

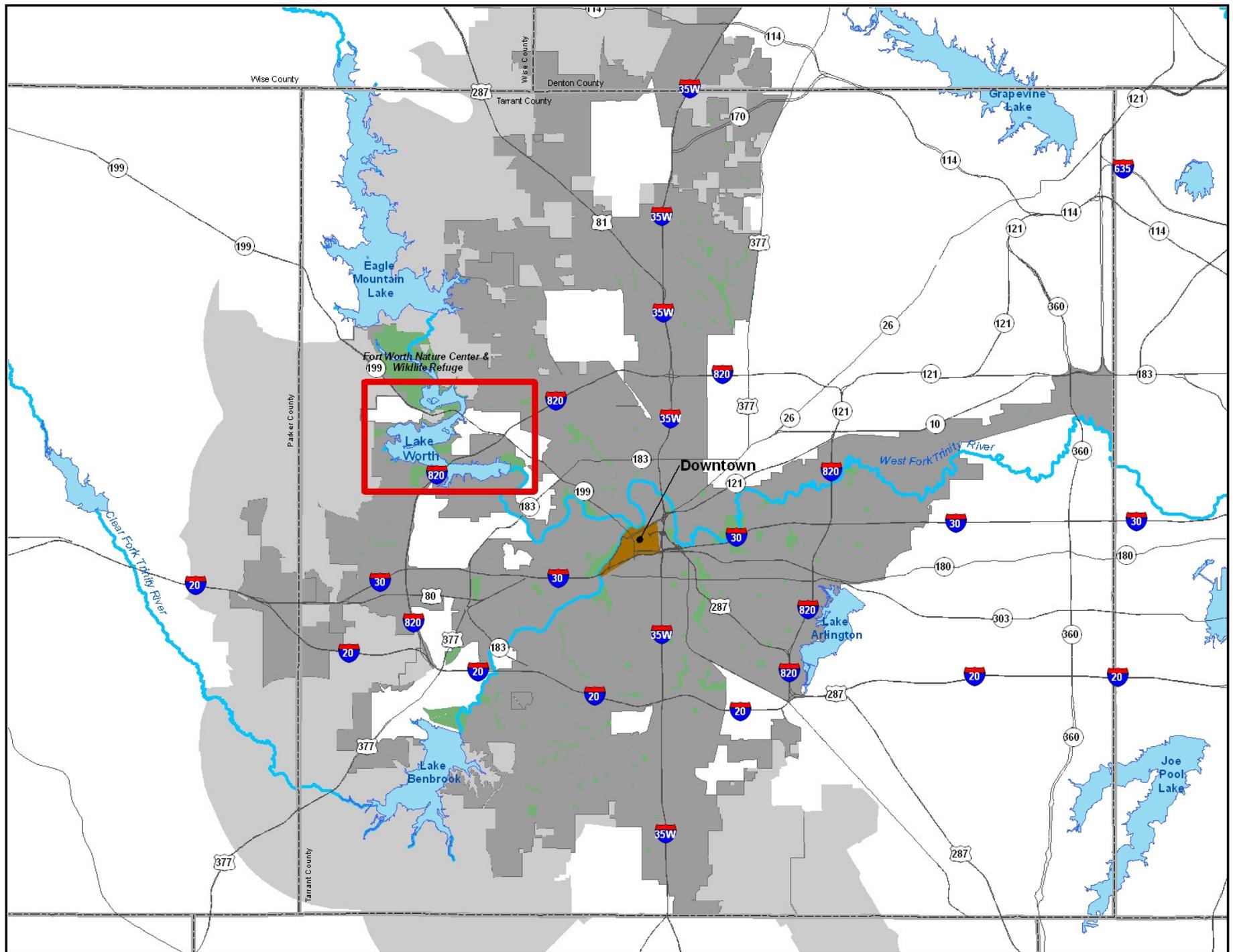
# Lake Worth Vision Plan and Lake Worth Greenprint



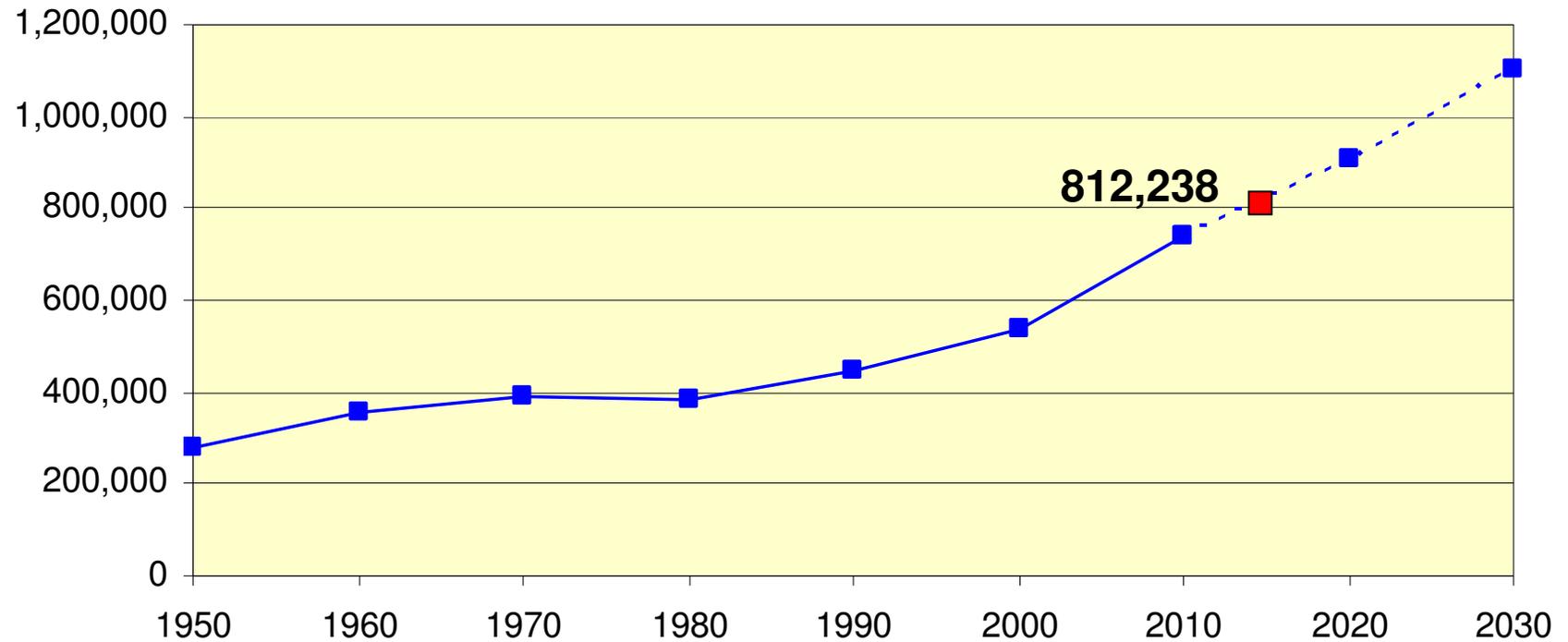
Presented to the  
Water Resources Council

By Eric Fladager, Planning and Development Department

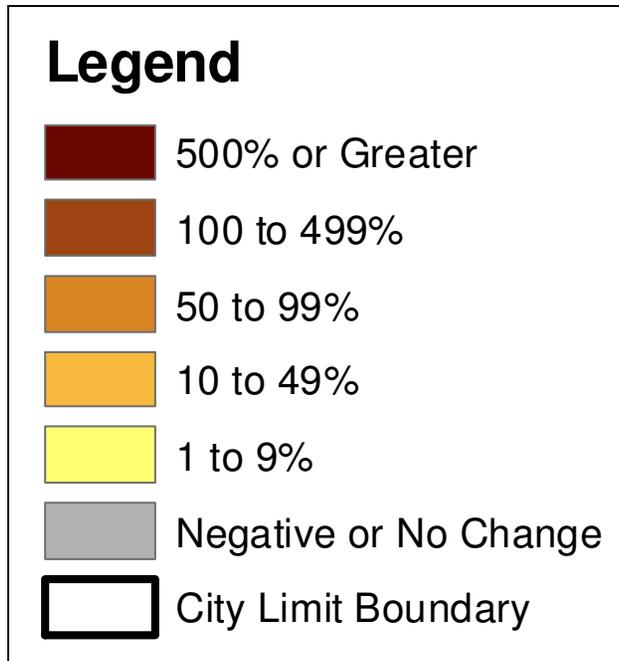
June 11, 2015



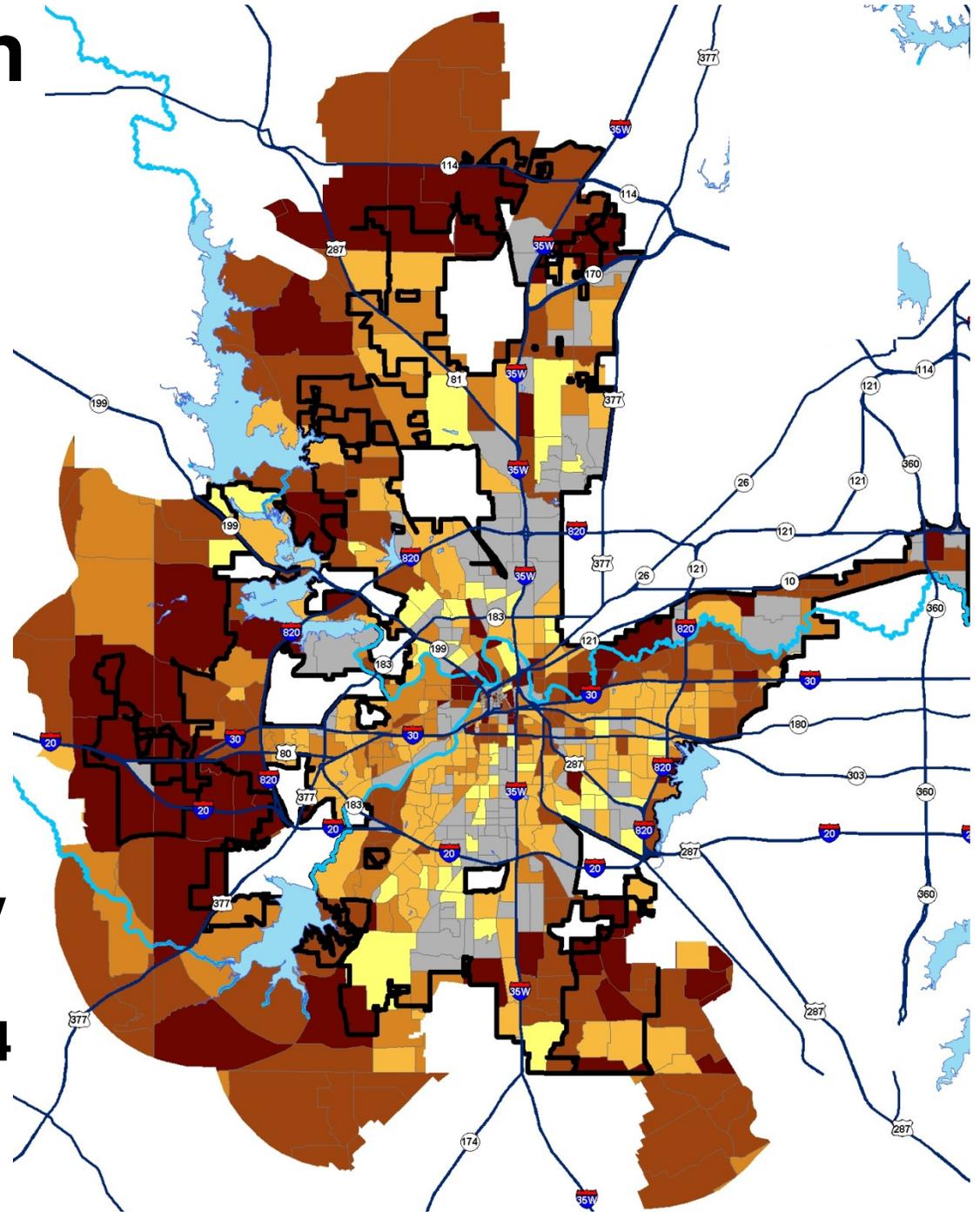
# Population Growth in Fort Worth, 1950-2030



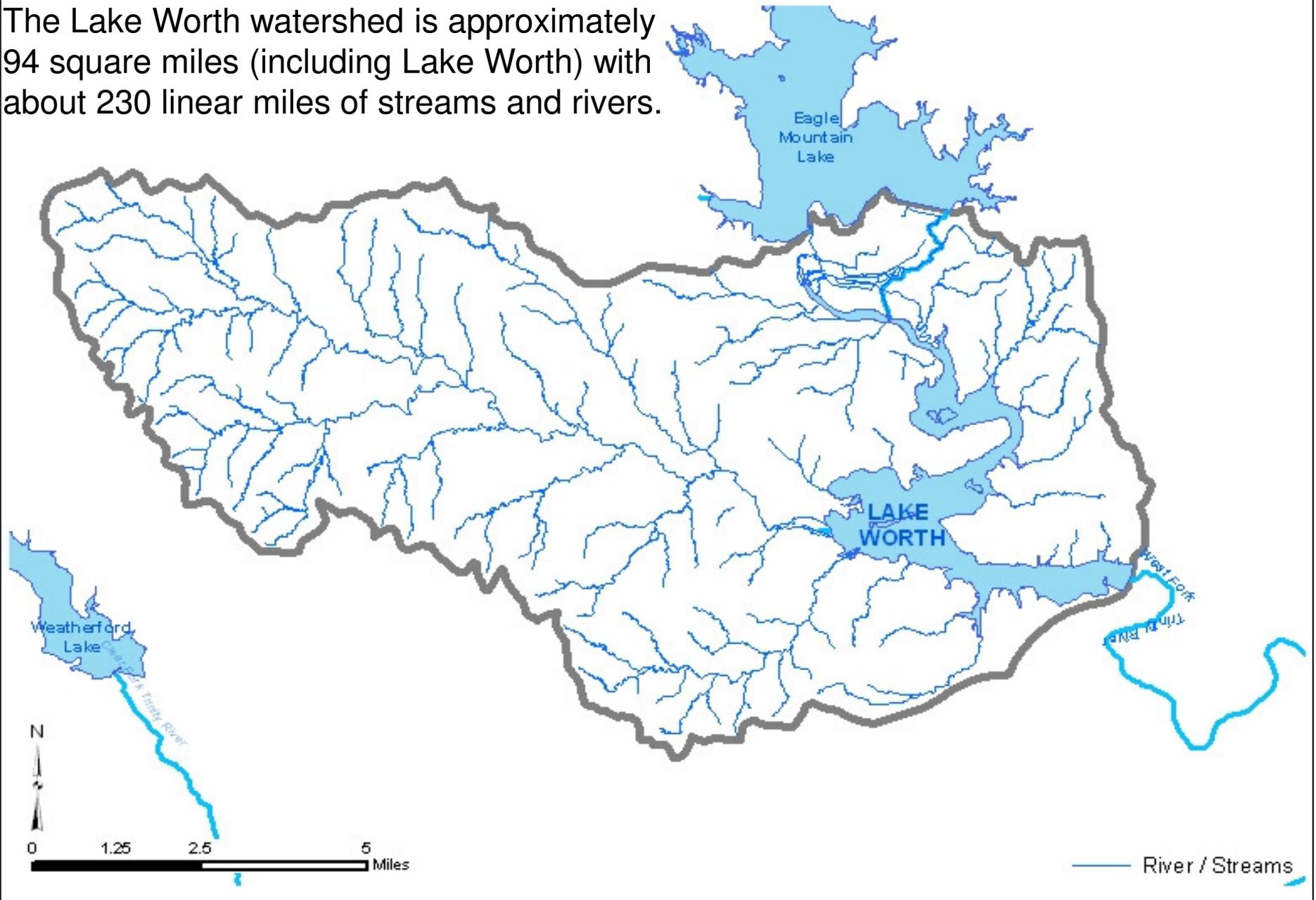
# Projected Growth 2010 to 2040



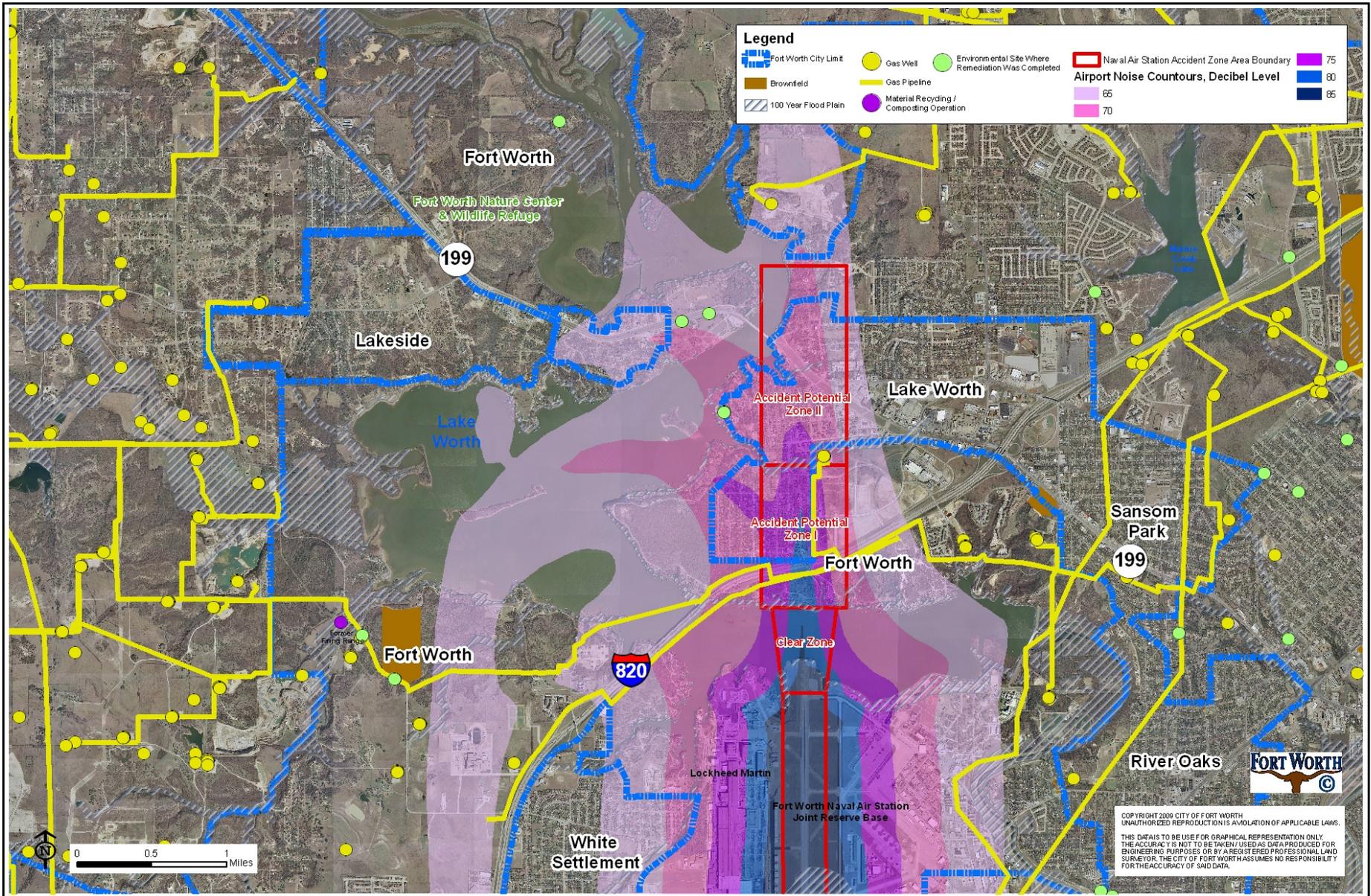
**350 square miles in City  
300+ in ETJ  
812,238 population 2014**



The Lake Worth watershed is approximately 94 square miles (including Lake Worth) with about 230 linear miles of streams and rivers.







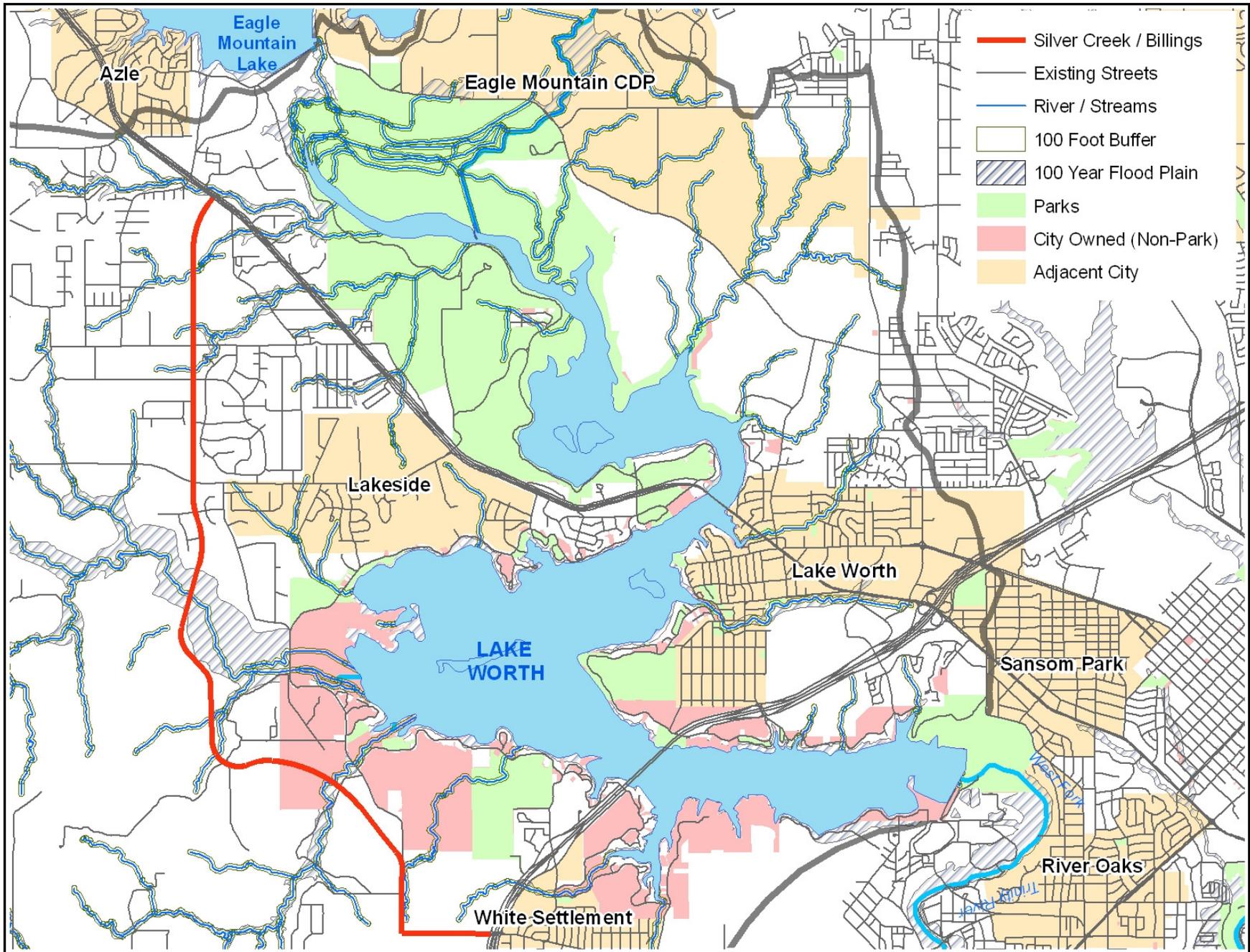
**Legend**

Fort Worth City Limit	Gas Well	Environmental Site Where Remediation Was Completed	Naval Air Station Accident Zone Area Boundary	75
Brownfield	Gas Pipeline		<b>Airport Noise Countours, Decibel Level</b>	80
100 Year Flood Plain	Material Recycling / Composting Operation			85



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 UNAUTHORIZED REPRODUCTION IS VIOLATION OF APPLICABLE LAWS.  
 THIS DATA IS TO BE USED FOR GRAPHICAL REPRESENTATION ONLY.  
 THE ACCURACY IS NOT TO BE TAKEN AS DATA PRODUCED FOR  
 ENGINEERING PURPOSES OR BY A REGISTERED PROFESSIONAL LAND  
 SURVEYOR. THE CITY OF FORT WORTH ASSUMES NO RESPONSIBILITY  
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# Lake Worth Vision Plan Goals

- Work with a broad range of Lake Worth stakeholders to **determine a shared vision** for the future of Lake Worth.
- Describe and depict the most appropriate **future land use plan, development pattern and forms, and recreational uses and facilities** on and around Lake Worth.



# Lake Worth Vision Plan Stakeholders



## Neighborhood Associations

Scenic Shores Neighborhood Association

Neighborhood Association on South Lake Worth

East Lake Worth Neighborhood Association

North Lake Worth Neighborhood Association

Lake Worth Alliance



## Recreational Users

Boy Scouts of America

Fort Worth Mountain Bike Association

Hip Pocket Theatre

Lake Worth Boat & Ski Club

Lake Worth Sailing Club

Lockheed Martin Recreation Association

Bicycle Club

# Lake Worth Vision Plan Stakeholders



## Local Governments

Town of Lakeside

City of Lake Worth

City of River Oaks

City of Sansom Park

City of White Settlement

Eagle Mountain-Saginaw ISD

Tarrant County

## Other Agencies

Lockheed Martin Aeronautics Company

NAS JRB

North Central Texas Council of  
Governments

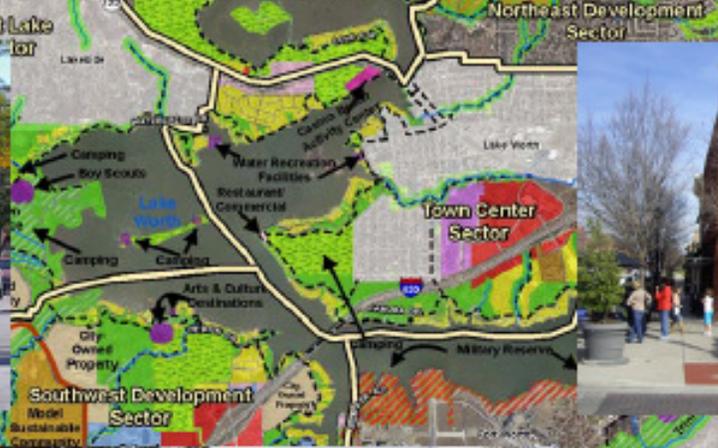
Streams and Valleys, Inc.



# Lake Worth Vision Plan

## Four Principles

1. Protect and enhance Lake Worth's water quality, natural beauty, and recreational character.
2. Develop Model Sustainable Communities in the Lake Worth area that create desirable places to live and work while enhancing livability of existing communities.
3. Create Lake Worth Regional Park, a linear park that encompasses the lake and provides high-quality recreational amenities and cultural hubs.
4. Connect communities, resources, and amenities with parkways, greenways, and trails.

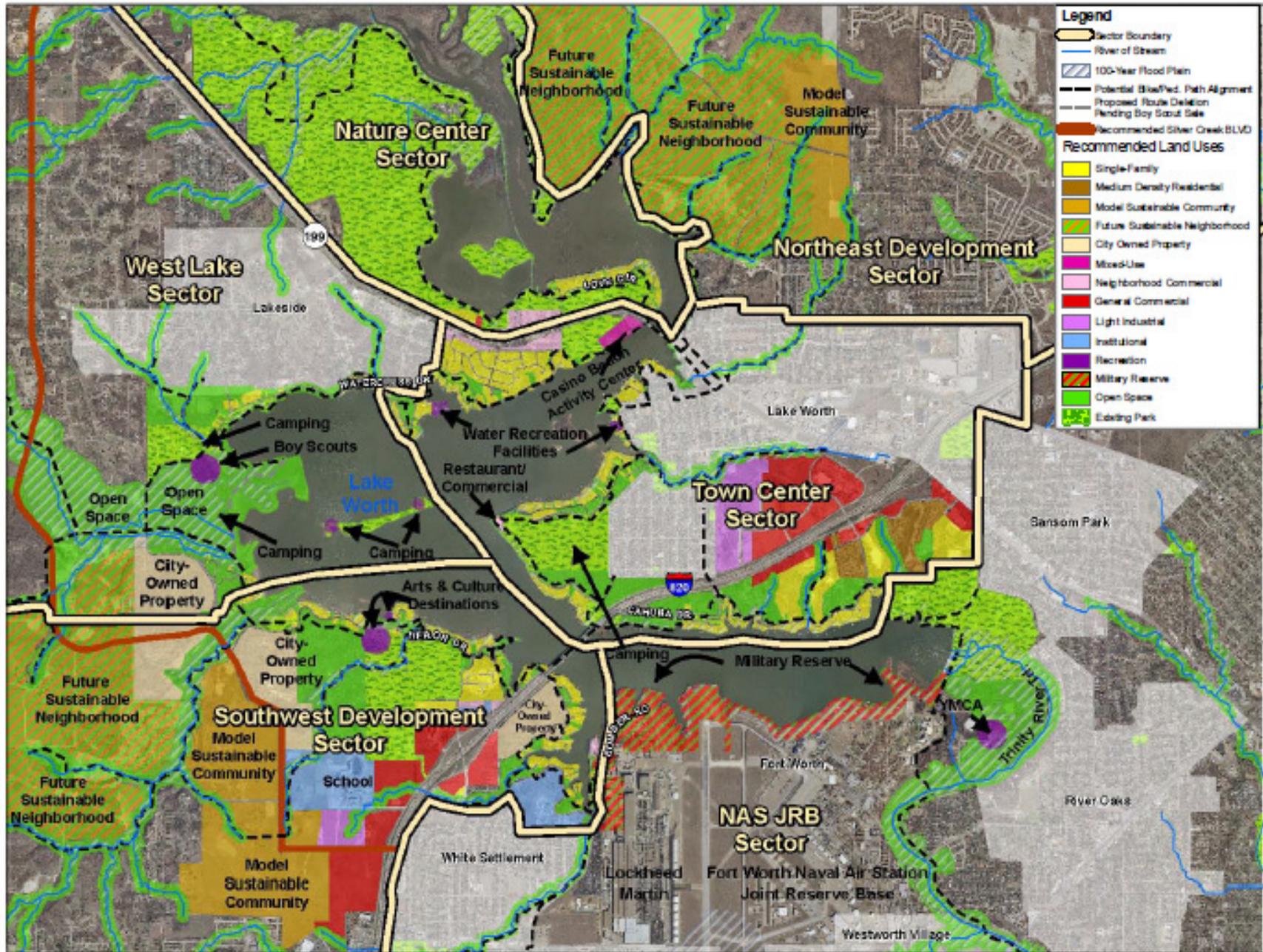


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# LAKE WORTH VISION PLAN 2011

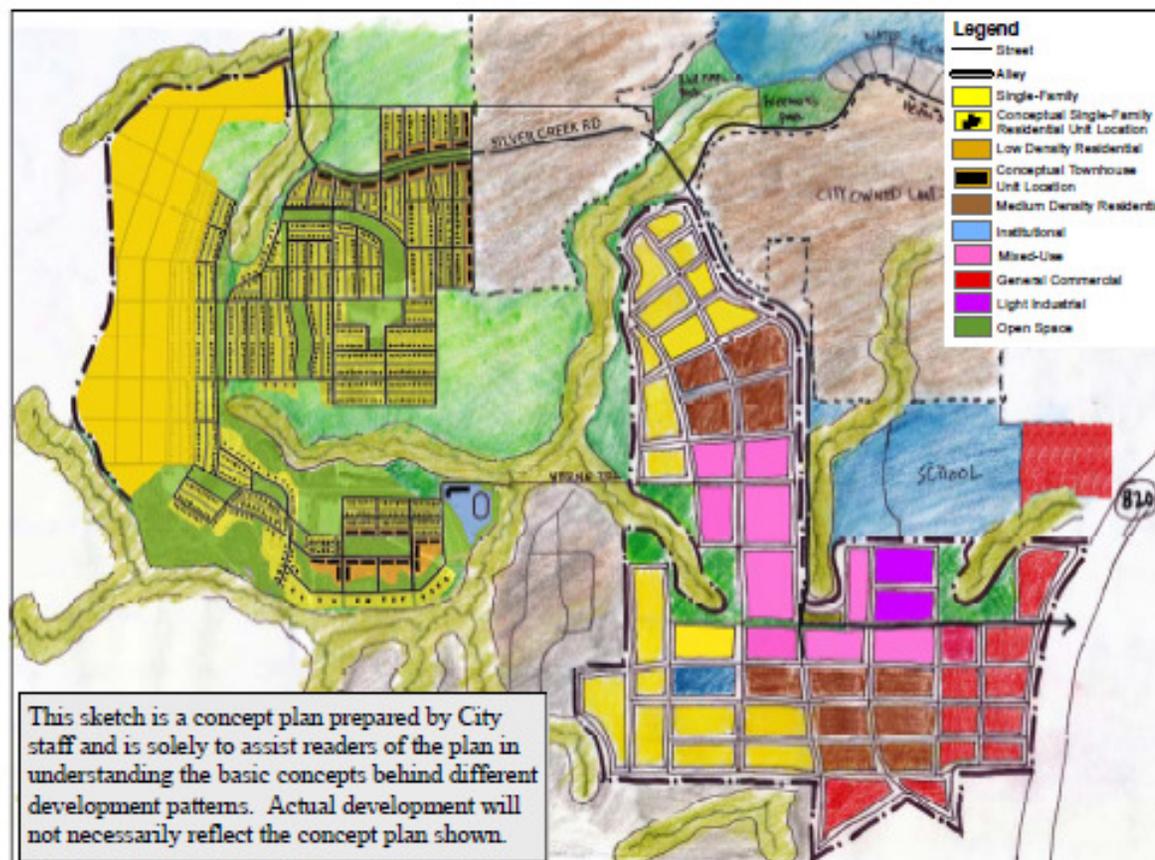


# Lake Worth Vision Plan Sectors



### Southwest Development Sector (cont.)

The City of Fort Worth owns a large tract of land between the high school and the lake. This 320-acre area was initially identified as open space in the consultant's Great Park Scenario, and then as a combination of open space and a Model Sustainable Community in the Sustainable Future Scenario. The consultant team recommended that one or more Model Sustainable Communities be developed on City-owned land. The City-owned tract north of the high school is one of two locations where this recommendation could be implemented. (The other City-owned location straddles the boundary between the Southwest Development Sector and the West Lake Sector, north and west of the Silver Creek Road/Parkway crossing of Live Oak Creek.) A portion of the 320-acre tract is shown as open space directly west of West Park. The Water Department has retained a consultant to perform a land disposition and trail alignment study for City-owned property around Lake Worth. These large tracts will be included in that study, which is to be completed in 2011.



Concept plan sketch of potential Model Sustainable Community and Sustainable Neighborhood in Southwest Development Sector

Model Sustainable Communities are intended to serve as a showcase of Low-Impact Development techniques to control and filter storm water runoff before it reaches Fort Worth's raw drinking water supply in Lake Worth. In addition, Model Sustainable Communities are expected to demonstrate sustainable community design principles, such as mixed-use neighborhood centers, connected and pedestrian-friendly street grids, provision of a broad range of housing choices, and off-street pathway linkages between neighborhoods and nearby destinations such as schools, shopping, and Lake Worth's lakeshore path. Model Sustainable Communities are expected to retain and protect significant trees and woodland areas, preserve and enhance riparian buffers along drainage ways, and co-locate off-street paths alongside or within creek buffers.

## Southwest Development Sector (cont.)

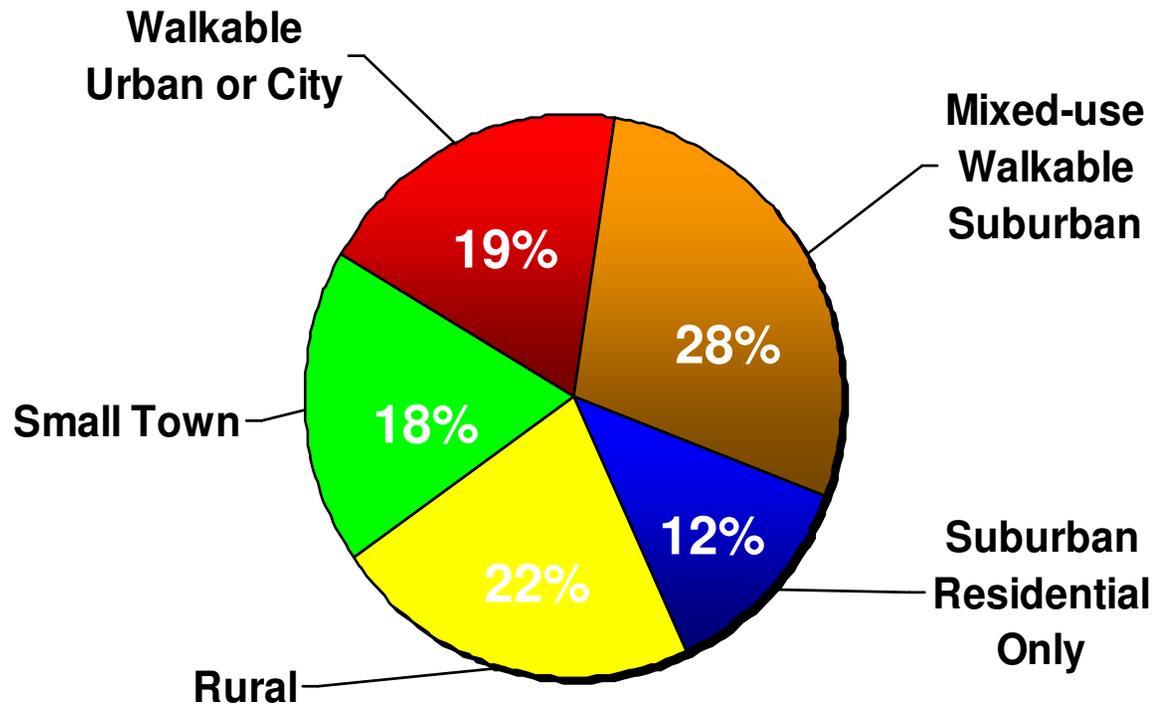
The Southwest Development Sector contains two Model Sustainable Communities located along Silver Creek Road (which could be re-named Silver Creek Parkway or Lake Worth Parkway upon reconstruction, if Recommendation 4.1(b) on Page 78 is implemented). Silver Creek/Lake Worth Parkway may be realigned somewhat to take advantage of topography and to provide better access to the proposed Model Sustainable Communities. The road is envisioned as a relatively low-speed, four-lane divided parkway, within a broad park-like right-of-way containing parallel off-street bicycle-pedestrian paths. Where the parkway passes through Model Sustainable Community neighborhood centers, context-sensitive street design is expected to dictate a modified street cross-section that reflects the needs of a walkable urban neighborhood center. These communities would incorporate one or more walkable mixed-use village cores surrounded by appropriate medium to lower density residential neighborhoods connected to the lake via bike and walking trails. Public streets are envisioned along the exterior boundaries of the Southwest Development Sector's Model Sustainable Communities to provide distinct edges to the community and to enhance public access to adjacent parks, open space, and creekside riparian buffers/greenways.

The concept plan sketch on the previous page depicts one possible development scenario that reflects both the Model Sustainable Community and Sustainable Neighborhood approaches. East of Live Oak Creek, the sketch depicts a walkable street grid that takes advantage of the relatively flat topography of this site, while framing potential locations for commercial and mixed-use development, medium-density housing, and lower density subdivisions. The more active mixed-use core of the community is centered around the intersection of Silver Creek Road and Verna Trail, but the activity core could extend eastward along Silver Creek Road toward Loop 820. At the Loop 820 interchange, general commercial and perhaps some well designed light industrial are planned by the landowner.

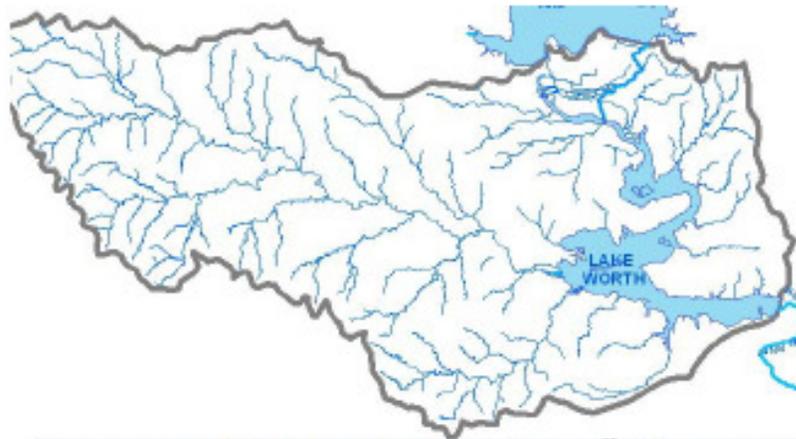


Examples of Model Sustainable Communities

# Consumer Preferences: Pent Up Demand For Walkable Places

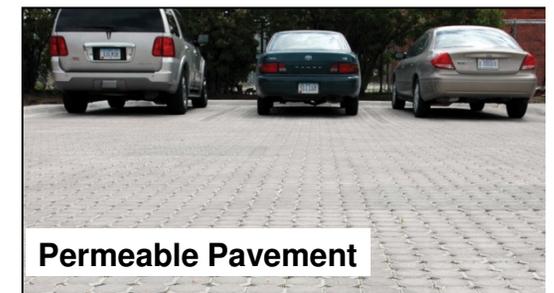


**47%** of those surveyed identified ideal communities as having a **mix** of residences, **places to walk**, and amenities within an easy walk or close drive



## PART FOUR: PRINCIPLES, RECOMMENDATIONS, AND IMPLEMENTATION

# Low-Impact Development

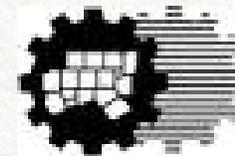




# **The Lake Worth Greenprint Results**

**Project Summary**

**December 19, 2014**



North Central Texas  
Council of Governments

# Priority Lands Analysis: Greenprint Mapping



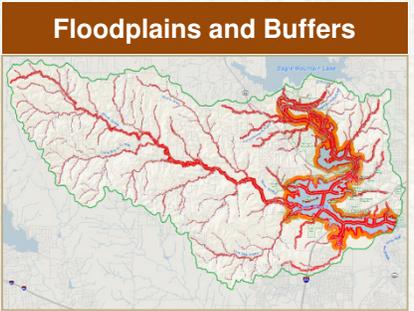
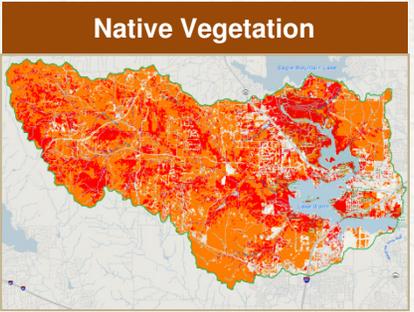
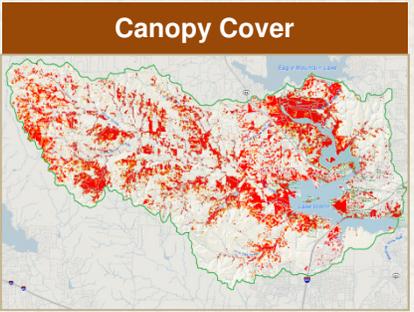
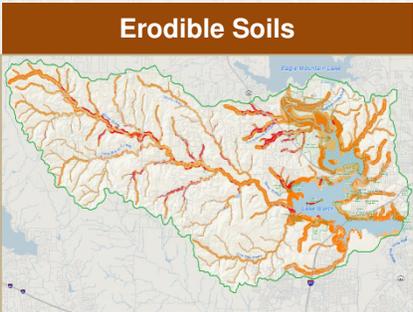
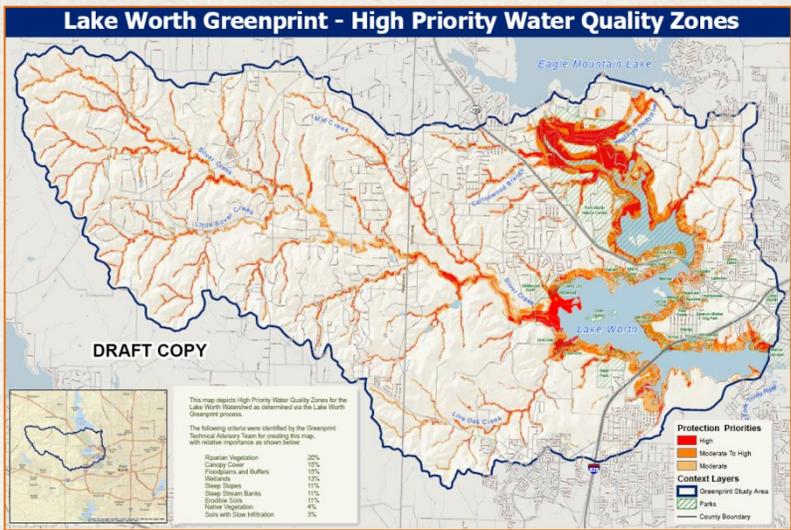
# Technical Advisory Teams

## **TAT 1: Improve Water Quality and Quantity**

Brett McGuire – City of Lake Worth  
Clair Davis – Fort Worth, Flood Plains  
Eric Fladager – Fort Worth, Planning  
Ranjan Muttiah – Fort Worth, Stormwater  
Paul Bounds – Fort Worth, Water  
Rachel Wiggins – NAS Joint Reserve Base  
Tracy Michel – NCTCOG  
Kyle Wright – NRCS  
George Conley – Parker County  
Alice Moore – Tarrant County  
Mark Ernst – Tarrant Regional Water District  
Tina Hendon – Tarrant Regional Water District  
Bill Fox – Texas AgriLife  
Ken Klaveness – Trinity Waters  
Lou Brewer – Tarrant County Public Health

## **TAT 2: Provide Recreation**

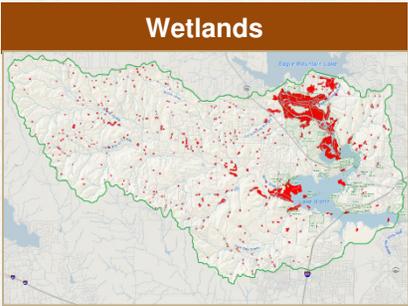
Randy Whiteman – City of Lakeside  
Brett McGuire – City of Lake Worth  
Clair Davis – Fort Worth, Flood Plains  
Nikki Sopchak – Fort Worth, Parks & Community Services  
Eric Seebock – Fort Worth, Parks & Community Services  
Paul Bounds – Fort Worth, Water  
Suzanne Tuttle – Fort Worth Nature Center  
Rachel Wiggins – NAS Joint Reserve Base  
Kyle Wright – NRCS  
Tracy Michel – NCTCOG  
Alice Moore – Tarrant County  
Lou Brewer – Tarrant County Public Health



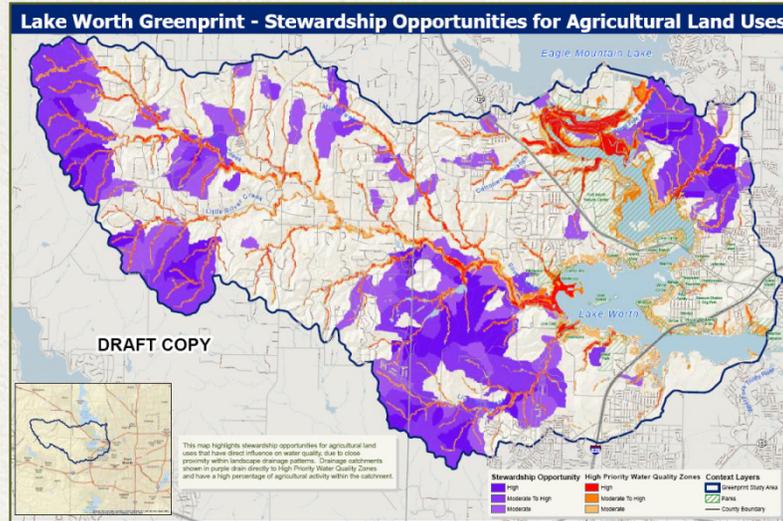
### Relative Weighting by Function

- Nutrient uptake**  
 Riparian vegetation 20%  
 Wetlands 13%  
**Erosion prevention**  
 Steep Stream banks 11%  
 Erodible Soils 11%  
 Steep slopes 11%

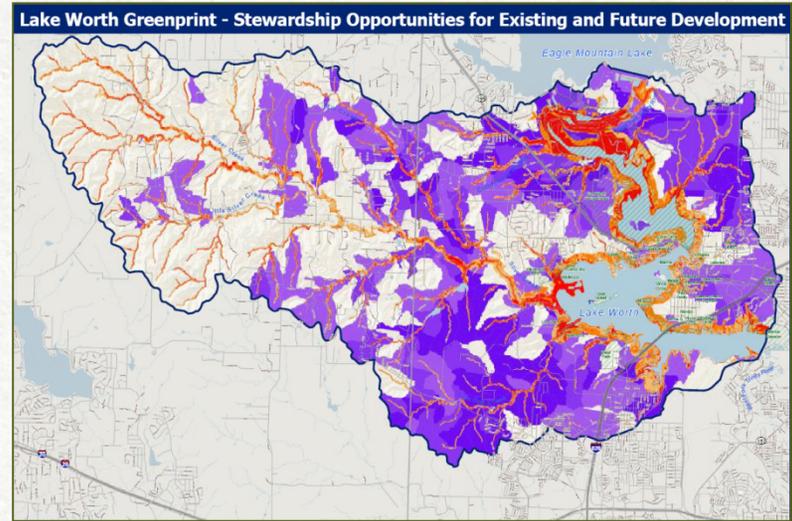
- Multiple Benefits**  
 Canopy Cover 15%  
 Native Vegetation 4%  
 Floodplains and Buffers 15%



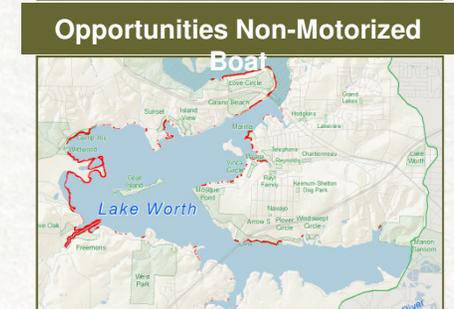
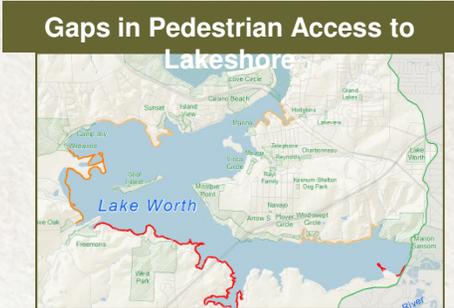
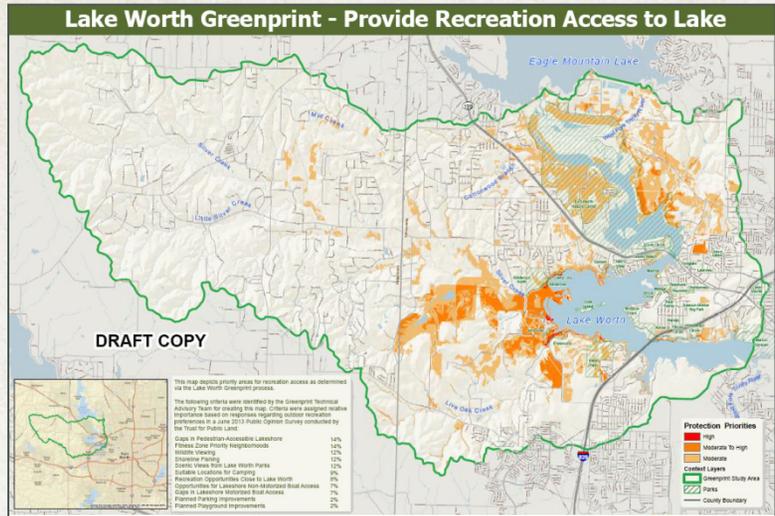
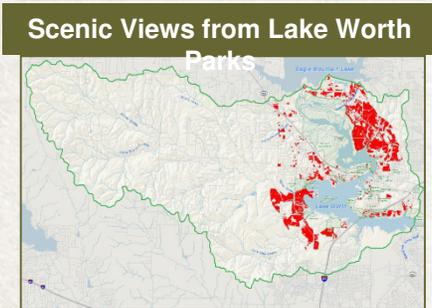
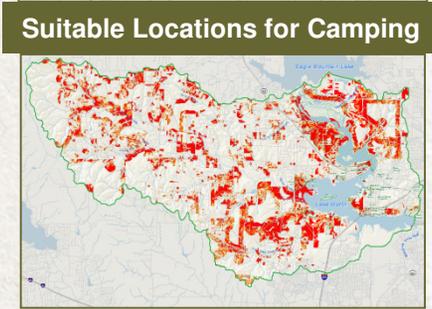
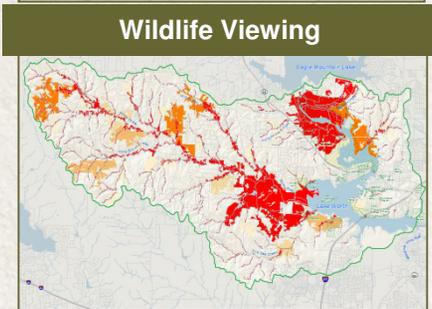
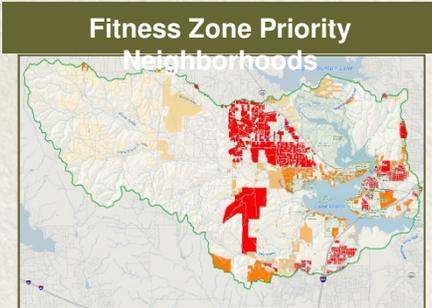
# Stewardship Opportunities



**Stewardship Opportunities for Agricultural Land Uses**



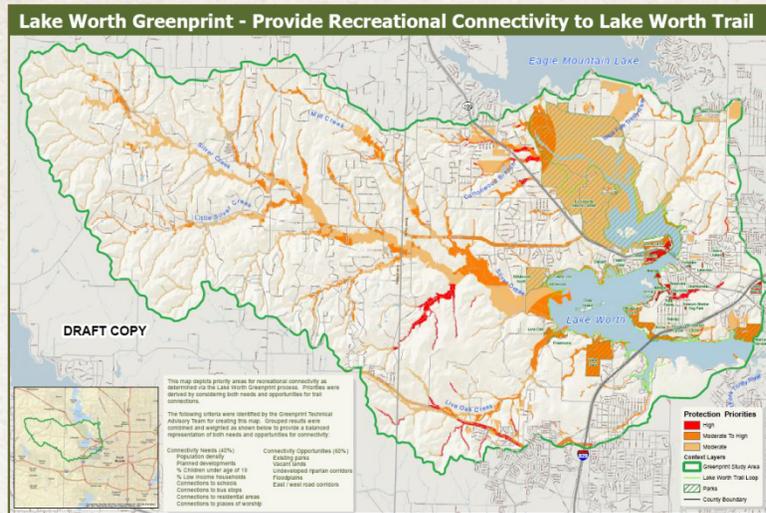
**Stewardship Opportunities Existing and Future Development**



## Relative Weighting based on Outdoor Recreation Preferences Survey June 2013

- Gaps in Pedestrian-Accessible Lakeshore 14%
- Fitness Zone Priority Neighborhoods 14%
- Wildlife Viewing 12%
- Opportunities for Shoreline Fishing 12%
- Scenic Views from Lake Worth Parks 12%
- Suitable Locations for Camping 9%
- Recreation Opportunities Close to Lake Worth 8%
- Opportunities for Lakeshore Non-Motorized Boat Access 7%
- Gaps in Lakeshore Motorized Boat Access 7%
- Planned Parking Improvements 2%
- Planned Playground Improvements 2%





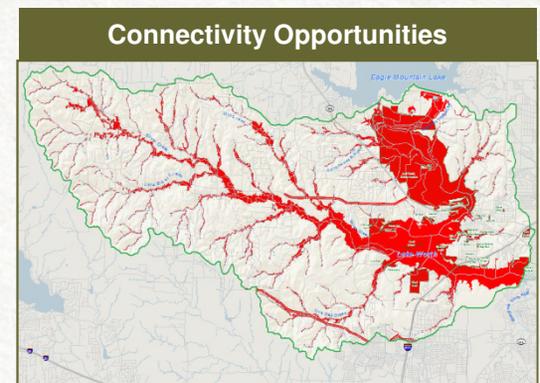
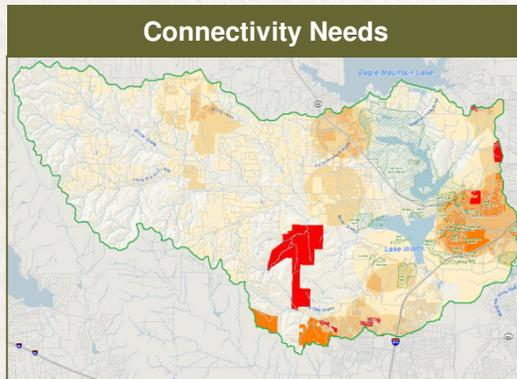
## Connectivity Needs and Opportunities

### Connectivity Needs (40%)

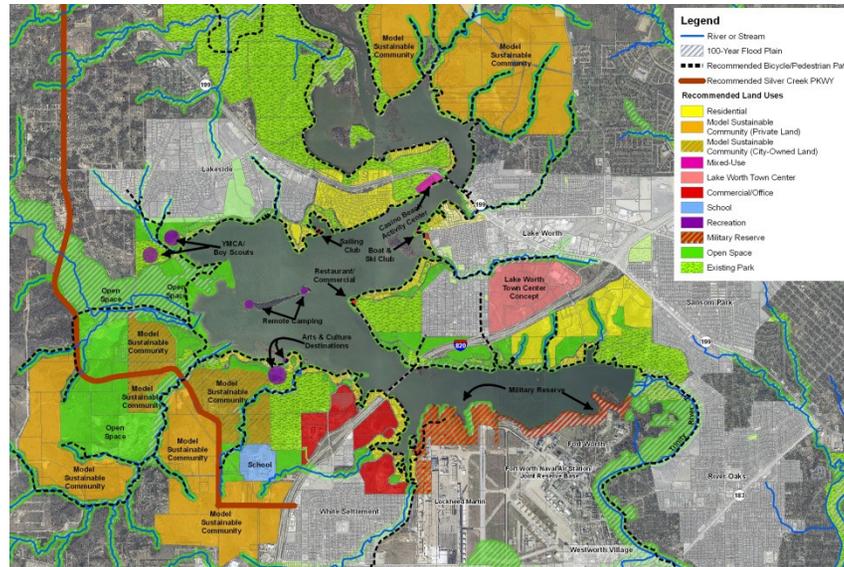
- Population density
- Planned developments
- % Children under age of 19
- % Low income households
- Connections to schools
- Connections to bus stops
- Connections to residential areas
- Connections to places of worship

### Connectivity Opportunities (60%)

- Existing parks
- Vacant lands
- Undeveloped riparian corridors
- Floodplains
- East / west road corridors



# FORT WORTH



## Questions? Comments?

**Planning and Development Department Contacts:**

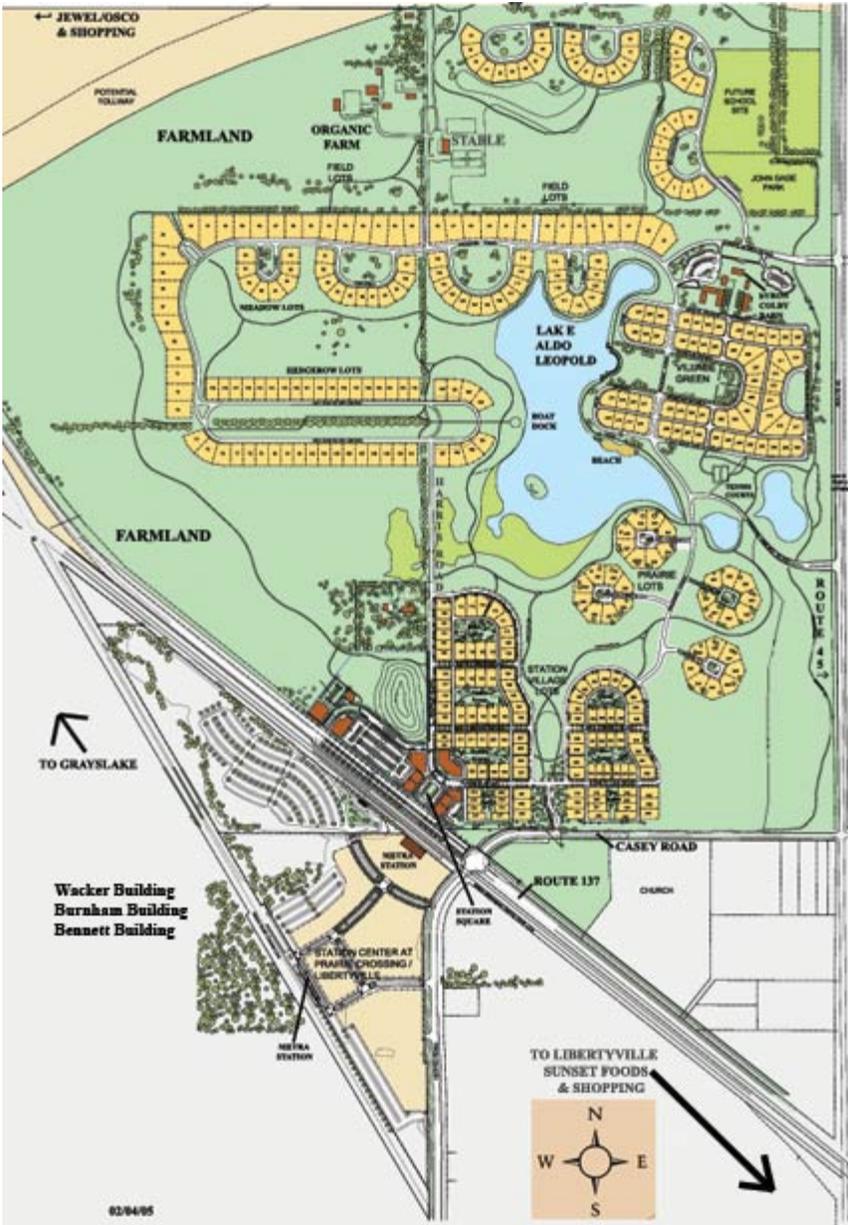
**Eric Fladager, Comprehensive Planning Manager, 817-392-8011**

**Felix Landry, Senior Planner, 817-392-8045**

<http://fortworthtexas.gov/planninganddevelopment/misc.aspx?id=70200>



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