

Flood Information Report

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Query

"Why is Mobile, AL vulnerable to flooding?"

Answer

Mobile, AL belongs to Timezone: America/Chicago (Central Time).

Mobile, Alabama is vulnerable to flooding due to several factors:

- 1. Historical Flood Events:** Mobile has experienced numerous flash flood events in recent years. For example, on August 18, 2022, a flash flood occurred very close to the city center, just 0.1 miles away from 108 N Royal St, Mobile, AL. Other significant flash flood events occurred on June 19, 2021, and April 24, 2021, among others. These frequent flood events indicate a pattern of vulnerability to flooding in the area.
- 2. Geographic and Environmental Factors:** Mobile is located near the Gulf of Mexico, which makes it susceptible to heavy rainfall and storm surges associated with tropical storms and hurricanes. The city's low-lying topography and proximity to water bodies contribute to its flood risk.
- 3. Social Vulnerability Index (SVI):** The Social Vulnerability Index for Mobile County indicates a high level of vulnerability, with a national ranking of 0.8304 and a state ranking of 0.7424. Specific factors contributing to this vulnerability include:
 - High housing cost burden (0.8939)
 - High percentage of single-parent households (0.7727)
 - High percentage of multi-unit structures (10+) (0.9242)
 - High percentage of the population aged 17 and younger (0.8485)
 - Limited English language proficiency (0.6515)

These socioeconomic factors can exacerbate the impact of flooding, as they may limit the community's ability to prepare for, respond to, and recover from flood events.

Overall, the combination of frequent historical flood events, geographic susceptibility, and social vulnerability factors contribute to Mobile, AL's vulnerability to flooding.

Detailed Data: Mobile, AL

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 (49 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.