Texas: State Flood Plan Viewer

21% of Texas' land area is within the 100-year floodplain1 in 6 Texans live or work in known flood hazard areas

Angela Khong, TWDB Thomas Brown, HDR

texasstatefloodplan.org



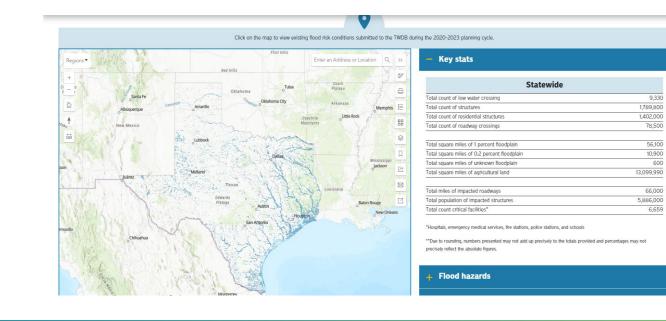
Agenda

- Introduction to Flood Planning
- SFPV Overview
- Viewer Demo
- Q & A



Flood Risks * Recommended Solutions * Existing Infrastructure Floodplain Management Explore the Data * Resources *

Overview







Why flood planning?

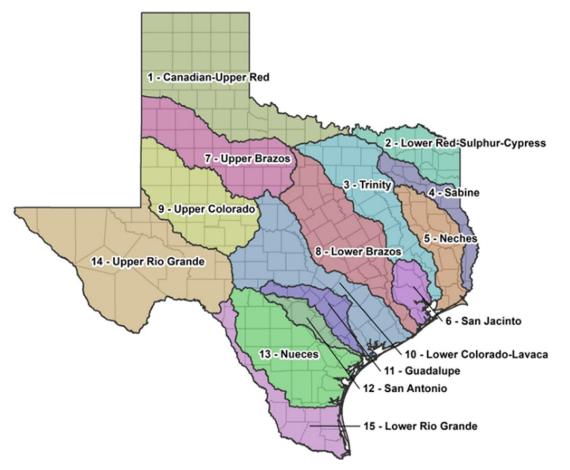
- Long history of flooding
- Texas Legislature passed Senate Bill 8 in 2019
- Develop statewide flood plan every 5 years
- Flood risk management is a good investment





Purpose of the state flood plan

- Per Senate Bill 8, Texas Water Development Board (TWDB) administers the program and develops the state flood plan
- The plan must develop a state flood plan to provide for orderly preparation for and response to flood conditions to protect against the loss of life and property
- We rarely fully mitigate all flood risk. But we can reduce the risk and prepare for it. There will always be residual risk.



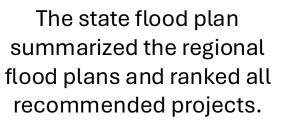


Summary of state and regional flood planning

Existed by Astras Kims From Reur Project

Regional flood plans identified flood risks and recommended evaluation needs, strategies, and projects within regions.





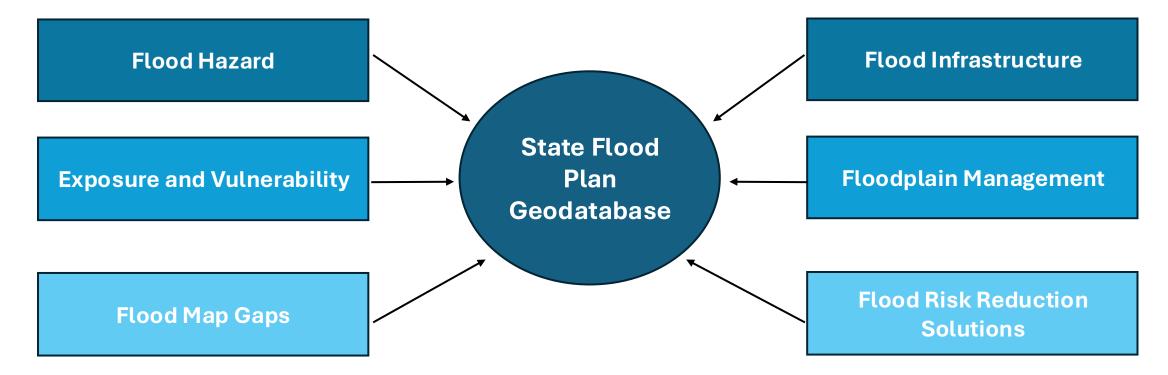


The state flood plan Viewer combined all geospatial data provided by the regions to be easily accessible to the public.



SC

The State Flood Plan geodatabase



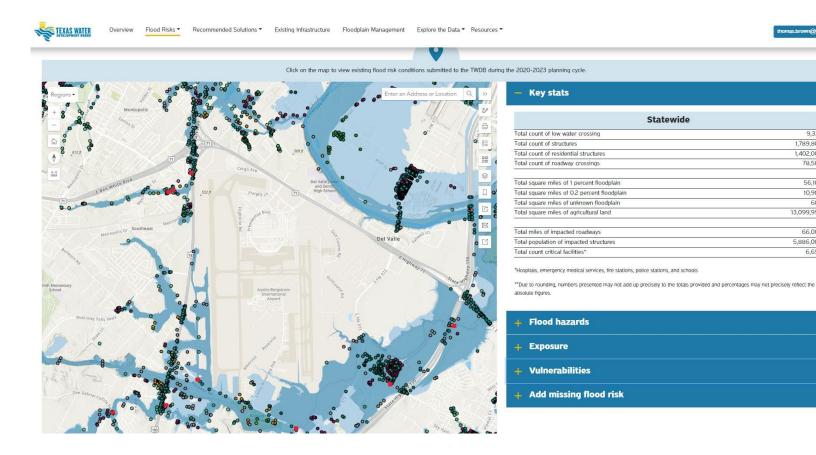
**24 feature classes, 3 tables -> 44,000,000+ attributes





6

SFPV: Capabilities



- Interactive mapping •
- Dynamic reporting •
- How use site •

9,330

78,500

56,100

10,900

13,099,990

66,000 5.886.000

6.659

600

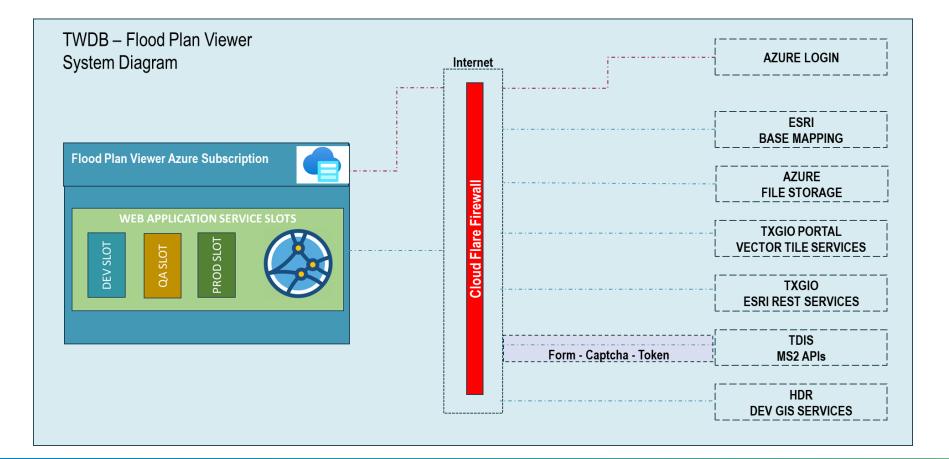
1,789,800 1,402,000

- Calendar of events •
- Downloads: H & H models, GIS • data
- Add Flood Risk and missing • infrastructure
- View sharing: email, area

selection



SFPV: Solution Architecture







Demo



This Interactive State Flood Plan Viewer complements Texas' inaugural 2024 State Flood Plan. The viewer allows stakeholders to view and download the extensive dataset generated by the statewide flood planning program, including flood risk and recommended flood risk reduction solutions.

Teras has a long history of flooding and flood-related loss, which has taken an enormous toll on people and property. In the altermath of Hurricane Harvey, and many previous devastating flood events across the state, the Teras Legislature passed <u>Senate BII 8</u> in 2019 that created Texas' first statewide regional flood planning program. The bill directed the Teras Water Development Board (TWDB) to develop a state flood plan to provide orderly preparation for and response to flood conditions to protect against the loss of life and property, be a guide to state flood control policy, and contribute to water development where possible.

The dataset presented in this viewer represents planning level information and is not regulatory

Read the 2024 State Flood Plan



- Overview
- Email Sharing
- Flood Risks: ABIA, Adding Risk
- Recommended Solutions:

-).

model downloads

• Exploring the Data



Thank you, Viewer Contributors!

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