Household and Civilian Labor Force Projections for Texas and Its Counties, 2010 to 2050

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for

2021 Texas Demographic Conference

Webinar

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TEXAS DEMOGRAPHIC CENTER

@TexasDemography

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What comes to mind when you think about TEXAS POPULATION? -- Type and submit.

Mentimeter

TDC Population Projections and Estimates Program

- Annual population estimates
  - Total population at state, county and place level
  - Population by age, race/ethnicity and sex at state and county level
  - Latest: the 2019 population estimates

- Biennial population projections
  - Population projections by age, race/ethnicity and sex at state and county level
  - 5 mutually exclusive race/ethnicity groups: Non-Hispanic White (NHW), Non-Hispanic Black (NHB), Hispanic, Non-Hispanic Asian (NHA) and Non-Hispanic Other (NHO)
  - Project out 40 years from the base (decennial census) year
  - Latest: 2018 vintage

- Special projections periodically on
  - Household, labor force, income, disability …

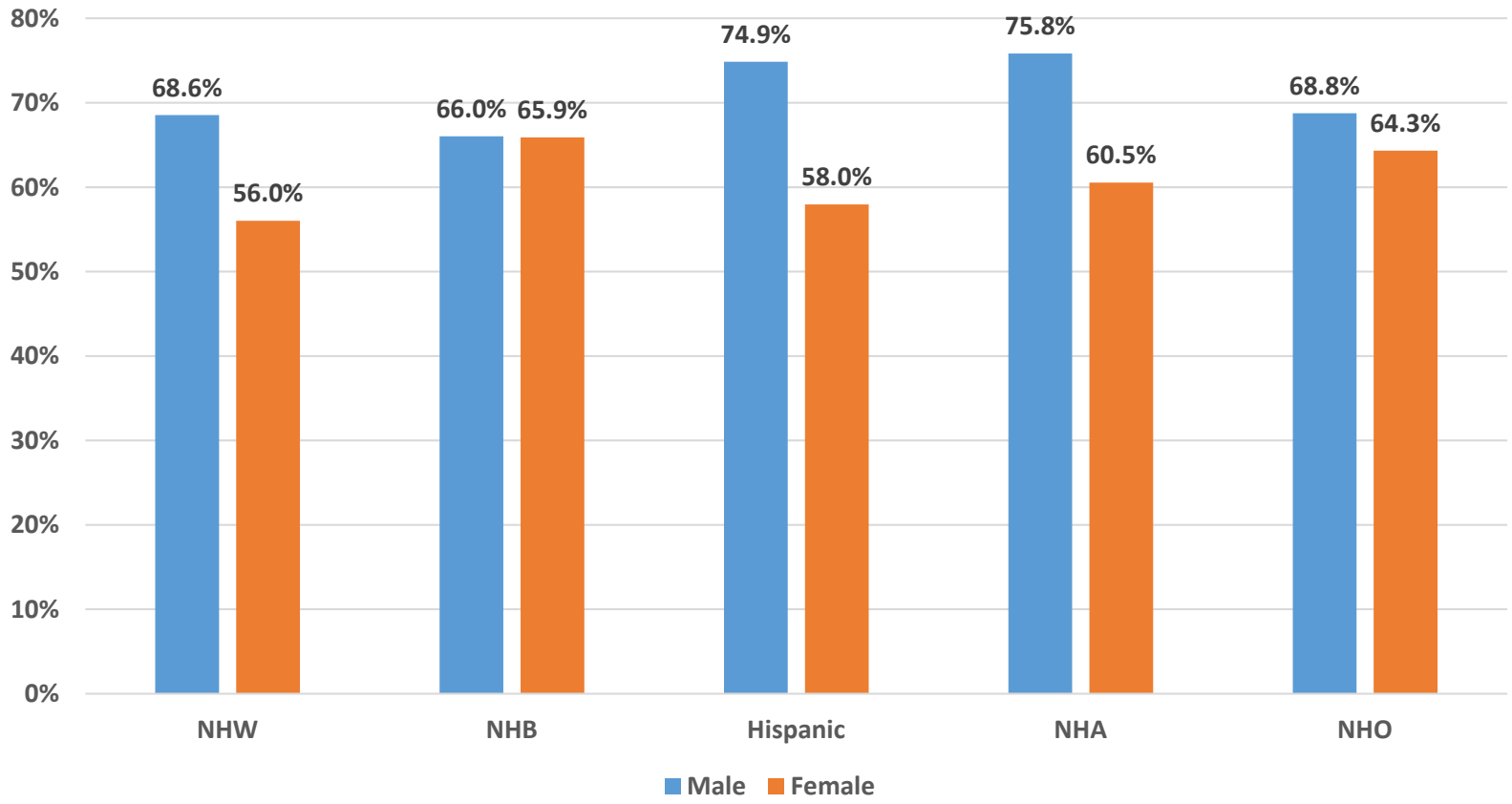
TDC Special Projections

- Two components of change in the special projections:
  - Population
  - Prevalence rates/ratios
- Assuming constant rates:
  - Future outcome = population projection * current rate
- Use age-race-sex-specific rates
- Use county-specific rates for county projections
- Utilize data from the latest Census Bureau American Community Survey (ACS) Summary or PUMS files
- Adjustment for outliers

Civilian Labor Force Projections

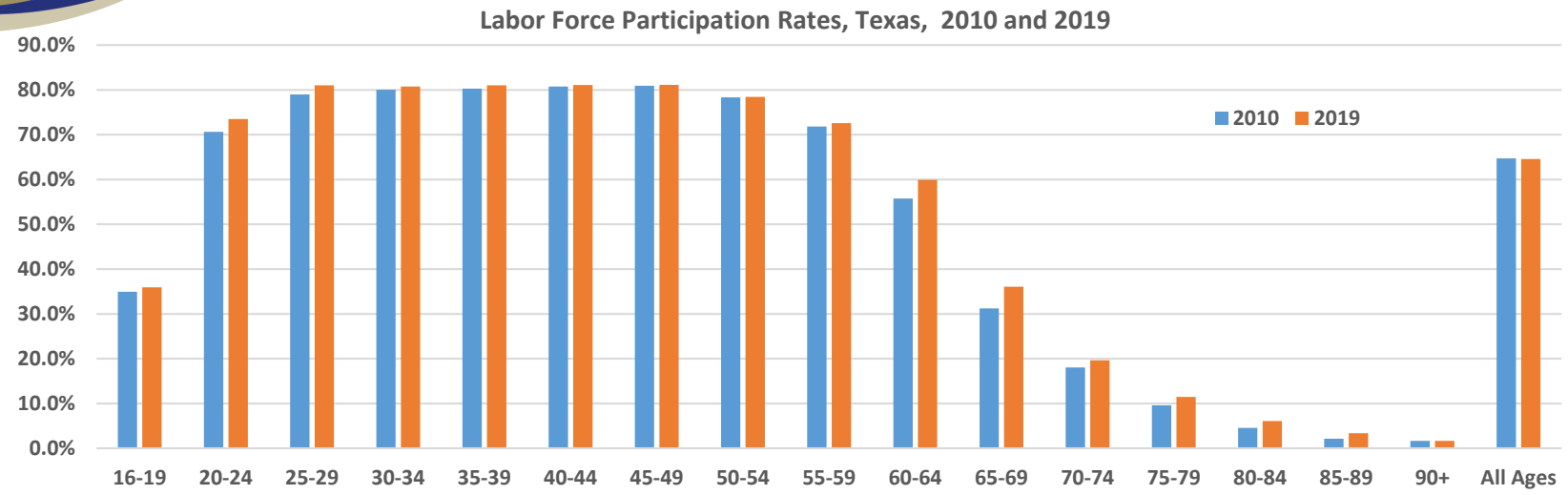
- Calculate labor force participation rates by age, race and sex from 2014-2018 ACS PUMS file for the state and the 254 counties;
- Apply the rates to the 2018 TDC population projections to get state projections and county projections;
- Control the county projections to the state;
- The Civilian Labor Force Projection are available to the public by age group, sex and race/ethnicity for 2010-2050

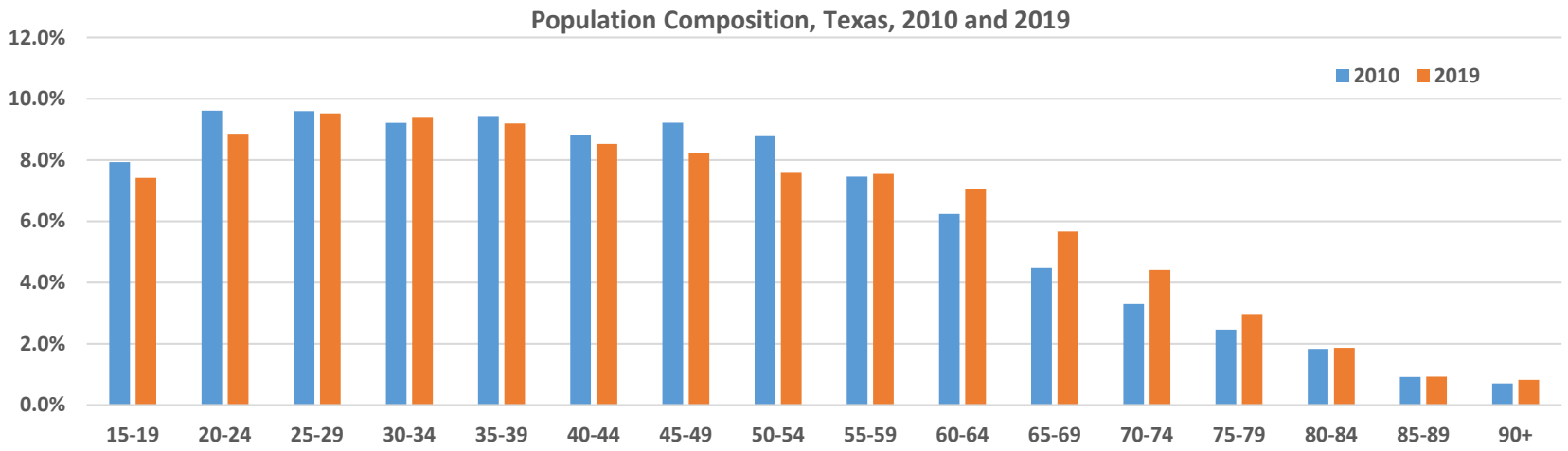
Civilian Labor Force Participation by Race and Gender
Texas, 2019



Source: U.S. Census Bureau, American Community Survey 1-Year PUMS File, 2019

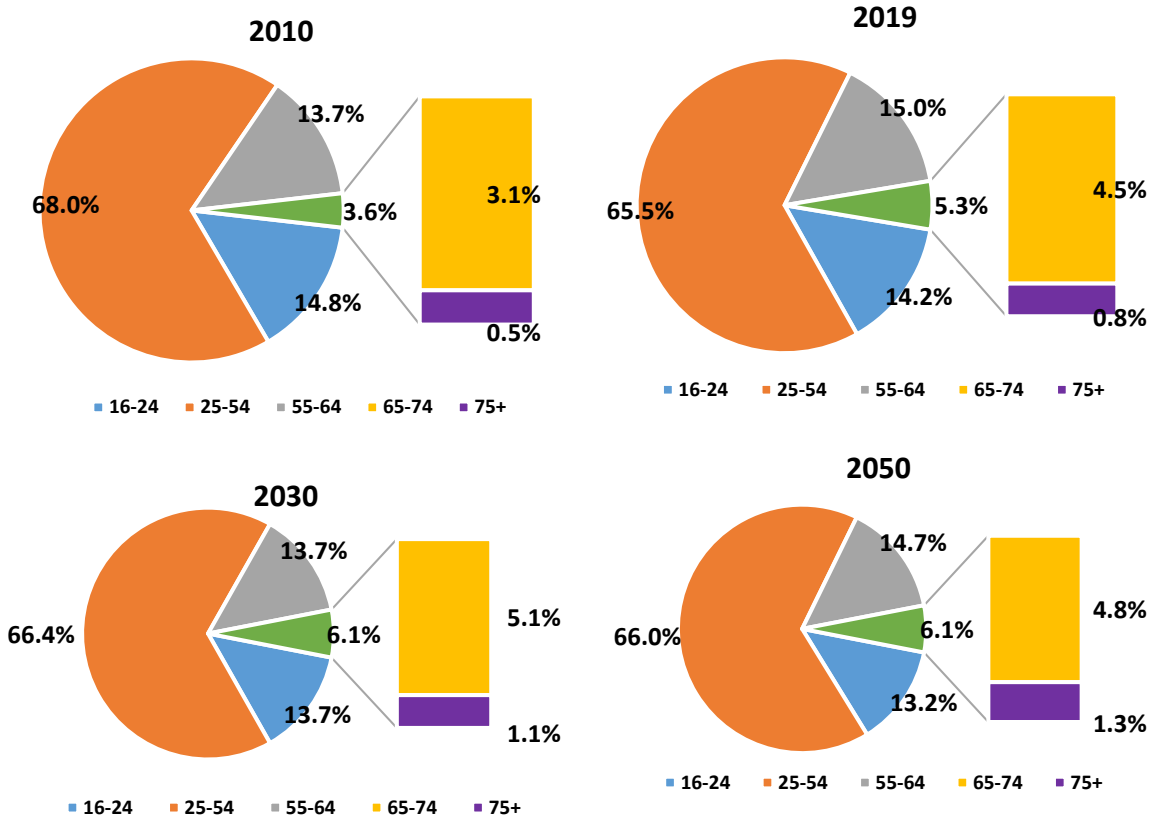
Civilian Labor Force Participation Rates by Age in Texas, 2010 and 2019





Source: U.S. Census Bureau, American Community Survey 1-Year PUMS File, 2010 and 2019

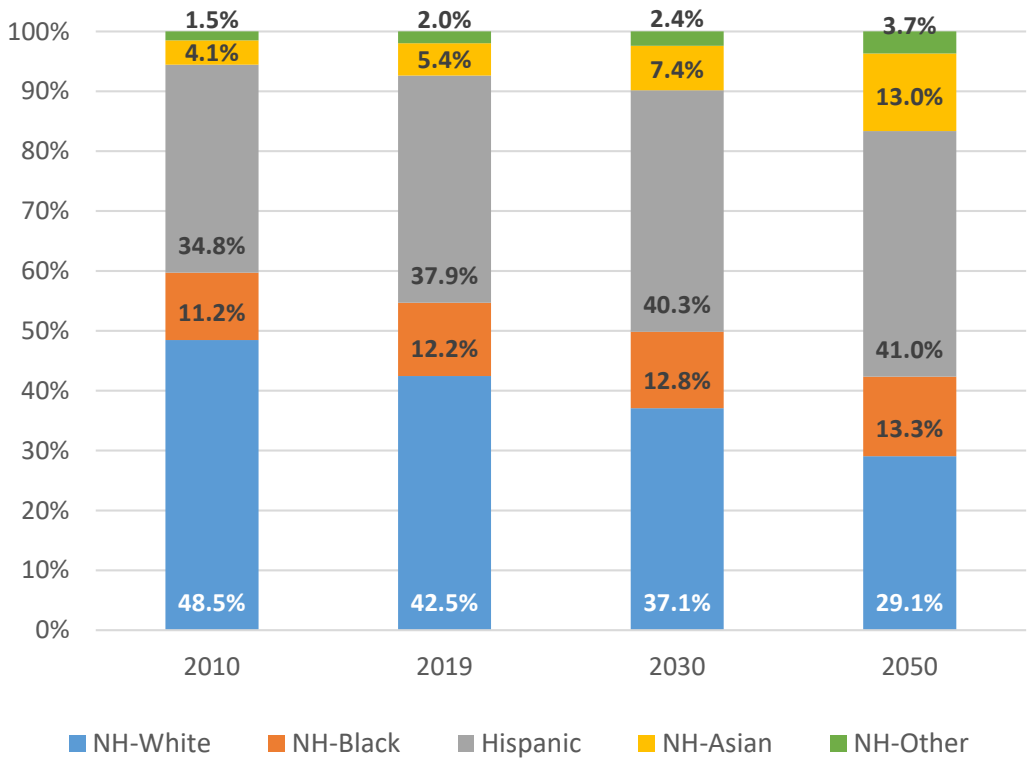
Civilian Labor Force Projection Age



The share of population 65 and older in the labor force has been increasing and is projected to increase until around 2030. It will then stabilize through 2050 as the baby boomer generation ages out of the population.

Sources:
-- Data for the years between 2010 to 2019 come from the U.S Census Bureau American Community Survey 1-Year PUMS file;
-- Data for the years 2020 and beyond come from the Texas Demographic Center Civilian Labor Force Projection

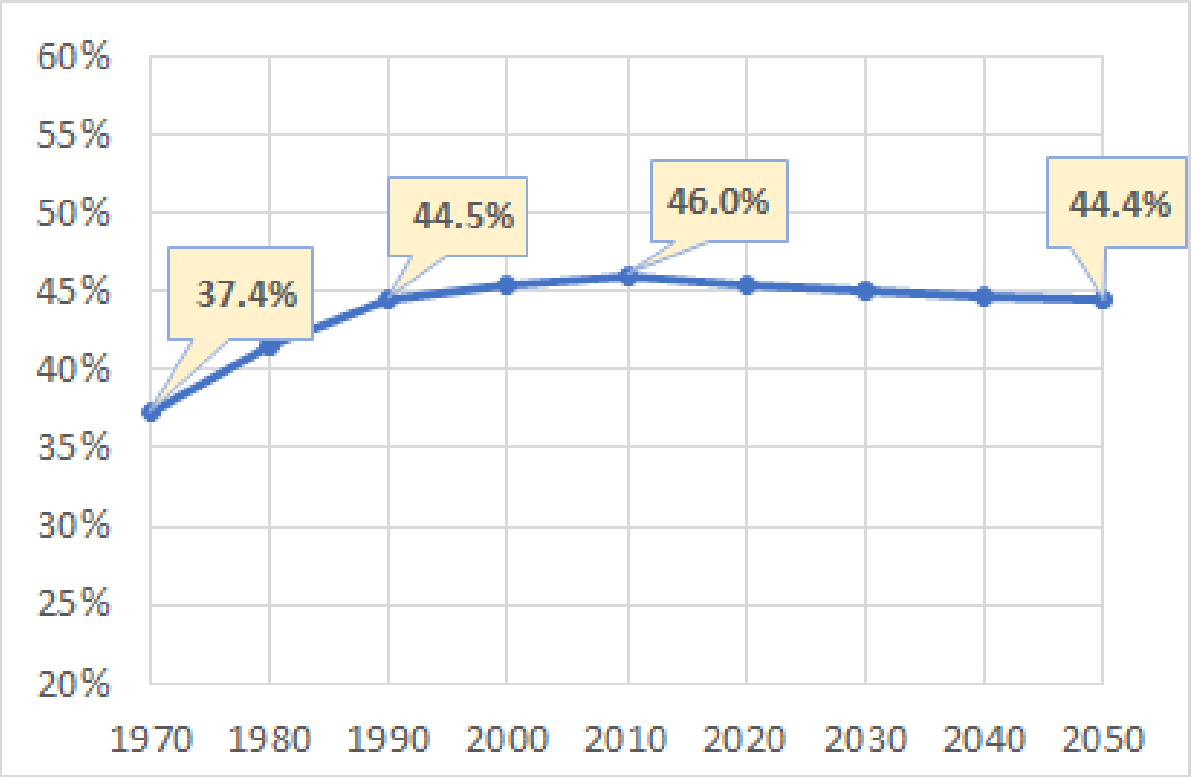
Civilian Labor Force Projection Race/Ethnicity



The Texas labor force will continue to diversify in race/ethnic composition. The share of NH-White has declined from 48.5% in 2010 to 42.5% in 2019. This trend is projected to continue into 2030 and 2050, accompanied by the increase in the share of all the minority groups

Sources:
-- Data for the years between 2010 to 2019 come from the U.S Census Bureau American Community Survey 1-Year PUMS file;
-- Data for the years 2020 and beyond come from the Texas Demographic Center Civilian Labor Force Projection

Civilian Labor Force Projection Gender



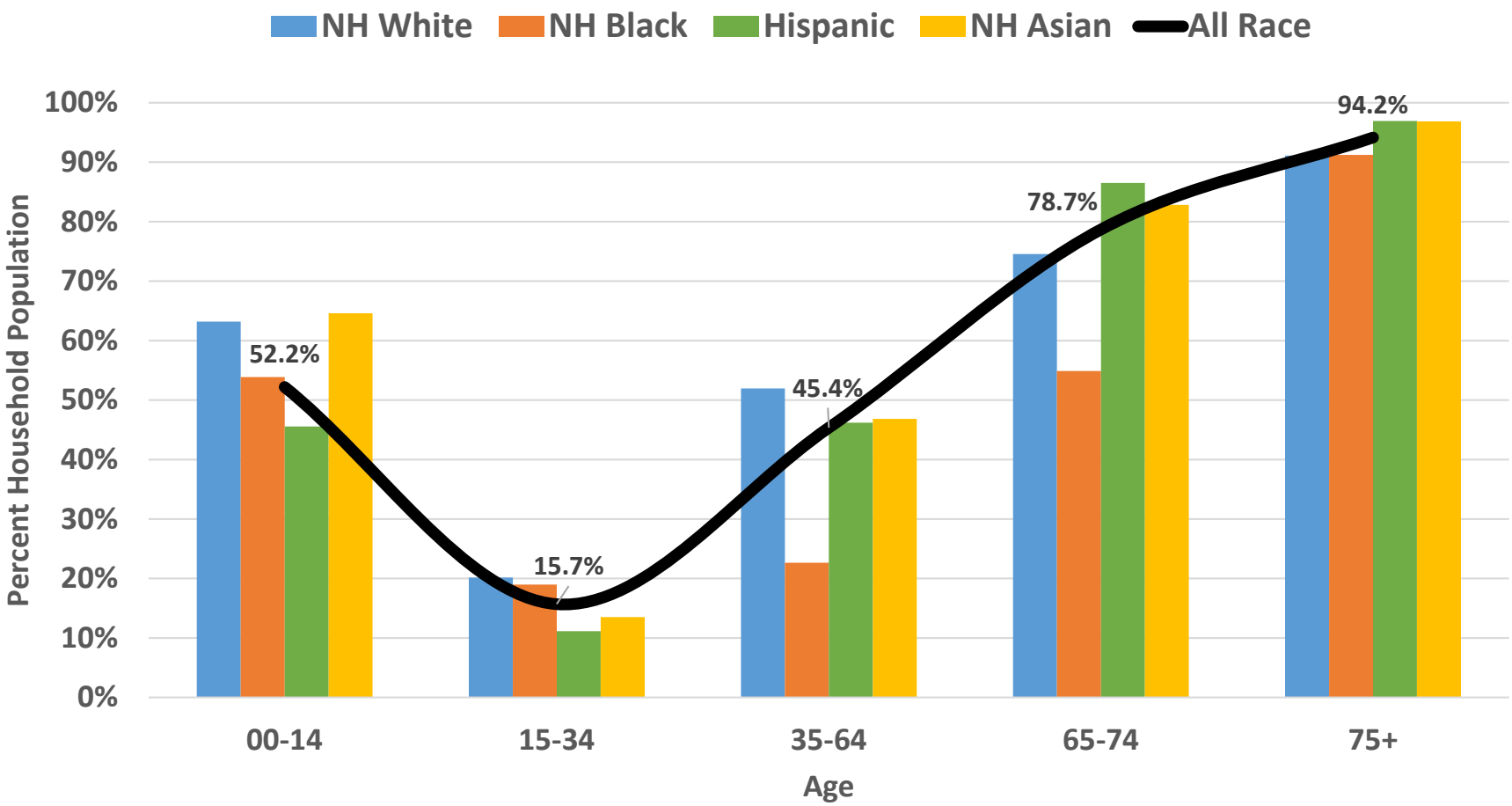
The share of females in the civilian labor force rapidly increased from 37.4% to 44.5% between 1970 and 1990, and peaked at 46.0% in 2010. The trend is projected to stabilize at the post-1990 level between 2020 and 2050.

Sources:
-- Historical data before 2010 come from IPUMS NHGIS, University of Minnesota, www.nhgis.org ;
-- Data for the years between 2010 to 2019 come from the U.S Census Bureau American Community Survey 1-Year PUMS file;
-- Data for the years 2020 and beyond come from the Texas Demographic Center Civilian Labor Force Projection

Household Projections

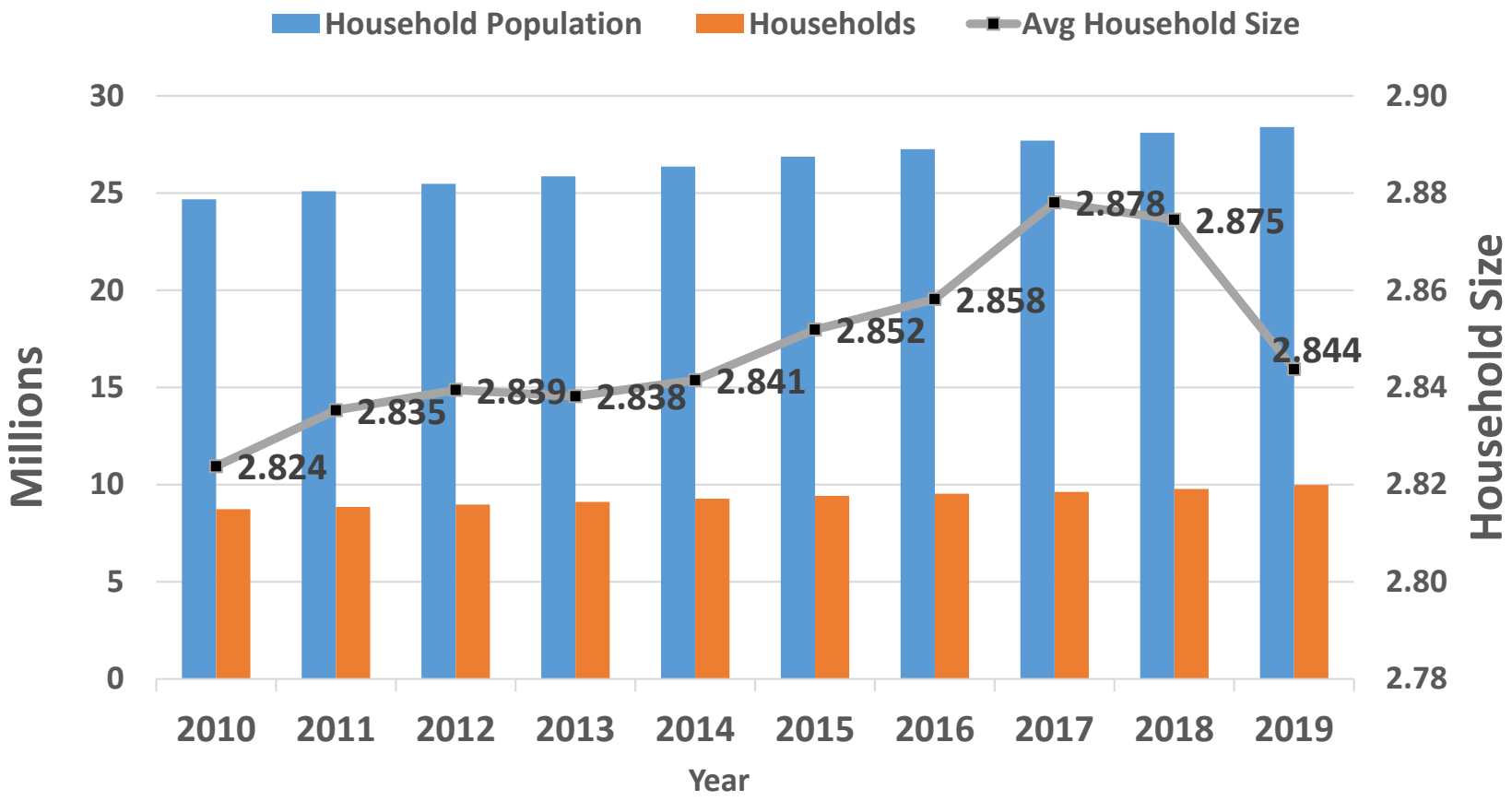
- Project household population by renter, owner status of the households they live in;
- Project the number of households using the ratio of householders to household population by tenure;
- All the rates/ratios are age, sex, race specific and derived from the 2014-2018 ACS PUMS file
- The Household Projections are available to the public by owner/renter status for 2010-2050

Percentage of Household Population Living in Owner Households by Age and Race/Ethnicity, Texas, 2019



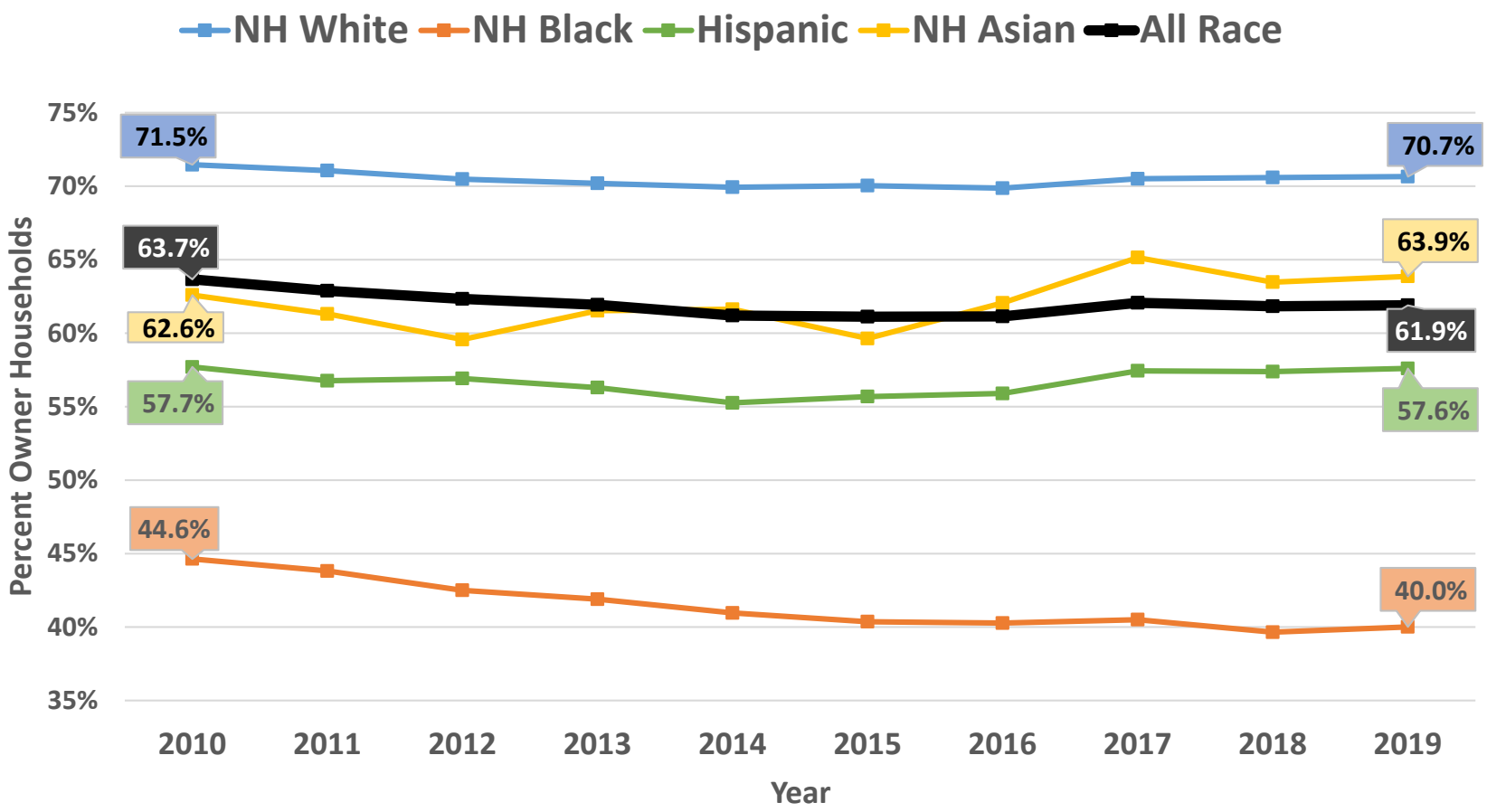
Source: U.S. Census Bureau, American Community Survey 1-Year PUMS File, 2019

Household Population, Number of Households, and Average Household Size, Texas, 2010 -2019



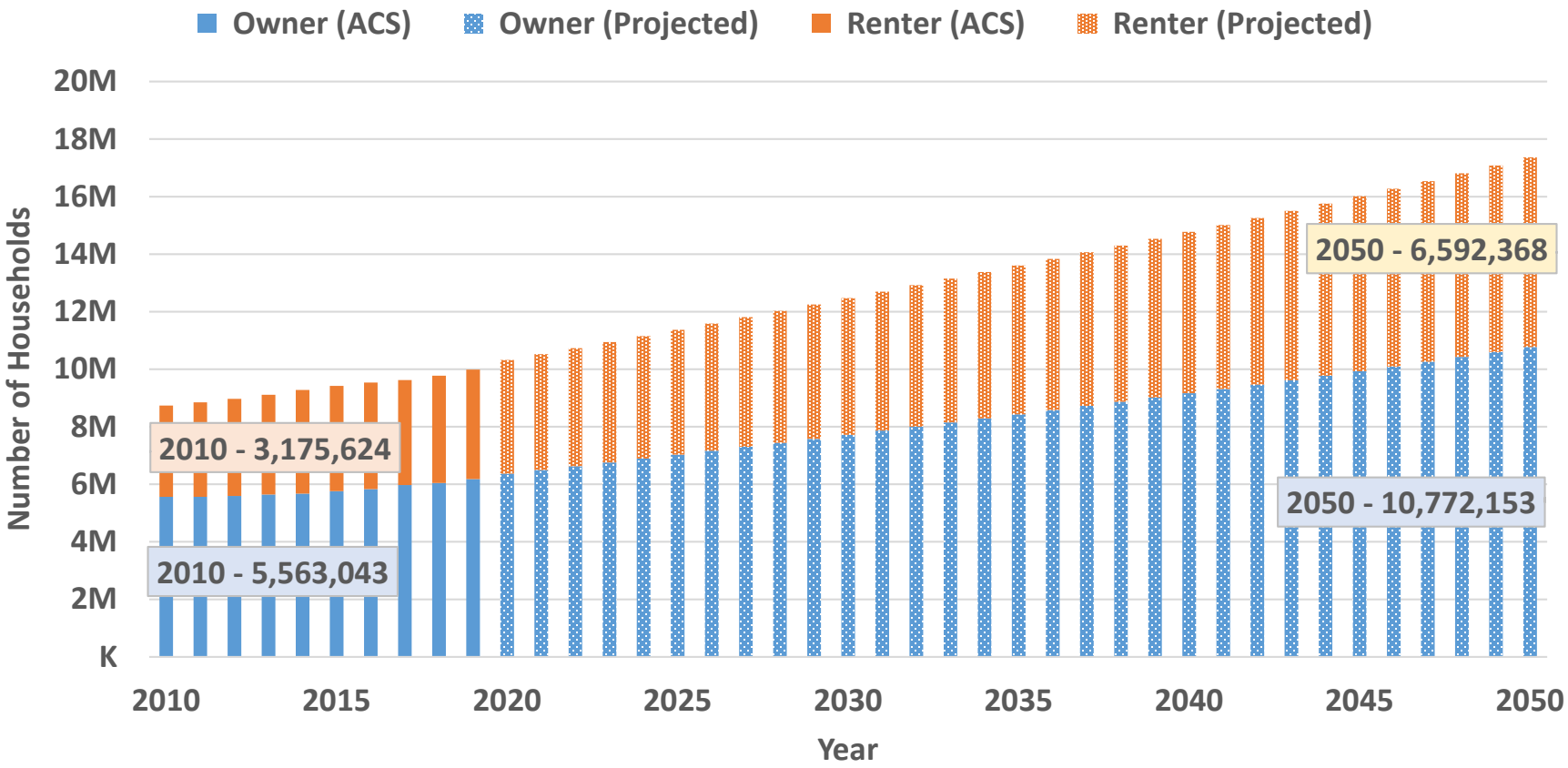
Source: U.S. Census Bureau, American Community Survey 1-Year PUMS File, 2010-2019

Percentage of Owner Households by Race/Ethnicity of the Householder 15 and Over, Texas, 2010 - 2019



Source: U.S. Census Bureau, American Community Survey 1-Year PUMS File, 2010-2019

Number of Households by Tenure, Texas, 2010 -2050



Source: U.S. Census Bureau, American Community Survey 1-Year PUMS File, 2010 - 2019; Texas Demographic Center, Household Projections for Texas

Household Projections
Council of Governments

Council of Governments	Households ACS 2014-2018	Households Projection Year 2030	Numeric Change	Percent Change
Panhandle	155,028	175,935	20,907	13.5%
South Plains	155,386	184,561	29,175	18.8%
Nortex	83,087	85,135	2,048	2.5%
North Central Texas	2,577,725	3,448,455	870,730	33.8%
Ark-Tex	104,849	109,965	5,116	4.9%
East Texas	301,679	332,743	31,064	10.3%
West Central Texas	118,342	129,764	11,422	9.7%
Rio Grande	274,924	329,856	54,932	20.0%
Permian Basin	154,810	240,439	85,629	55.3%
Concho Valley	59,703	71,481	11,778	19.7%
Heart of Texas	129,162	138,931	9,769	7.6%
Capital Area	787,497	1,134,833	347,336	44.1%
Brazos Valley	123,789	158,248	34,459	27.8%
Deep East Texas	137,432	140,893	3,461	2.5%
South East Texas	146,376	157,853	11,477	7.8%
Houston-Galveston	2,368,252	3,255,882	887,630	37.5%
Golden Crescent	70,124	81,632	11,508	16.4%
Alamo Area	844,238	1,147,634	303,396	35.9%
South Texas	96,012	118,581	22,569	23.5%
Coastal Bend	206,029	246,182	40,153	19.5%
Lower Rio Grande Valley	363,874	447,183	83,309	22.9%
Texoma	75,556	84,235	8,679	11.5%
Central Texas	166,636	193,112	26,476	15.9%
Middle Rio Grande	52,536	59,520	6,984	13.3%

Source: U.S. Census Bureau, American Community Survey 2014-2018 5-Year Summary File; Texas Demographic Center, Household Projection

Access the Projection Data

- https://demographics.texas.gov/Data/TPEPP/Projections/#hhPop

Limitations

- These projections are intended as a means of understanding the potential impacts of population and **demographic changes** on the State of Texas and its counties and regions.
- Changes in policy, the economy, and other social and cultural factors will likely result in the changes of the baseline rates.
- More accurate for periods closer to the base time period and become less accurate the longer the period of time is from that base period.
- We monitor the emerging trends and will update the projections periodically to reflect these changes.
- The data we used were collected prior to the pandemic and the 2020 Census

Future Plans

- Special Projections:
  - Household income
  - Family in Poverty
  - Disability
- Population Projections
  - Late 2022/Early 2023
- Population Estimates for 2021
  - Fall 2022

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- Questions?