U.S. ARMY CORPS OF ENGINEERS
STORMWATER PROJECT

Michael Morris, P.E., Director of Transportation, NCTCOG

July 15 – August 28, 2019

North Central Texas Council of Governments
WHERE: Greater Focus on Vulnerable Area

Proposed Study Area
WHY: Comprehensive, collaborative planning will dissolve silos and improve delivery of consolidated, adaptive infrastructure before expected population growth makes addressing these issues more difficult and costly.
Perspective: 5 year tally of flood fatalities
Texas far outpaces all of the states in flood related fatalities

(Source: Gregory Waller, Service Coordination Hydrologist, NWS – West Gulf River Forecast Center, http://www.nws.noaa.gov/om/hazstats.shtml, 11/18 TFMA)
What Will This Project Deliver

- Inventory of existing data, information and structures
- Develop state-of-the-art data, tools & analysis for:
  - Modeling
  - Emergency response
  - Emergency preparedness
  - Planning infrastructure and neighborhoods
  - Regulating the floodplain
- Develop planning level storm water infrastructure
- Develop environmental areas
- Develop environmental mitigation areas
- Groundwater recharge
- Open space connectivity opportunities
- Roadmap or documentation to allow duplication of this effort elsewhere
A working group of partners and stakeholders to carry out a comprehensive planning effort in Wise County and portions of Dallas, Denton, Ellis, Johnson, Parker, and Tarrant counties.
PREVENTION VS. RESPONSE

Transportation Infrastructure
- Structure Elevation / Culverts / Model Growth
- Mechanical Culverts?
- Transportation “LEED” Certified (Ray Roberts / Lewisville)
- Green Parkway Widths / Detention

Safety
- Technology / Routing
- Prioritization / Low Lying Facilities

Stormwater
- Minimize / Reduce Downstream
- Detention
- Tools, Data, Experts
PREVENTION VS. RESPONSE CON’T.

Environmental Features
- Tree Farms / Intentional Saturation
- Filtration / Recharge

Wetland and Stream Bed Mitigation Banking

Environmental Stewardship as a Revenue Element
- Mitigation Banking
- Horse Farms
- Eco-Tourism
**CONTRIBUTIONS:**
Partners are critical to making this possible

<table>
<thead>
<tr>
<th>Organization</th>
<th>Contribution</th>
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<tbody>
<tr>
<td>Texas General Land Office (GLO)</td>
<td>$ GLO</td>
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<td>US Housing and Urban Development (HUD)</td>
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<td>US Army Corps of Engineers (USACE)</td>
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<td>Federal Emergency Management Agency (FEMA)</td>
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<td>Texas Department of Transportation (TxDOT)</td>
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<td>Texas Water Development Board (TWDB)</td>
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<td>Regional Transportation Council (RTC)</td>
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Project Funding Goal: $10 Million

*Project Has Begun With Getting the Money*
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QUESTIONS/CONTACT:

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