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A REGION IN DEMOGRAPHIC AND ECONOMIC TRANSITION

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STATE OF THE CAPITAL REGION 2020: A REGION IN DEMOGRAPHIC AND ECONOMIC TRANSITION

Over the past 30 years, the Capital Region has grown more racially diverse, more affluent, and older. In this year's State of the Capital Region, we investigate how these changes in population characteristics developed across the region, focusing especially on racial and ethnic composition, income, age, and household size and type. These characteristics are important determinants of the regional economy. They affect regional labor markets, housing markets, and the demand for public services.

In last year's State of the Capital Region 2019, we focused on housing affordability and production. We found that housing construction was not keeping up with population and job growth. In addition, we showed that house prices grew faster than household incomes, creating pressure on household budgets. This year, we focus on the demand for housing: who lives in the Capital Region? How has that changed over time? And what types of housing might these characteristics suggest residents want?

We analyze population changes by looking both at the entire Capital Region and by focusing on patterns across groups of jurisdictions. The metropolitan area includes the District of Columbia (the District), as well as counties in Maryland, Virginia, and West Virginia. Our analysis explores differences between urban, suburban, and exurban locations, as shown in Figure I.1. Urban jurisdictions are dark blue, suburban jurisdictions are light blue, and exurban jurisdictions are green.





Figure I.1: Urban, Suburban and Exurban Jurisdictions in the Capital Region

Source: Census Bureau, 2010 jurisdictional boundaries.

From 1970 to 2018, the Capital Region's population nearly doubled, from just over three million to slightly more than six million (Figure I.2). This is an average annual growth rate of almost one and a half percent. As of 1970, roughly one-third of the region's population lived in the urban core, slightly over half lived in the suburbs, and the remainder in the exurbs.

In 2018, the suburban jurisdictions still accounted for roughly half of the population. However, the urban core contained just under 20 percent of the population, and the exurbs have grown to nearly one-third of the regional population. This shift towards the exurbs links to one of the key findings from last year's State of the Capitol Region report: exurban jurisdictions built much more new housing than either the urban or suburban jurisdictions over the past 20 years.



Figure I.2: Suburban and Exurban Jurisdictions Have Grown Fastest

Population by jurisdiction type, 1970-2018



Source: Decennial Census 1970-2000; American Community Survey 2004-2009 to 2014-2018."



As the remaining three chapters of the report show, the region's population characteristics changed substantially since 1970 as well. Regional population characteristics can change through three distinct channels: people move into and out of the region, people of differing characteristics are born or die at different rates, or the characteristics of residents who live continuously in the region change.

People's own characteristics change over time if, for instance, they grow older, their household gains or loses members, or their income fluctuates. In contrast, changes in racial and ethnic composition usually reflect differences in who moves into and out of the region. Generally, we cannot identify the primary channel through which different types of changes occur. However, because the exurban jurisdictions experienced very rapid population growth, most changes in these jurisdictions reflect characteristics of the new population.

Since the 1990s, when we begin to measure neighborhood income, household incomes have risen, leading to a more prosperous region, as we show in Chapter 1.¹ In 1990, the Capital Region's lowest income neighborhoods were concentrated in the urban core. However, over time, the District in particular has become more affluent. Moreover, the entire distribution of neighborhood income has shifted over time, with many middle-income neighborhoods becoming upper-middle-income neighborhoods. There are now more urban neighborhoods with median incomes over \$200,000 than neighborhoods with incomes under \$30,000 (adjusting for inflation).

Since the 1980s, the Capital Region has grown increasingly diverse, as we show in Chapter 2. Region-wide, the share of white residents has declined, the share of Black residents has remained relatively constant, and the share of Hispanic residents has increased. Looking beneath this overall pattern, the trends across urban, suburban, and exurban jurisdictions look quite different. Notably, the urban jurisdictions have seen a decline in the share of Black residents, with increases in white and Hispanic residents. While the suburbs and exurbs are majority white, they too have become more diverse over time.

In Chapter 3, we show that the age and household composition in the Capital Region have changed, largely mirroring changes in the U.S. population. Like the U.S., the region is aging: the share of residents over age 59 is increasing, while the share of people under age 18 is declining. The suburban jurisdictions are aging most rapidly, while the share of children is declining across urban, suburban, and exurban jurisdictions. Household composition has also changed, most notably with a rise in the share of single-person households.

Population, demographic, and economic changes in the Capital Region have a number of important public policy implications. As the population ages and the share of children declines, there will be relatively less demand for schools and more need for services for older adults. Aging also implies changes to the labor market, such as a reduced pool of entry-level job candidates. And as the share of retirees grows, they may alter transportation patterns. Increases in income, such as those present in the Capital Region, generally translate into a demand for more and higher quality housing. An increasingly racially and ethnically diverse population also means changes in what consumers want and how they prefer to spend money. Policymakers should begin to plan now for how they can provide–and sustainably finance–necessary shifts in relevant local infrastructure, including schooling and transportation.

^{1 1990} is the first year for which we observe neighborhood-level income for the entire Capital Region.



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Capital Region

District of Columbia

Maryland

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	Frederick County	32	
	Montgomery County	34	
	Prince George's County	36	
/irginia			
	Alexandria City	.38	
	Arlington County	.40	

Clarke County	.42
Culpeper County	.44
Fairfax city	46
Fairfax County	48
Falls Church city	50
Fauquier County	52
Fredericksburg city	54
Loudoun County	56
Manassas city	58
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PART 1: A REGION IN DEMOGRAPHIC AND ECONOMIC TRANSITION

CHAPTER 1: THE CAPITAL REGION SEES INCOME GROWTH, BUT SOME NEIGHBORHOODS ARE LEFT BEHIND



The Capital Region has grown significantly more prosperous over the past quarter century. As a result, the overwhelming majority of neighborhoods² have seen median household incomes rise.

Figure 1.1, which compares the distribution of median household incomes for these neighborhoods in 1990 and 2018, shows that this shift has led to a greater range of incomes across neighborhoods.³

Figure 1.1: Income Rises in the Capital Region



Neighborhood median income, 1990 and 2018

Sources: Decennial Census 1990; American Community Survey 2014-2018.

This figure shows the income distribution of Capital Region neighborhoods in 1990 (lighter purple) and 2018 (darker purple). The horizontal axis shows neighborhood median income, and the vertical axis shows the share of neighborhoods at the corresponding median incomes.

³ All dollar values are adjusted for inflation and expressed as of 2018.



² In this chapter, neighborhoods are census block groups, the smallest areas for which the U.S. Census Bureau produces sample data.

Many neighborhoods throughout the region shifted from roughly middle income (incomes between \$50,000 and \$100,000) to upper-middle income (above \$125,000 and below \$250,000). Figure 1.2 shows the same 1990 and 2018 distributions as in Figure 1.1 for urban, suburban, and exurban jurisdictions separately. In all three area types, neighborhoods moved to the right, indicating an increase in median income. This change has been far more dramatic in exurban and urban jurisdictions than in the suburbs.

Figure 1.2 Incomes Increase in Urban, Suburban, and Exurban Areas

Neighborhood median income, 1990 and 2018



(A) Urban Jurisdictions



(B) Suburban Jurisdictions



Sources: Decennial Census 1990; American Community Survey 2014–2018.



In 1990, there were practically no exurban neighborhoods with median incomes over \$150,000. But now, one out of every eight fits that description. Perhaps even more remarkably, there are now more urban neighborhoods with median incomes over \$200,000 than neighborhoods with median incomes below \$30,000. In fact, the median urban neighborhood in the region has a median household income of about \$100,000, 40 percent more than in 1990.

This pattern is less pronounced in the suburbs. While the median income of neighborhoods in the suburbs has grown, it is comparably subdued. The share of low-income neighborhoods in suburban areas has actually grown since 1990. This reflects a national trend of increasing suburban poverty (Kneebone and Berube 2014).

Individual jurisdictions illustrate these broader trends. Figure 1.3 depicts the District; Fredericksburg, Virginia; and Manassas, Virginia. Unsurprisingly, the District is driving the changes observed in the urban core. The share of neighborhoods with a median income near \$50,000 has declined by roughly half from 1990 to 2018. In their place, the number of neighborhoods with a median income of over \$100,000 has more than doubled. This is a hollowing out of middle-income neighborhoods.

Figure 1.3 Most, but Not All, Jurisdictions Are Shifting from Middle- to Upper-Middle Income

Neighborhood median income, 1990 and 2018



(A) Urban: Washington, DC



(B) Exurban: Fredricksburg, Virginia



(C) Suburban: Manassas, Virginia



Sources: Decennial Census 1990; American Community Survey 2014-2018.



Fredericksburg reflects the prevailing pattern among exurban jurisdictions. In 1990, Fredricksburg had no neighborhoods with a median income of over \$100,000. Most neighborhoods had median incomes clustered around \$50,000. By 2018, as the number of neighborhoods with a higher median income increased, the city had a much wider distribution of neighborhood income.

The story of suburban stasis is well-illustrated by Manassas. The distribution of income across neighborhoods in this city is about the same in 2018 as in 1990.

In sum, the greater range in incomes that we observed at the level of the entire Capital Region is driven by formerly middle-income neighborhoods becoming upper-middle income. At least in the District, much of this change is driven by the changing composition of new households. We explore this theme in the report's next chapter.

Box One: In the Exurbs, Higher Income Residents Increasingly Live in Areas with Greater Population Density

As we discussed in the introduction, a greater share of Capital Region residents now live in the exurbs. In addition, the total number of exurban residents has grown. These migration patterns, combined with deliberate land use choices, have raised the population density of neighborhoods in exurban jurisdictions across the board. The relationship between income and population density has shifted with these changes.

While in 1990 higher income exurban neighborhoods had significantly lower density than neighborhoods with lower median incomes, this is no longer the case. Figure B1.1 shows that there are now numerous relatively high-density exurban neighborhoods with median incomes over \$150,000–even though practically no such neighborhoods existed a quarter century ago.

Figure B1.1: Changing Relationship between Neighborhood Population Density and Income in the Exurbs

Neighborhood median income versus neighborhood population density in exurban neighborhoods, 2018



Source: American Community Survey 2014-2018. We omit one urban neighborhood that has a population density below one person per sq km.



CHAPTER 2: A MORE RACIALLY AND ETHNICALLY DIVERSE REGION



As the population of the Capital Region has grown, it has also become more racially and ethnically diverse (Figure 2.1). In 2018, Black residents were a quarter of the regional population, and Hispanic residents just over 15 percent. White residents are the largest single group, accounting for just over half of the regional population.

This is a stark change from the racial composition of the Capital Region in 1980. While the share of Black residents is roughly unchanged, the share of Hispanic residents has increased about five times, from just under three percent to 15 percent. In almost a mirror image, the share of white residents has declined, from almost 70 percent of the region's population in 1980, to just over one-half today.

Figure 2.1: The Capital Region Becomes More Diverse



Share of population by racial or ethnic group, 1980 to 2018

Source: Decennial Census 1970-2000; American Community Survey 2004-2009 to 2014-2018.



Changes across urban, suburban, and exurban jurisdictions are remarkably different, as shown in Figures 2.2 through 2.4. In urban jurisdictions, the share of white and Hispanic residents has grown, while the share of Black residents has declined (Figure 2.2(a)). While white residents accounted for four in ten urban dwellers in 1980, the current figure is greater than five in ten. Likewise, while Hispanic residents made up less than four percent of the urban population in 1980, they now comprise more than 12 percent of the total urban population. Over the same period the share of Black residents fell from 54 percent to 35 percent.

Figure 2.2 In Urban Jurisdictions, the Share of Blacks Declined While the White and Hispanic Share Grew



Source: Decennial Census 1970-2000; American Community Survey 2004-2009 to 2014-2018.

Much of this change in the urban population has been driven by changes in the District (Figure 2.2(b)). While in the District Black residents' share has fallen from 70 percent in 1980 to just under half in 2018, the share of Black residents in both Alexandria and Arlington is virtually unchanged since 1980. This transformation largely reflects a population resurgence in the District driven by an influx of white residents.



In the suburbs, white residents made up the majority of residents in 1980. As of 2018, their share has declined, but white residents continue to comprise the plurality of residents (Figure 2.3(a)). In 1980, white residents accounted for three in four suburban residents; now whites account for roughly one in two residents. At the same time, the share of Black and Hispanic residents increased: Black from 18 percent to 28 percent, and Hispanic from three percent to 18 percent.

Figure 2.3 While the Suburbs Are Increasingly Diverse, Many Remain Majority White

(A) All Suburban Jurisdictions (B) Prince George's County, Maryland 0.75 0.75 White Black 0.50 0.50 Black White 0.25 0.25 0.00 0.00 1980 1990 1980 1990 2000 2010 2018 2000 2010 2018

Share of population by racial or ethnic group, 1980 to 2018

Source: Decennial Census 1970-2000; American Community Survey 2004-2009 to 2014-2018

While Black and Hispanic residents' share in suburban jurisdictions has grown, this growth is concentrated in particular parts of the suburbs. Nowhere is this change as visible as in Prince George's County, Maryland (Figure 2.3(b)). Like most suburbs, the majority of residents in Prince George's County were white in 1980. White residents accounted for almost 60 percent of the population and Black residents the remainder.

By 2018, the racial composition of the County had shifted dramatically. Today, over 60 percent of Prince George's County residents are Black and just under 20 percent are white. Like other suburban jurisdictions, the County has also experienced a significant increase in the Hispanic population.



The exurban jurisdictions have diversified as well, though they remain overwhelmingly white (Figure 2.4(a)). In 1980, over 85 percent of exurban residents were white and just over ten percent were Black. The share of white residents declined in the exurban communities between 1980 and 2018, but not as quickly as it did in the suburban jurisdictions. By 2018, the share of white residents in the exurban jurisdictions had fallen to just under 70 percent. The share of Black residents had climbed to 16 percent. During this period, the share of Hispanic residents living in exurban jurisdictions rose from just slightly above one percent to 14 percent.

Figure 2.4: Growth in the Black and Hispanic Populations Is Slowest in the Exurbs



Share of population by racial or ethnic group, 1980 to 2018

Source: Decennial Census 1970-2000; American Community Survey 2004-2009 to 2014-2018.

Loudoun County, Virginia, the largest exurban jurisdiction, typifies this pattern (Figure 2.4(b)). In 1980, the racial composition of Loudoun County was roughly representative of all exurban jurisdictions. Almost 90 percent of residents were white and somewhat less than ten percent were Black.

By 2018, the share of white residents had fallen to just over two-thirds, and the share of Black residents remained steady. The Hispanic population grew during this period to comprise almost 15 percent of Loudoun County residents.

In sum, the Capital Region has become strikingly more racially and ethnically diverse since 1980. The share of Black residents has remained relatively constant, but the share of white residents has declined, while the share of Hispanic residents has increased. These patterns hold for most, but not all jurisdictions. While urban jurisdictions have increased their share of white residents, this share has declined in exurban and particularly in suburban jurisdictions.



CHAPTER 3: CAPITAL REGION RESIDENTS ARE AGING AND MORE LIKELY TO LIVE ALONE



Like other U.S. metropolitan areas, the Capital Region's population is aging. In 1970, more than one-third of the region's residents were under age 18 (Figure 3.1). By 2018, the share of children had fallen to under one-quarter, and those over age 45 accounted for almost 40 percent of the population. Despite this decline in share, the total number of children under 18 has increased by more than 300,000, meaning that the Capital Region still needs more school seats than it did in 1970.

Figure 3.1: The Capital Region Is Aging

Distribution of population by age, 1970-2018



Source: Decennial Census 1970 to 2000; American Community Survey 2004-2009 to 2014-2018.

In addition to the decrease in the share of children, children's location within the Capital Region has changed. The map in Figure 3.2 shows neighborhoods by the share of people under 18.⁴ We divide neighborhoods into four categories, based on the share of population under 18. The darkest-colored neighborhoods have the highest concentration of children–these are the top 25 percent of neighborhoods by share of children. In these neighborhoods, children account for between 27 and 51 percent of the population. In the lightest colored neighborhoods, the bottom 25 percent by share of children, children under 18 account less than 20 percent of the population.

Notably, comparing the right panel of the figure with urban and suburban jurisdictions to the entire Capital Region on the left, suburban and exurban areas have the most child-abundant neighborhoods. Roughly half of exurban neighborhoods and almost 60 percent of suburban neighborhoods have a greater share of children than the median Capital Region neighborhood. In contrast, less than 30 percent of urban neighborhoods have a greater share of children than the median neighborhood.

⁴ In this map, neighborhoods are census-defined zip code tabulation areas.



Figure 3.2: Households with Children Live Far from the Urban Core

Share of population under age 18 by neighborhood, 2018



REGION DETAIL



Children Under 18 as a Share of Population



Source: American Community Survey 2014-2018. Map shows census-defined zip code tabulation areas. Inset panel shows urban and suburban jurisdictions.



In the same vein, the share of households with children has also declined since 1980 (Figure 3.3). While households with children are still substantially more prevalent in exurban and suburban jurisdictions relative to urban ones, the share of households with children is declining. While quite small in magnitude, urban jurisdictions saw a small increase in the share of households with children since 2000. Whether this is a long-run trend, or whether the high cost of housing in urban jurisdictions will limit the growth of families with children, remains an open question.

Figure 3.3 Across All Parts of the Capital Region, Fewer Households Have Children

Share of households with children under 18, 1980-2018



Source: Decennial Census 1980 to 2000; American Community Survey 2004-2009 to 2014-2018.



While urban jurisdictions have the fewest households with children, suburban jurisdictions have the highest share of residents over 59 (Figure 3.4). In 1980, people over 59 accounted for well under ten percent of suburban residents; in 2018, that number is almost 20 percent. In addition, those over 59 account for an increasing share of the exurban population.

In urban jurisdictions, the share of those over 59 increased slightly from 1970 to 1980, but has been roughly constant at about 15 percent since.

Figure 3.4: The Suburban Jurisdictions Are Aging the Most Rapidly



Share of population over age 59 by jurisdiction type, 1970-2018

Source: Decennial Census 1970 to 2000; American Community Survey 2004-2009 to 2014-2018.



As the population ages, overall household sizes have declined. Figure 3.5 shows the long-run growth in single-person households in the Capital Region since 1980.⁵ In all years, single-person households make up by far the largest household type in urban jurisdictions. One-person households account for around 40 percent of urban households, and are always less than 30 percent of suburban and exurban households. However, the share of one-person households fell slightly with the Great Recession, making the long-term trend difficult to discern.

Figure 3.5 Share of One-Person Households Growing Everywhere

One-person households as a share of all households, by jurisdiction type, 1980 to 2018



Source: Decennial Census 1980 to 2000; American Community Survey 2004-2009 to 2014-2018.

Households living in group quarters, which include university dormitories, are excluded from our analysis in this section.

⁵ Households living in group quarters, which include university dormitories, are excluded from our analysis in this section.



The Capital Region mirrors most other U.S.metropolitan areas with the growth of older adults, a decline in households with children, and a rise in single-person households. These broader trends towards older, smaller households with fewer children suggest that the region's housing stock-the majority of which is <u>single-family detached houses</u> –may no longer fit households' needs and preferences.⁶ Additionally, these trends will have implications for a variety of public services, including demand for schools and elder care, as well as for housing markets

Box Two: Is the Capital Region Ready for an Aging Population?

Responding to the challenges of an aging society, the AARP Public Policy Institute created the Livability Index, which scores communities based on age-friendly criteria in seven categories: housing, neighborhood, transportation, environment, health, engagement, and opportunity (AARP n.d.). Each category receives a score from zero to 100, where 100 is the most age friendly.

Capital Region jurisdictions have Livability Scores ranging from a low of 43 in Warren County, to a high of 65 in Arlington County, Virginia.

Within the Capital Region, there are nine jurisdictions where residents over age 59 currently comprise at least 20 percent of the population. Of these, Clarke and Rappahannock counties stand out, with more than 20 percent of their populations over age 64. Moveover, people age 80 and above account for more than five percent of the population in both these jurisdictions.

Figure B2.1 shows each Capital Region jurisdiction's AARP score and the share of residents over 59. The jurisdictions with the lowest AARP scores are generally exurban. These jurisdictions have predominantly single-family detached housing, older housing structures, and almost no residents who use public transit for daily commutes.

In contrast, the suburban jurisdictions of Montgomery County and Fairfax city have Livability Scores over 60. Relative to the exurban jurisdictions, they have relatively less single-family detached and older housing, and a greater share of residents using public transportation. However, they both have higher shares of housing cost-burdened households.⁷ These contrasts highlight the challenges many communities face in their efforts to achieve age-friendly places.

⁶ In the State of the Capital Region 2019, we show that single-family detached homes account for more than 60 percent of existing homes in 2000. Single-family detached homes are a similar proportion of homes constructed between 2000 to 2017.

⁷ Based on the U.S. Department of Housing and Urban Development definition of spending more than 30 percent of income on housing costs (HUD n.d.).

Figure B2.1 Urban and Suburban Jurisdictions More Livable for Those Over 65 than Exurban Jurisdictions

Share of population over age 59; AARP Livability Score



Source: American Community Survey 2014-2018; AARP Livability Index, n.d.



Conclusion

The Capital Region's greatest asset is its residents. Over the past 30 years, the region's population has more than doubled, while also becoming more prosperous, racially and ethnically diverse, and older. Some of these trends persist across urban, suburban, and exurban jurisdictions: in particular, the increase in older adults and decline in households with children is nearly universal. Income gains are particularly notable in the urban core and exurban jurisdictions, while suburban jurisdictions have seen smaller income changes. Racial and ethnic changes also differ across jurisdiction types: the urban core has seen a decline in the share of Black residents and increases in shares of white and Hispanic residents. Both suburban and exurban jurisdictions have become increasingly diverse, although they remain majority white.

Economic and demographic changes in the Capital Region have implications for labor markets, housing markets, public services, and private businesses. An aging population portends fewer entry-level workers, less demand for schools and child-centered activities, and greater need for services to older adults. Income gains are associated with increasing demand for most goods and services–notably including higher quality housing in high-amenity locations. An increasingly racially and ethnically diverse population also points to changes in consumer preferences and spending patterns.

For policymakers, it is unquestionably easier to lead a dynamic region that is growing in size and income. Looking ahead, the greatest challenge is to ensure that economic gains and access to economic opportunity are available for all types of people and geographic areas.

PART II: HOUSING AND DEMOGRAPHIC INDICATORS THROUGHOUT THE CAPITAL REGION



CAPITAL REGION



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018 White Black 2018 Hispanic

0.25 Source: Decennial Census 1980; American Community Survey 2014-2018.

All Others

0.00



Share of Households, by Number of Household Members, 1980 and 2018

0.50

0.75

1.00

Source: Decennial Census 1980; American Community Survey 2014-2018.



CAPITAL REGION

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.

Income Distribution, 1990 and 2018



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



Source: American Community Survey 2014-2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.

Number of Zip Codes



DISTRICT OF COLUMBIA, DC



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018 White Black Hispanic All Others 0.00 0.25 0.50 0.75 1.00

Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018

Source: Decennial Census 1980; American Community Survey 2014-2018.





DISTRICT OF COLUMBIA, DC

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1990; American Community Survey 2014–2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



Source: American Community Survey 2014-2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.





CALVERT COUNTY, MD



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018

Source: Decennial Census 1980; American Community Survey 2014-2018.




CALVERT COUNTY, MD

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



Source: American Community Survey 2014-2018.





CHARLES COUNTY, MD



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





CHARLES COUNTY, MD

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.





Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group. Number Housing Units Built 2000 and After by Zip Code





Source: American Community Survey 2014-2018.



Population

FREDERICK COUNTY, MD



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





FREDERICK COUNTY, MD

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



Source: American Community Survey 2014-2018.



MONTGOMERY COUNTY, MD



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





MONTGOMERY COUNTY, MD

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.





Source: Decennial Census 1990; American Community Survey 2014–2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



Red lines: Metro

Orange lines: Highways

> \$94,891 & ≤ \$124,859
> \$74,598 & ≤ \$94,891
≤ \$74,598



Source: American Community Survey 2014-2018.





PRINCE GEORGE'S COUNTY, MD



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





PRINCE GEORGE'S COUNTY, MD

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1990; American Community Survey 2014–2018. Note: "Neighborhood" in this graph is the census block group.

Income by Neighborhood, 2018



Source: American Community Survey 2014-2018.



Population

ALEXANDRIA CITY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





ALEXANDRIA CITY, VA



Source: American Community Survey 2014-2018.



ARLINGTON COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





ARLINGTON COUNTY, VA





Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



Red lines: Metro Orange lines: Highways

> \$94,891 & ≤ \$124,859
> \$74,598 & ≤ \$94,891
≤ \$74,598



Source: American Community Survey 2014-2018.





CLARKE COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





CLARKE COUNTY, VA

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



Source: American Community Survey 2014-2018.





CULPEPER COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





CULPEPER COUNTY, VA



Source: American Community Survey 2014-2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.

Number of Zip Codes





FAIRFAX CITY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





FAIRFAX CITY, VA

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.

Income Distribution, 1990 and 2018



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018





Source: American Community Survey 2014-2018.



FAIRFAX COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





FAIRFAX COUNTY, VA



Source: American Community Survey 2014-2018.



Population

FALLS CHURCH CITY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





FALLS CHURCH CITY, VA



Note: "Neighborhood" in this graph is the census block group.

Source: American Community Survey 2014-2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.

Number of Zip Codes



Population

FAUQUIER COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





FAUQUIER COUNTY, VA

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1990; American Community Survey 2014–2018. Note: "Neighborhood" in this graph is the census block group.

Income by Neighborhood, 2018



Red lines: Metro

Orange lines: Highways

> \$94,891 & ≤ \$124,859 > \$74,598 & ≤ \$94,891 ≤ \$74,598



Source: American Community Survey 2014-2018.





FREDERICKSBURG CITY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





FREDERICKSBURG CITY, VA

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



Red lines: Metro

Orange lines: Highways

> \$94,891 & ≤ \$124,859 > \$74,598 & ≤ \$94,891 ≤ \$74,598



Source: American Community Survey 2014-2018.



LOUDOUN COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





LOUDOUN COUNTY, VA

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.

Income Distribution, 1990 and 2018



Source: Decennial Census 1990; American Community Survey 2014–2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



> \$124,859 > \$94,891 & ≤ \$124,859 > \$74,598 & ≤ \$94,891 ≤ \$74,598



Source: American Community Survey 2014-2018.





MANASSAS CITY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





MANASSAS CITY, VA

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group.

Income by Neighborhood, 2018



Source: American Community Survey 2014-2018.





Population

MANASSAS PARK CITY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018 White Black Hispanic All Others 0.00 0.25 0.50 0.75 1.00

Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





MANASSAS PARK CITY, VA



Note: "Neighborhood" in this graph is the census block group.

Source: American Community Survey 2014-2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.

0.0 0.5 1.0 1.5 2.0

Number of Zip Codes



PRINCE WILLIAM COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





PRINCE WILLIAM COUNTY, VA

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group. Income by Neighborhood, 2018



Red lines: Metro Orange lines: Highways

> \$94,891 & ≤ \$124,859 > \$74,598 & ≤ \$94,891



Source: American Community Survey 2014-2018.



Population

RAPPAHANNOCK COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018 White Black Hispanic All Others

Source: Decennial Census 1980; American Community Survey 2014-2018.

0.25

0.00



Share of Households, by Number of Household Members, 1980 and 2018

0.50

0.75

1.00




RAPPAHANNOCK COUNTY, VA



Source: American Community Survey 2014-2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.



SPOTSYLVANIA COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





SPOTSYLVANIA COUNTY, VA



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group.

Source: American Community Survey 2014-2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.

0.0 2.5 5.0 7.5

Number of Zip Codes



STAFFORD COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018



STATE OF THE CAPITAL REGION IN 2020: REGION IN DEMOGRAPHIC AND ECONOMIC TRANSITION



STAFFORD COUNTY, VA

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004-2009 to 2014-2018.



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group.



Source: American Community Survey 2014–2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.





WARREN COUNTY, VA



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018



STATE OF THE CAPITAL REGION IN 2020: REGION IN DEMOGRAPHIC AND ECONOMIC TRANSITION



WARREN COUNTY, VA



Source: American Community Survey 2014-2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.

Note: "Neighborhood" in this graph is the census block group.

Number of Zip Codes





JEFFERSON COUNTY, WV



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1980; American Community Survey 2014-2018.

Population Share by Race and Ethnicity, 1980 and 2018



Source: Decennial Census 1980; American Community Survey 2014-2018.



Share of Households, by Number of Household Members, 1980 and 2018





JEFFERSON COUNTY, WV

Households by Family Type and Presence of Children, 1980 and 2018



Source: Decennial Census 1970 to 2010; American Community Survey 2004–2009 to 2014–2018.



Source: Decennial Census 1990; American Community Survey 2014-2018. Note: "Neighborhood" in this graph is the census block group.

Income by Neighborhood,





Source: American Community Survey 2014-2018.

Note: Zip codes are "zip code tabulation areas" defined by the Census. The number of zip codes in the legend may not look like the number depicted in the map because some zip codes are lines or points and are not visible on the map.

PART III: SOURCES AND METHODS

APPENDIX

Appendix Table 1: Population in Capital Region by Jurisdiction

	Population						
	1970	1990	2009	2017			
District of Columbia	756,510	606,900	588,433	672,391			
Maryland							
Calvert County	20,682	51,372	88,055	90,824			
Charles County	47,678	101,154	140,181	156,021			
Frederick County	84,927	150,208	224,185	246,105			
Montgomery County	522,809	757,027	946,172	1,039,198			
Prince George's County	660,567	729,268	834,986	905,161			
Virginia							
Alexandria city	110,938	111,183	142,131	154,710			
Arlington County	174,284	170,936	206,405	229,534			
Clarke County	8,102	12,101	14,359	14,331			
Culpeper County	18,218	27,791	44,923	49,795			
Fairfax city	21,970	19,622	23,369	23,580			
Fairfax County	455,021	818,584	1,012,751	1,142,004			
Falls Church city	10,772	9,578	11,233	13,843			
Fauquier County	26,375	48,741	66,330	68,406			
Fredericksburg city	14,450	19,027	22,314	28,135			
Loudoun County	37,150	86,129	277,465	374,558			
Manassas city		27,957	35,559	41,379			
Manassas Park city		6,734	11,633	16,117			
Prince William County	111,102	215,686	360,910	450,763			
Rappahannock County	5,199	6,622	7,171	7,359			
Spotsylvania County	16,424	57,403	118,512	130,159			
Stafford County	24,587	61,236	120,436	141,159			
Warren County	15,301	26,142	36,087	38,991			
West Virginia							
Jefferson County	21,280	35,926	50,791	55,673			

Source: Decennial Census 1970 to 2000; American Community Survey 2004-2009 to 2014-2018.



	Annual Percentage Change in Population								
	1970 - 1980	1980 - 1990	1990 - 2000	2000 - 2009	2009 -2013	2013 -2017			
District of Columbia	-1.7	-0.5	-0.6	0.3	1.3	2.1			
Maryland									
Calvert County	5.2	3.9	3.7	1.8	0.4	0.4			
Charles County	4.2	3.3	1.8	1.7	1.5	1.2			
Frederick County	3.0	2.7	2.6	1.5	1.4	1.0			
Montgomery County	1.0	2.7	1.4	0.9	1.1	1.2			
Prince George's County	0.1	0.9	0.9	0.5	1.1	0.9			
Virginia									
Alexandria city	-0.7	0.7	1.4	1.1	0.3	1.8			
Arlington County	-1.3	1.1	1.0	1.0	1.0	1.7			
Clarke County	2.1	1.9	0.4	1.4	-0.3	0.2			
Culpeper County	2.2	2.1	2.1	3.0	1.3	1.3			
Fairfax city	-1.2	0.1	0.9	0.9	-0.4	0.6			
Fairfax County	2.7	3.2	1.7	0.5	2.1	0.9			
Falls Church city	-1.2	0.1	0.8	0.9	3.1	2.1			
Fauquier County	3.1	3.1	1.2	2.1	-0.1	0.9			
Fredericksburg city	0.6	2.2	0.1	1.6	3.8	2.0			
Loudoun County	4.4	4.1	6.8	5.5	4.1	3.4			
Manassas city		5.9	2.3	0.1	2.5	1.3			
Manassas Park city		0.3	4.2	1.4	6.6	1.6			
Prince William County	2.6	4.0	2.6	2.8	3.6	2.0			
Rappahannock County	1.6	0.8	0.5	0.3	0.9	-0.3			
Spotsylvania County	7.4	5.1	4.5	3.0	1.2	1.1			
Stafford County	5.0	4.1	4.1	2.9	2.3	1.7			
Warren County	3.3	2.1	1.9	1.5	1.2	0.8			
West Virginia									
Jefferson County	3.5	1.7	1.6	2.1	1.6	0.7			

Appendix Table 2: Annual Percentage Change in Population in the Capital Region by Jurisdiction

Source: Decennial Census 1970 to 2000; American Community Survey 2004–2009 to 2014–2018.



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AARP. n.d. "AARP Livability Index." <u>https://livabilityindex.aarp.org/</u>

HUD. n.d. "Affordable Housing." https://www.hud.gov/program_offices/comm_planning/ affordablehousing/

Kneebone, Elizabeth and Alan Berube. Confronting Suburban Poverty. Washington DC: Brookings Institution Press, 2014



DATA

A. MAP FILES

County boundaries

US Census Bureau, 2014. 2010 Census county boundaries. Downloaded cb_2017_us_county_500k.zip 2/28/2014 from_https://www.census.gov/geo/maps-data/ data/cbf/cbf_counties.html

Zip code boundaries

US Census Bureau, 2019. 2017 American Community Survey zip code tabulation areas. Downloaded cb_2017_ us_zcta510_500k.zip from <u>https://www.census.gov/geo/</u> <u>maps-data/data/cbf/cbf_counties.html</u>

Metro map

Copyright 2017. National Capital Region Transportation Planning Board Downloaded Metro__Lines.zip from <u>http://rtdc-mwcog.opendata.arcgis.com/</u> <u>datasets/0d90d7b18c644657ba7646149b72e2d1_1</u>

Highway map

US Census Bureau, 2017 TIGER/Line® Shapefiles: Roads Downloaded tl_2017_us_primaryroads.zip from <u>https://www.census.gov/cgi-bin/geo/shapefiles/index.</u> <u>php?year=2017&layergroup=Roads</u>

B. DATA FILES

1970 Census, Counties

United States. Bureau of the Census. Census of Population and Housing, 1970 [United States]: Summary Statistic File 4C -- Population [Fourth Count]. Ann Arbor, MI: Interuniversity Consortium for Political and Social Research [distributor], 2006-01-12. https://doi.org/10.3886/ICPSR08107.v2

United States. Bureau of the Census. Census of Population and Housing, 1970 [United States]: Summary Statistic File 4C -- Housing [Fourth Count]. Ann Arbor, MI: Interuniversity Consortium for Political and Social Research [distributor], 2006-01-12. https://doi.org/10.3886/ICPSR08129.v1

1980 Census, Counties

United States. Bureau of the Census. Census of Population and Housing, 1980 [United States]: Summary Tape File 3A. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2008-01-21 https://doi.org/10.3886/ICPSR08071.v1

1990 Census, Counties and Block Groups

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2000 Census

United States. Bureau of the Census. Census of Population and Housing, 2000 [United States]: Summary File 3, All states . Ann Arbor, MI: [distributor], 2006-01-12. <u>https://doi.org/10.3886/ICPSR13342.v1</u>

2010 Census

2010 Census Summary File 1 United States, prepared by the U.S. Census Bureau, 2011.

American Community Survey, 2014-2018, 5-year estimates

United States Census Bureau."Summary File."2014-2018 American Community Survey. U.S. Census Bureau's American Community Survey Office, 2019. Web. 1 January 2018 http://ftp2.census.gov/>. Counties, zip code tabulation areas and block groups.

Thus, all families are households, but not all households are families.

See: <u>https://www.census.gov/programs-surveys/cps/</u> technical-documentation/subject-definitions.html

SOURCES AND DATA NOTES

Census:

Decennial Census and American Community Survey 5-year estimates.

The report mainly relies on Decennial Census and 5-year pooled estimates from the American Community Survey (ACS). The Decennial Census records population data every ten years. The ACS is a Census product that provides ongoing estimates of population and housing. This survey relies on smaller samples than the decennial Census, and therefore pools information collected across 5-year periods for smaller geographies, such as zip code tabulation areas and jurisdictions with populations of less than 20,000. ACS zip code estimates began in 2011 for the 2007-2011 period. For more information, see: https:// www.census.gov/programs-surveys/acs.

Counties and county equivalents.

The Census provides data for counties and, in some states, county equivalents. In Virginia, independent cities have their own local governments entirely distinct from any county (i.e., maintain their own finances and legal authority). In our sample, the Census Bureau classifies Alexandria, Falls Church, Fairfax city, Fredericksburg, Manassas, and Manassas Park as county equivalents. The District of Columbia is also a county equivalent. All the Maryland jurisdictions in our study are counties.

Data Notes

We use "jurisdiction" throughout to refer to counties or, in Virginia, independent cities.

In 1990, less than ten census block groups had no reported value for income but did have people. We drop these block groups.

In all maps, we show data by zip code tabulation area.

In the income chapter, neighborhoods are Census block groups.

We use the Census definition of families and households. The Census states that "[a] family is a group of two people or more (one of whom is the householder) related by birth, marriage, or adoption and residing together; all such people (including related subfamily members) are considered as members of one family." For households, "[a] household consists of all the people who occupy a housing unit."

This is missing this part of the section:

Thus, all families are households, but not all households are families.

See: <u>https://www.census.gov/programs-surveys/cps/</u> technical-documentation/subject-definitions.html



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