme	Percentile
Socioeconomic Status	0.64
Household Characteristics	0.56
Racial & Ethnic Minority Status	0.68
Housing Type & Transportation	0.77

Key Variables (16 selected)

Variable	Percentile
Aged 17 & Younger	0.85
Aged 65 & Older	0.18
Below 150% Poverty	0.44
Civilian with a Disability	0.08
Crowding (>1 person/room)	0.71
English Language Proficiency (limited)	0.65
Group Quarters	0.58
Housing Cost Burden	0.89
Minority (all except white, non-Hispanic)	0.68
Mobile Homes	0.05
Multi-Unit Structures (10+)	0.92
No Health Insurance	0.82
No High School Diploma	0.20
No Vehicle	0.58
Single-Parent Households	0.77
Unemployed	0.62

Report Metadata

Data Selection Criteria:

Precipitation Forecast: No

Precipitation History: No

Flood History: Yes

SVI Data: Yes

County Information: Yes

Disclaimer: This report is generated automatically based on available data and AI-powered analysis. The information should be used for informational purposes only. For critical decisions regarding flood safety and preparedness, please consult official sources such as NOAA, FEMA, and local emergency management agencies.