North Central Texas Impaired Waters
Draft 2014 Texas Integrated Report

DRAFT

2014 Impaired Segments

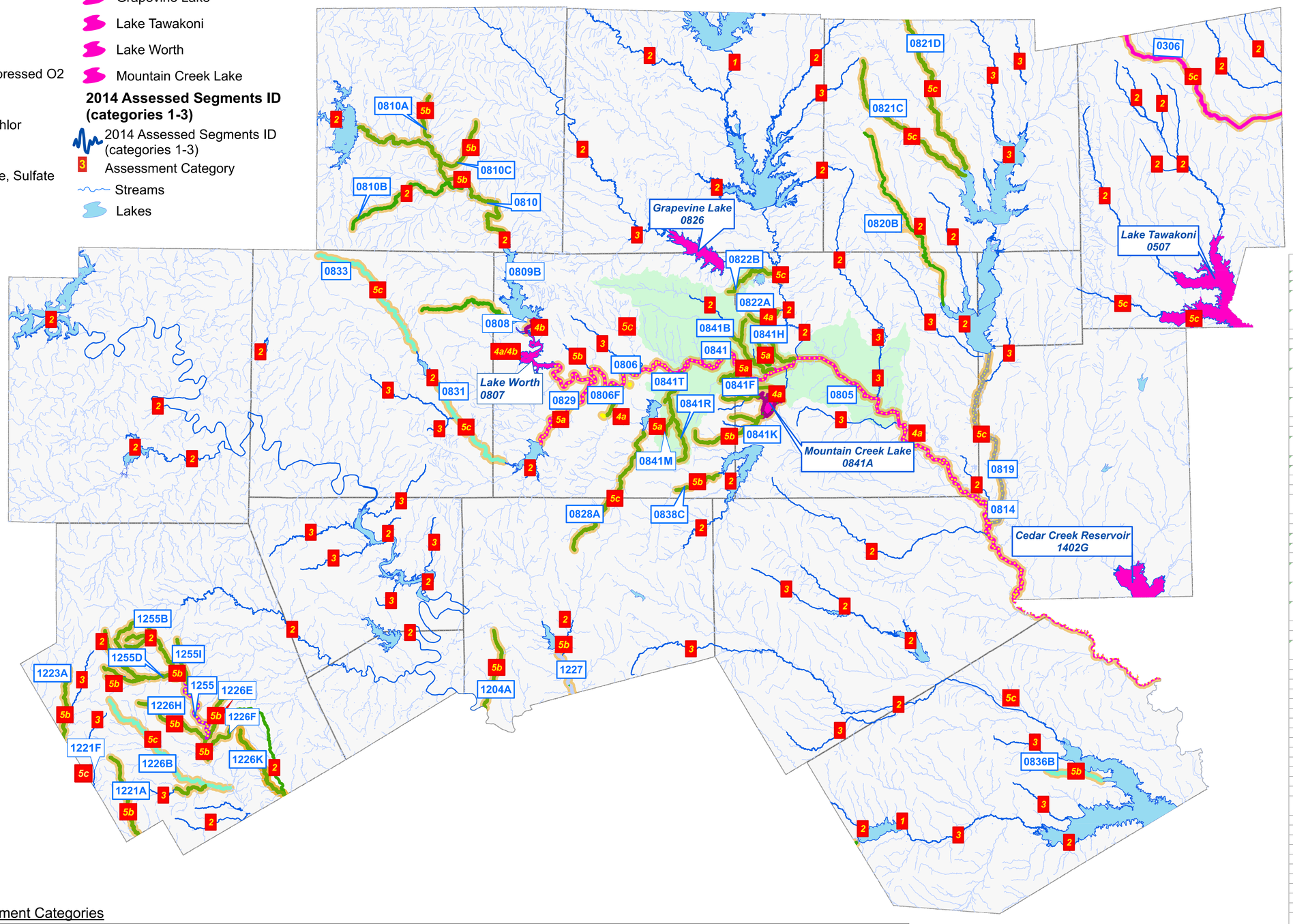
- Depressed O2
- PCB
- pH
- Bacteria
- Bacteria, Depressed O2
- Dioxin, PCB
- PCB, Heptachlor
- TDS, Sulfate
- TDS, Chloride, Sulfate

Impaired Lakes

- Cedar Creek Reservoir
- Grapevine Lake
- Lake Tawakoni
- Lake Worth
- Mountain Creek Lake

2014 Assessed Segments ID (categories 1-3)

- 2014 Assessed Segments ID (categories 1-3)
- 3 Assessment Category
- Streams
- Lakes



Segment ID	Segment Name	Segment Category	Impairment Parameter
0306	Upper South Sulphur River	5c	pH
0507	Lake Tawakoni	5c	pH
0805	Upper Trinity River	4a	Dioxin / PCB bacteria
0806	West Fork Trinity Below Lake Worth	5a	Dioxin / PCB
0806D	Marine Creek	5b	Bacteria
0806E	Sycamore Creek	5b	Bacteria
0807	Lake Worth	4a/4b	Aldrin, Dieldrin, PCBs
0808	West Fork Trinity below Eagle Mt. Rvr.	4b	Aldrin, Dieldrin, and PCB
0809B	Ash Creek	5c	Bacteria
0810	West Fork Trinity below Bridgeport Rvr.	5b	Bacteria
0810A	Big Sandy Creek	5b	Bacteria
0810C	Martin Branch	5b	Bacteria
0814	Chambers Creek Above Richland-Chambers Reservoir	5c	chloride
0818	Cedar Creek Reservoir	5c	pH
0819	East Fork Trinity River	5c	Sulfate, TDS
0820B	Rowlett Creek	5c	bacteria
0821C	Wilson Creek	5c	Bacteria
0821D	East Fork Trinity River above Lake Lavon	5c	Bacteria
0822A	Cottonwood Branch	4a	Bacteria
0822B	Grapevine Creek	5c	Bacteria
0825	Denton Creek	5c	pH
0826	Grapevine Lake	5c	pH
0828A	Village Creek	5c	Bacteria
0829	Clear Fork Trinity below Benbrook Lake	5a	Dioxin / PCB
0831	Clear Fork Trinity below Lake Weatherford	5c	Depressed O2
0833	Clear Fork Trinity above Lake Weatherford	5c	Depressed O2
0836B	Cedar Creek	5b	Depressed O2
0838C	Walnut Creek	5b	Bacteria
0841	Lower West Fork Trinity River	5a	Bacteria, Dioxin, PCB
0841A	Mountain Creek Lake	4a	PCB Dioxin
0841F	Cottonwood Creek	5a	Bacteria
0841G	Dalworth Creek	5a	Bacteria
0841H	Delaware Creek	5a	Bacteria
0841J	Estelle Creek	5a	Bacteria
0841K	Fish Creek	5b	Bacteria
0841L	Johnson Creek	5a	Bacteria
0841M	Kee Branch	4a	Bacteria
0841N	Kirby Creek	5b	Bacteria
0841R	Rush Creek	5a	Bacteria
0841T	Village Creek	5a	Bacteria
0841U	West Irving Creek	5a	Bacteria
0841V	Crockett Branch	5c	Bacteria
1204A	Camp Creek	5b	Bacteria
1221A	Resley Creek	5b	Bacteria, Depressed O2
1221F	Walnut Creek	5c	Bacteria
1223A	Armstrong Creek	5b	Bacteria
1226A	Duffau Creek	5c	bacteria
1226B	Green Creek	5c	Depressed O2
1226E	Indian Creek	5b	Bacteria
1226F	Sims Creek	5b	Bacteria
1226H	Alarm Creek	5b	Bacteria
1226K	Little Duffau Creek	5b	Bacteria
1226M	Little Green Creek	5b	Bacteria
1227	Nolan River	5b	Sulfate, TDS
1255	Upper N. Bosque River	5b	Bacteria, Depressed O2
1255A	Goose Branch	5b	Bacteria
1255B	N Fork Upper N Bosque	5b	Bacteria
1255C	Scarborough Creek	5b	Bacteria
1255D	South Fork N Bosque	5b	Bacteria
1255E	Trib of Goose Branch	5b	Bacteria
1255F	Trib of Scarborough Cr	5b	Bacteria
1255G	Woodhollow Branch	5b	Bacteria
1255I	Dry Branch	5b	Bacteria

TCEQ Stream Segment Categories

- Category 1. Attaining all water quality standards and no use is threatened.
- Category 2. Attaining some water quality standards and no use is threatened; and insufficient data and information are available to determine if the remaining uses are attained or threatened.
- Category 3. Insufficient data and information are available to determine if any water quality standard is attained.
- Category 4. Water quality standard is not supported or is threatened for one or more designated uses but does not require the development of a TMDL.
  - Category 4a. TMDL has been completed and approved by EPA.
  - Category 4b. Other pollution control requirements are reasonably expected to result in the attainment of the water quality standard in the near future.
  - Category 4c. Nonsupport of the water quality standard is not caused by a pollutant.
- Category 5. The water body does not meet applicable water quality standards or is threatened for one or more designated uses by one or more pollutants.
  - Category 5a. A TMDL is underway, scheduled, or will be scheduled.
  - Category 5b. A review of the water quality standards for the water body will be conducted before a management strategy is selected.
  - Category 5c. Additional data and information will be collected or evaluated before a management strategy is selected.

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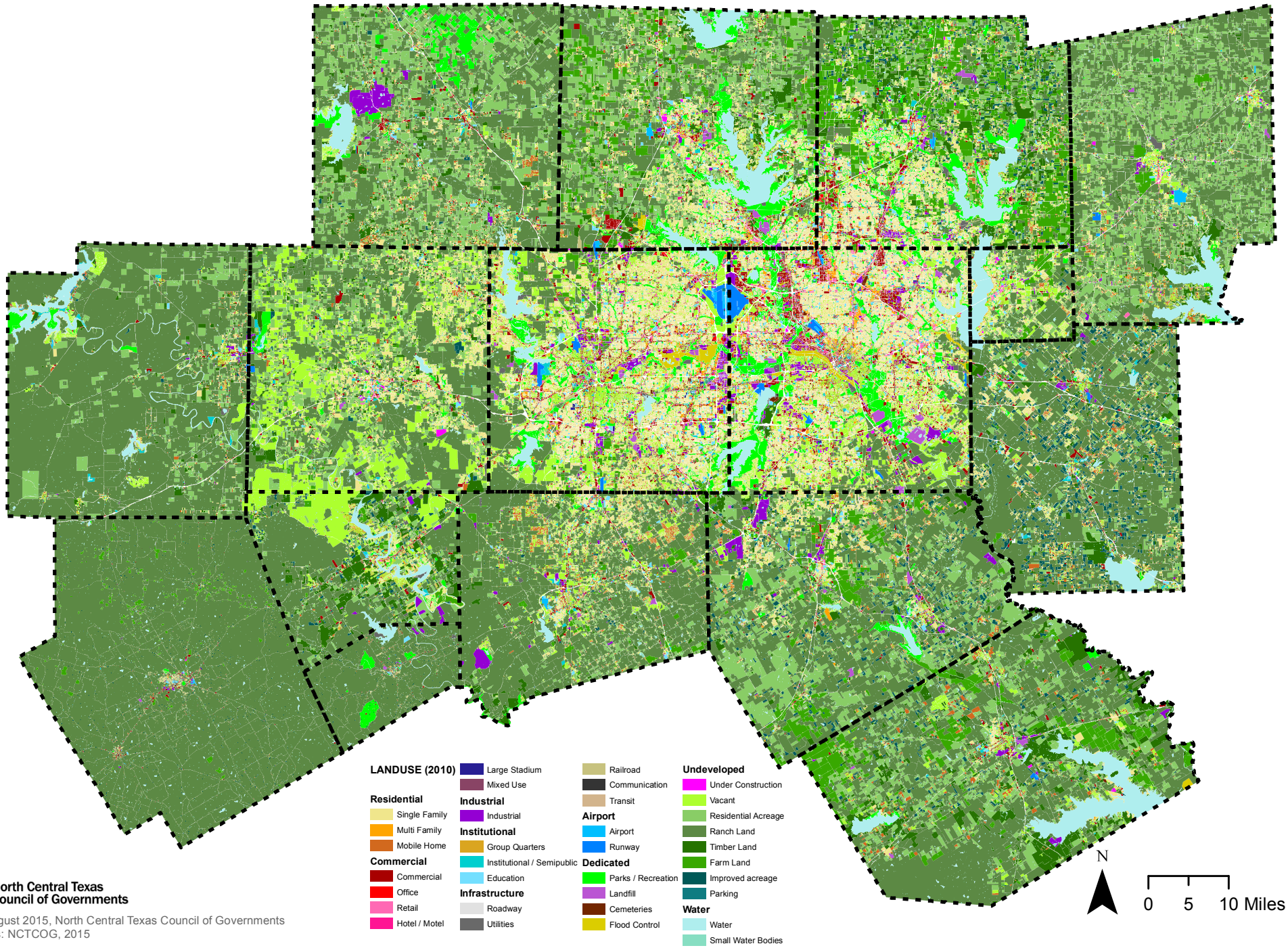
Data Source: TCEQ 2014 Texas Integrated Report for Clean Water Act Sections 305(b) and 303(d) and the NCTCOG Regional Data Center (2015).

This map/data was created by the North Central Texas Council of Governments (NCTCOG) for use "as-is" and as an aid in graphic representation only. The data is not verified by a Registered Professional Land Surveyor for the State of Texas and is not intended to be used as such. NCTCOG, its officials, and its employees do not accept liability for any discrepancies, errors, or variances that may exist.

DEA 06/11/15
Q:\ER_GIS\Water\water_quality\2014 Impaired Waters

2010 Landuse for the 16 County Region



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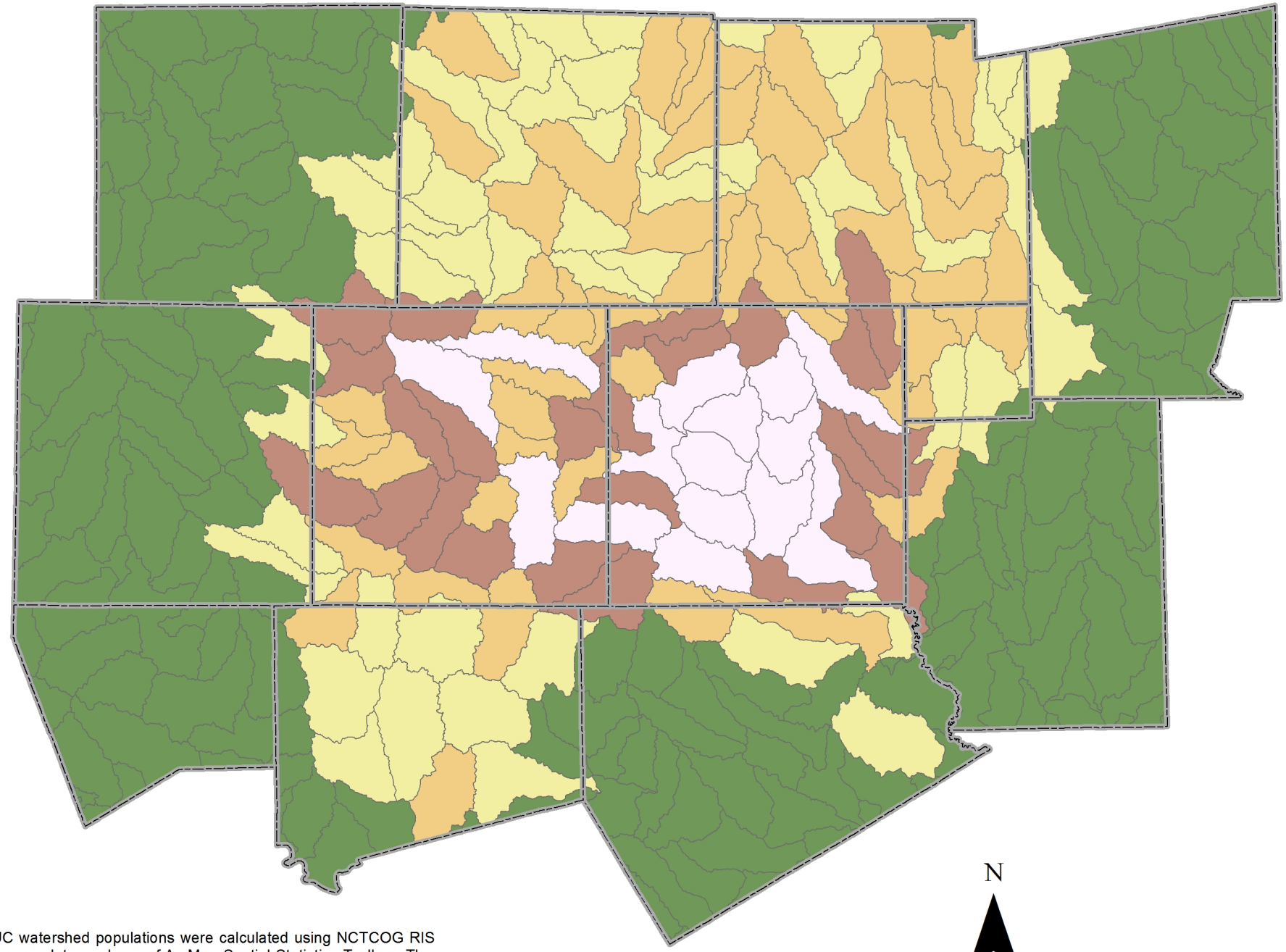
Produced August 2015, North Central Texas Council of Governments
Data Sources: NCTCOG, 2015

Legend

2015 Population by 12 HUC Watershed

- Counties
- Less than 9,000
- 9,000 - 30,000
- 30,000 - 60,000
- 60,000 - 90,000
- Greater than 90,000



N

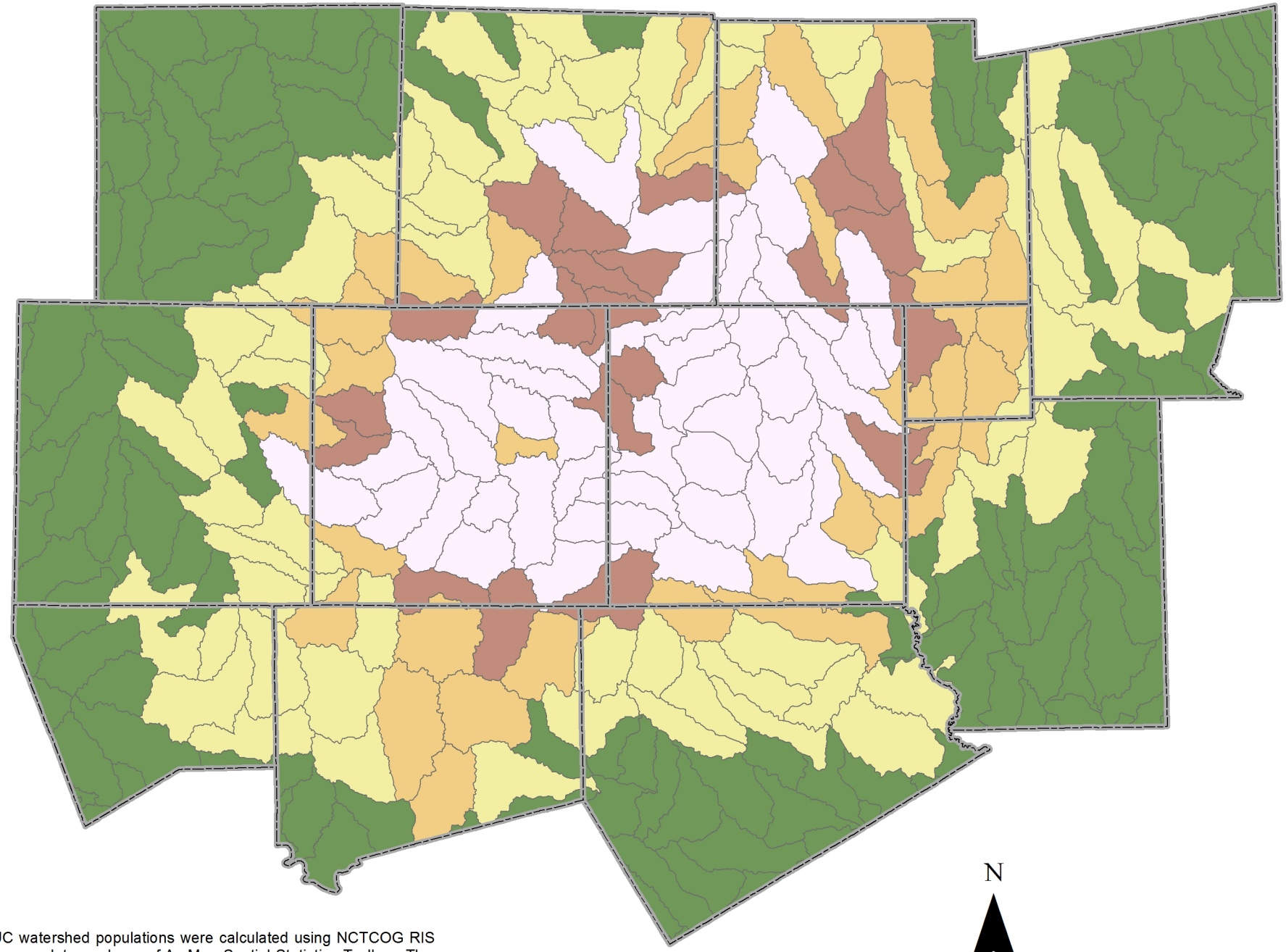
0 4.5 9 13.5 Miles

Data Source: The 12 HUC watershed populations were calculated using NCTCOG RIS hydrology dataset, US Census data, and use of ArcMap Spatial Statistics Toolbox. The 2010 Census spatial boundaries were used to allocate aggregated calculate population estimates for the census block groups using RIS population projections for the year 2015 in the MPA. This data combined with the 12 HUC watersheds was used to create Areal Weighted Demographic Variable to provide population estimates on the 12 HUC watershed level.

Legend

2040 Population by 12 HUC Watershed

- Less than 9,000
- 9,000 - 30,000
- 30,000 - 60,000
- 60,000 - 90,000
- Greater than 90,000
- Counties

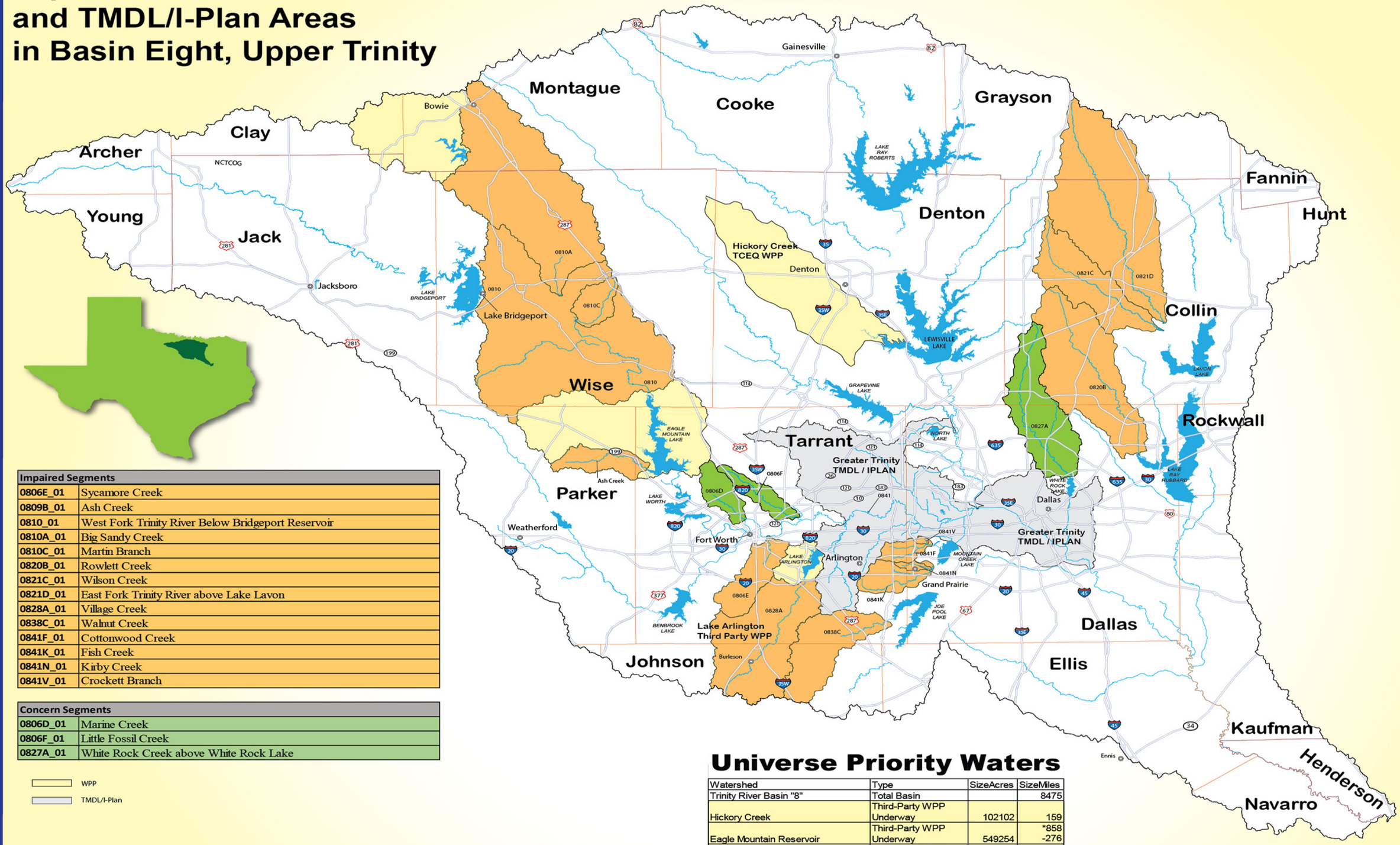


N

0 4.5 9 13.5 Miles

Data Source: The 12 HUC watershed populations were calculated using NCTCOG RIS hydrology dataset, US Census data, and use of ArcMap Spatial Statistics Toolbox. The 2010 Census spatial boundaries were used to allocate aggregated calculate population estimates for the census block groups using RIS population projections for the year 2040 in the MPA. This data combined with the 12 HUC watersheds was used to create Areal Weighted Demographic Variable to provide population estimates on the 12 HUC watershed level.

Impaired Subbasins, Subbasins of Concern, and TMDL/I-Plan Areas in Basin Eight, Upper Trinity



Impaired Segments	
0806E_01	Sycamore Creek
0809B_01	Ash Creek
0810_01	West Fork Trinity River Below Bridgeport Reservoir
0810A_01	Big Sandy Creek
0810C_01	Martin Branch
0820B_01	Rowlett Creek
0821C_01	Wilson Creek
0821D_01	East Fork Trinity River above Lake Lavon
0828A_01	Village Creek
0838C_01	Walnut Creek
0841F_01	Cottonwood Creek
0841K_01	Fish Creek
0841N_01	Kirby Creek
0841V_01	Crockett Branch

Concern Segments	
0806D_01	Marine Creek
0806F_01	Little Fossil Creek
0827A_01	White Rock Creek above White Rock Lake

WPP

TMDL/I-Plan

Universe Priority Waters

Watershed	Type	SizeAcres	SizeMiles
Trinity River Basin "8"	Total Basin		8475
Hickory Creek	Third-Party WPP Underway	102102	159
Eagle Mountain Reservoir	Third-Party WPP Underway	549254	*858 -276
Lake Arlington	Third-Party WPP Underway	91084	*142 -121
Greater Trinity Area	TMDL/I-Plan Completed	257258	402
Not Impaired for Contact Recreation			5606
Target Subbasins		999698	1651

* Subtract targeted subbasins that overlap WPPs.

Trinity River Basin "Eight" (8), 8462 sq mi.
Dallas/Fort Worth Region

Scale 1:265800
1 Inch = 6.75 Kilometers

10 0 10 20 30 40 50 Kilometers

N

TEXAS A&M AGRILIFE RESEARCH

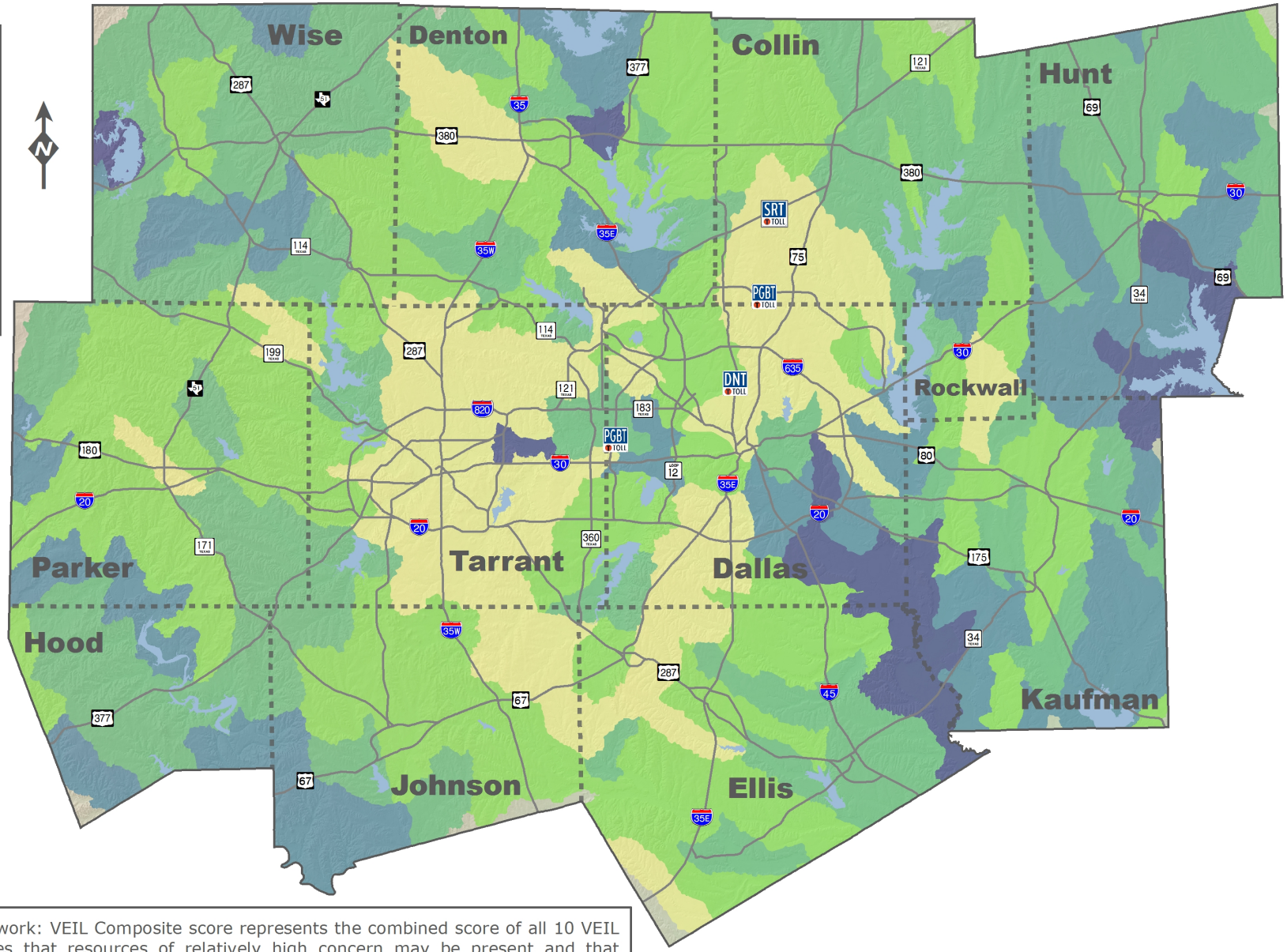
Map 3_Universe_Priority_Water_3-19-2015.ai

Regional Ecosystem Framework: VEIL Composite

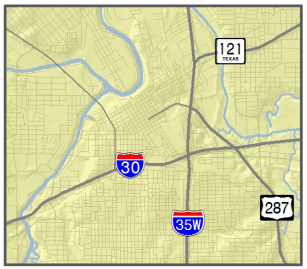
Legend

VEIL Composite Score

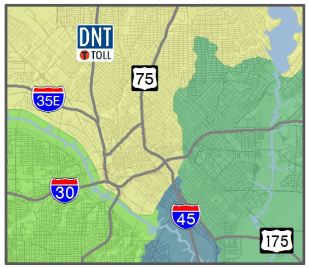
- 12 to 18 — Some Resources of Concern
- 19 to 22
- 23 to 26
- 27 to 31 — Greater Resources of Concern
- 32 to 40



Fort Worth CBD



Dallas CBD

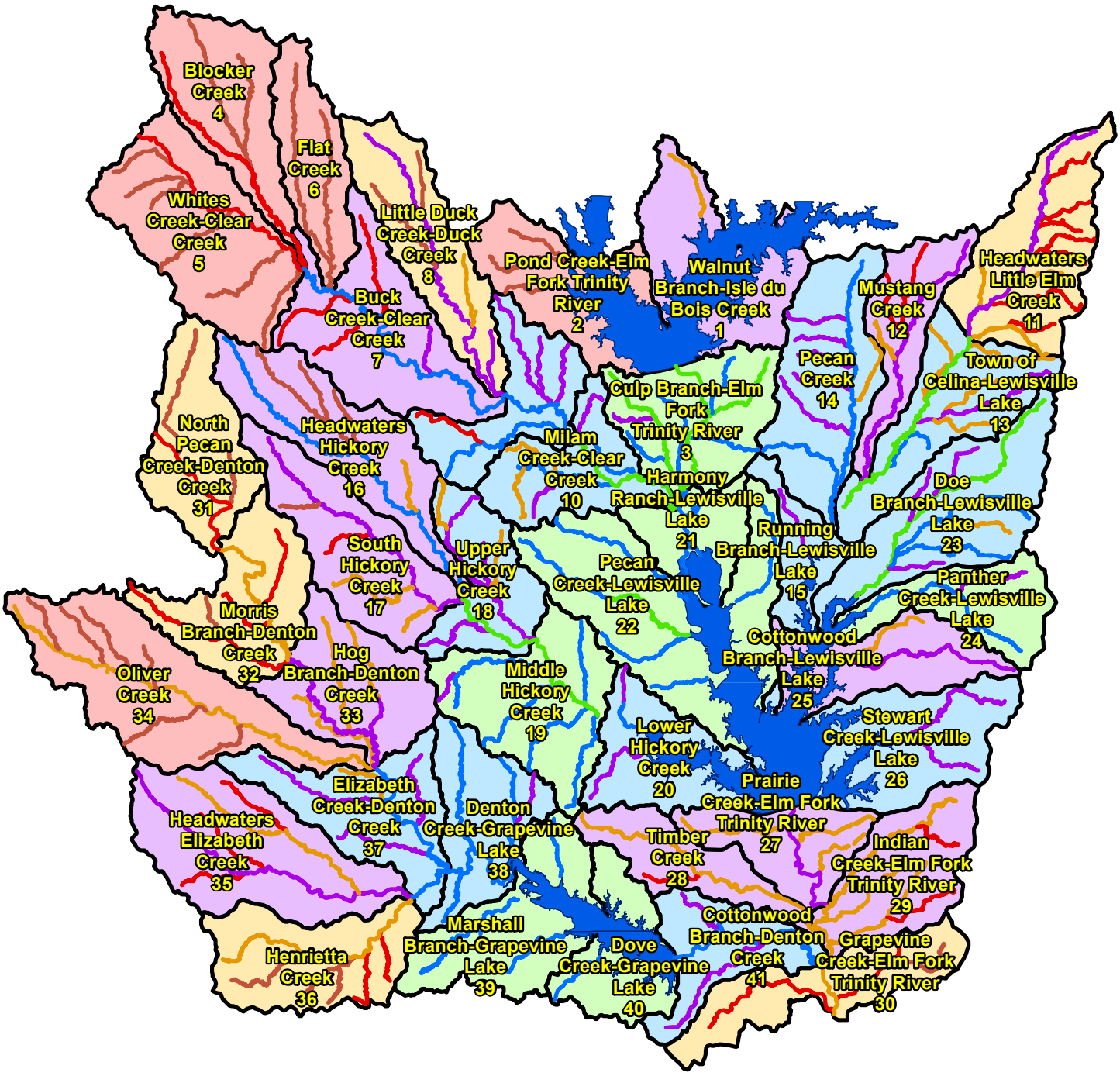


The Regional Ecosystem Framework: VEIL Composite score represents the combined score of all 10 VEIL layers. A higher score indicates that resources of relatively high concern may be present and that additional review, documentation, and consultation with the applicable agency may be needed. The VEIL layers include: Green Infrastructure (Wildlife Habitat, Natural Areas, Agricultural Land); Water Quality and Flooding (Impaired Water Segments, Flood Zones, Surface Water Quantity, and Wetlands); and Ecosystem Value (Rarity, Diversity, and Ecosystem Sustainability). Data sources include the Texas GRID and EPA Region 6 Regional Ecosystem Assessment Protocol data. This information has been developed for the Dallas-Fort Worth MPA for use in long-range planning. These scores are meant to be used as a preliminary screening tool for potential impact identification. For more information on the calculations for this layer, please visit www.nctcog.org/REF.

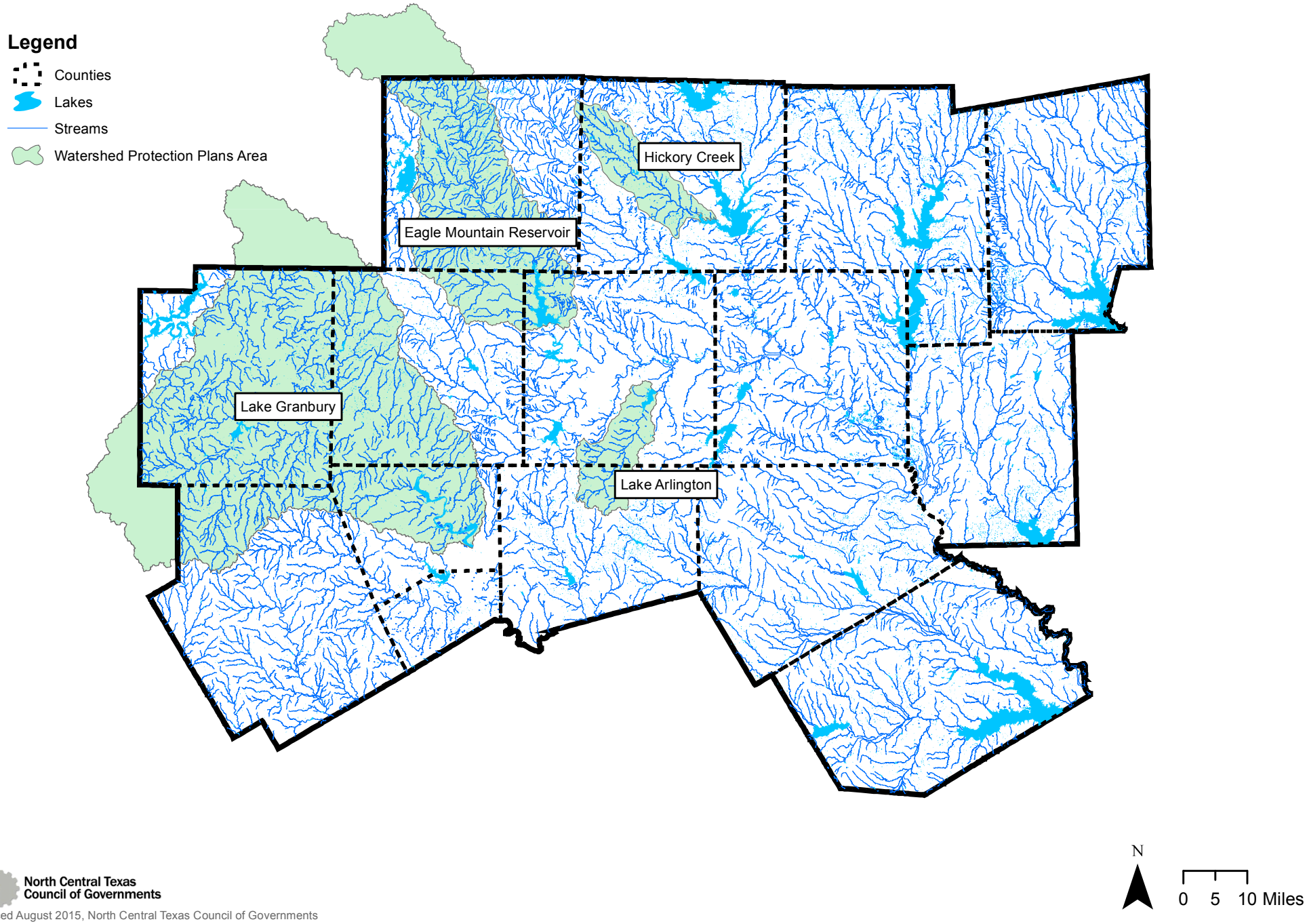
North Central Texas Council of Governments

August 6, 2014

UTCT GREENBELT MASTER PLAN - JULY 15, 2015
STREAM AND WATERSHED PRIORITY RESULTS



Watershed Protection Plans in North Central Texas 2015



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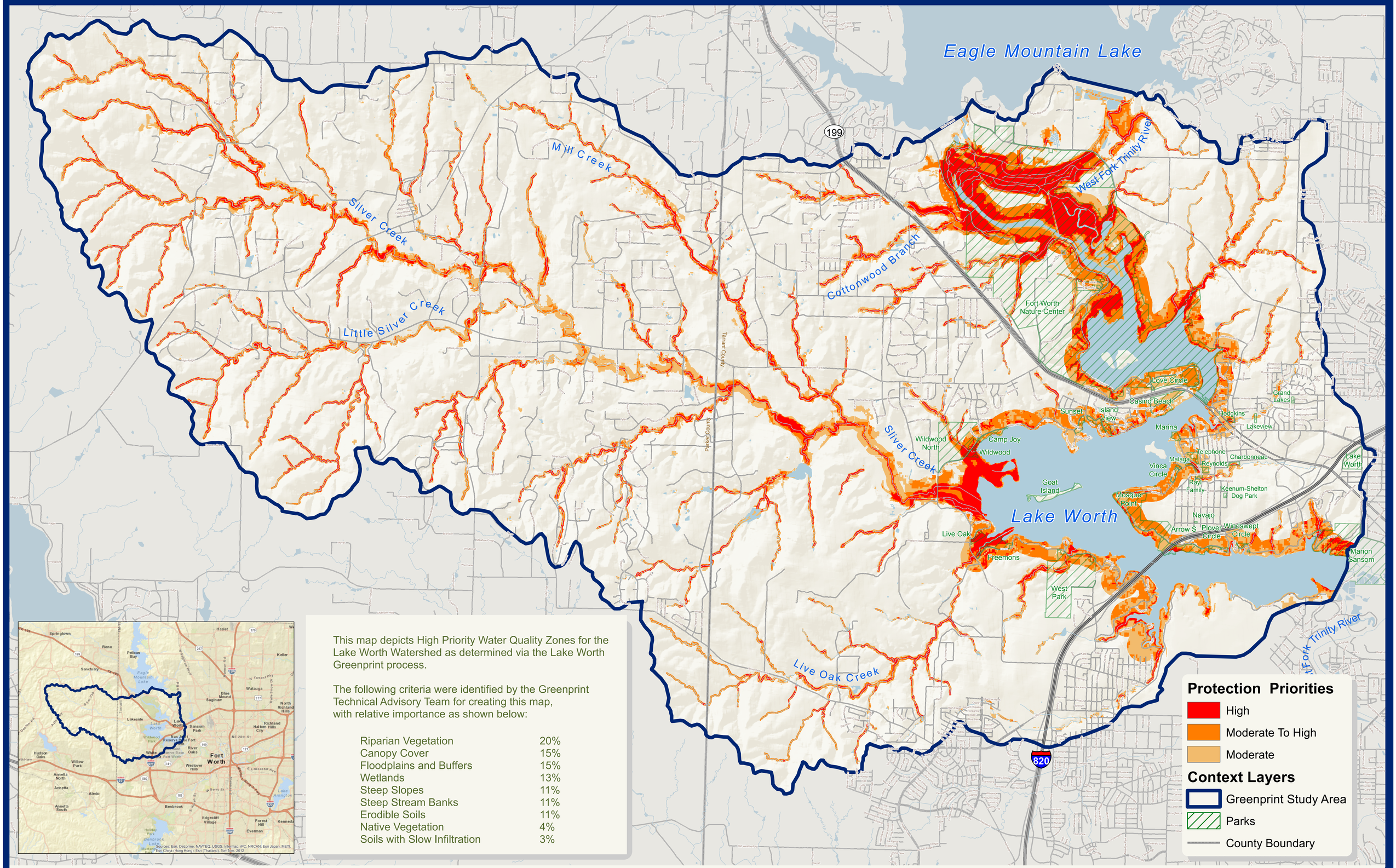
Lake Worth Greenprint - High Priority Water Quality Zones



This map depicts High Priority Water Quality Zones for the Lake Worth Watershed as determined via the Lake Worth Greenprint process.

The following criteria were identified by the Greenprint Technical Advisory Team for creating this map, with relative importance as shown below:

Riparian Vegetation	20%
Canopy Cover	15%
Floodplains and Buffers	15%
Wetlands	13%
Steep Slopes	11%
Steep Stream Banks	11%
Erodible Soils	11%
Native Vegetation	4%
Soils with Slow Infiltration	3%

0 1 2 Miles N

The Trust for Public Land conserves land for people to enjoy as parks, gardens, and other natural places, ensuring livable communities for generations to come.

Objectives for the Lake Worth Greenprint:

1. Develop a long-term vision for a Lake Worth area open space network, and involve stakeholders in the decision-making process.
2. Build upon plans already complete or underway, e.g. trail alignment study for Lake Worth, Lake Worth Vision Plan, and the Lake Worth CIIP.
3. Identify lands most important for lake water quality, as well as other related community driven open space/conservation goals.
4. Help the city and stakeholders evaluate the relative importance of undeveloped land in the watershed.
5. Evaluate tools that can be used to protect Lake Worth's water quality.
6. Provide education about voluntary conservation easements (CEs) and their tax advantages to potential partners to make CE opportunities more widely understood and employed where appropriate.

FORT WORTH

North Central Texas Council of Governments

June 11, 2014
Cartography by Tom Dudley
The Trust for Public Land

The Trust for Public Land
Conserving Land for People