The Population of Texas: Characteristics and Trends and Infrastructure

International Right-of-Way Association

and

The Appraisal Institute

Austin, Texas

June 29, 2016

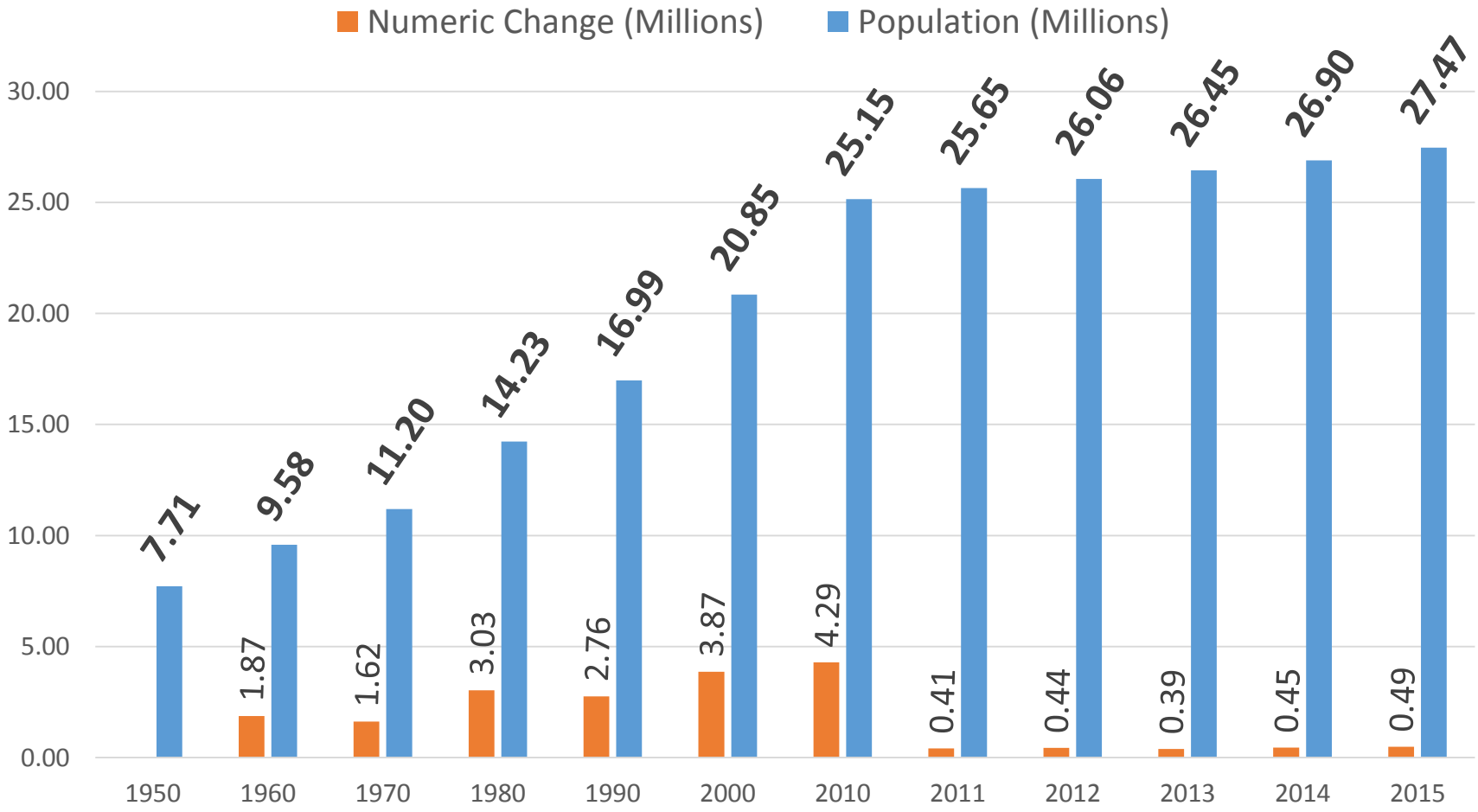
TEXAS DEMOGRAPHIC CENTER

@TexasDemography

Overview

- Texas demographics
- Population growth
- Race and ethnic trends
- Migration
- Population projections
- Infrastructure demands

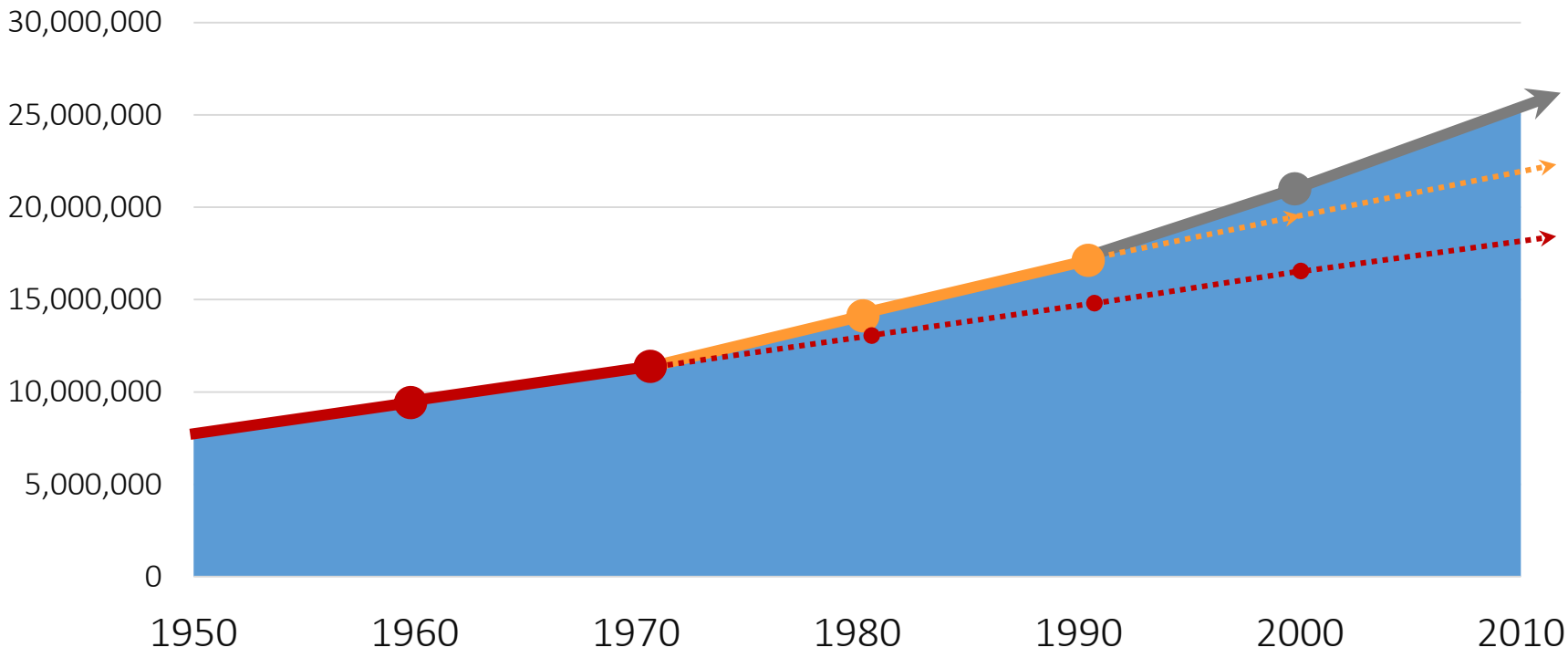
Total Population and Components of Population Change in Texas, 1950-2014



All values for the decennial dates are for April 1st of the indicated census year. Values for 2012-2014 are for July 1 as estimated by the U.S. Census Bureau.

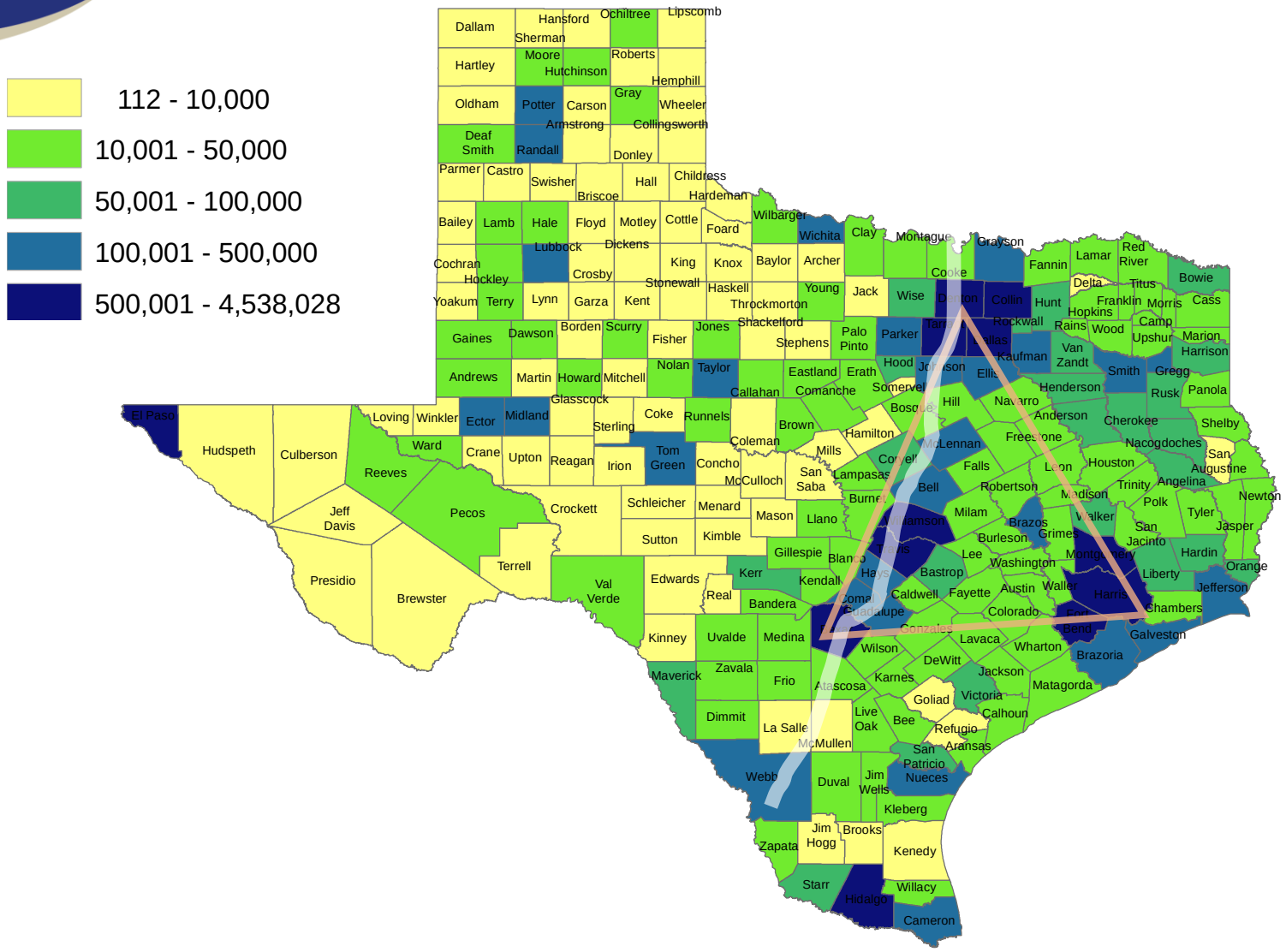
Source: U.S. Census Bureau, Census Counts and Population Estimates

Population Growth, Texas, 1950-2010



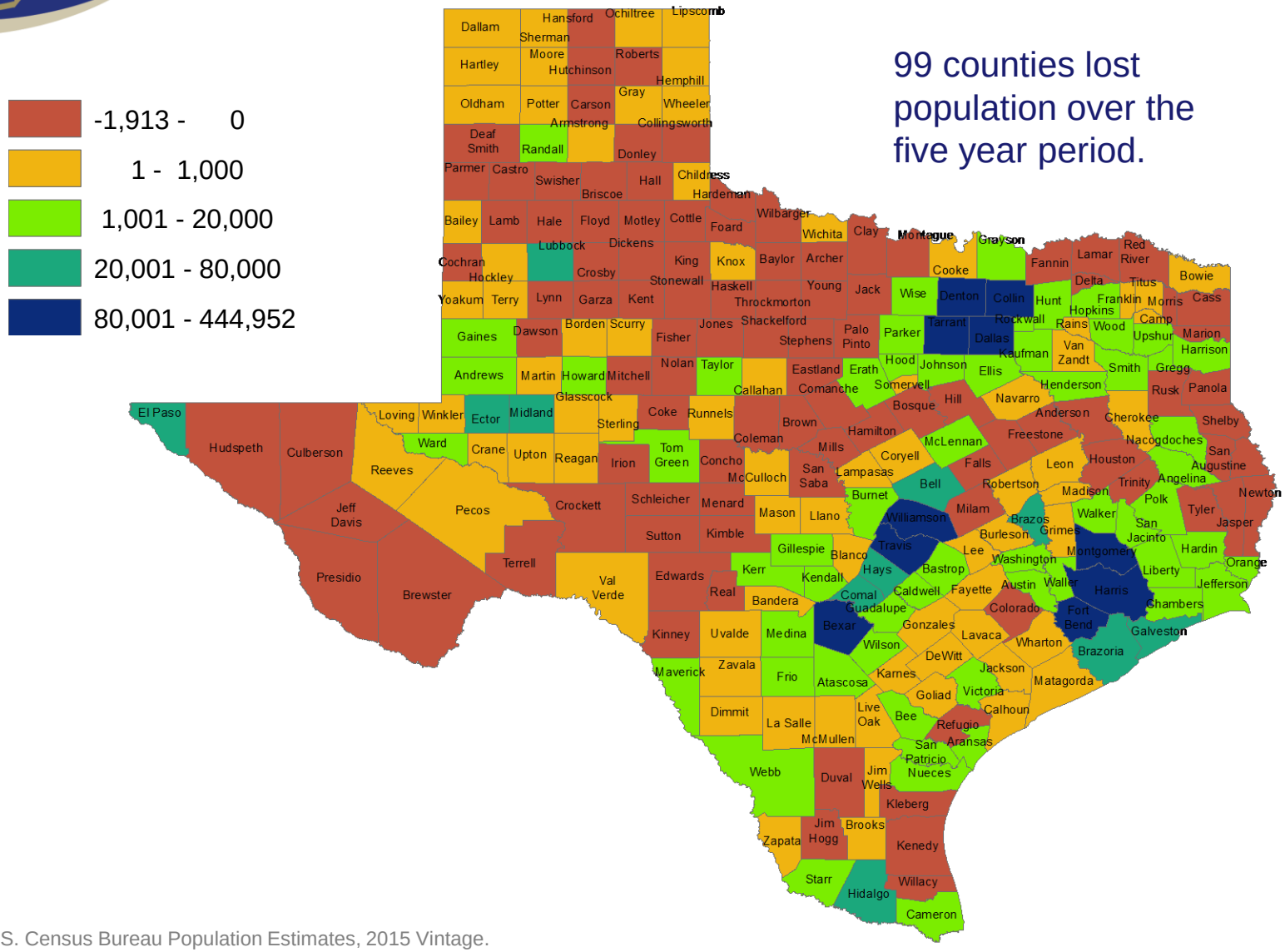
Source: U.S. Census Bureau, Decennial Censuses

Total Estimated Population by County, Texas, 2015



Source: U.S. Census Bureau, 2015 Vintage Population Estimates

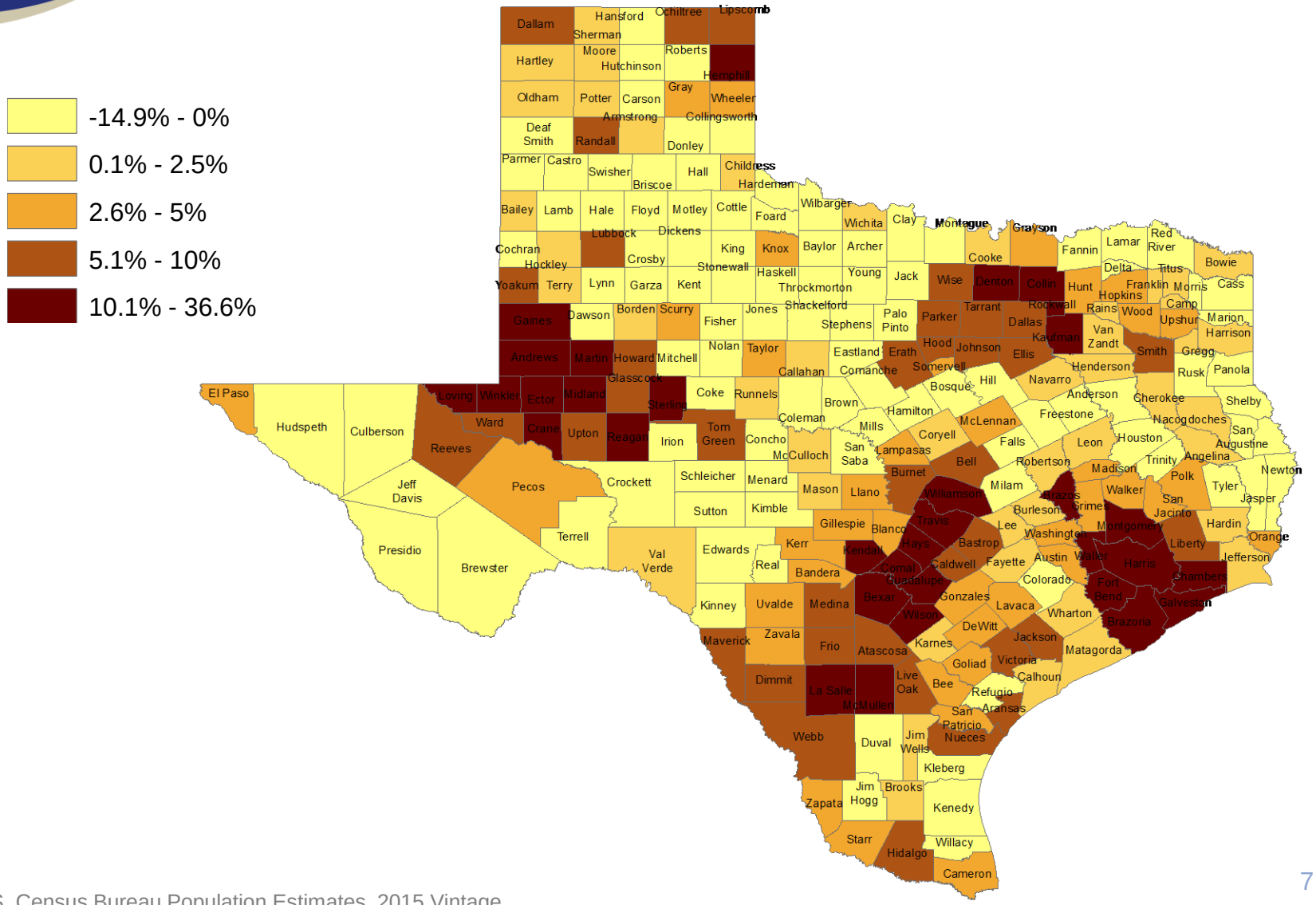
Estimated Population Change, Texas Counties, 2010 to 2015



99 counties lost population over the five year period.

Source: U.S. Census Bureau Population Estimates, 2015 Vintage.

Estimated Percent Change of the Total Population by County, Texas, 2010 to 2015



Source: U.S. Census Bureau Population Estimates, 2015 Vintage.

Top Counties for Numeric Growth in Texas, 2014-2015

County	U.S. Rank Population Change	Population Change	Percent of Change from Natural Increase	Percent Change from Migration	Percent Change from International Migration
Harris	1	90,451	49.3%	50.7%	32.0%
Bexar	5	37,479	41.2%	58.8%	17.0%
Tarrant	6	36,152	46.3%	53.7%	20.2%
Dallas	9	33,760	68.1%	31.9%	39.0%
Fort Bend	13	29,437	20.7%	79.3%	16.5%
Collin	14	28,075	24.8%	75.2%	15.8%
Denton	16	25,820	25.5%	74.5%	11.7%
Travis	17	25,562	42.5%	57.5%	22.9%
Williamson	27	19,086	20.9%	79.1%	6.7%
Montgomery	29	18,505	19.2%	80.8%	9.9%

*Dallas had net out domestic migration over this period.

Source: U.S. Census Bureau, 2015 Vintage Population Estimates

Top Counties for Percent Growth* in Texas, 2014-2015

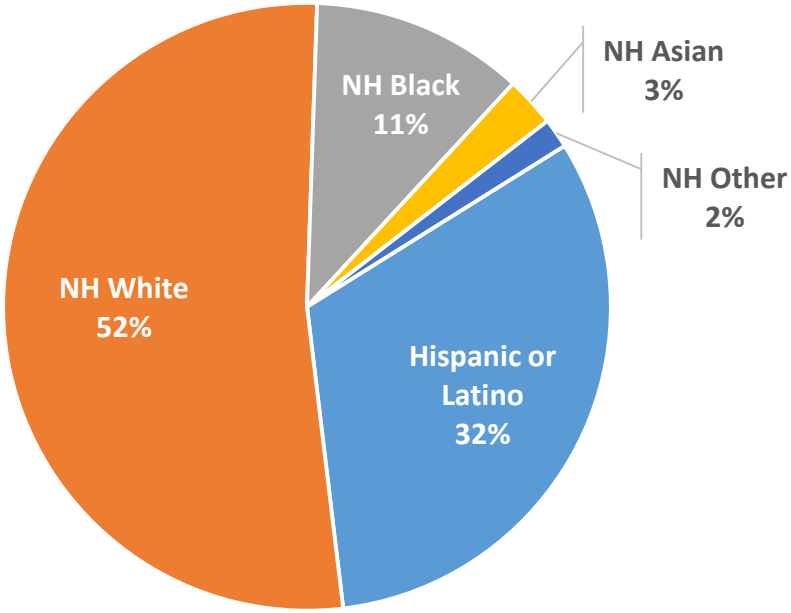
County	U.S. Rank	2014-2015 Percent Population Change	Percent Change from Migration	Percent Change from International Migration
Hays	1	5.2%	85.5%	1.9%
Comal	2	4.5%	90.7%	2.1%
Fort Bend	4	4.3%	79.3%	16.5%
Williamson	7	3.9%	79.1%	6.7%
Montgomery	10	3.6%	80.8%	9.9%
Denton	12	3.4%	74.5%	11.7%
Ector	18	3.3%	63.1%	3.1%
Midland	19	3.3%	66.2%	3.2%
Collin	23	3.2%	75.2%	15.8%
Kaufman	25	3.1%	79.8%	3.2%
Parker	29	2.8%	89.8%	2.2%
Brazos	32	2.8%	69.2%	27.4%
Guadalupe	38	2.7%	78.8%	4.6%
Ellis	39	2.7%	77.2%	2.7%

*Among Counties with 10,000 or more population in 2014

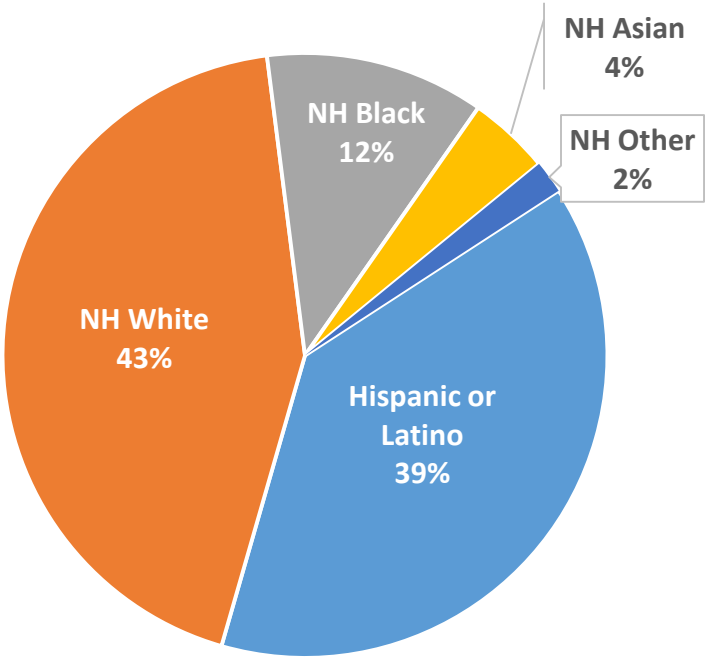
Source: U.S. Census Bureau, 2015 Vintage Population Estimates

Percent Population by Race and Ethnicity, Texas, 2000 and 2014

2000

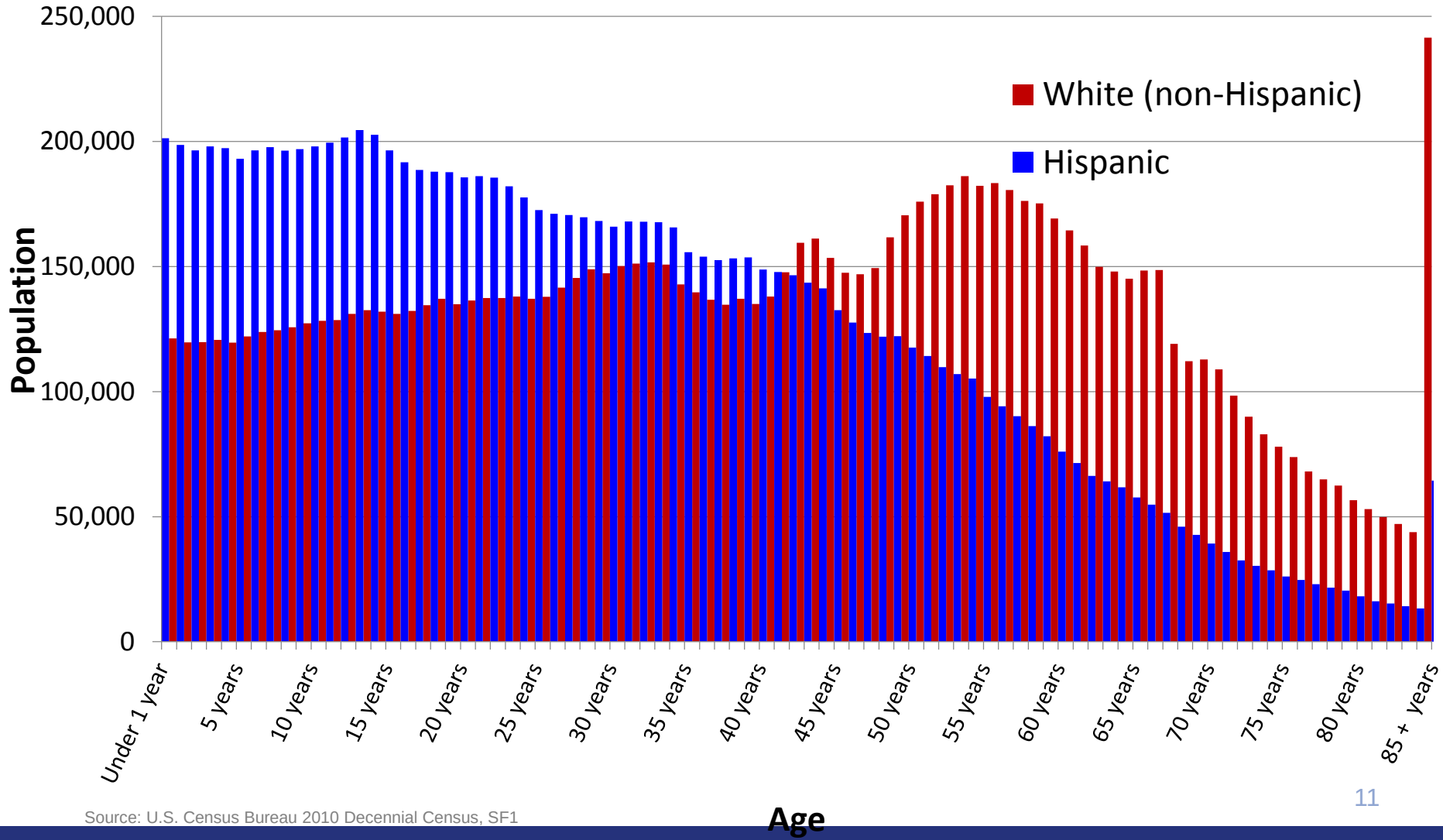


2014



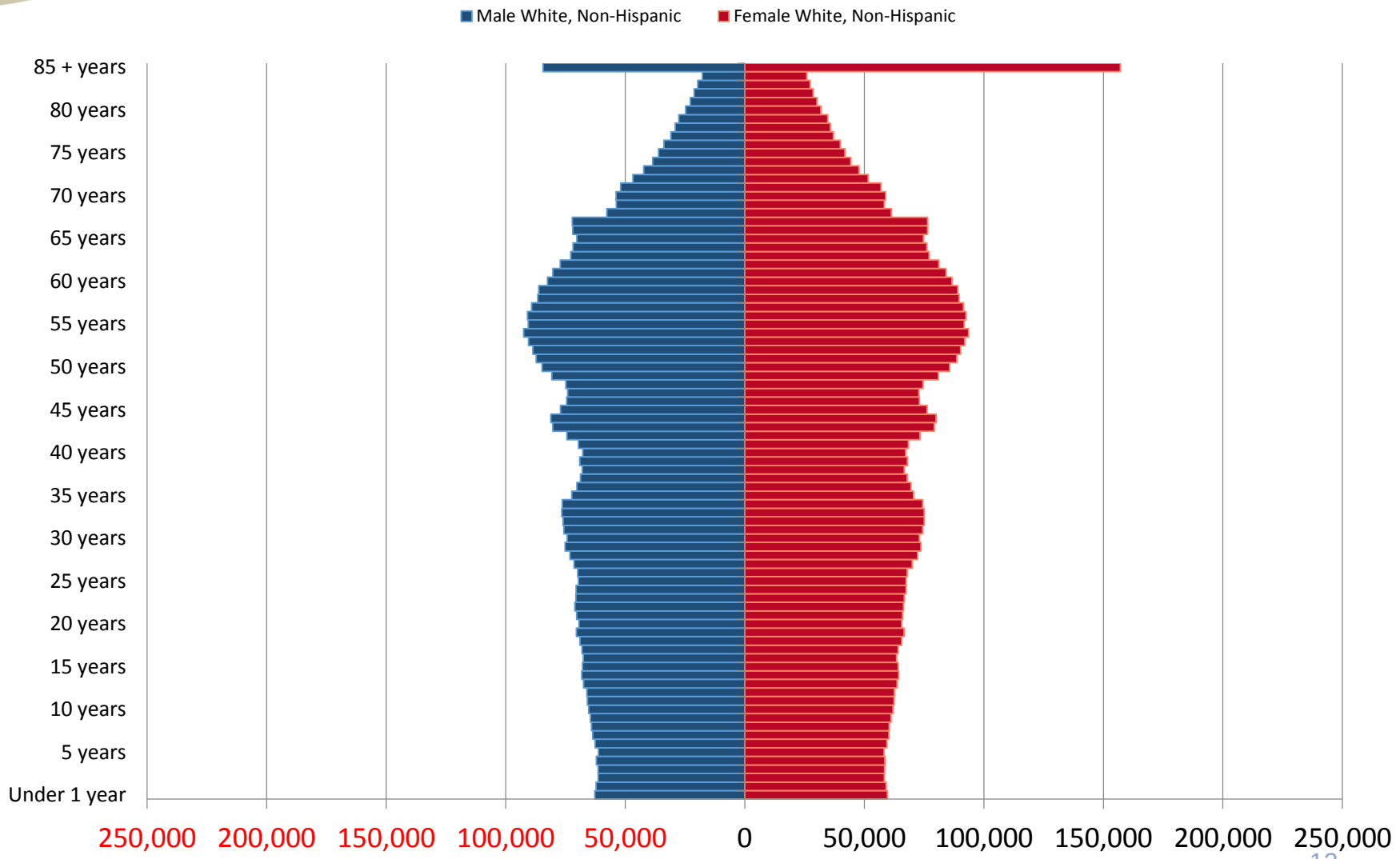
Source: U.S. Census Bureau 2000 Decennial Census, SF1 and Population Estimates, 2104

Texas White (non-Hispanic) and Hispanic Populations by Age, 2014



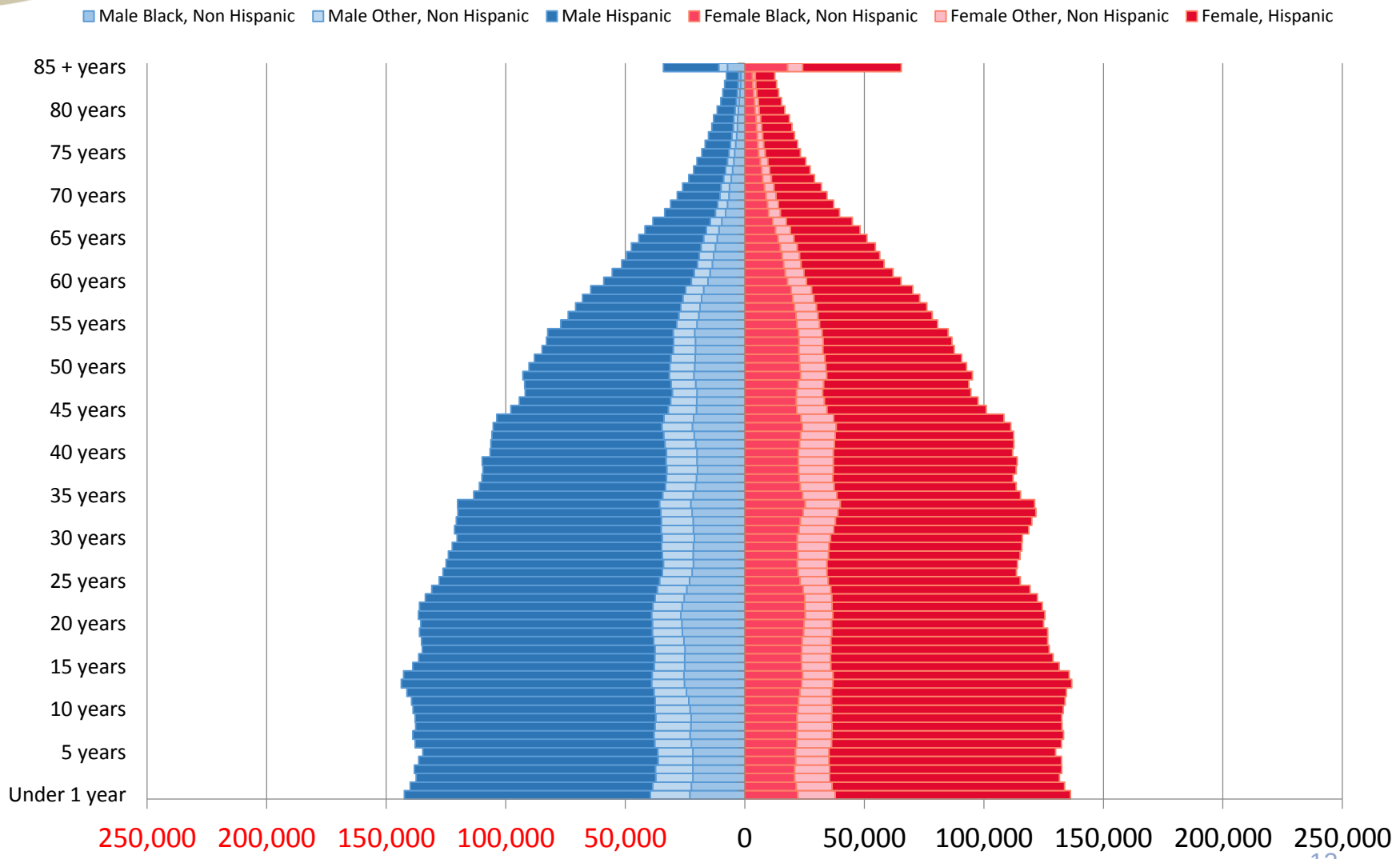
Source: U.S. Census Bureau 2010 Decennial Census, SF1

Texas Population Pyramid by Race/Ethnicity, 2014



Source: Texas Demographic Center, 2014 Population Estimates

Texas Population Pyramid by Race/Ethnicity, 2014



Source: Texas Demographic Center, 2014 Population Estimates

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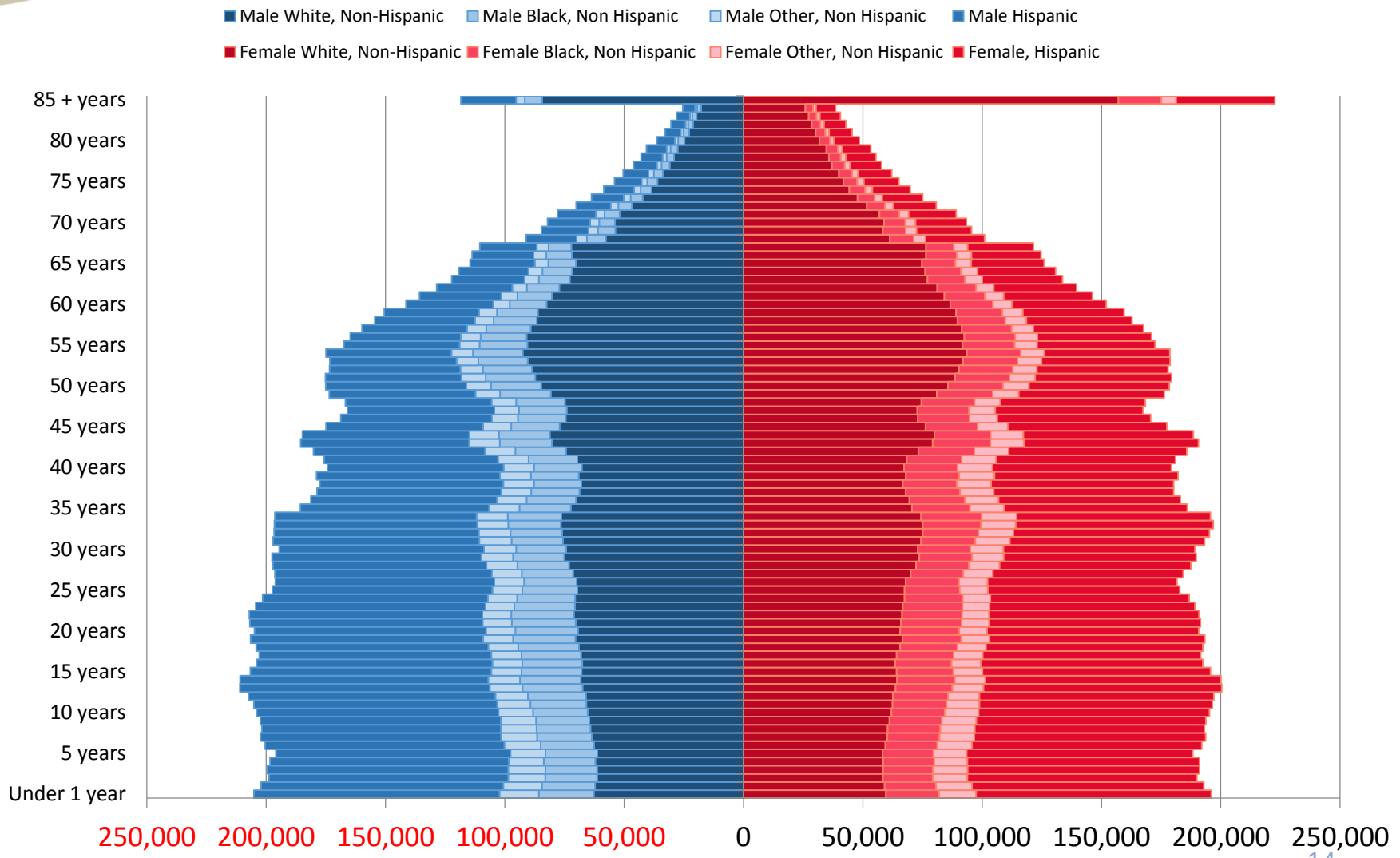
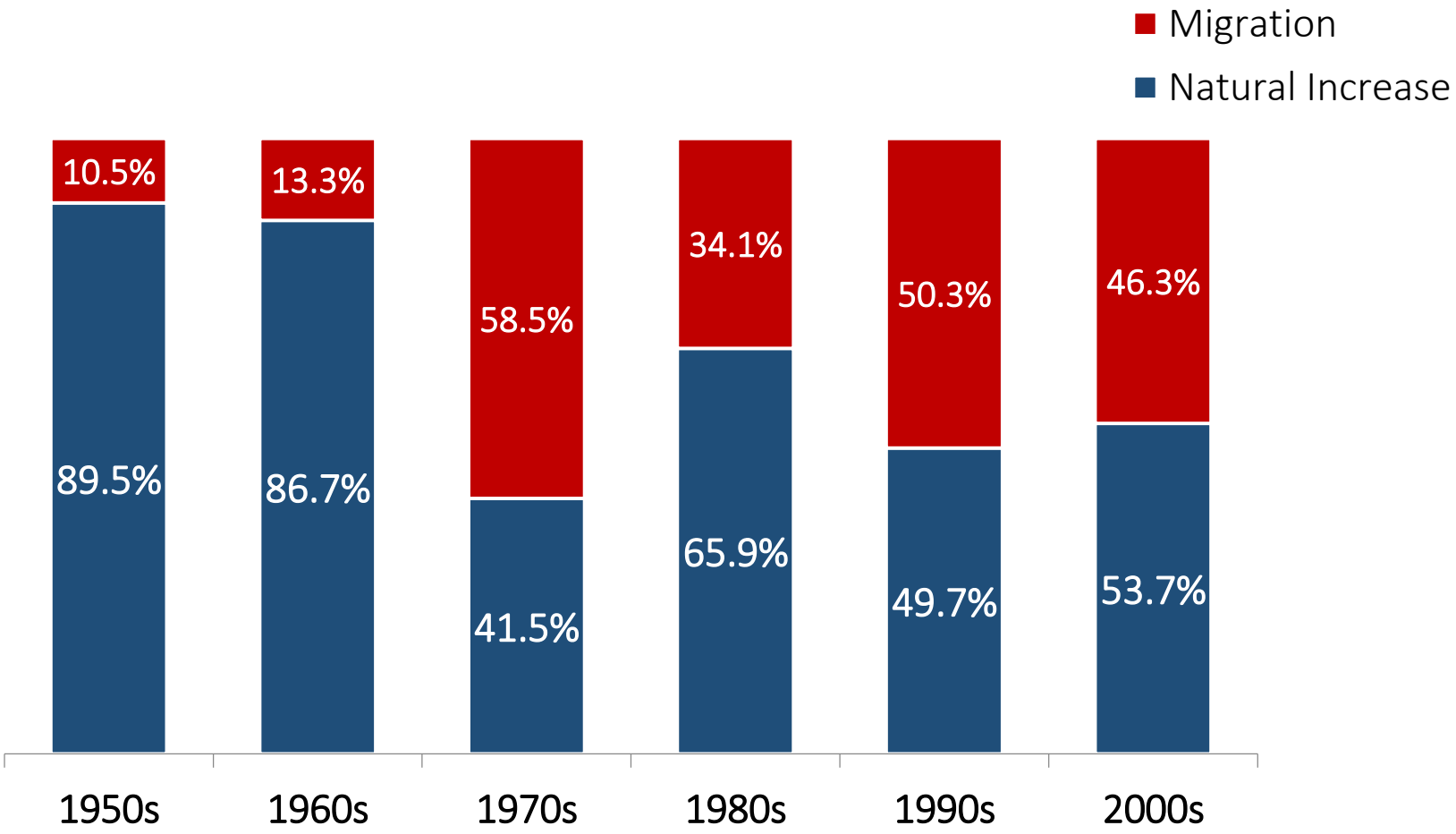


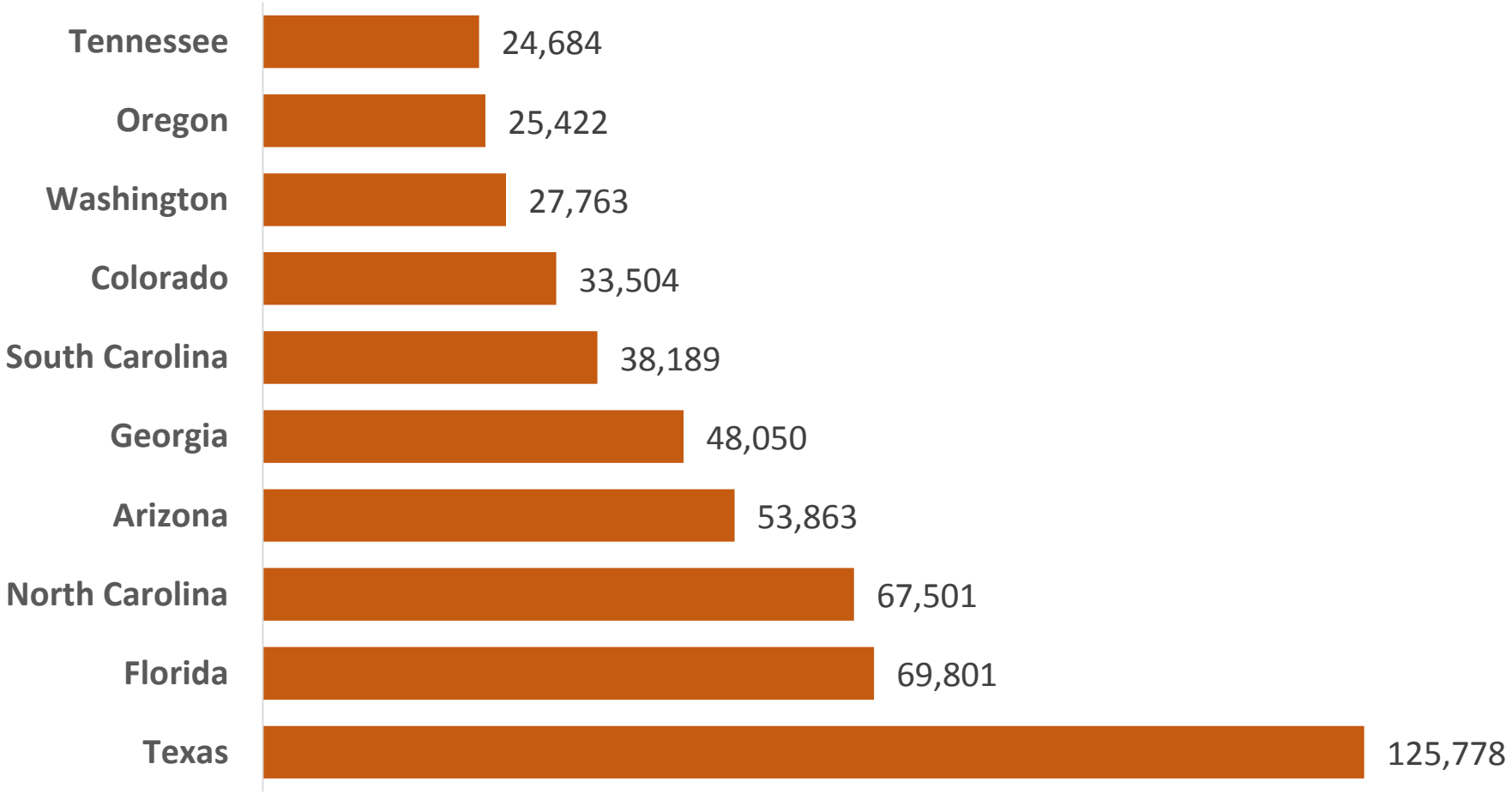
Source: Texas Demographic Center, 2014 Population Estimates

Components of Population Change by Percent in Texas, 1950-2010



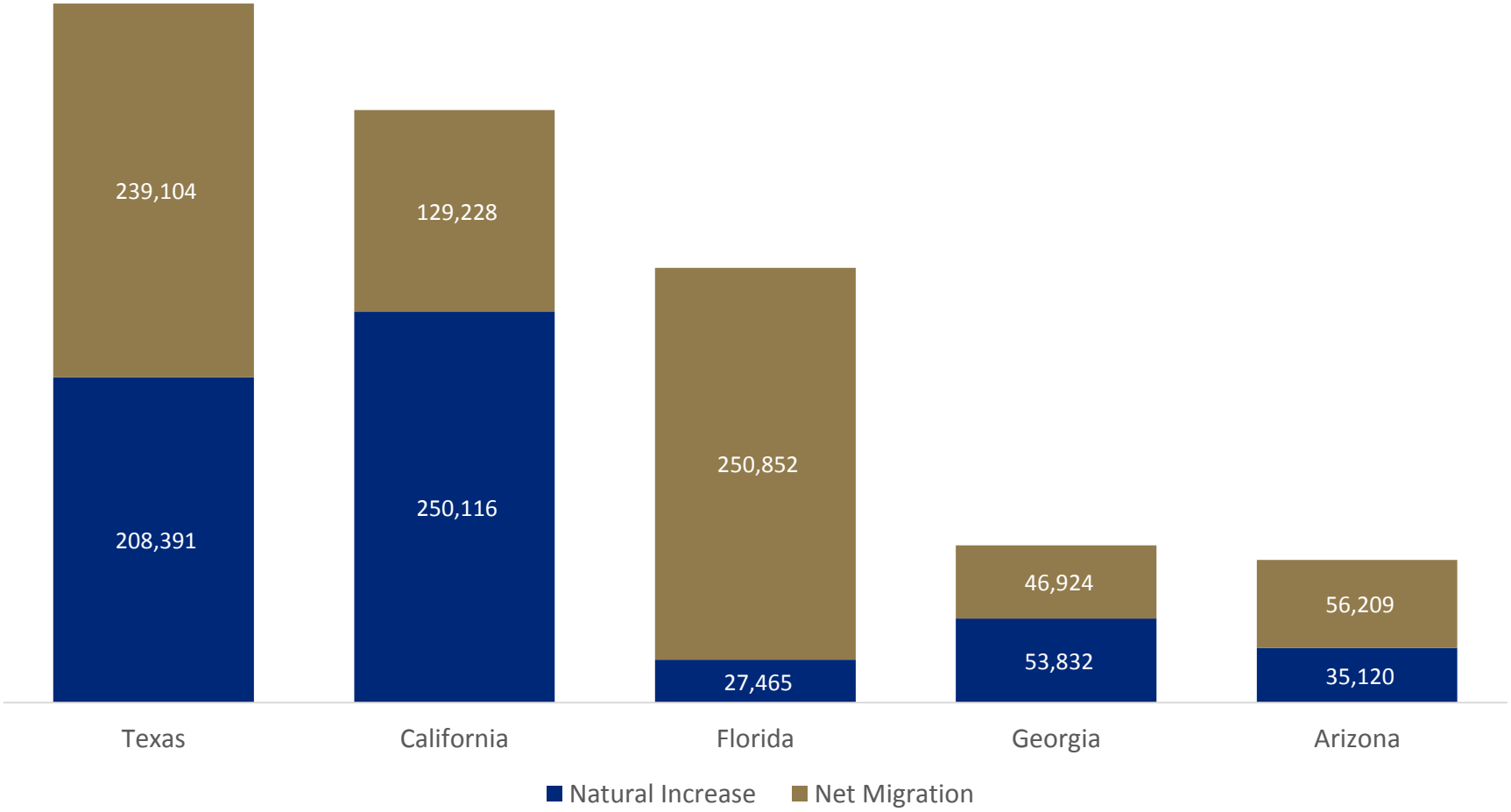
Source: U.S. Census Bureau, Population Estimates

The 10 U.S. States with the Largest Average Annual Net Domestic Migration by Rank, 2005-2013



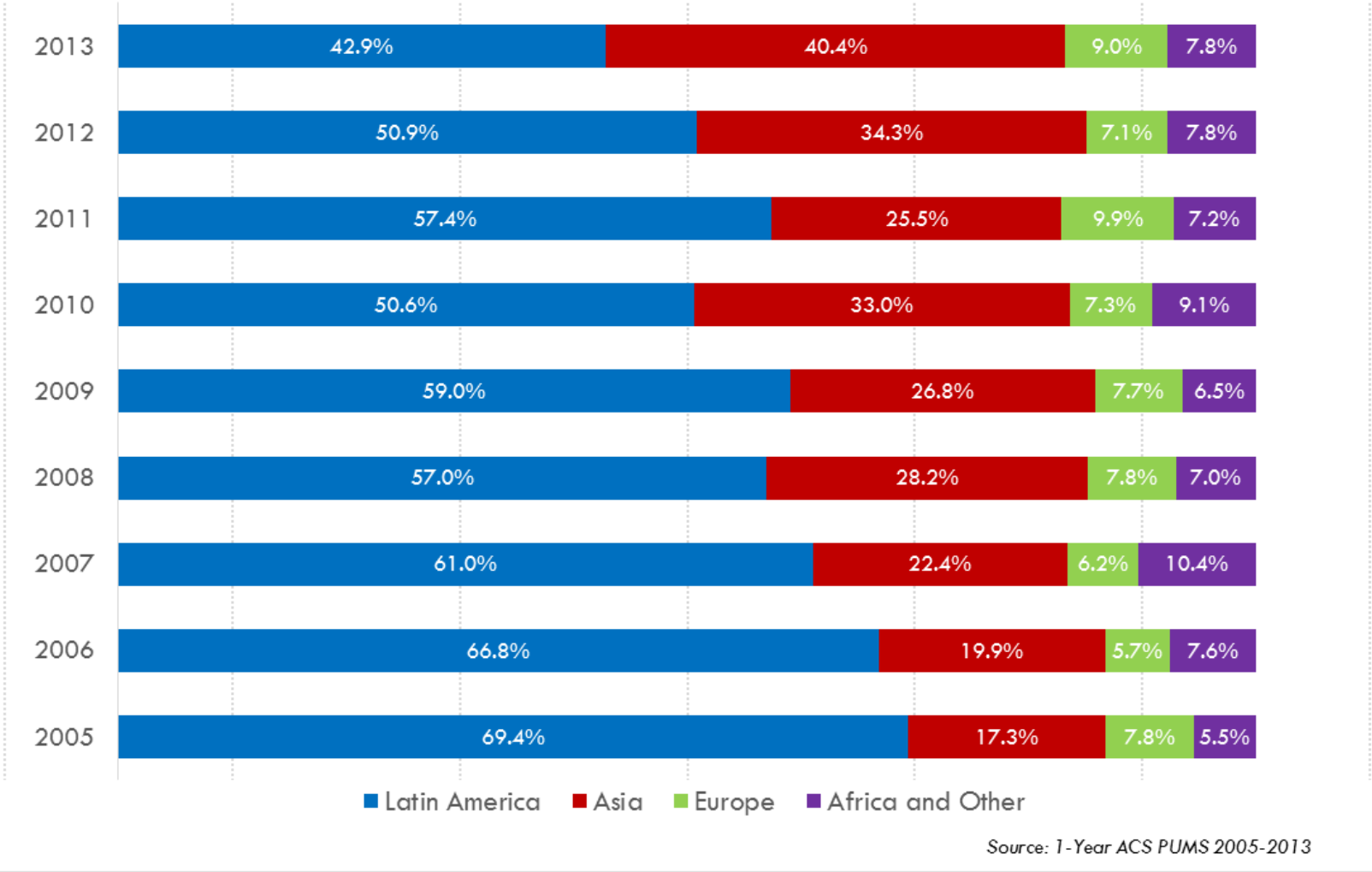
Source: U.S. Census Bureau, Population Estimates, 2015

Components of Population Change for the Top Five Growth States, 2013-14



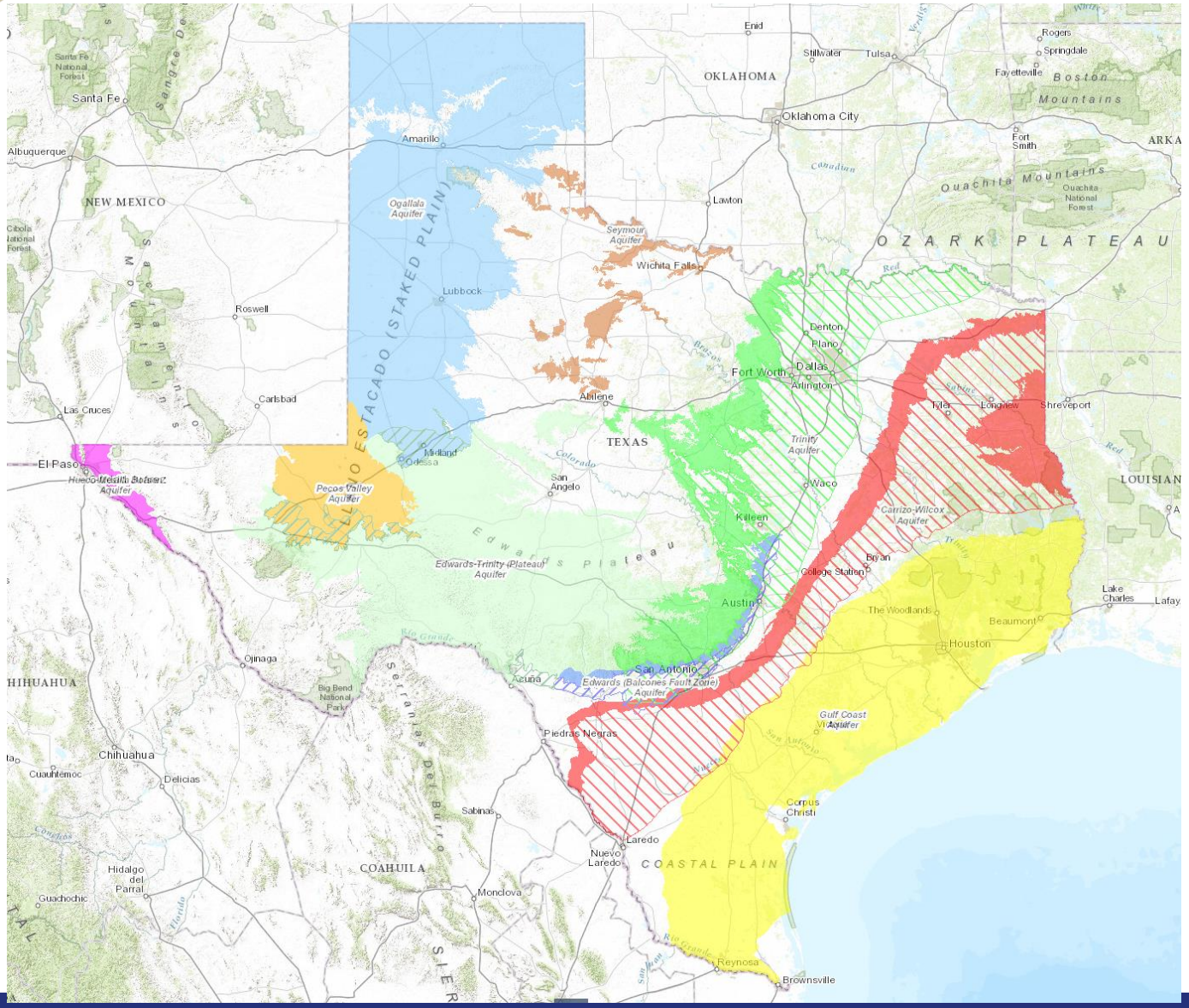
Source: U.S. Census Bureau, Population Estimates, 2015

Annual Shares of Recent Non-Citizen Immigrants to Texas by World Area of Birth, 2005-2013



Source: 1-Year ACS PUMS 2005-2013

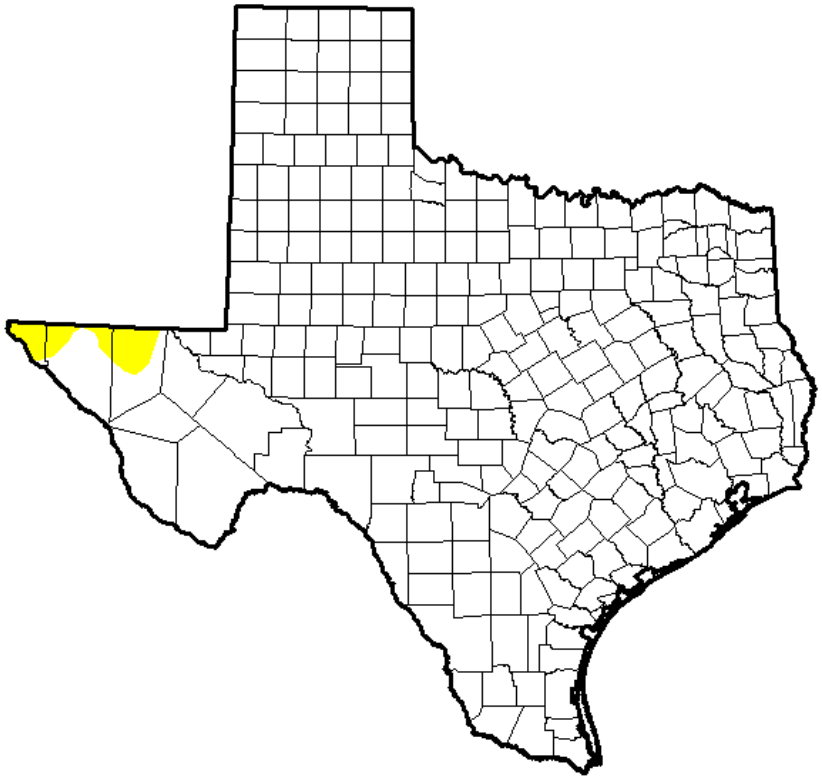
Major Texas Aquifers



Drought Conditions in Texas

U.S. Drought Monitor

Texas



June 14, 2016

(Released Thursday, Jun. 16, 2016)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	98.62	1.38	0.00	0.00	0.00	0.00
Last Week 6/7/2016	98.31	1.69	0.00	0.00	0.00	0.00
3 Months Ago 3/15/2016	88.58	11.42	0.12	0.00	0.00	0.00
Start of Calendar Year 12/29/2015	95.48	4.52	0.00	0.00	0.00	0.00
Start of Water Year 9/29/2015	34.51	65.49	38.32	17.55	6.27	0.00
One Year Ago 6/16/2015	93.20	6.80	0.29	0.00	0.00	0.00

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

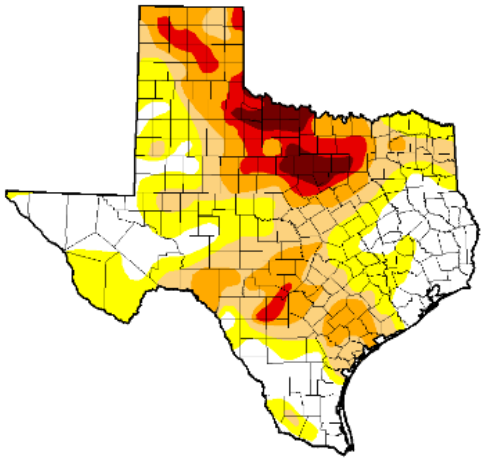
Chris Fenimore

NOAA/NESDIS/NCEI

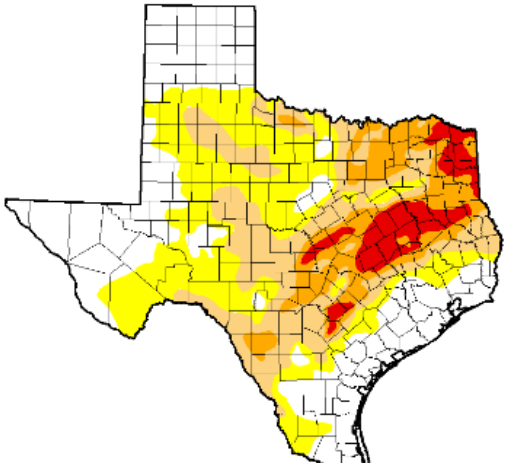
http://droughtmonitor.unl.edu/

Drought Conditions in Texas

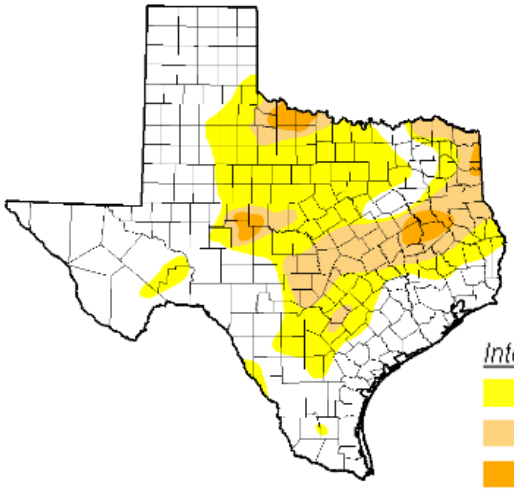
November 4, 2014



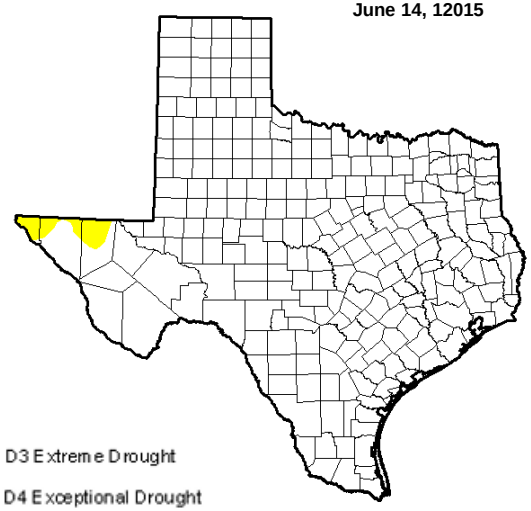
September 29, 2015



October 27, 2015



June 14, 12015



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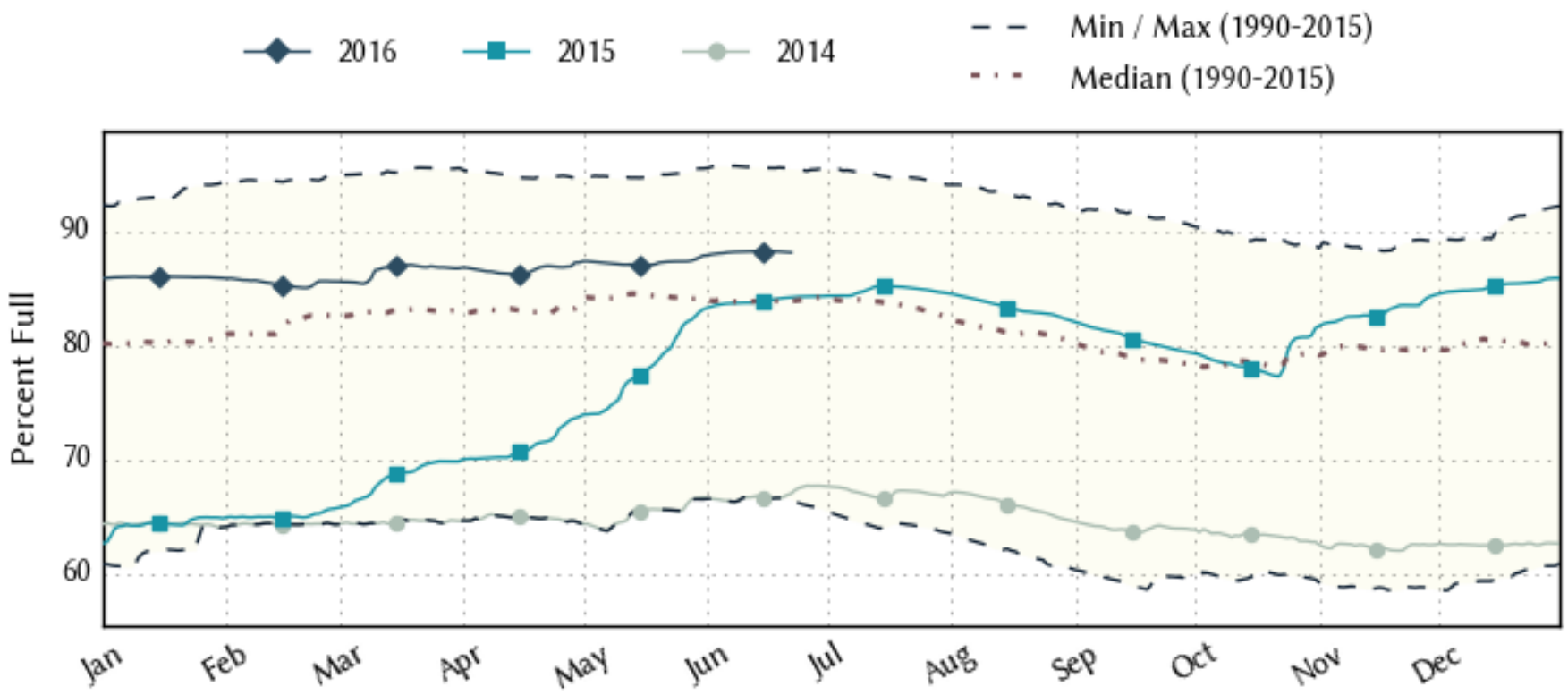
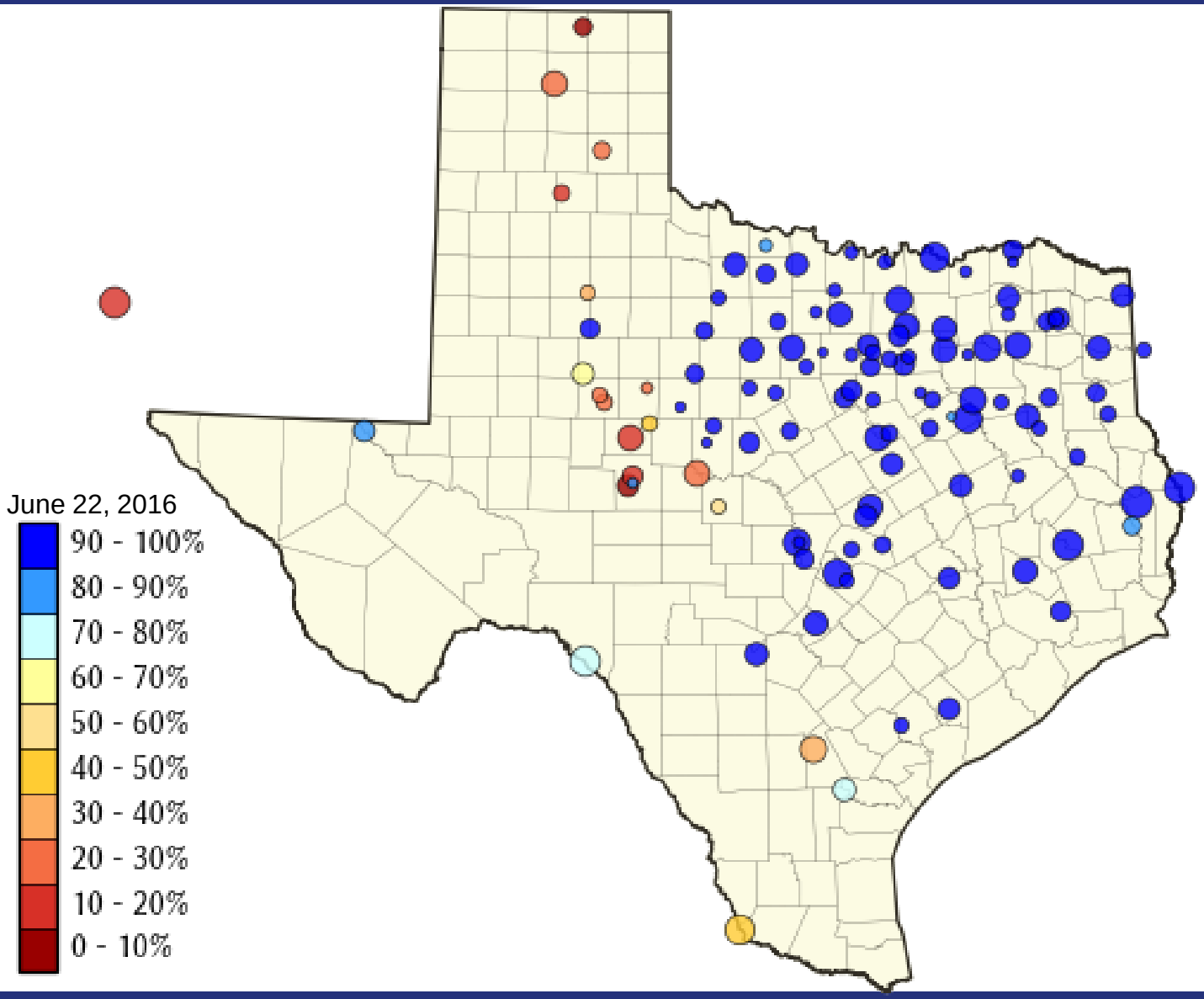
Texas Reservoirs:
Monitored Water Supply Reservoirs



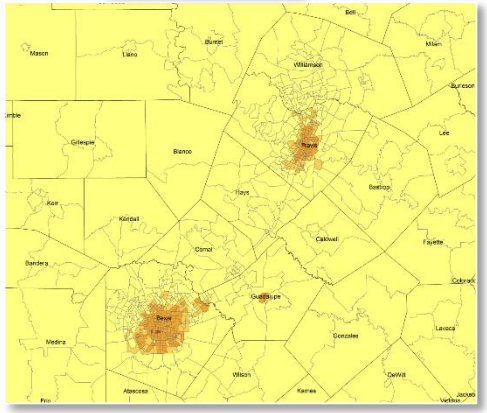
http://www.waterdatafortexas.org/reservoirs/statewide

Texas reservoirs:
Monitored water supply reservoirs

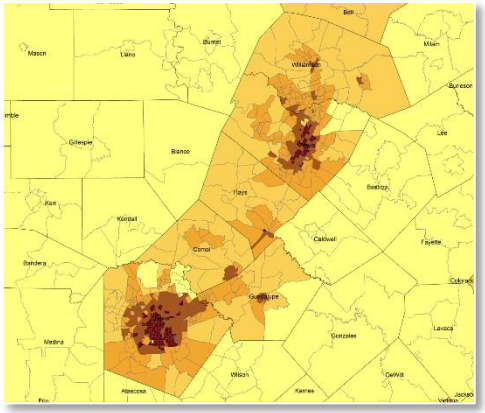


Density by Census Tract, Austin/San Antonio Corridor, 1970-2010

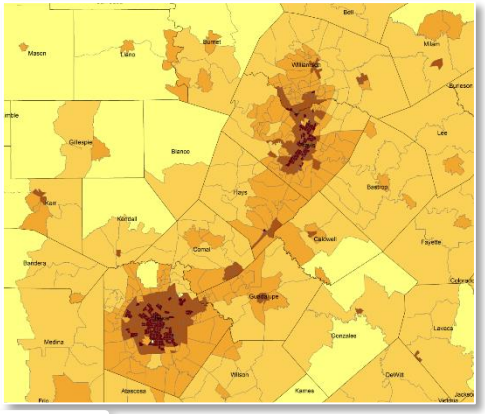
1970



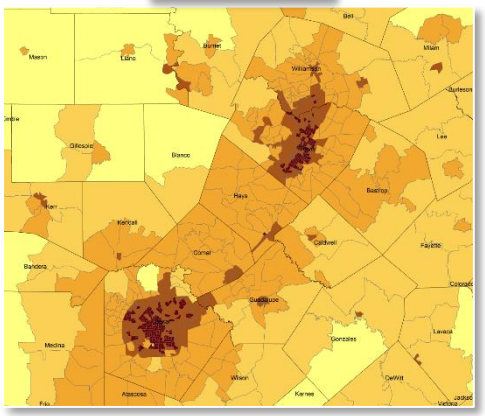
1980



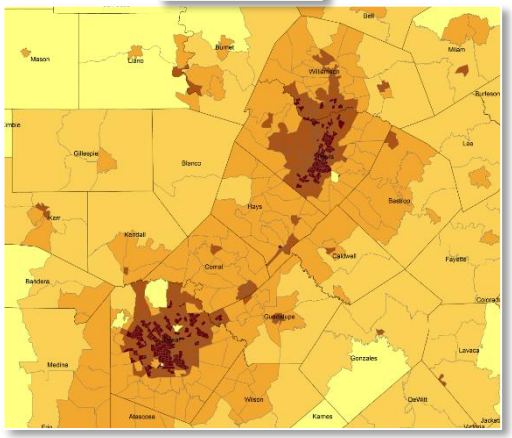
1990



2000



2010



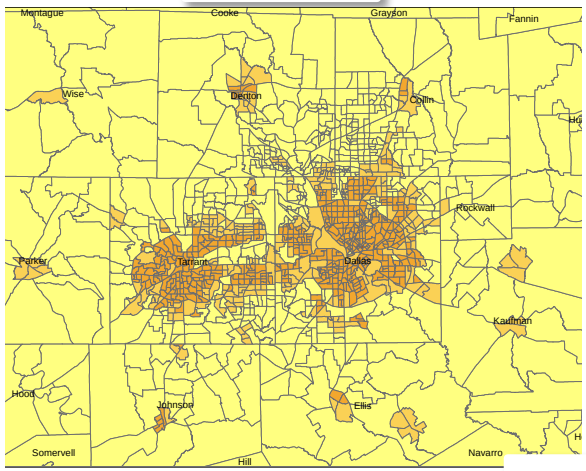
Persons per Square Mile

- 0 – 10
- 11 – 50
- 51 – 500
- 501 – 4,000
- 4,001 – 56,000

Source: U.S. Census Bureau, decennial censuses. Geolytics, Neighborhood Change Database Tract Data from 1970-2010

Density by Census Tract, Metroplex Area, 1970-2010

1970



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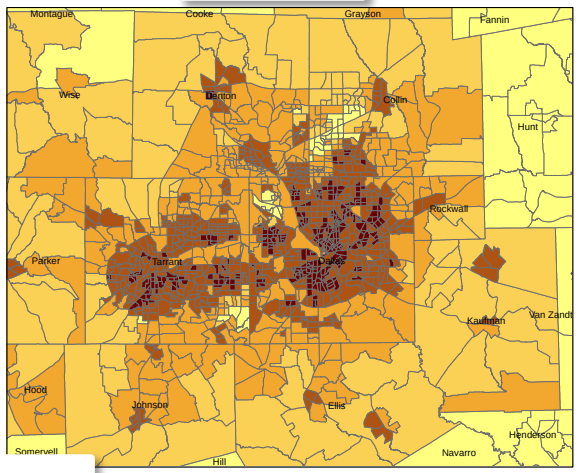
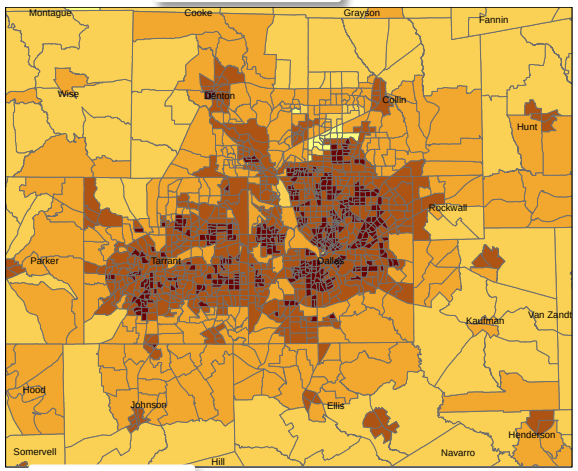
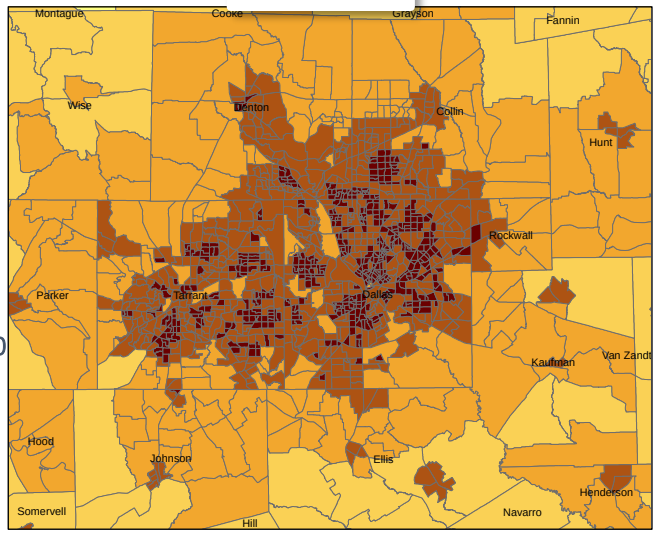


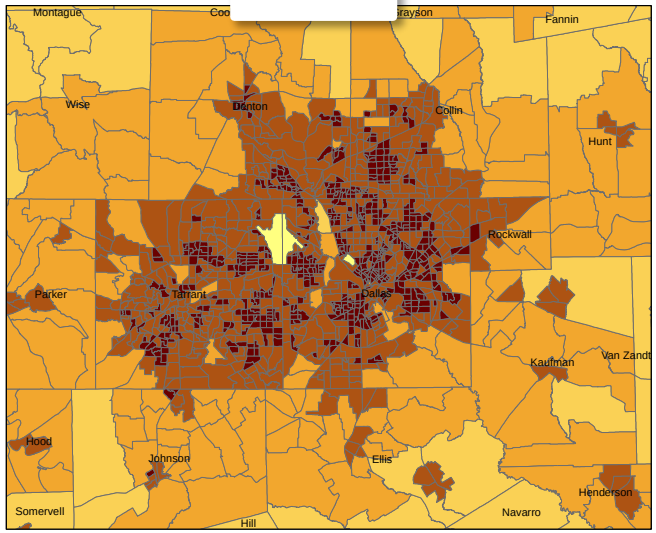
1990



2000



2010



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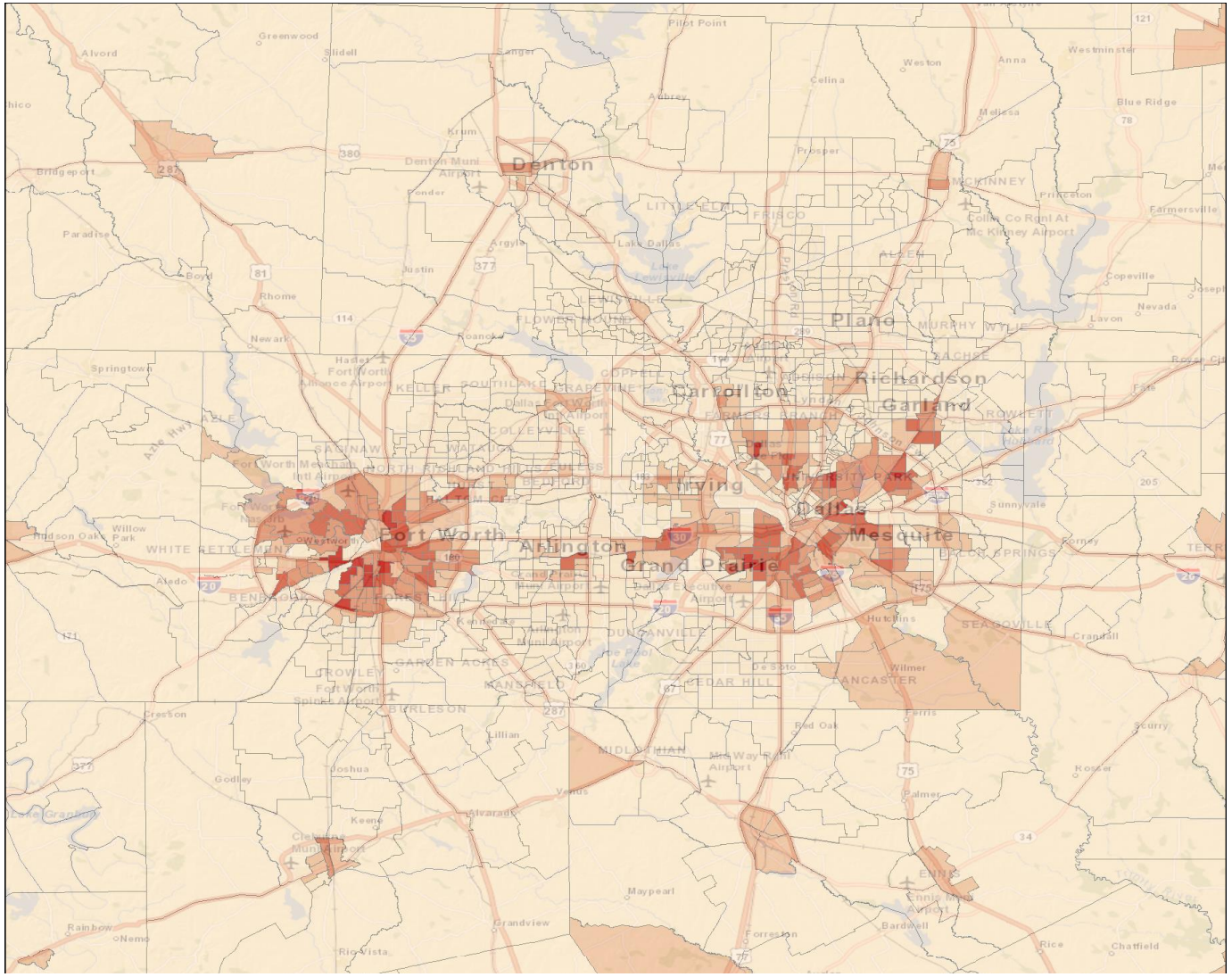
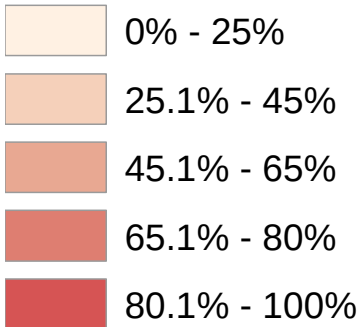
Source: U.S. Census Bureau, decennial censuses. Geolytics, Neighborhood Change Database Tract Data from 1970-2010

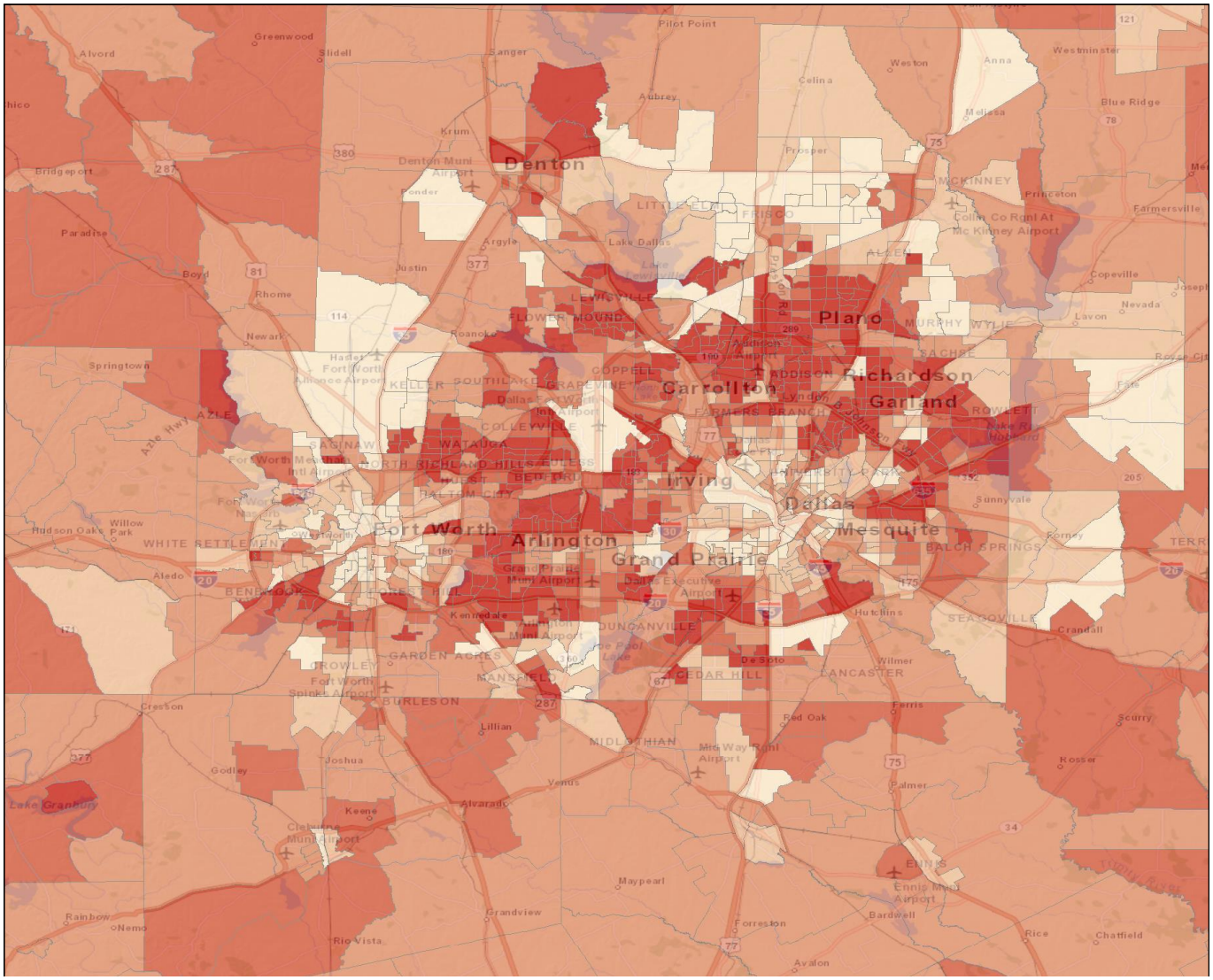
Percent of Housing Units Built Before 1960, Census Tracts, Metroplex Area, Texas, 2009-2013



Source: U.S. Census Bureau, American Community Survey, 2009-2013 5-Year Sample

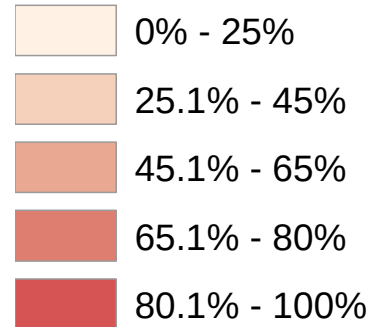
Percent of Housing Units Built Between 1960 and 1999, Census Tracts, Metroplex Area, Texas, 2009-2013

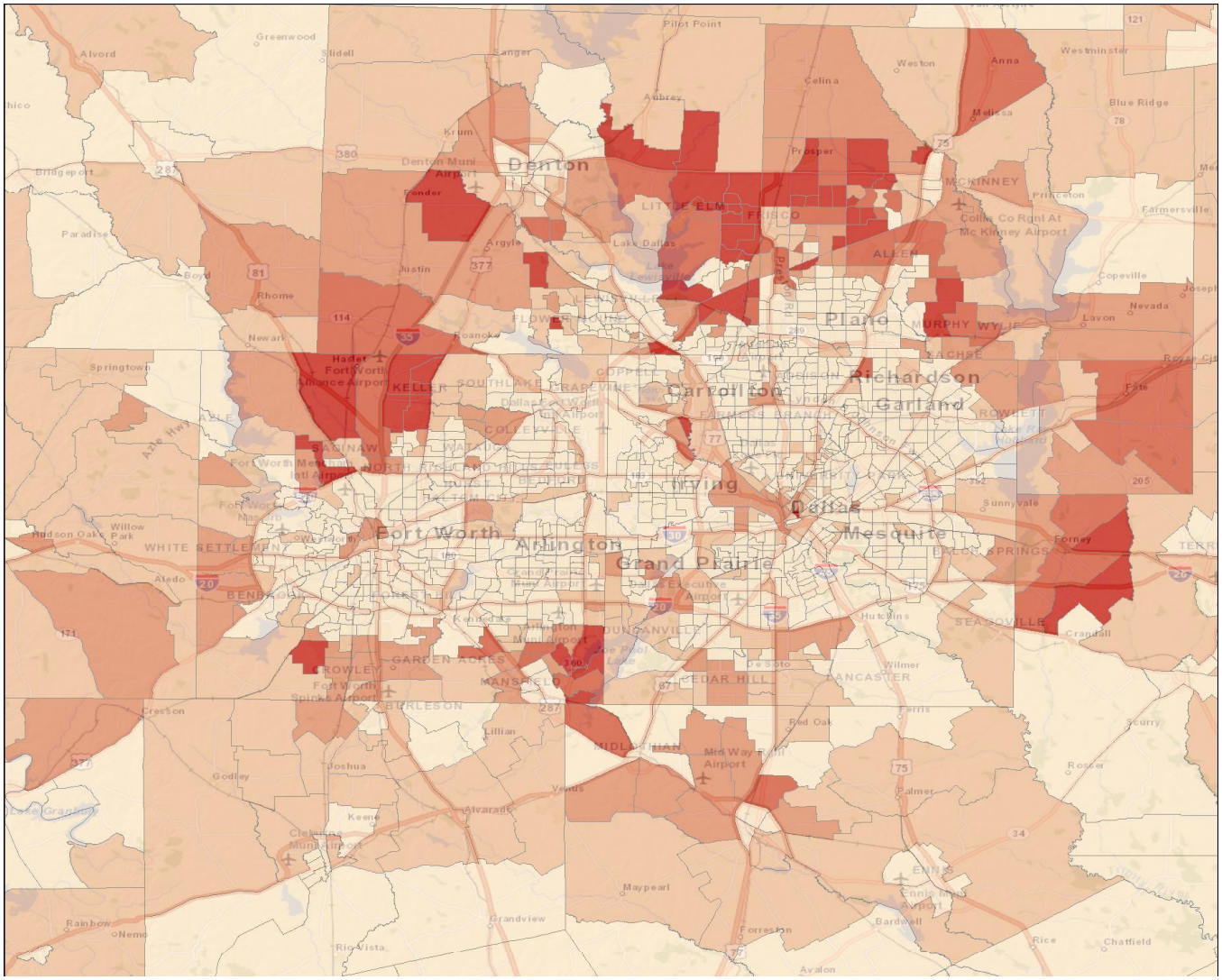




Source: U.S. Census Bureau, American Community Survey, 2009-2013 5-Year Sample

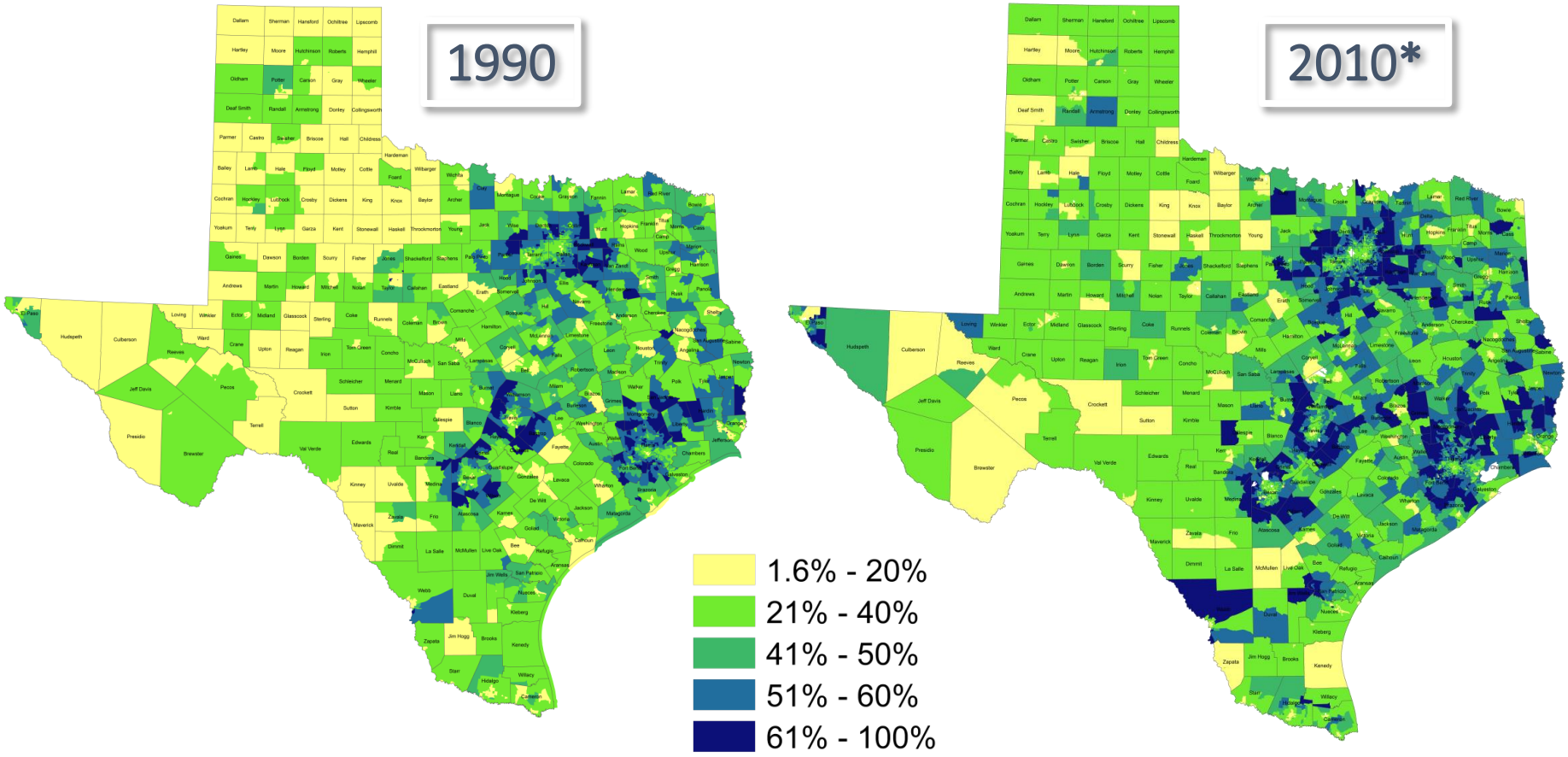
Percent of Housing Units Built After 1999, Census Tracts, Metroplex Area, Texas, 2009-2013





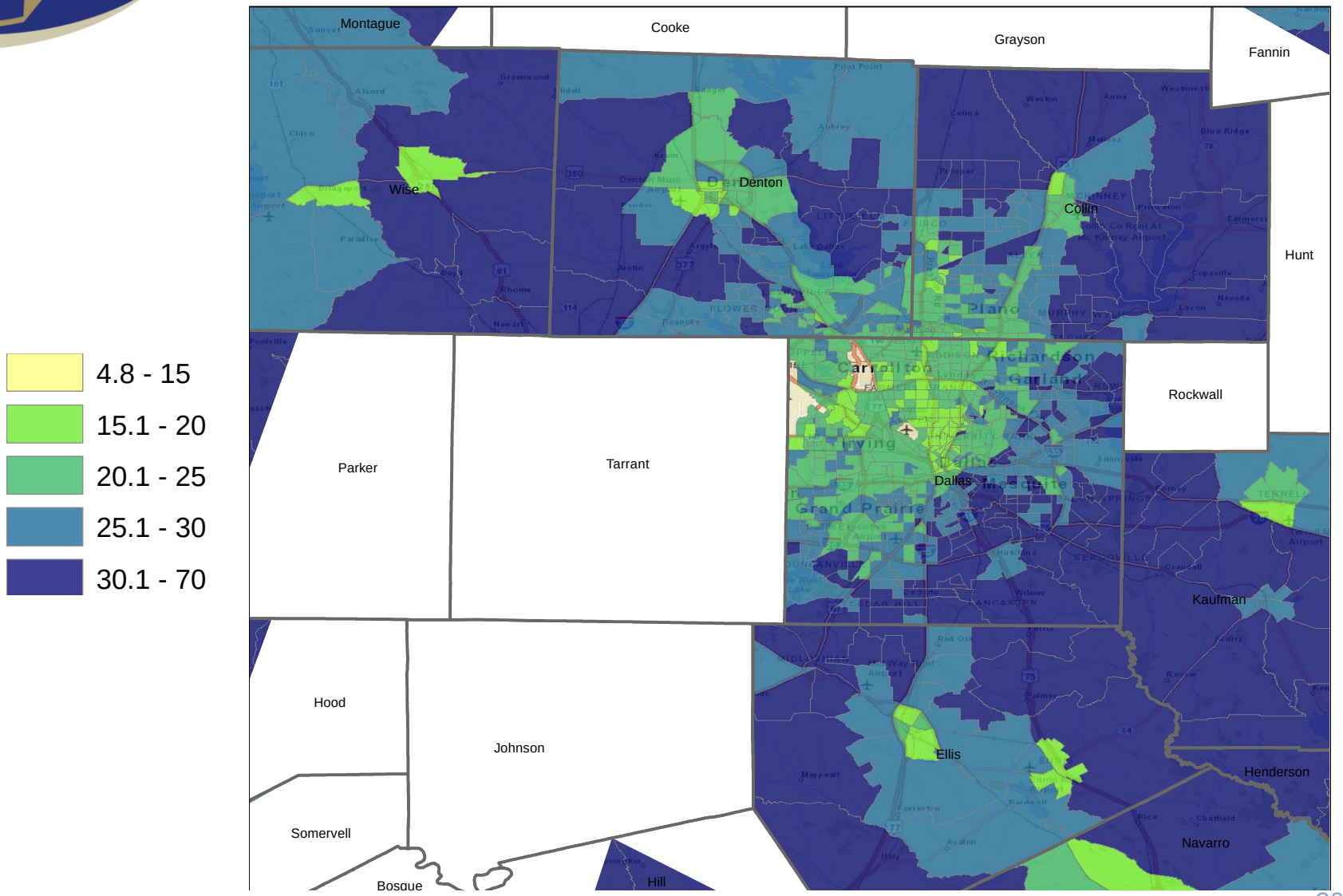
Source: U.S. Census Bureau, American Community Survey, 2009-2013 5-Year Sample

Percentage of Population with Drive Times Longer than 25 Minutes, Texas Census Tracts, 1990 and 2010*



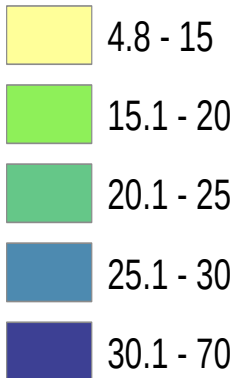
Source: U.S. Census Bureau, 1990 decennial census and *American Community Survey, 2008-2012 5 Year Sample.

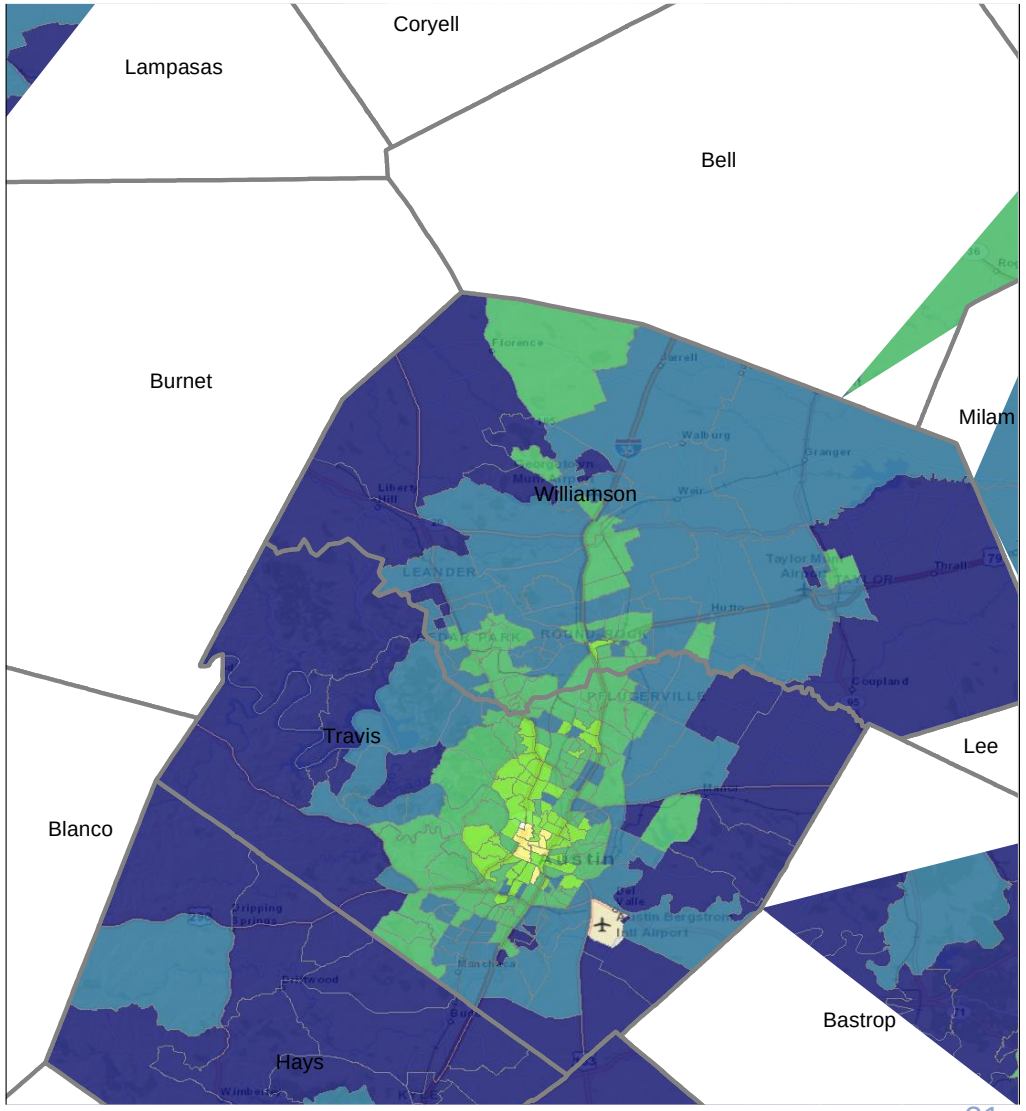
Mean Commute Time (minutes) of workers, Census Tracts, Metroplex Area, Texas, 2009-2013



Source: U.S. Census Bureau, American Community Survey, 5 Year Sample 2009-2013.

Mean travel time to work (minutes), census tracts, Austin Area, Texas, 2009-2013





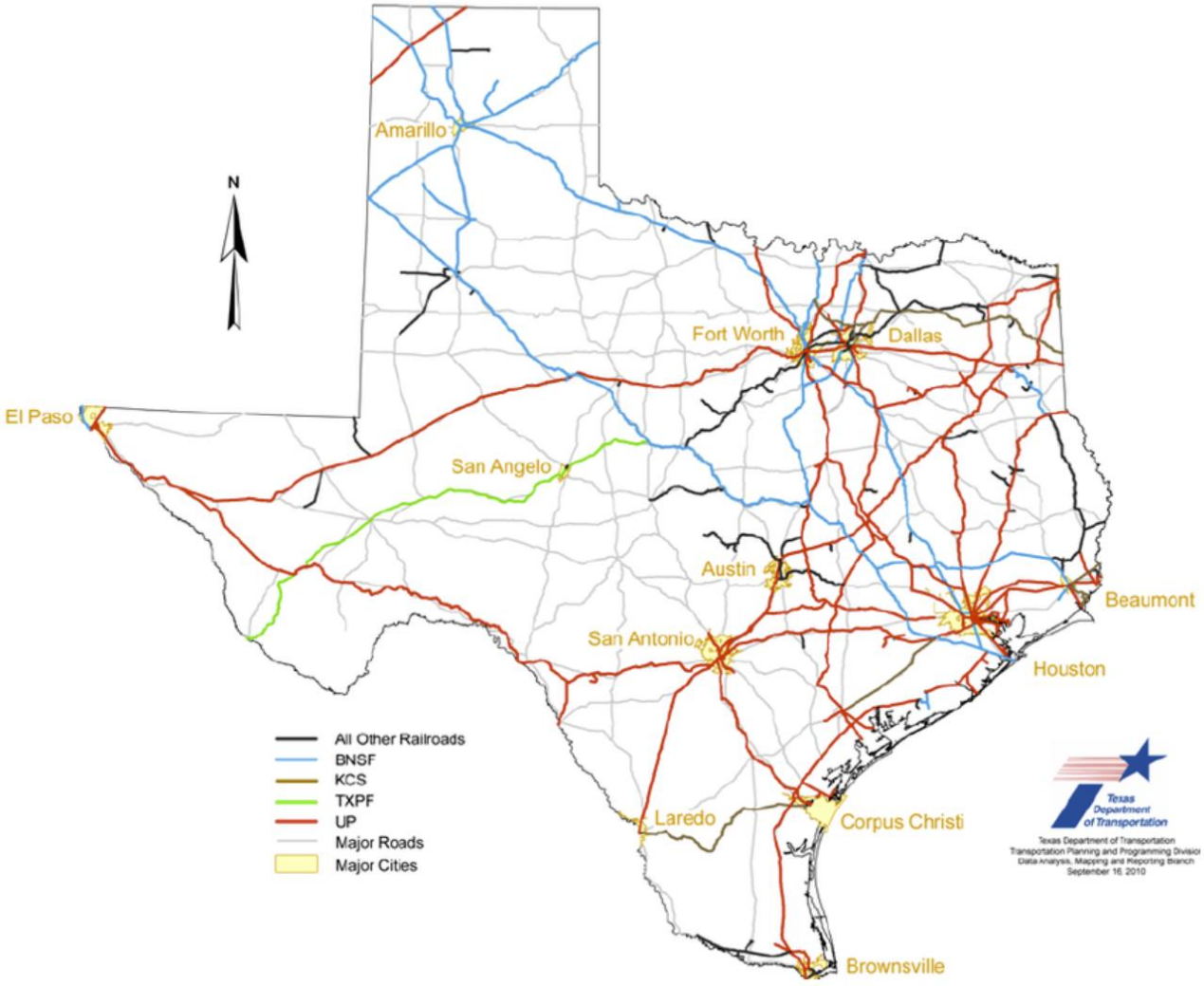
Source: U.S. Census Bureau, American Community Survey, 5 Year Sample 2009-2013.

Number road segments on the list of “2015 Most Congested Roadways in Texas” by county

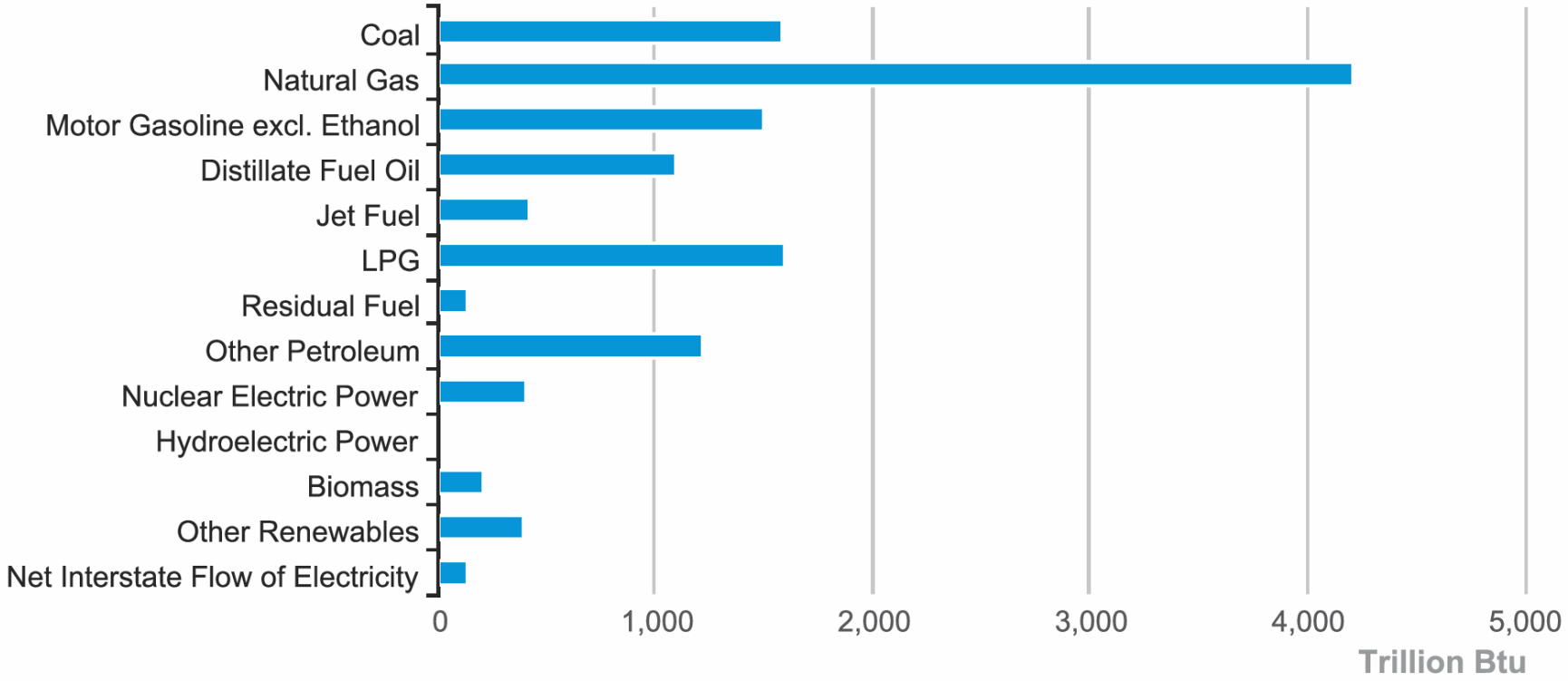
Harris	37
Dallas	18
Bexar	13
Tarrant	10
Travis	8
Williamson	3
Denton	3
El Paso	3
Collin	3
Montgomery	1

Source: http://www.txdot.gov/inside-txdot/projects/100-congested-roadways.html

Texas Railroads

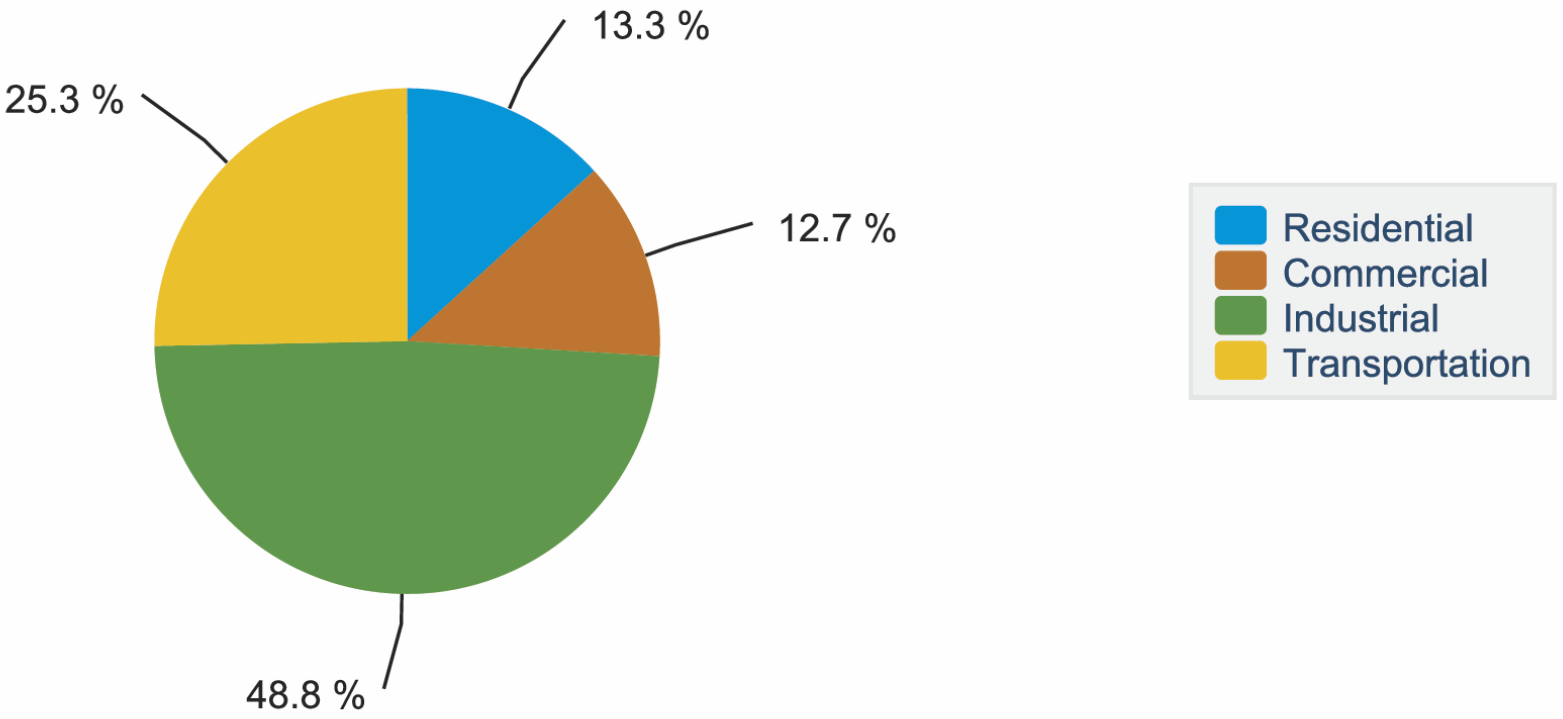


Texas Energy Consumption Estimates, 2013



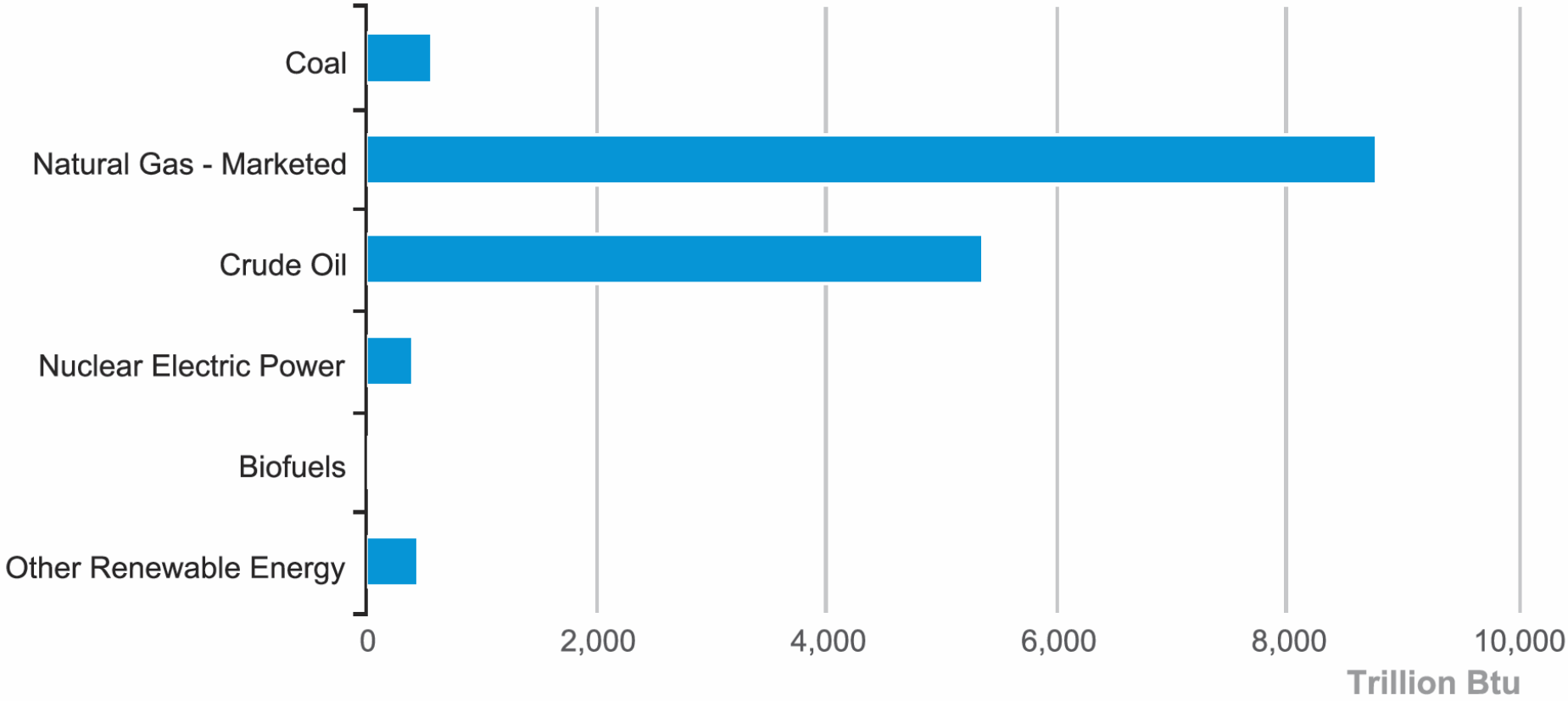
Source: Energy Information Administration, State Energy Data System

Texas Energy Consumption by End-Use Sector, 2014



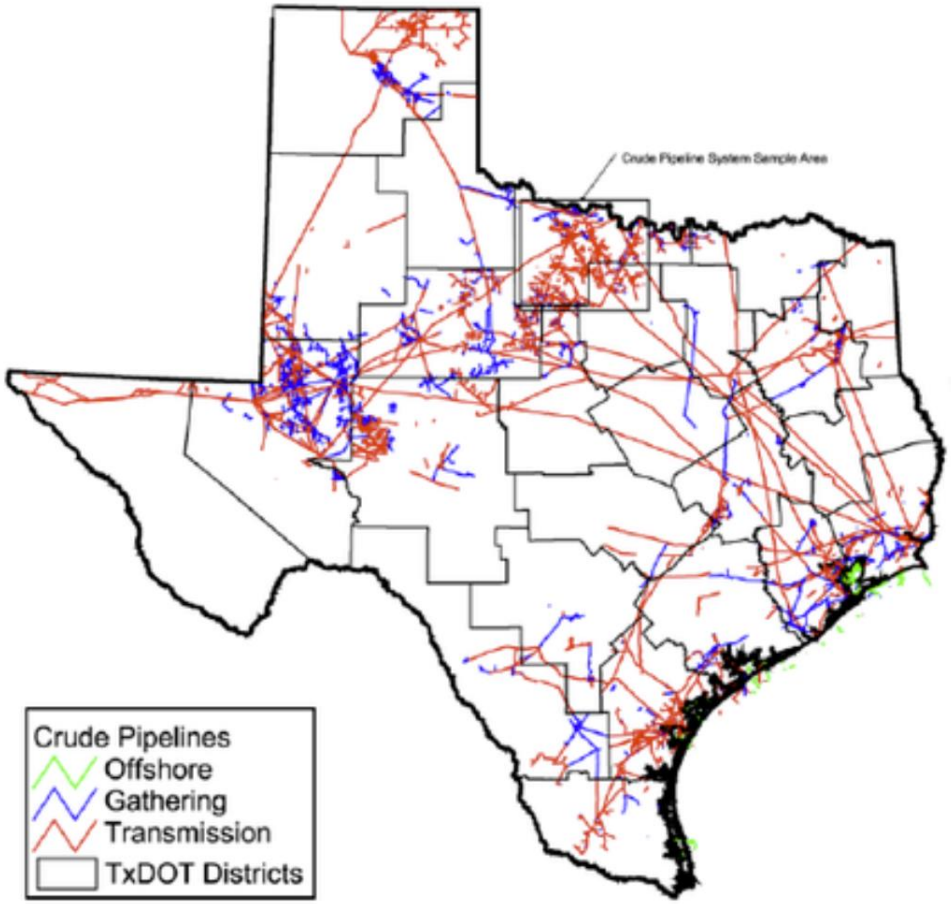
Source: Energy Information Administration, State Energy Data System

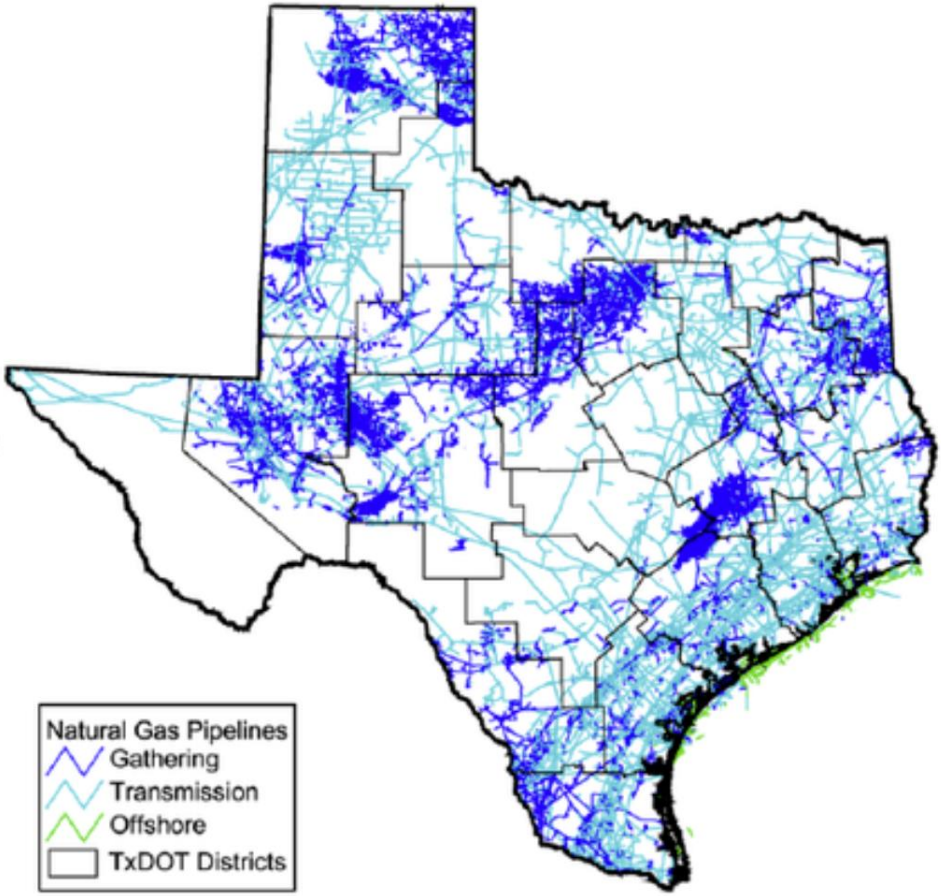
Texas Energy Production Estimates, 2013

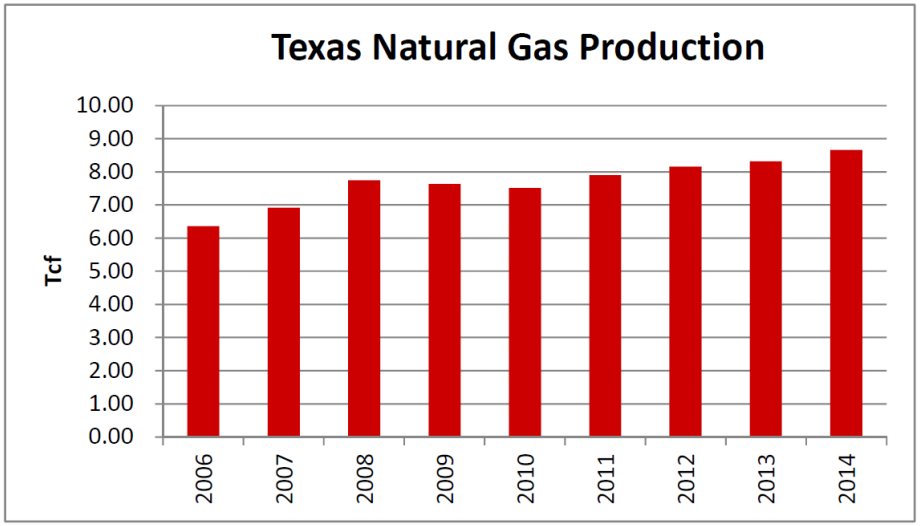


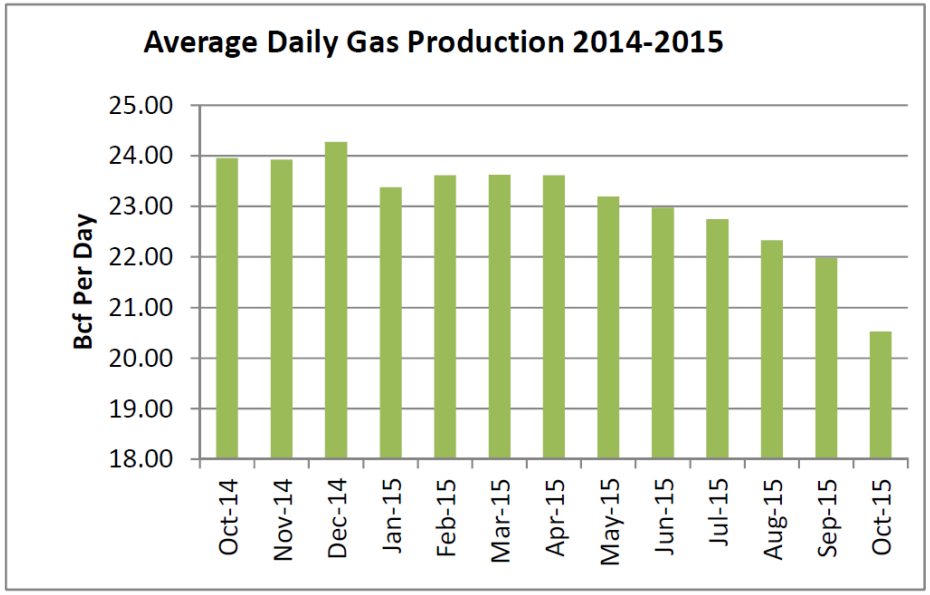
Source: Energy Information Administration, State Energy Data System

Crude and Natural Gas Pipelines, Texas

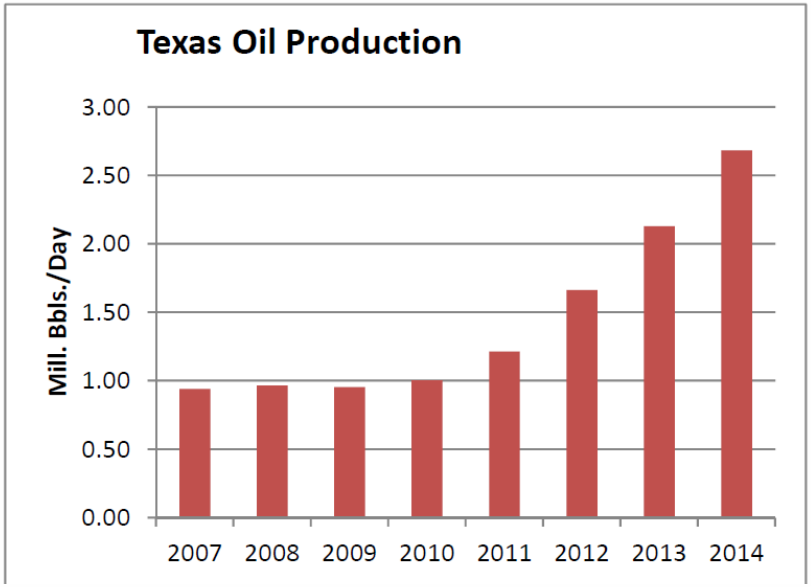


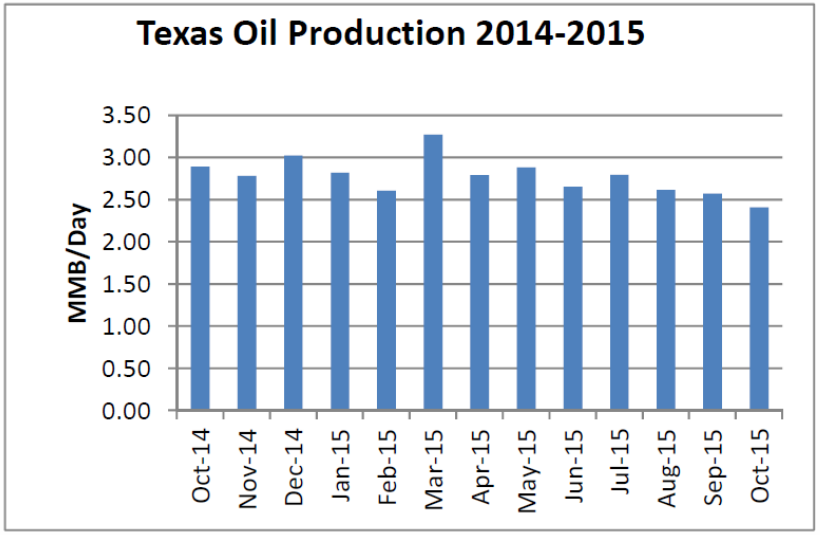




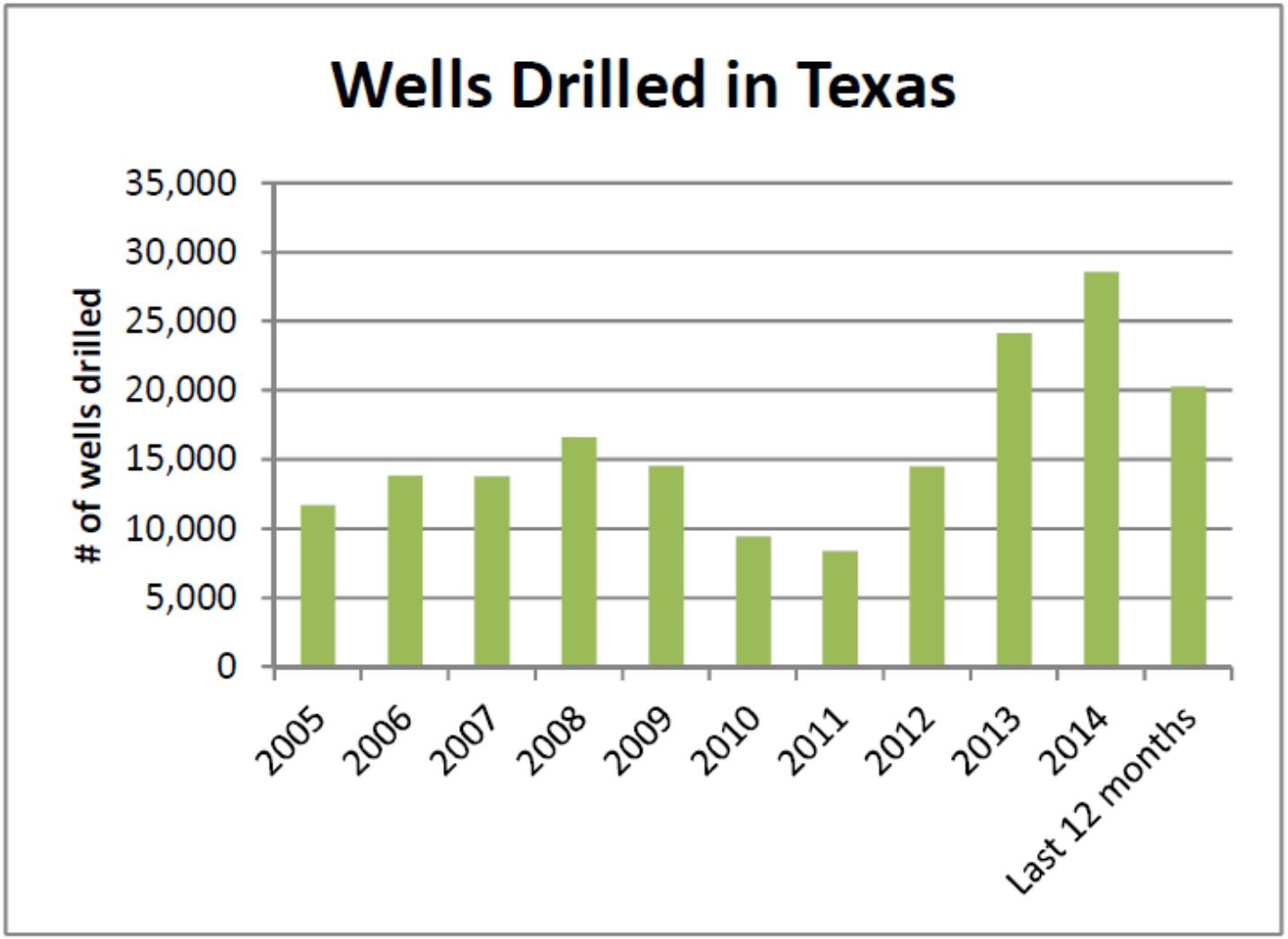


Source: Texas PetroFacts / Railroad Commission of Texas / January 2016



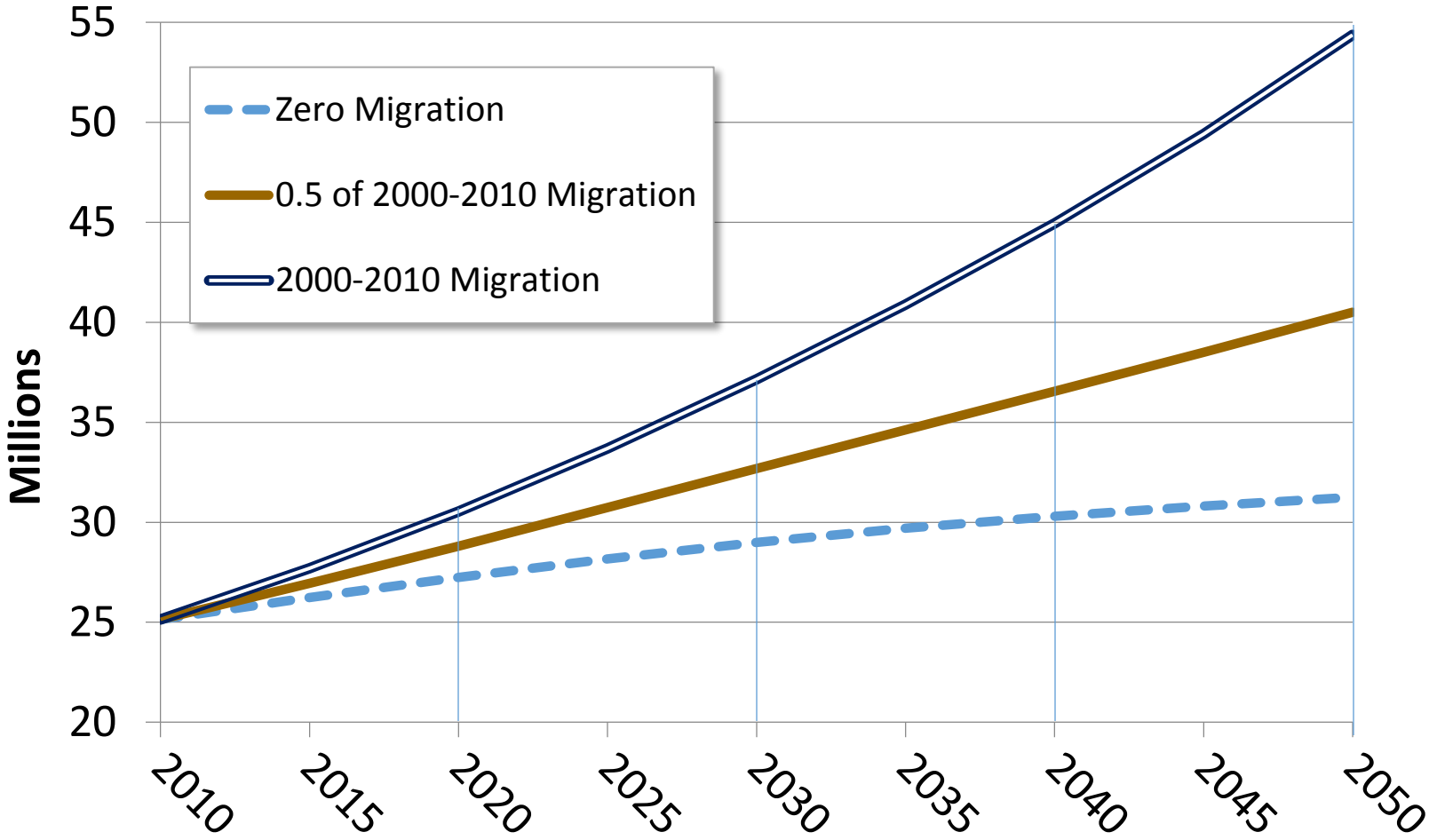


Source: Texas PetroFacts / Railroad Commission of Texas / January 2016



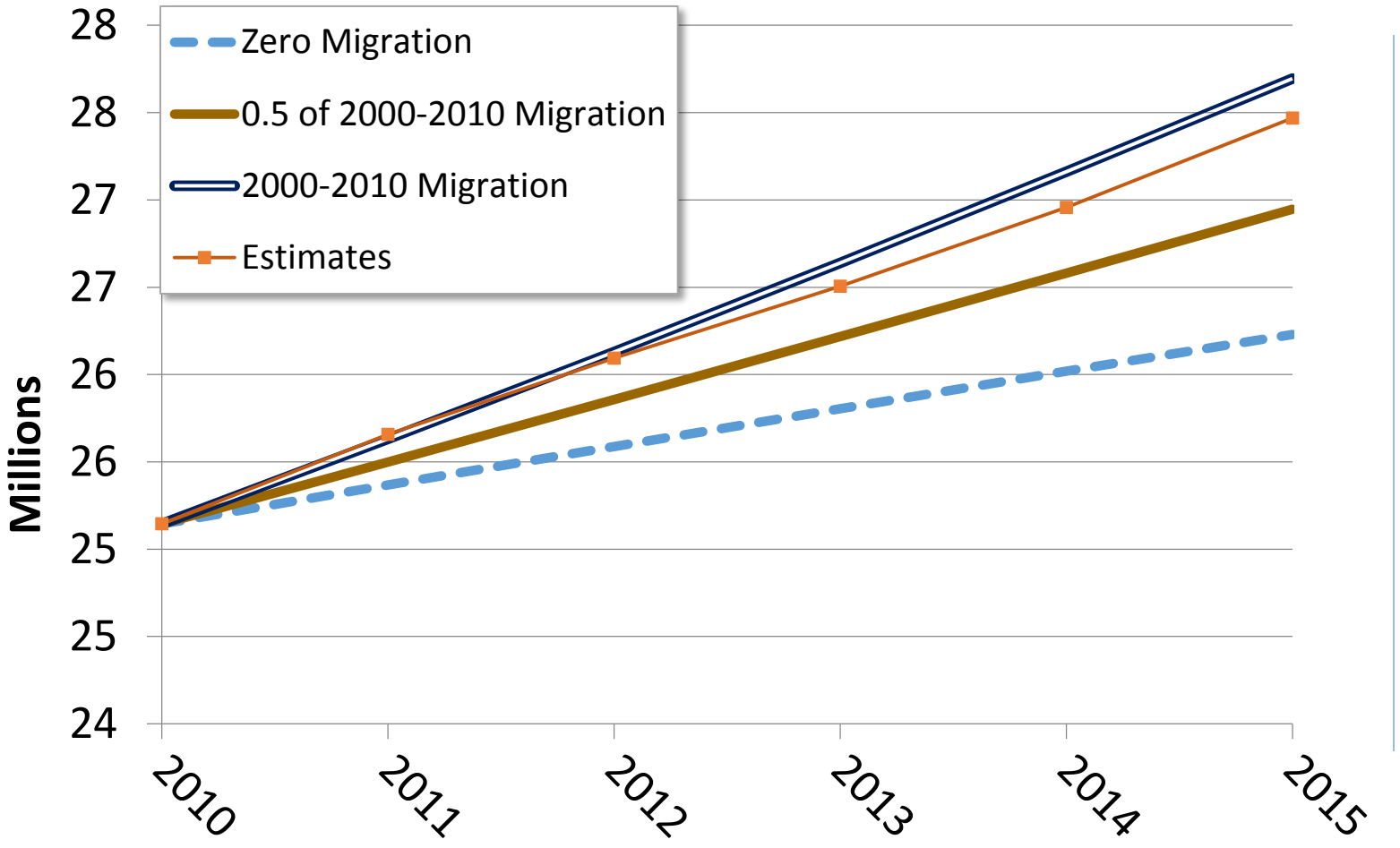
Source: Texas PetroFacts / Railroad Commission of Texas / January 2016

Projected Population Growth in Texas, 2010-2050



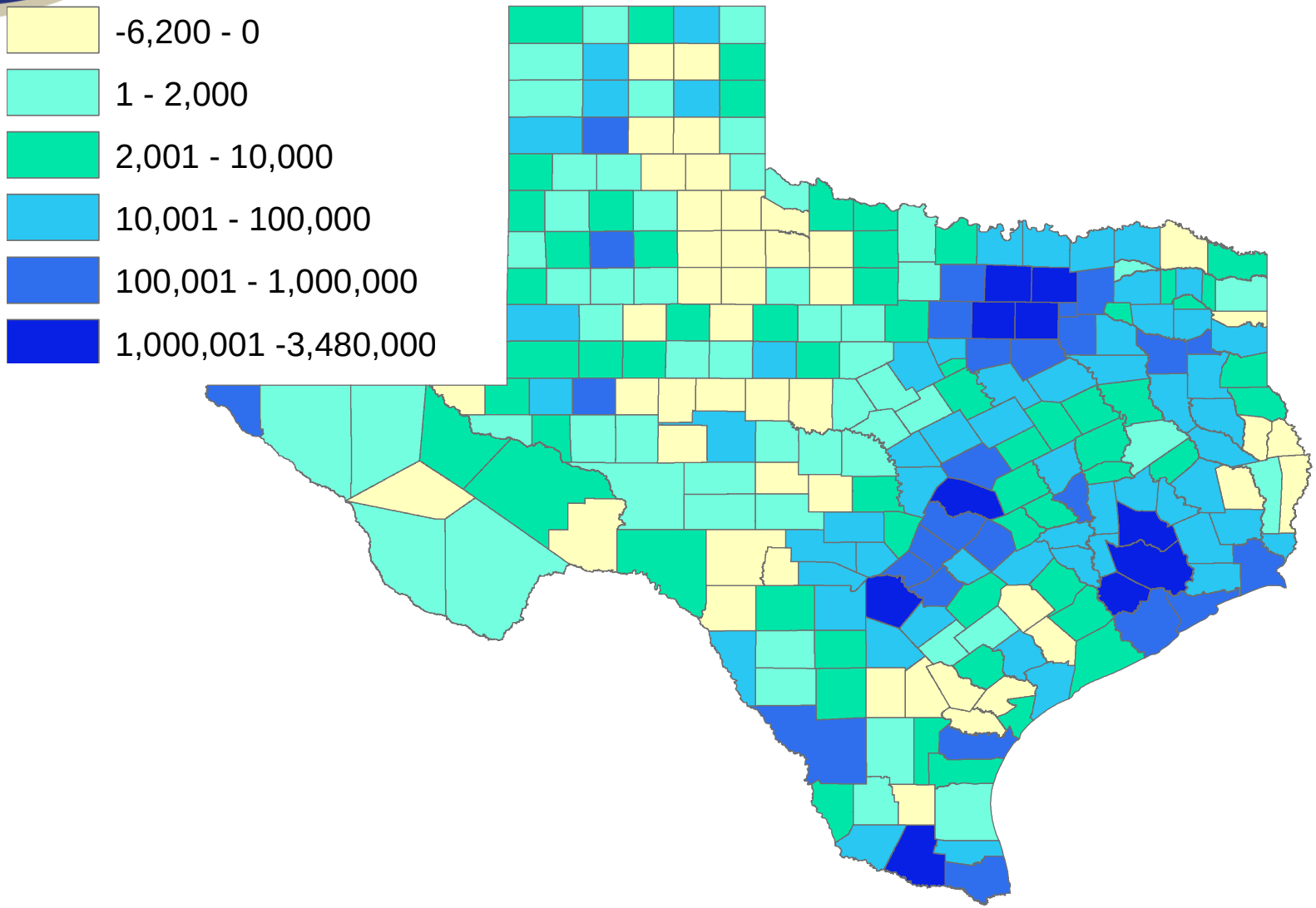
Source: Texas State Data Center 2014 Population Projections

Projected and Estimated Population Growth in Texas, 2010-2015



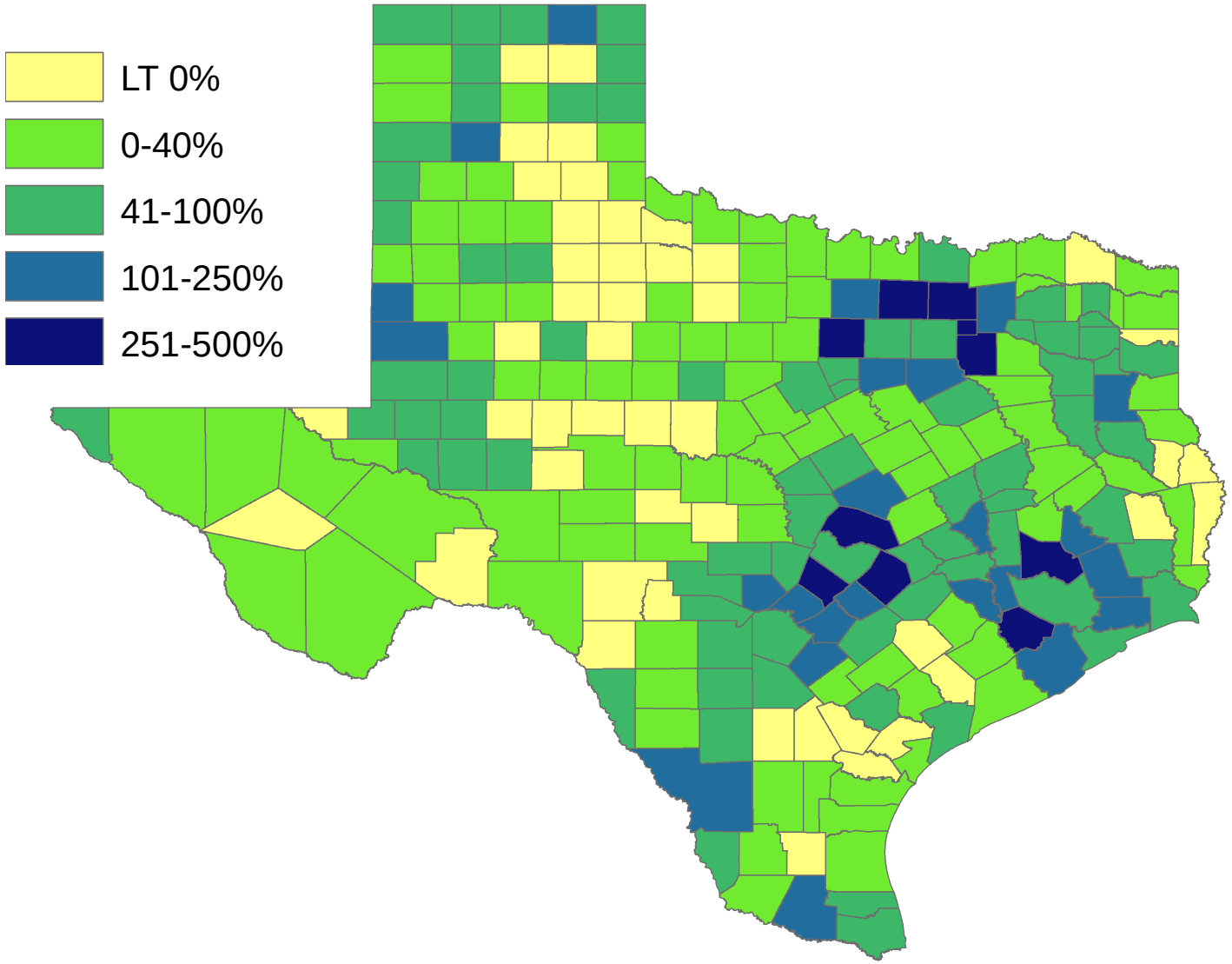
Source: Texas State Data Center 2014 Population Projections and U.S. Census Bureau Population Estimates

Projected Population Change, Texas Counties, 2010-2050



Source: Texas State Data Center 2012 Population Projections , 2000-2010 Migration Scenario

Projected Percent Population Change, Texas Counties, 2010-2050



Source: Texas State Data Center 2012 Population Projections . 2000-2010 Migration Scenario

Review

- Growth – significant, fast, uneven
- Hispanic population driving growth
- Migration patterns are dynamic
- Projected growth implies substantial infrastructure development.

Contact

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