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.

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

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

*Dallas had net out domestic migration over this period.

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

*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

- NH White: 52%
- Hispanic or Latino: 32%
- NH Black: 11%
- NH Other: 2%
- NH Asian: 3%

2014

- NH White: 43%
- Hispanic or Latino: 39%
- NH Black: 12%
- NH Asian: 4%
- NH Other: 2%

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
Texas Population Pyramid by Race/Ethnicity, 2014

Source: Texas Demographic Center, 2014 Population Estimates
Components of Population Change by Percent in Texas, 1950-2010

- **Migration**
- **Natural Increase**

<table>
<thead>
<tr>
<th>Decade</th>
<th>Migration</th>
<th>Natural Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950s</td>
<td>10.5%</td>
<td>89.5%</td>
</tr>
<tr>
<td>1960s</td>
<td>13.3%</td>
<td>86.7%</td>
</tr>
<tr>
<td>1970s</td>
<td>41.5%</td>
<td>58.5%</td>
</tr>
<tr>
<td>1980s</td>
<td>34.1%</td>
<td>65.9%</td>
</tr>
<tr>
<td>1990s</td>
<td>50.3%</td>
<td>49.7%</td>
</tr>
<tr>
<td>2000s</td>
<td>46.3%</td>
<td>53.7%</td>
</tr>
</tbody>
</table>

Source: U.S. Census Bureau, Population Estimates
The 10 U.S. States with the Largest Average Annual Net Domestic Migration by Rank, 2005-2013

<table>
<thead>
<tr>
<th>State</th>
<th>Average Annual Net Domestic Migration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tennessee</td>
<td>24,684</td>
</tr>
<tr>
<td>Oregon</td>
<td>25,422</td>
</tr>
<tr>
<td>Washington</td>
<td>27,763</td>
</tr>
<tr>
<td>Colorado</td>
<td>33,504</td>
</tr>
<tr>
<td>South Carolina</td>
<td>38,189</td>
</tr>
<tr>
<td>Georgia</td>
<td>48,050</td>
</tr>
<tr>
<td>Arizona</td>
<td>53,863</td>
</tr>
<tr>
<td>North Carolina</td>
<td>67,501</td>
</tr>
<tr>
<td>Florida</td>
<td>69,801</td>
</tr>
<tr>
<td>Texas</td>
<td>125,778</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Intensity</th>
<th>D0 Abnormally Dry</th>
<th>D1 Moderate Drought</th>
<th>D2 Severe Drought</th>
<th>D3 Extreme Drought</th>
<th>D4 Exceptional Drought</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>98.62%</td>
<td>1.38%</td>
<td>0.00%</td>
<td>0.00%</td>
<td>0.00%</td>
</tr>
<tr>
<td>Last Week</td>
<td>98.31%</td>
<td>1.69%</td>
<td>0.00%</td>
<td>0.00%</td>
<td>0.00%</td>
</tr>
<tr>
<td>3 Months Ago</td>
<td>98.59%</td>
<td>11.42%</td>
<td>0.12%</td>
<td>0.00%</td>
<td>0.00%</td>
</tr>
<tr>
<td>Start of Calendar Year</td>
<td>95.48%</td>
<td>4.52%</td>
<td>0.00%</td>
<td>0.00%</td>
<td>0.00%</td>
</tr>
<tr>
<td>Start of Water Year</td>
<td>85.41%</td>
<td>15.56%</td>
<td>8.21%</td>
<td>0.00%</td>
<td>1.80%</td>
</tr>
<tr>
<td>One Year Ago</td>
<td>93.29%</td>
<td>6.69%</td>
<td>0.29%</td>
<td>0.00%</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

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

Author:
Chris Fentemore
NOAA/NESDIS/NCEI

http://droughtmonitor.unl.edu/
Texas reservoirs: Monitored water supply reservoirs

June 22, 2016
Density by Census Tract, Austin/San Antonio Corridor, 1970-2010

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

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

Legend:
- 0% - 25%
- 25.1% - 45%
- 45.1% - 65%
- 65.1% - 80%
- 80.1% - 100%

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

Legend

- 0% - 25%
- 25.1% - 45%
- 45.1% - 65%
- 65.1% - 80%
- 80.1% - 100%

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 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

<table>
<thead>
<tr>
<th>County</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harris</td>
<td>37</td>
</tr>
<tr>
<td>Dallas</td>
<td>18</td>
</tr>
<tr>
<td>Bexar</td>
<td>13</td>
</tr>
<tr>
<td>Tarrant</td>
<td>10</td>
</tr>
<tr>
<td>Travis</td>
<td>8</td>
</tr>
<tr>
<td>Williamson</td>
<td>3</td>
</tr>
<tr>
<td>Denton</td>
<td>3</td>
</tr>
<tr>
<td>El Paso</td>
<td>3</td>
</tr>
<tr>
<td>Collin</td>
<td>3</td>
</tr>
<tr>
<td>Montgomery</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: http://www.txdot.gov/inside-txdot/projects/100-congested-roadways.html
Texas Energy Consumption Estimates, 2013

Source: Energy Information Administration, State Energy Data System
Texas Energy Consumption by End-Use Sector, 2014

- Residential: 13.3%
- Commercial: 25.3%
- Industrial: 48.8%
- Transportation: 12.7%

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
Texas Oil Production

Texas Oil Production 2014-2015

Wells Drilled in Texas

Projected Population Growth in Texas, 2010-2050

- **Zero Migration**
- **0.5 of 2000-2010 Migration**
- **2000-2010 Migration**

Source: Texas State Data Center 2014 Population Projections
Projected and Estimated Population Growth in Texas, 2010-2015

- Zero Migration
- 0.5 of 2000-2010 Migration
- 2000-2010 Migration
- Estimates

Projected Population Change, Texas Counties, 2010-2050

-6,200 - 0
1 - 2,000
2,001 - 10,000
10,001 - 100,000
100,001 - 1,000,000
1,000,001 - 3,480,000

Legend
-6,200 - 0
1 - 2,000
2,001 - 10,000
10,001 - 100,000
100,001 - 1,000,000
1,000,001 - 3,480,000

Source: Texas State Data Center 2012 Population Projections . 2000-2010 Migration Scenario
Projected Percent Population Change, Texas Counties, 2010-2050

Legend

LT 0%
0-40%
41-100%
101-250%
251-500%

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.
Lloyd Potter, Ph.D.

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