Flood Management Task Force

February 17, 2023



Welcome and Introductions

- Thanks for attending!
- Please introduce yourself in the chat box.
- Please mute your line.
- Unmute your line when you would like to speak during question and discussion time.
 - We will also watch the chat box for questions



Meeting Summary Approval

- The link to the <u>November meeting summary</u> is available in the chat.
- Please inform Jai-W Hayes-Jackson of any corrections or additions, at <u>jhayes-jackson@nctcog.org</u>.



Work Program Projects & Activities



NFIP/CDC Model Consolidation and Extension Efforts



NFIP/CDC Model Consolidation and Extension Efforts

The USACE funded two ongoing studies related to CDC model consolidation.

- Updating the newly georeferenced CDC model with approved but not yet constructed CDC project geometries from 2017 onward and future flows.
 - USACE and FEMA worked to update their respective models and are sharing this draft of the consolidated NFIP/CDC model to the Trinity FMTF website.
 - Culmination of a collaborative effort to generate a first-ever consolidated NFIP/CDC model.
 - Aligns with CDC manual updates and sharing for FMTF review & feedback.
- Working to generate CDC future flows for the FEMA detailed study on the East Fork Trinity and the Trinity mainstem to ultimately extend the consolidated CDC/NFIP model.
 - Incorporating NCTCOG guidance on future land use data to inform hydrologic modeling.
 After developing flows, will complete hydraulic model for this area.
 - Anticipate sharing with FMTF for review in 2023.

The USACE set aside Floodplain Management Services (FPMS) funds to complete these scopes and will continue to share information and updates with FMTF members.



NFIP/CDC Model Consolidation and Extension Efforts

USACE and FEMA worked to update their respective models and are sharing the draft of the consolidated NFIP/CDC model to the FMFT website soon (https://nctcog.org/envir/committees/trinity-river-common-vision-steering-committee/flood-management-task-force).

NCTCOG is initially hosting the draft consolidated NFIP/CDC model on the FMTF website for FMTF review in advance of posting to the CDC website, when complete.

Includes a single consolidated HEC-RAS hydraulic model (.prj) with updated georeferenced NFIP and CDC geometries.



NFIP/CDC Model Consolidation and Extension Efforts

NFIP geometry notes are as follows:

- Includes constructed CDC project geometries that have gone through the FEMA Letter of Map Change (LOMC) process.
- Represents a FEMA preliminary model that that is NOT YET a regulatory/Effective model and as such is subject to change without notice.
- The end user bears the responsibility for ensuring use of the most appropriate and current model.
- Note that FEMA will require the submittal of the Effective model (with appropriate tie-ins) in addition to the preliminary model for any formal map change requests – until the preliminary model becomes effective.
- Reflects current conditions flows and NOT future (2055) flows.



NFIP/CDC Model Consolidation and Extension Efforts

CDC geometry notes are as follows:

- Includes approved CDC project geometries (both constructed and not yet constructed).
- Reflects future (2055) flows.
- CDC projects approved since 2022 that are not currently reflected in this geometry will be included in future model updates.
- For the East Fork and Mainstern model extension, only the NFIP portion of the model is currently being shared.
- Additional guidance will be provided in the forthcoming 5th Edition of the CDC manual.

Thank you to our partners for this collaborative effort to generate a first-ever consolidated NFIP/CDC model.



Contact

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Water Resources Branch U.S. Army Corps of Engineers <u>Matthew.T.Lepinski@usace.army.mil</u> 817.886.1683



CDC Manual Update to the 5th Edition



CDC Manual Update to the 5th Edition

The NFIP-CDC Model Consolidation Team had a meeting on December 1, 2022, and February 13, 2023, to continue work on the 5th edition update.

- Completed final drafts of all sections and forms.
- Completing final QC of the Appendices and the FAQs

Next Steps

- Compile those into a draft of entire manual document
- Provide the complete revised manual to FMTF for review
- Address any comments and finalize the updated manual

The Team will meet as needed to discuss final draft of manual and comments received

Final Goal to have revised CDC Manual completed at same time new consolidated NFIP-CDC Model is ready to be implemented

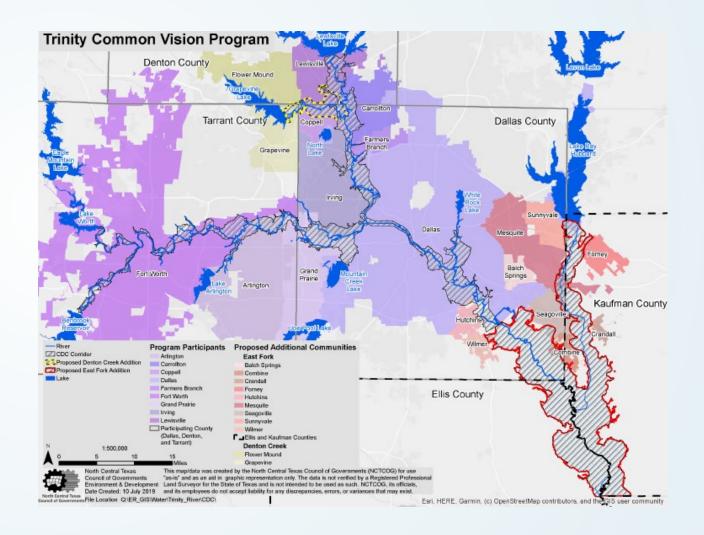


East Fork/Denton Creek Update



East Fork/Denton Creek Update

- NCTCOG staff is sending out emails to proposed communities to encourage them to join.
- NCTCOG will continue to advertise the benefits of the COMMON VISION Program with the Consolidated NFIP-CDC Model





OneRain Regional Flood Warning Software Program



Regional Flood Early-Warning Software

www.flooddatantx.com

North Texas Share https://northtexasshare.org/SHARE partners/onerain-flood-management/

















Overview

Cooperative Contract of North Texas Share created in August 2018 with the NCTCOG Environment and Development Dept & member communities of the Flood Management Task Force.

- Communities can set pre-defined alerts
- Visualize gauge readings to better prepare for storms
- Allows any community to join regardless of system size
- Flexible tiers including ancillary services

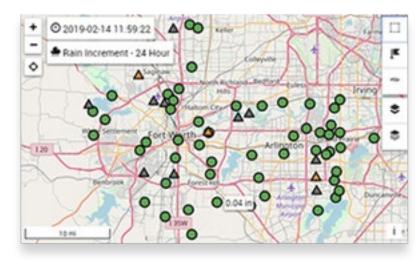


Stage Level Map



Participating Communities

- City of Arlington
- City of McKinney
- City of Frisco
- TRWD
- DCURD
- City of Grand Prairie
- Town of Highland Park

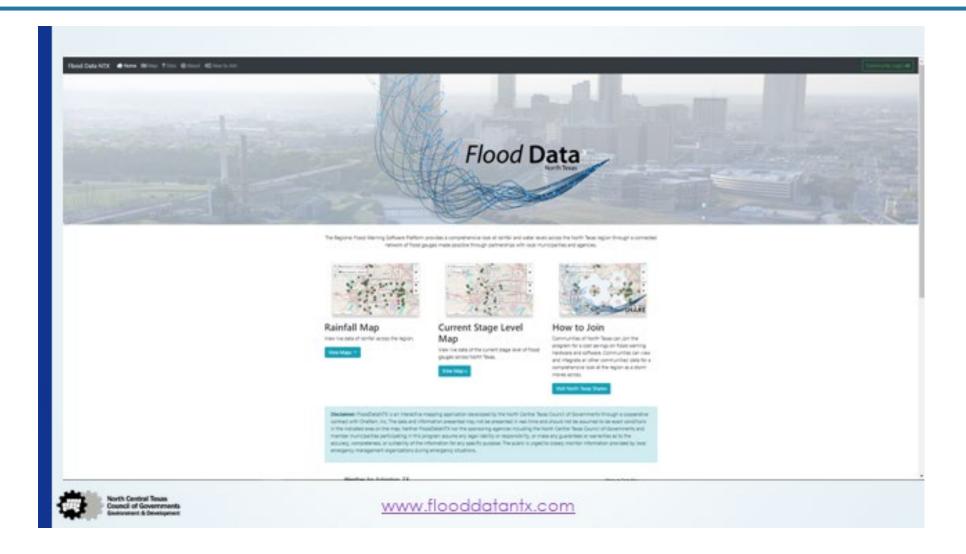


Rainfall Map

City of Fort Worth feeds data to website

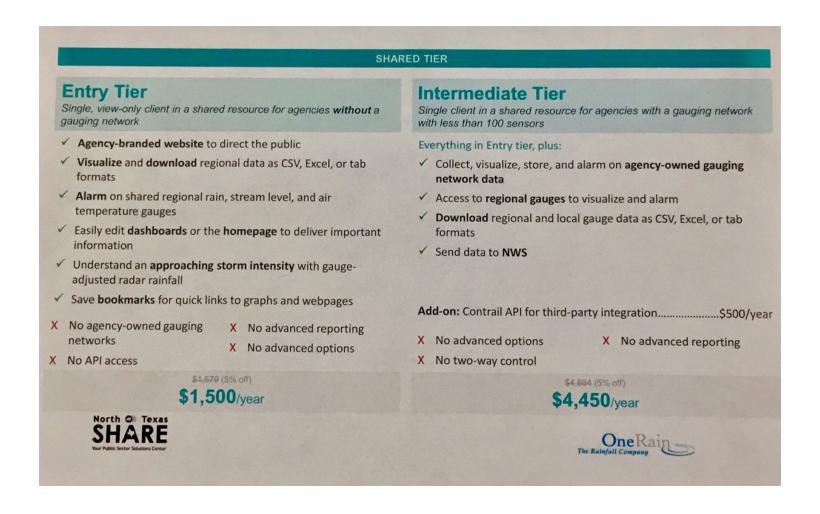


Flood Data North Texas





Shared Tier > Entry & Intermediate



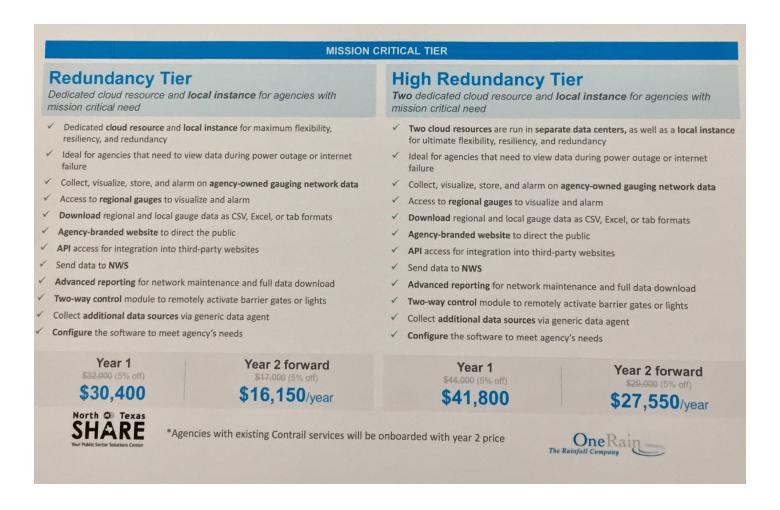


Dedicated Tier > Advanced 1 & Advanced 2

DEDICATED TIER Advanced Tier 2 Advanced Tier 1 Dedicated resource for agencies with a gauging network with Dedicated resource for agencies with a gauging network with under unlimited number of sensors 100 sensors ✓ Dedicated cloud resource for maximum performance, flexibility, and ✓ Dedicated cloud resource for maximum performance, flexibility, and √ Collect, visualize, store, and alarm on agency-owned gauging network ✓ Collect, visualize, store, and alarm on agency-owned gauging network data Access to regional gauges to visualize and alarm ✓ Access to regional gauges to visualize and alarm Download regional and local gauge data as CSV, Excel, or tab formats ✓ Download regional and local gauge data as CSV, Excel, or tab formats Agency-branded website to direct the public Agency-branded website to direct the public API access for integration into third-party websites ✓ API access for integration into third-party websites ✓ Send data to NWS ✓ Send data to NWS √ Advanced reporting for network maintenance and full data download ✓ Advanced reporting for network maintenance and full data download ✓ Two-way control module to remotely activate barrier gates or lights ✓ Two-way control module to remotely activate barrier gates or lights ✓ Collect additional data sources via generic data agent ✓ Collect additional data sources via generic data agent Configure the software to meet agency's needs Configure the software to meet agency's needs X No locally-hosted instance X No locally-hosted instance Under 100 sensors Unlimited sensors \$7,000 (5% off) \$12,000 (5% off) \$6,650/year \$11,400/year

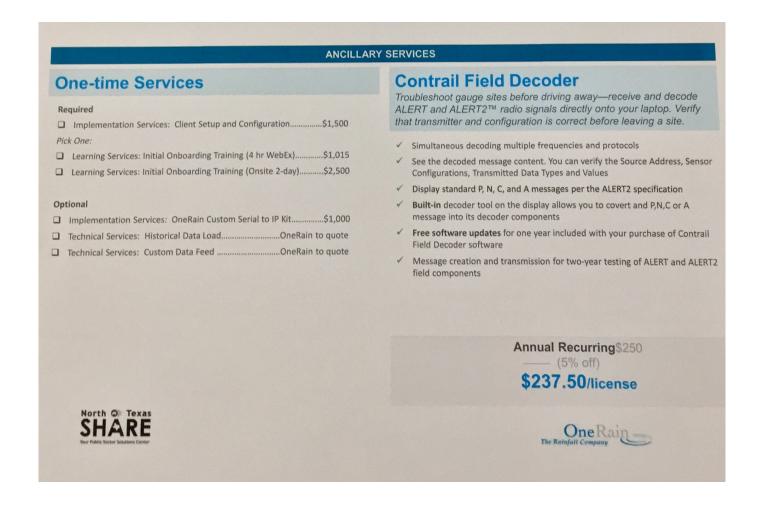


Mission Critical Tier > Redundancy & High Redundancy





Ancillary Services





Summary

Features:	
View sensor data	✓
Display & view alerts	✓
Create & modify station parameters	✓
View station health data	√
Access to regional gauge data	√
Send data to NWS	√
Agency branded web site	√
Configure to meet agency needs	√



Other Related Projects & Activities



North Texas Floodplain Administrators/CRS Users Group

- Next Community Rating System Users Group Meeting
 - February 24, 2023, 9:30 11:30 a.m. at NCTCOG offices
 - Click Here for an agenda and to RSVP
- For questions about the CRS Users Group, or to suggest future meeting topics, please contact Erin Blackman at Eblackman@nctcog.org or (817) 608-2360

Keep up with NCTCOG E&D meetings and events here: https://nctcog.org/envir/events



Trinity River National Water Trail Task Force



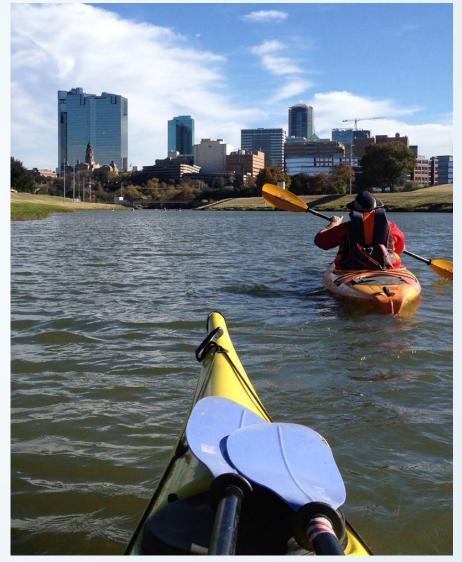
The Task Force met on February 14, 2023.

- Lewisville Lake Paddling Trail Update City of Denton
- Trinity River National Water Trail Master Plan NCTCOG
- Trinity River National Water Trail Master Plan Trinity Coalition

View meeting materials here.

The next Task Force meeting is planned for May 2023.

For more information, please contact Erin Blackman at Eblackman@nctcog.org or (817) 608-2360.





Task Force Website: https://nctcog.org/envir/committees/trinity-river-national-water-trail-task-force

Efforts Toward Integrated Transportation & Stormwater Planning

What is the TSI project?

- Integration of regional stormwater management, urban development, transportation, and environmental planning: a collaborative effort with regional Transportation planners
- Proactive Prevention vs. Response

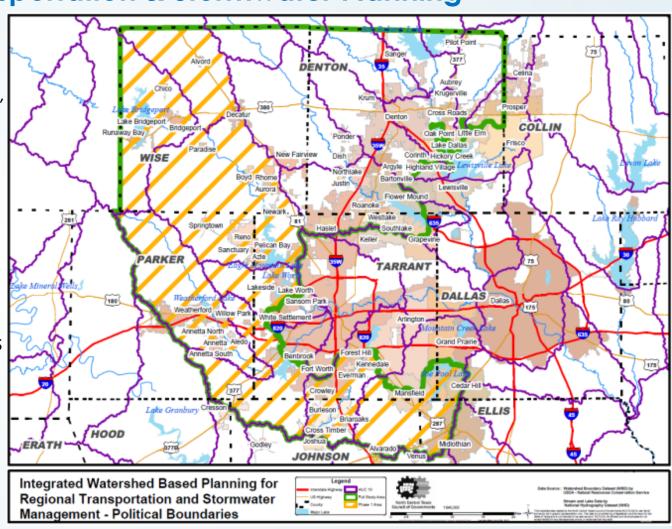
Project Updates

- Technical Advisory Group Meeting tentatively scheduled for March 6.
- Planning subarea community outreach meetings tentatively for April 2023
- Form steering committee.

Project Website:

https://www.nctcog.org/envir/watershedmanagement/upper-trinity-river-transportation-andstormwater





Phase One Project Area hatched in yellow - TWDB Commitment No. G1001314, North Central Texas COG Grant Agreement coverage area (remaining balance of Full Study Area to be undertaken with alternate funding sources/TxGLO provided to USACE)

Cooperating Technical Partnership (CTP) Program

FY20 Flood Risk Mapping Projects

- Catherine Branch (Denton County) 67% Complete
 - Hydrologic and Hydraulic analysis QA/QC underway.
 Preliminary mapping is in progress.

FY21 Flood Risk Mapping Projects

- Hog Branch (Denton County) –36% Complete
 - Terrain Data Capture and draft TSDN are underway.
- East Fork (Lowry Crossing and McKinney) –28% Complete
 - Terrain Data Capture and draft TSDN are underway.
- Upper West Fork Discovery 43% Complete
 - Hosted Discovery Meeting January 17, 2023. Continue work on draft Discovery Report and figures





integrated Stormwater Management (iSWM)

Integrated Stormwater Management (iSWM) Subcommittee

- The iSWM program issued an RFSQ for technical consultant services in October 2022. The Evaluation Committee scored responses and selected Halff Associates, Inc. as the technical consultant. This item is pending approval from the NCTCOG Executive Board, which is set to meet February 23, 2023.
- The iSWM FY23 Work Program Tasks have been posted <u>online</u>.
 - iSWM Manual Revisions

Next Meeting: April 12, 2023, at 1:30 pm via Microsoft Teams. More information available online.



integrated Stormwater Management (iSWM)

- EWRI LID Conference, August 2023, in Oklahoma City, OK
 - NCTCOG & Halff Associates, Inc. abstract on iSWM has been accepted for presentation
- StormCon, August 2023, in Dallas, TX
 - NCTCOG, Halff Associates, Inc., & City of Dallas have submitted an abstract to present on the iSWM Program
- For more information on iSWM, please contact Casey Cannon at (817) 608-2323 or <u>ccannon@nctcog.org</u>.



Corridor Development Certificate Applications

Progress Since Last FMTF Meeting (as of 2/10/23): Currently making updates to the website.

New CDC Applications

- ► LEW 081522-1
- **■** DAL 111020-1

Technical Review Under Process

- GP 061422-1
- GP 092922-1
- ► LEW 081522-1
- DAL 111020-1

During the Roundtable, please share any new CDC applications you anticipate being submitted soon.

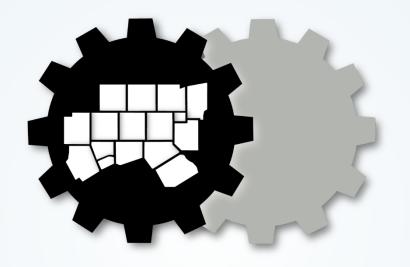
Final Action Forms

► FW 091322-1

Exemptions

- ► ARL 103122-01
- GP-20221014-1
- ► ARL 092622-01





ROUNDTABLE





Next FMTF Meeting Date

Friday, May 19, 2022

9:30 a.m.

Meeting Format is TBD.



Contact

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