

Appendix B – Survey 1

Survey 1 launched on March 1, 2018, and closed on April 30, 2018. The survey was created as an online document via Survey Monkey and was open to anyone who wished to complete it.

This appendix contains both the survey questions (attached here) and the survey responses (posted [online](#) as a Microsoft Excel spreadsheet).



State Flood Assessment Survey 1

Introduction

Thank you for your willingness to participate in this online survey as part of the State Flood Assessment effort. This first step toward developing comprehensive flood planning for Texas does not seek to fund specific strategies or projects related to flood planning, mitigation, warning, or recovery. Instead, this effort seeks to obtain and communicate, via a statewide flood assessment report, the information that will determine the need for and benefits of statewide flood planning and financial investment.

Your responses are intended to provide feedback on flood mitigation needs for your jurisdiction. Multiple surveys received from different respondents within the same community or jurisdiction can be submitted. There is no need to consolidate responses from your community.

This survey is expected to take approximately 20 minutes and must be completed in one session.

Information About You

1. Which of the following best describes you? [Select only one.]

- I am the floodplain manager for a community participating in the National Flood Insurance Program (NFIP).
- I am a public-sector employee with flood-related responsibilities.
- I am an elected or appointed official with flood-related responsibilities.
- I am a person interested in the state flood assessment.
- Other [please describe]:

2. What type of entity do you represent? [Select only one.]

- | | |
|---|--|
| <input type="checkbox"/> Myself | <input type="checkbox"/> River Authority |
| <input type="checkbox"/> City | <input type="checkbox"/> State |
| <input type="checkbox"/> Council of Governments | <input type="checkbox"/> Tribe |
| <input type="checkbox"/> County | <input type="checkbox"/> Federal |
| <input type="checkbox"/> Special Purpose District | <input type="checkbox"/> Other [please describe]: <input type="text"/> |

3. Does your community or jurisdiction participate in the Community Rating System program?

- Yes
- No
- I don't know

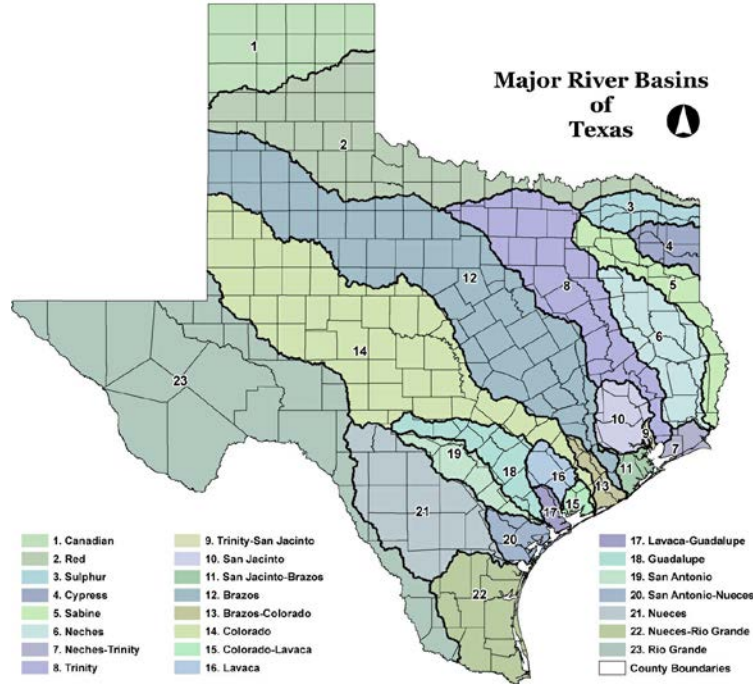
4. What is the name of your entity? [Can leave blank if representing yourself.]

5. What is your job title? [Can leave blank if representing yourself.]

6. In which county in Texas do you reside (if individual) or else in what county is your community located?



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7. In which major river basin do you reside (if individual) or else in which river basin is your community located? [Select only one, see map for reference.]

- | | | | |
|-----------------------------------|--|---|---|
| <input type="checkbox"/> Canadian | <input type="checkbox"/> Neches-Trinity | <input type="checkbox"/> Brazos-Colorado | <input type="checkbox"/> San Antonio |
| <input type="checkbox"/> Red | <input type="checkbox"/> Trinity | <input type="checkbox"/> Colorado | <input type="checkbox"/> San Antonio-Nueces |
| <input type="checkbox"/> Sulphur | <input type="checkbox"/> Trinity-San Jacinto | <input type="checkbox"/> Colorado-Lavaca | <input type="checkbox"/> Nueces |
| <input type="checkbox"/> Cypress | <input type="checkbox"/> San Jacinto | <input type="checkbox"/> Lavaca | <input type="checkbox"/> Nueces-Rio Grande |
| <input type="checkbox"/> Sabine | <input type="checkbox"/> San Jacinto-Brazos | <input type="checkbox"/> Lavaca-Guadalupe | <input type="checkbox"/> Rio Grande |
| <input type="checkbox"/> Neches | <input type="checkbox"/> Brazos | <input type="checkbox"/> Guadalupe | <input type="checkbox"/> I don't know |

Flood Risk Information

8. How often does your community (or jurisdiction) experience each of these types of flood events?

	Never	Very Rarely	Rarely	Occasionally	Frequently	Very Frequently	I don't know
Flash flooding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Slow rise or downstream flooding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local flooding related to insufficient drainage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local flooding related to insufficient stormwater system capacity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal flooding from tropical storm system rainfall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal flooding from storm surge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structural dam failure flooding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structural levee breach flooding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other [please describe, including never, very rarely, etc.]:	<input type="text"/>						



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9. Which of the following is used to define flood risk within your community or jurisdiction?
[Select all that apply.]

- Flood Insurance Rate Maps (FIRMs)
- Locally created floodplain maps
- Master Drainage Plan
- Flood risk analysis (including hazard, performance, exposure, vulnerability, and consequence information)
- I don't know
- Other [please describe]:

10. With regard to flood risk maps, which of the following accurately describes your community?
[Select all that apply.]

- Our maps depict riverine flooding but fail to capture low lying areas and streets sufficiently.
- We do not have enough area mapped.
- We have old, outdated maps.
- We lack the studies needed to create better flood risk maps.
- We recently updated our flood risk maps
- I don't know
- Other [please describe]:

Flood Management Activities

11. Which, if any, flood planning, mitigation, or protection activities has your community or jurisdiction implemented [Select all that apply]:

- | | |
|--|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> Levees, flood walls, or related infrastructure <input type="checkbox"/> Regional detention and/or retention basins <input type="checkbox"/> Local detention and/or retention basins <input type="checkbox"/> Local drainage improvements <input type="checkbox"/> Local channel conveyance improvements <input type="checkbox"/> Roadway bridges, culverts, and pipes <input type="checkbox"/> Floodplain development ordinances <input type="checkbox"/> Property buyouts or relocations <input type="checkbox"/> Property elevation | <ul style="list-style-type: none"> <input type="checkbox"/> Reconstruction of noncompliant structures <input type="checkbox"/> Flood-proofing and/or flood retrofits <input type="checkbox"/> Flood awareness training and/or education <input type="checkbox"/> Flood warning system <input type="checkbox"/> Flood insurance (participation in the NFIP) <input type="checkbox"/> I don't know <input type="checkbox"/> Other [please describe]: <input style="width: 100px;" type="text"/> |
|--|--|

12. Which of the following describes your local funding sources for flood management activities?
[Select all that apply.]

- General Fund
- Bond Program
- Storm Water Utility Fee
- Special Tax Districts
- Impact Fees
- Permitting Fees
- Ad Valorem Tax
- I don't know
- We do not have a local funding source for flood management activities
- Other [please describe]:



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13. What is your community's or jurisdiction's estimated annual budget (local funds only) for flood management activities? [Select only one.]

- No local funds for flood management.
- Less than \$100K
- \$100K-500K
- \$500K-1M
- \$1M-5M
- \$5M-10M
- \$10M-30M
- Greater than \$30M
- I don't know
- Specific Amount:

14. Regarding the annual budget from previous questions, approximately what percentage is allocated for the following flood management activities? If no local funds for flood management exist or you do not know the answer, please indicate as such in the box beside the choice for "Other" below.

Operation and maintenance costs	<input style="width: 100%; height: 20px;" type="text"/>
Flood hazard modeling and mapping	<input style="width: 100%; height: 20px;" type="text"/>
Stream gages and early warning systems	<input style="width: 100%; height: 20px;" type="text"/>
Flood-related infrastructure	<input style="width: 100%; height: 20px;" type="text"/>
Public awareness/outreach efforts	<input style="width: 100%; height: 20px;" type="text"/>
Other [please describe, include percentages]:	<input style="width: 100%; height: 20px;" type="text"/>

15. In addition to local resources, if any, what other funding sources have you obtained to pay for implementation of your flood management activities? [Select all that apply.]

- Hazard Mitigation Grant Program (HMGP) [FEMA, TDEM]
- Pre-Disaster Mitigation (PDM) [FEMA, TDEM]
- Flood Mitigation Assistance (FMA) [FEMA, TWDB]
- U.S. Department of Agriculture - Natural Resources Conservation Service (NRCS)
- Community Development Block Grant-Disaster Recovery (CDBG-DR) [HUD, GLO]
- U.S. Army Corps of Engineers Small Continuing Authorities Program (USACE CAP)
- Cooperating Technical Partners Program (CTP) [TWDB]
- State Water Implementation Fund for Texas (SWIFT) [TWDB]
- Flood Protection Planning Grant [TWDB]
- Texas Water Development Fund (DFund) [TWDB]
- Clean Water State Revolving Fund (CWSRF) [TWDB]
- I don't know
- Other [please describe]:

16. Which, if any, flood planning, mitigation, or protection activities has your community or jurisdiction identified as needed but not yet implemented? [Select all that apply.]

- Levees, flood walls, or related infrastructure
- Regional detention and/or retention basins
- Local detention and/or retention basins
- Local drainage improvements
- Local channel conveyance improvements
- Roadway bridges, culverts, and pipes
- Other [please describe]:
- Floodplain development ordinances
- Property buyouts or relocations
- Property elevation and/or flood-proofing
- Flood awareness training and/or education
- Flood warning system
- Flood insurance (participating in the NFIP)
- I don't know



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17. Regarding your selections in the question above, what is the estimated total cost (regardless of funding source) to implement those needed activities? [Select only one.]

- Less than \$1M
- \$1M-25M
- \$25M-50M
- \$50M-100M
- Specific Amount:
- \$100M-500M
- 500M-1B
- Greater than \$1B
- I don't know

18. Regarding your answer above, what percentage of that total cost for needed activities would require outside (non-local) funding?

19. Which of the following types of financial assistance for flood management projects might your community or jurisdiction pursue? [Select all that apply.]

- 50/50 cost share
- 75/25 cost share (local share = 25%)
- 90/10 cost share (local share = 10%)
- 0% interest loan
- Subsidized loan
- Market rate loan
- State participation in projects through temporary ownership
- I don't know
- Other [please describe]:

20. Does your community or jurisdiction currently have a revenue stream to repay financial assistance for flood management activities in the form of a loan?

- Yes
- No
- I don't know

Additional Flood Topics

21. My community or jurisdiction would most benefit from more state resources directed at [Select up to 3]:

- Flood hazard mapping
- Flood modeling
- Central depository of online data
- Stream gages
- Financial assistance for flood mitigation planning
- Financial assistance for flood early warning systems
- Financial assistance for implementation of flood mitigation projects
- Flood emergency response
- Public awareness efforts
- Technical assistance
- I don't know
- Other [please describe]:



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22. Does your community or jurisdiction currently work with other entities in your region to address flood risk and mitigation? [Select only one.]

- Yes
- No
- No, but we would benefit from regional collaboration
- I don't know

23. If the state of Texas decides to pursue flood planning, should it be: [Select only one.]

- Like this flood assessment effort (a statewide compilation of existing information)
- A regional flood-focused effort (based on watershed boundaries and conducted by regional flood planning groups)
- I don't know
- Something else [please describe]:

24. If a state flood plan were created at some point in the future, what should be the purpose or goal of the plan? What should be included to meet that goal?

25. Do you have any other thoughts to share on the State Flood Assessment at this time?

26. A secondary survey will launch later this month and will include further discussion on topics such as opportunities to improve leveraging of existing funds, proactive solutions to improve flood resilience, and exploring the future of flood planning in Texas. Would you be interested in taking the follow-up survey?

- No, I would not.
- Yes, please email me at the following address:

Conclusion

Thank you very much for taking the time to complete this survey. Your input is key to the success of the effort to create the first State Flood Assessment.