Flood Management Task Force

April 9, 2021

North Central Texas
Council of Governments
Environment & Development

Welcome and Introductions

� Thanks for attending!

➲ Please introduce yourself in the chat box.

➲ <u>Please mute your line.</u>

➲ Unmute your line when you would like to speak during question and discussion time.

  ➲ We will also watch the chat box for questions

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Meeting Summary

- The link to the meeting summary is available in the chat.
- Please inform me of any corrections or additions.

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FY21 Trinity River Common Vision Work Program Activities Discussion

NFIP/CDC Model Consolidation Team

- The FMTF approved the Consolidation Team's Memo in January. The USACE has submitted two scopes for work related to the model consolidation.

  - Updating the newly georeferenced CDC model with approved but not yet constructed CDC project geometries from 2017 onward and future flows.

  - Creating the CDC future flows for the FEMA detailed study on the East Fork Trinity and the Trinity mainstem to extend the consolidated model.

- The USACE set aside $485,000 from the Floodplain Management Services (FPMS) fund to complete these scopes. Internal coordination at the USACE will be occurring this FY. Updates for FY21 will be provided as they become available.

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FY21 Trinity River Common Vision Work Program Activities Discussion

CDC Manual Update to the 5th Edition

- The NFIP-CDC Model Consolidation Team held it's latest meeting on April 5th to continue work on the 5th edition update.
  - Chapter 4: CDC Process revisions have been proposed and discussed.
- Updates will be brought to the FMTF throughout the process and your feedback will be requested.

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FY21 Trinity River Common Vision Work Program Activities Discussion

East Fork/Denton Creek Update

- NCTCOG staff sent letters to Grapevine and Flower Mound in July formally inviting them to join Trinity Common Vision.

- The City of Mesquite is considering taking the East Fork resolution to a future council meeting.

- NCTCOG staff will discuss the program at the May meeting of Dallas County Southern Cities.

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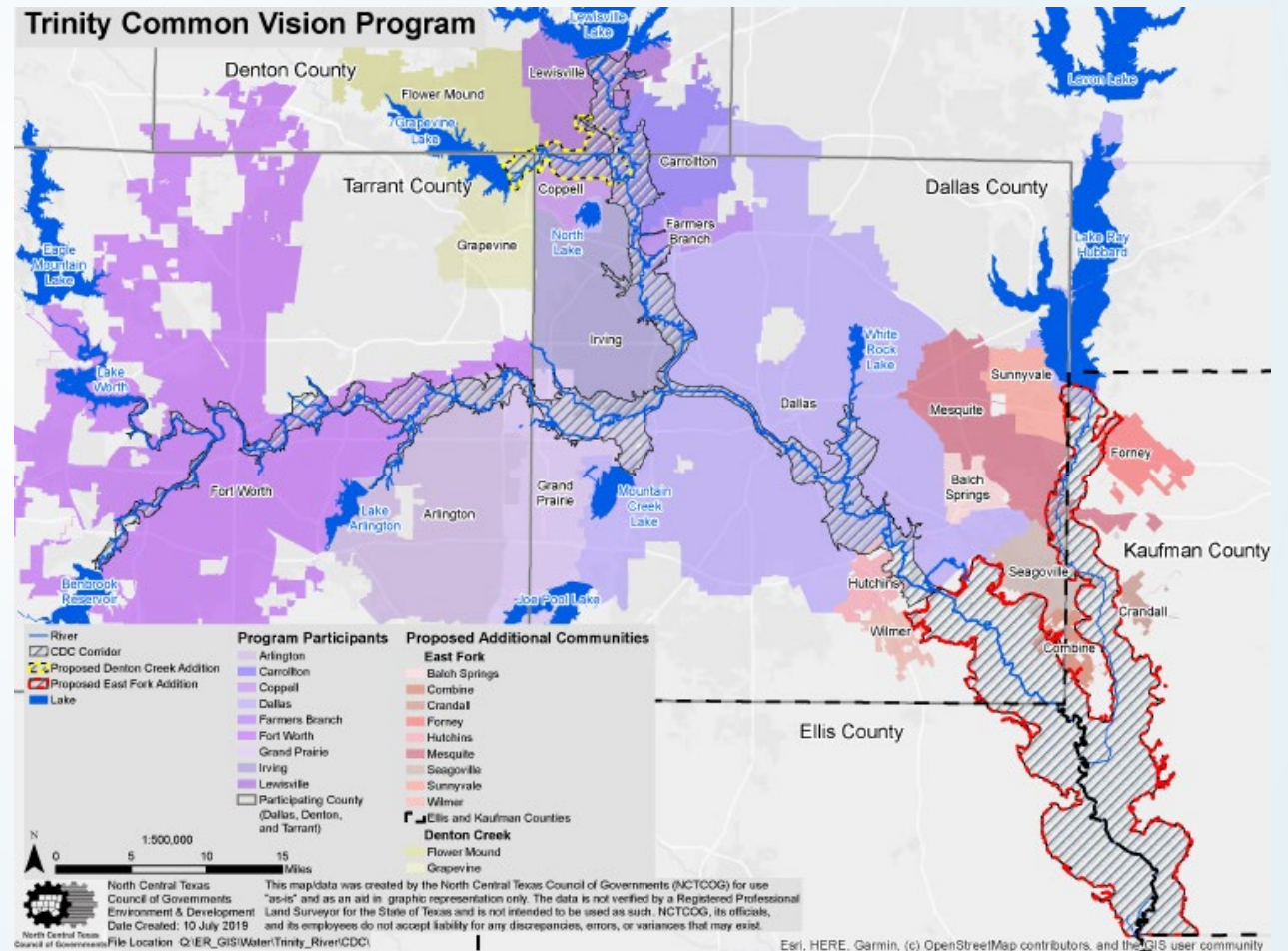
FY21 Trinity River Common Vision Work Program: Ongoing Support Activities

OneRain Regional Flood Software

- Regional software requested by FMTF in 2016. Entities currently on the common contract are McKinney, Arlington, Frisco, and TRWD. Fort Worth and Grand Prairie feed their data into the platform.

- Current contract for services is through North Texas SHARE and expires July 3, 2021.

- The renewal includes multiple tiers for varying levels of service. You can find information on contract here the new tiers and pricing here.

Regional Flood Warning Software Program

Cooperative regional solution to offer a cost-effective software package for all agencies to assist in flood warning and hydrology related challenges in the area.

Regional View
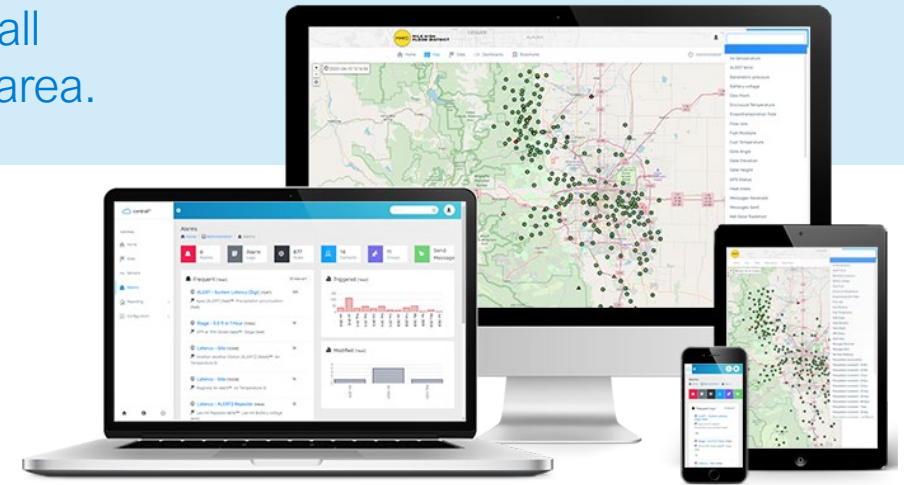Understand approaching storms across the DFW area with access to the regional data set

Impacts
Monitor the impacts on your agency with alarming, dashboards, and graphing of water and rainfall data

Branded Website
Provide your constituents with information through their own branded website that they can see and download data

For more information:
Sue Swenor
sue@highsierraelectronics.com

North Texas
SHARE
Your Public Sector Solutions Center

OneRain
The Rainfall Company

FEATURES

✓ Collect, visualize & alarm on critical flood and rainfall data

✓ Use your own gauges or utilize the surrounding agencies' gauges

✓ See surrounding agency rainfall data

✓ View information on any device

✓ Easily share your data with the public

✓ Website branding to match your agency

✓ Flexible tiers and deployments for all needs

Regional Flood Warning Software Program Updates

- New tiers for all agencies

  – Updated order form and pricing information

- 4 agencies on program

  – Cities of Arlington, Frisco, McKinney; Tarrant Regional Water District

- 4 pending agencies

  – Cities of Grand Prairie, Highland Park, Fort Worth; DCURD

- Reminder:

  – Program designed for all needs and requirements

  – Integrated systems to simple alarming platform

- Upcoming webinars
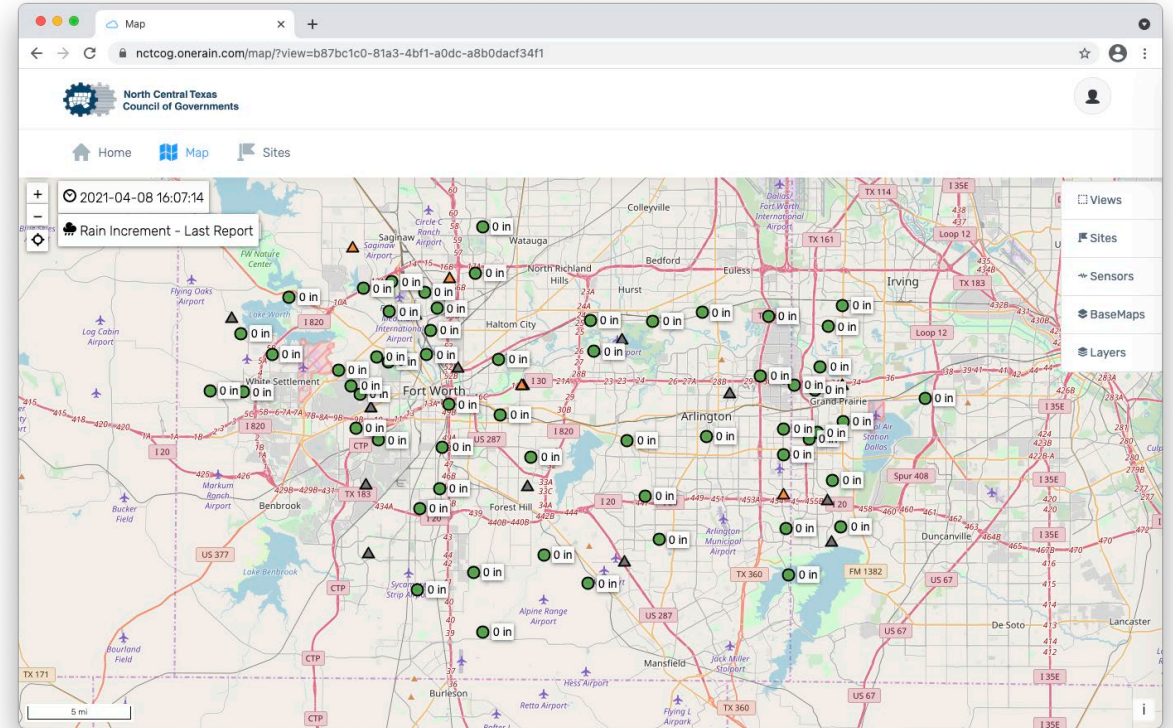
Entry Tier
*Single, view-only client in a shared resource for agencies **without** a gauging network*

✓ **Agency-branded website** to direct the public

✓ **Visualize** and **download** regional data as CSV, Excel, or tab formats

✓ **Alarm** on shared regional rain, stream level, and air temperature gauges

✓ Easily edit **dashboards** or the **homepage** to deliver important information

✓ Understand an **approaching storm intensity** with gauge-adjusted radar rainfall

✓ Save **bookmarks** for quick links to graphs and webpages

X No agency-owned gauging networks   X No advanced reporting

                                X No advanced options

X No API access

~~$1,579~~ (5% off)
$1,500/year

Intermediate Tier
Single client in a shared resource for agencies with a gauging network with less than 100 sensors

Everything in Entry tier, plus:

✓ Collect, visualize, store, and alarm on **agency-owned gauging network data**

✓ Access to **regional gauges** to visualize and alarm

✓ **Download** regional and local gauge data as CSV, Excel, or tab formats

✓ Send data to **NWS**

Add-on: Contrail API for third-party integration………………………$500/year

X No advanced options   X No advanced reporting

X No two-way control

~~$4,684~~ (5% off)
$4,450/year

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The Rainfall Company

Advanced Tier 1
*Dedicated resource for agencies with a gauging network **with under 100 sensors***

- ✓ Dedicated cloud resource for maximum performance, flexibility, and resiliency
- ✓ Collect, visualize, store, and alarm on **agency-owned gauging network data**
- ✓ Access to **regional gauges** to visualize and alarm
- ✓ **Download** regional and local gauge data as CSV, Excel, or tab formats
- ✓ **Agency-branded website** to direct the public
- ✓ **API** access for integration into third-party websites
- ✓ Send data to **NWS**
- ✓ **Advanced reporting** for network maintenance and full data download
- ✓ **Two-way control** module to remotely activate barrier gates or lights
- ✓ Collect **additional data sources** via generic data agent
- ✓ **Configure** the software to meet agency's needs
- ✗ No locally-hosted instance

Under 100 sensors
~~$7,000~~ (5% off)
$6,650/year

Advanced Tier 2
*Dedicated resource for agencies with a gauging network **with unlimited number of sensors***

- ✓ Dedicated cloud resource for maximum performance, flexibility, and resiliency
- ✓ Collect, visualize, store, and alarm on **agency-owned gauging network data**
- ✓ Access to **regional gauges** to visualize and alarm
- ✓ **Download** regional and local gauge data as CSV, Excel, or tab formats
- ✓ **Agency-branded website** to direct the public
- ✓ **API** access for integration into third-party websites
- ✓ Send data to **NWS**
- ✓ **Advanced reporting** for network maintenance and full data download
- ✓ **Two-way control** module to remotely activate barrier gates or lights
- ✓ Collect **additional data sources** via generic data agent
- ✓ **Configure** the software to meet agency's needs
- ✗ No locally-hosted instance

Unlimited sensors
~~$12,000~~ (5% off)
$11,400/year

OneRain
The Rainfall Company

Redundancy Tier

*Dedicated cloud resource and **local instance** for agencies with mission critical need*

- ✓ Dedicated **cloud resource** and **local instance** for maximum flexibility, resiliency, and redundancy
- ✓ Ideal for agencies that need to view data during power outage or internet failure
- ✓ Collect, visualize, store, and alarm on **agency-owned gauging network data**
- ✓ Access to **regional gauges** to visualize and alarm
- ✓ **Download** regional and local gauge data as CSV, Excel, or tab formats
- ✓ **Agency-branded website** to direct the public
- ✓ **API** access for integration into third-party websites
- ✓ Send data to **NWS**
- ✓ **Advanced reporting** for network maintenance and full data download
- ✓ **Two-way control** module to remotely activate barrier gates or lights
- ✓ Collect **additional data sources** via generic data agent
- ✓ **Configure** the software to meet agency's needs

Year 1	Year 2 forward
$32,000 (5% off)	$17,000 (5% off)
$30,400	**$16,150**/year

High Redundancy Tier

***Two** dedicated cloud resource and **local instance** for agencies with mission critical need*

- ✓ **Two cloud resources** are run in **separate data centers,** as well as a **local instance** for ultimate flexibility, resiliency, and redundancy
- ✓ Ideal for agencies that need to view data during power outage or internet failure
- ✓ Collect, visualize, store, and alarm on **agency-owned gauging network data**
- ✓ Access to **regional gauges** to visualize and alarm
- ✓ **Download** regional and local gauge data as CSV, Excel, or tab formats
- ✓ **Agency-branded website** to direct the public
- ✓ **API** access for integration into third-party websites
- ✓ Send data to **NWS**
- ✓ **Advanced reporting** for network maintenance and full data download
- ✓ **Two-way control** module to remotely activate barrier gates or lights
- ✓ Collect **additional data sources** via generic data agent
- ✓ **Configure** the software to meet agency's needs

Year 1	Year 2 forward
$44,000 (5% off)	$29,000 (5% off)
$41,800	**$27,550**/year

*Agencies with existing Contrail services will be onboarded with year 2 price

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The Rainfall Company

One-time Services

Required

☐ Implementation Services: Client Setup and Configuration……………$1,500

Pick One:

☐ Learning Services: Initial Onboarding Training (4 hr WebEx)…………$1,015

☐ Learning Services: Initial Onboarding Training (Onsite 2-day)………..$2,500

Optional

☐ Implementation Services: OneRain Custom Serial to IP Kit……………$1,000

☐ Technical Services: Historical Data Load………………………OneRain to quote

☐ Technical Services: Custom Data Feed …………………………OneRain to quote

Contrail Field Decoder

Troubleshoot gauge sites before driving away—receive and decode ALERT and ALERT2™ radio signals directly onto your laptop. Verify that transmitter and configuration is correct before leaving a site.

✓ Simultaneous decoding multiple frequencies and protocols

✓ See the decoded message content. You can verify the Source Address, Sensor Configurations, Transmitted Data Types and Values

✓ Display standard P, N, C, and A messages per the ALERT2 specification

✓ **Built-in** decoder tool on the display allows you to covert and P,N,C or A message into its decoder components

✓ **Free software updates** for one year included with your purchase of Contrail Field Decoder software

✓ Message creation and transmission for two-year testing of ALERT and ALERT2 field components
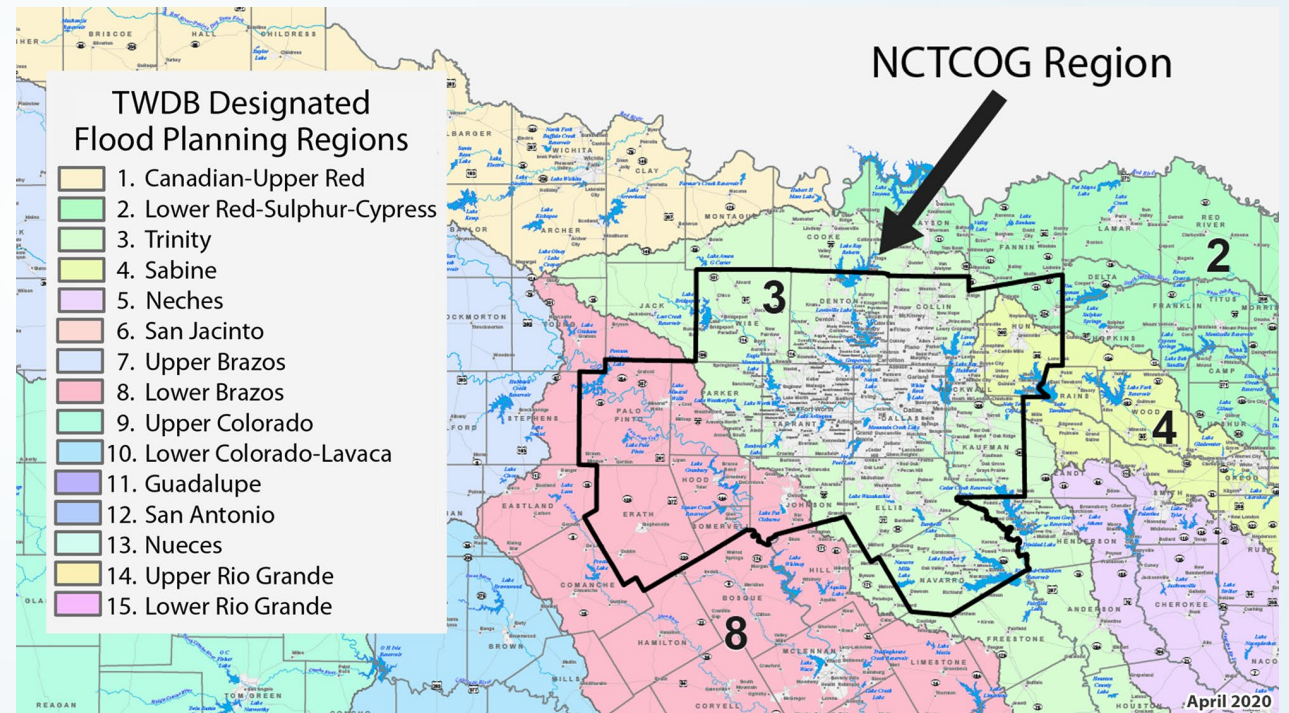
Annual Recurring

$250 (5% off)

$237/license

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# FY21 Trinity River Common Vision Work Program: Ongoing Support Activities

TWDB Flood Planning Process

➤ Highlights from the March 16th meeting of the Trinity Regional Flood Planning Group (RFPG), sponsored by TRA.

  ➤ The group welcomed FEMA, USACE, and NWS, as mandatory non-voting members voted to fill the vacant Agricultural Interests seat.

  ➤ The members discussed adding three COGs as non-mandatory non-voting members.

  ➤ Members discussed receipt of the sole proposal for a technical consultant.

  ➤ View meeting recordings here

  ➤ View meeting schedules here.

NCTCOG Region

TWDB Designated Flood Planning Regions
1. Canadian-Upper Red
2. Lower Red-Sulphur-Cypress
3. Trinity
4. Sabine
5. Neches
6. San Jacinto
7. Upper Brazos
8. Lower Brazos
9. Upper Colorado
10. Lower Colorado-Lavaca
11. Guadalupe
12. San Antonio
13. Nueces
14. Upper Rio Grande
15. Lower Rio Grande

April 2020

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FY21 Trinity River Common Vision Work Program: Ongoing Support Activities

➭ An application to the Silver Jackets to perform storm shifting in the Trinity River corridor was selected for funding.

➭ Dallas County, Dallas County Utility & Reclamation District (DCURD), and City of Irving are participating.

➭ The partners are selecting storms and locations for analysis.
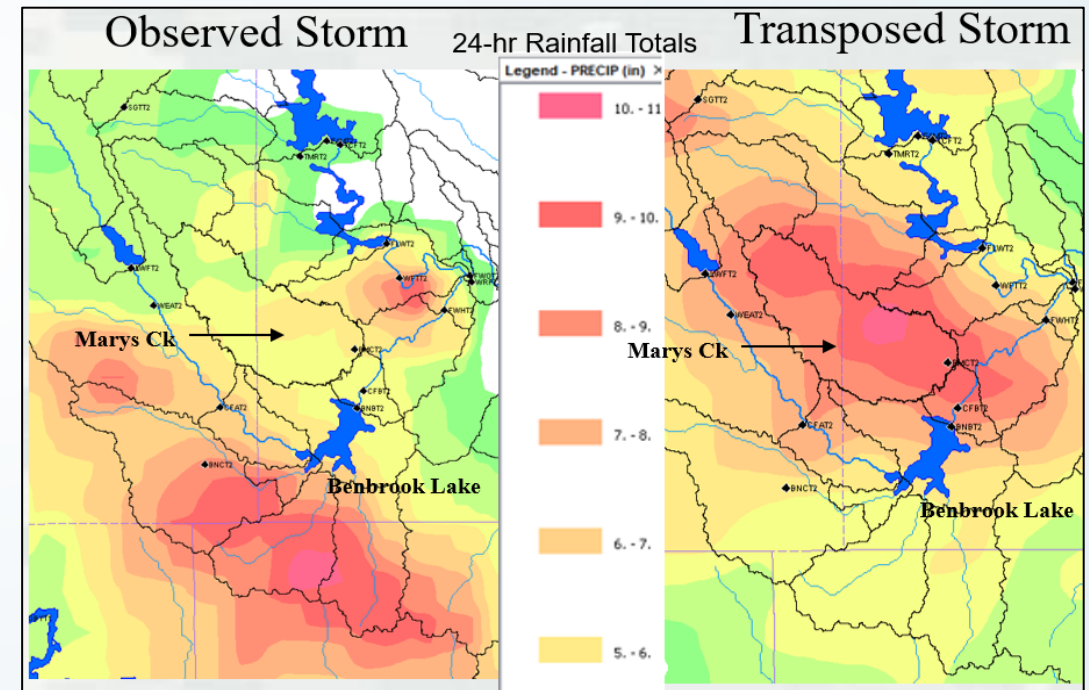
June 2000 storm transposed 15 miles North

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Other Program Related Efforts

Trinity River National Water Trail Update

- ➡ In 2018, the Trinity Coalition (formerly the Trinity Nature Conservancy) began working with NCTCOG and communities along the Trinity River and its branches to achieve National Recreation Trail designation from the National Park Service (NPS).

- ➡ In October 2020, the National Recreation Trail/National Water Trail designation was announced. The trail is 130 miles with 21 launches (more launches planned in the future). The NPS logo will be used in conjunction with the trail.

- ➡ The first meeting of the **Trinity River National Water Trail Task Force** will be held **Friday, April 30th, at 10:00 a.m.** The purpose of this group is to support the trail by maintaining its physical features and promoting its use as a recreational attraction for the region through partnership between the Trinity Coalition and river communities.
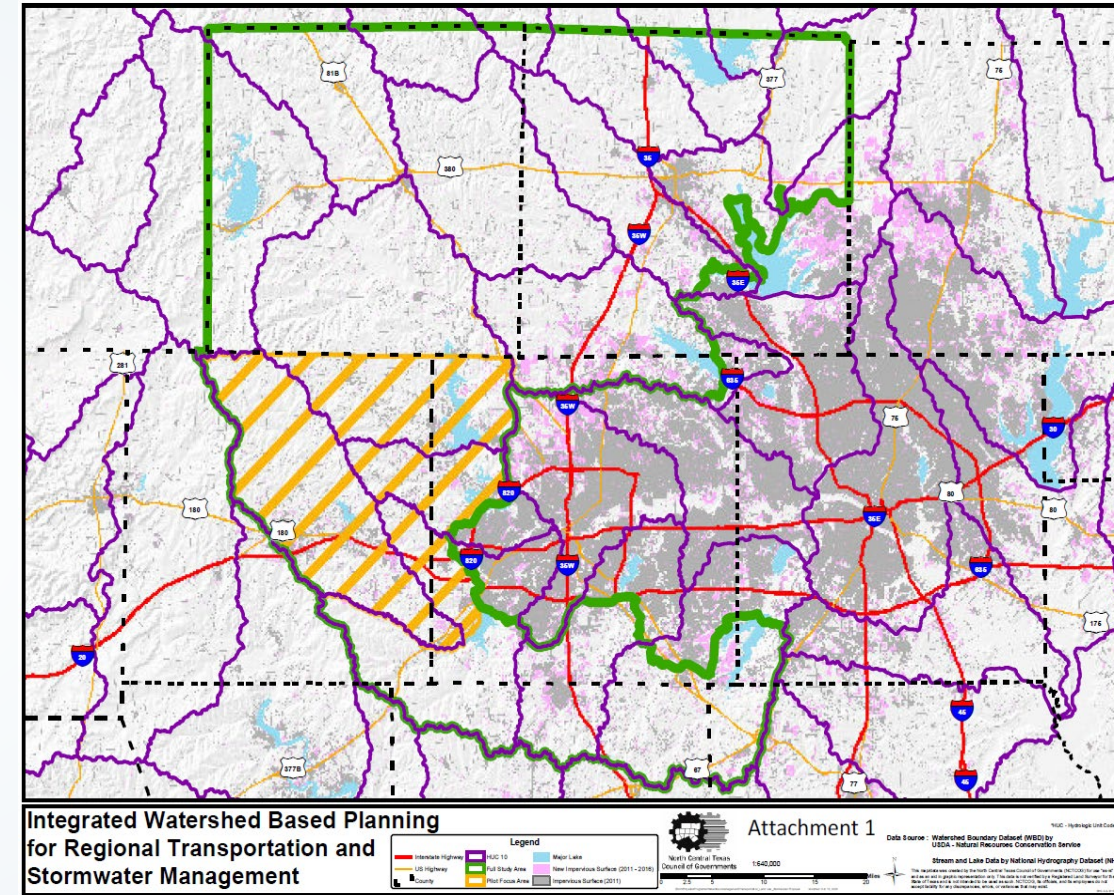
Other Program Related Efforts
Update on Efforts Toward Integrated Transportation & Stormwater Planning

- **What is the TSI project?**

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

  - Identify impacts and alleviate risks from severe weather events such as flooding: **Proactive Prevention vs. Response**

  - Will develop a comprehensive Transportation - Stormwater Infrastructure Plan for a First Phase – Proof of Concept Pilot Focus Area (yellow area).

- **Project Kickoff Coming Soon!**

  - Communities will receive a survey soon on flooding, stormwater, drainage, and policy challenges, in addition to available vs. needed data.

  - Virtual kickoff meetings will be held in late spring/early summer. Subsequent meetings (hopefully in-person) will focus on resources, policies, and best practices before moving to H&H data, decision making tools, and strategic planning/regulations.

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Integrated Watershed Based Planning for Regional Transportation and Stormwater Management

Attachment 1

Project resources and materials can be found at: https://www.nctcog.org/envir/watershed-management/upper-trinity-river-transportation-and-stormwater

Funding Application Update for Integrated Transportation and Stormwater Planning

	SUBMITTED APPLICATIONS		CONFIRMED FUNDS		ANTICIPATED APPLICATIONS*
Funding Agency/ Funding Opportunity Name	TWDB **(Flood Infrastructure Fund)**	USACE **(Various Authorities)**	FEMA **(Community Outreach and Mitigation Strategies)**	Regional Transportation Council **(Transportation Dollars)**	General Land Office **(CDBG MIT or Other Funding Category)**
Requested Funding	$3.0 Million	$3.0 Million	$80,000	$3.0 Million	?
Current Status	Submitted Complete Application Oct. 19th; contract execution anticipated early 2021.	Submitted to USACE Fort Worth District in 2020.	Award received; Phase 1 engagement is in the early stages.	Match funding for the TWDB FIF Grant approved at the October 2020 Executive Board.	Application period for the planning funds has not been announced.

*Anticipate applying to additional funding opportunities as they become available (ex. GLO, TDEM, etc.) and working with partner organizations to identify project funding.

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Other Program Related Efforts

North Central Texas Floodplain Administrators/CRS Users Group

➡ The last meeting was held Tuesday, April 6th. Robert Lemley with Floodproofing.com and Sandra Deshotel, Community Outreach Coordinator for City of Houston, gave an overview of CRS Activity 300 – Public Information Programs.

➡ The next meeting date is to be determined and planning for the Combined CRS Users Group/Elected Officials Seminar has begun.

➡ What topics interest you for future CRS Users Group meetings?

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Other Program Related Efforts

Cooperative Technical Partnership (CTP) Program

- FY18 Projects
  - Flood Risk ID on Marys Creek in Parker County is 97% complete. A flood resilience meeting was held April 6th; partnership with Parker County will continue.
- FY19 Projects
  - Harriet Creek (Denton County, 7 miles) and Waxahachie Creek (Ellis County, Midlothian, Waxahachie; 19 miles) flood risk identification projects are ongoing, with survey and hydrologic and hydraulic analyses underway. Waxahachie Creek is 44% complete and Harriet Creek is 27% complete.
- FY20 Projects
  - Catherine Branch Flood Risk ID in Denton County and a communications and outreach project related to NCTCOG's efforts for integration of transportation and stormwater planning in northern/western portions of the region have kicked off.
- FY21 Projects
  - NCTCOG submitted a final Business Plan to FEMA in late March reflecting FEMA prioritization of funds for CHARM, Upper West Fork Discovery, and flood risk identification projects in the East Fork and Denton watersheds. The grant application process is now underway.

Other Program Related Efforts

Integrated Stormwater Management (iSWM) Subcommittee

Task Order 4 Update

- The iSWM Subcommittee will meet April 21, 2021 to review the final draft documents below:
- Task 2 – Reorganize/Re-evaluate Site Development Controls
- Task 3 – Guidance on developing a regional detention program
- Task 4 – Detention criteria guidance research
- Task 5 – Re-evaluate 85th Percentile (1.5") Rainfall Requirements
- Task 6: 5-Year Outreach and Implementation Strategy (High priority)
  - Part A – 2-hour training for design and maintenance of BMPs – Early December 2020
  - Part B – Outreach & Implementation Strategy
- Task 7: Provide schematics for water quality BMPs

Subcommittee will discuss the upcoming contract tasks documents. View draft task order here.

Next Meeting: April 21st at 1:30 p.m. Keep up with NCTCOG E&D meetings and events at: https://www.nctcog.org/envir/events

Questions about iSWM? Contact Sydni Ligons at sligons@nctcog.org Or (817) 608-2360

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Corridor Development Certificate Applications

As of October 1st, the following [changes to the CDC Program](#) went into effect:

CDC Cost Recovery Fees
- Project is located within both the 100-year and SPF ineffective flow areas. Previous Fee: $3,250
  - **Updated Fee: $4,000**
- Or, project is located: (A) Within the 100-year and SPF effective flow areas or (B) Within a 100-year ineffective flow area but within the SPF effective flow area.
  - Previous Fee: $5,750
  - **Updated Fee: $6,000**

Model Maintenance Fee
- **New Fee: $2,500**
  - This fee is to be paid when the applicant requests the LOMR from the community. The community will send the fee to NCTCOG for processing just like they do for the Cost Recovery Fee.

New Website

Members submit applications through the web portal, accessible at www.TrinityRiverCDC.com.
Resources for system users: [CDC Tracking System Guide](#)

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Corridor Development Certificate Applications

Received Since Last FMTF Meeting:

➡ New CDC Applications

- ➡ CAR 122120-1 Office Building Site
- ➡ FW 012021-1 Village Creek Wastewater Treatment Plant Lift Station (Exemption)
- ➡ FW 020321-1 Improvements to Serve Gemelle Restaurant (Exemption)
- ➡ FW 030221-1 Shared Use Path and Sidewalk Connection (Exemption)
- ➡ IRV 101320-1 Lakeview Preserve
- ➡ LEW 022521-1 KSKY Salem Media Radio Towers (Exemption)
- ➡ LEW 022621-1 Murphy USA

➡ Technical Review Completed - None

➡ Final Action Forms - None

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Legislative Update

The 87th Texas Legislature runs January 12th to May 31st. View the latest matrix here.

Three bills have passed the House and are headed to the Senate:

HB 12 Relating to a study on a statewide disaster and extended power outage alert system and implementation of that system.

HB 531 Relating to notice requirements for a leased dwelling located in a floodplain.

HB 738 Relating to the residential and commercial building codes of municipalities.

Several bills related to time limits on studies/analyses related to permitting and land development are being considered:

HB 4121 Relating to prompt review of land development applications and the award of court costs and attorney's fees against a political subdivision in certain actions.

HB 4447 / SB 1667 Relating to the procedure for approval of certain land development applications by a political subdivision.

Two bills of note have been introduced at the federal level:

HR 1437 (FLOODS ACT):To amend the Weather Research and Forecasting Innovation Act of 2017 to direct the National Oceanic and Atmospheric Administration to provide comprehensive and regularly updated Federal precipitation information, and for other purposes.

HR 1438 (PRECIP ACT): To establish a national integrated flood information system within the National Oceanic and Atmospheric Administration, and for other purposes.

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Roundtable

Next FMTF Meeting Date

Friday, June 11, 2021

9:30 a.m.

The meeting will be held virtually on Microsoft Teams.

Add to Calendar:
https://www.addevent.com/event/MN6250767

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