



Reducing the Burden: Increasing Housing Supply to Lower Housing Costs



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Reducing the Burden: Increasing Housing Supply to Lower Housing Costs

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May 29, 2024

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The Honorable Randy McNally
Lieutenant Governor and Speaker of the Senate

The Honorable Cameron Sexton
Speaker of the House of Representatives

Members of the General Assembly
State Capitol
Nashville, TN 37243

Ladies and Gentlemen:

Transmitted herewith is the Commission's report on its study of housing affordability issues in Tennessee as requested by House Joint Resolution 139 by Representative Sparks in the 113th General Assembly, which requested a study of impact fees and their relationship to housing affordability. After discussions with the sponsor, legislative leadership, and stakeholders, the scope of the study was broadened to explore factors affecting housing affordability beyond impact fees. The resolution passed in the House and was referred to the Senate State and Local Government Committee, but no further action was taken.

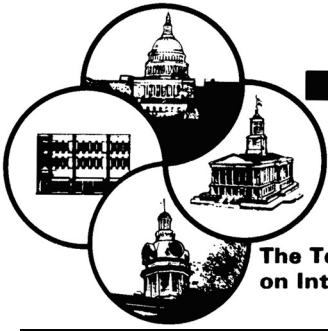
The Commission finds that local governments already possess, and should retain, land use tools to encourage housing production, and it recommends the state offer an incentive for local governments who adopt zoning reforms to promote housing production by sharing some of the state's realty transfer tax or mortgage tax revenues or other revenue. In conjunction with this, the report recommends state and local governments adopt policies to mitigate the effects of zoning reform on existing residents. Additionally, the state could use a portion of those same or other revenues to fund the Tennessee Housing Development Agency's housing trust fund to make low-interest construction loans for affordable housing. Likewise, a small portion of funding could be reserved by the state for infrastructure projects in ways that smooth out the ups and downs of the business cycle. The Commission further recommends that all local governments be authorized to establish land banks and be allowed to add links to any surplus real property they may own to the website where the state advertises its own surplus real property. The Commission had a finding in the draft report that the state could authorize local governments to make multiyear funding commitments to affordable housing; this funding authority was subsequently enacted by Public Chapter 1012, Acts of 2024.

The Commission approved the report on May 29, 2024, and it is hereby submitted for your consideration.

Respectfully yours,

Senator Ken Yager
Chairman

Cliff Lippard
Executive Director



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MEMORANDUM

TO: Commission Members

FROM: Cliff Lippard

Executive Director

DATE: 29 May 2024

SUBJECT: Housing Affordability, Impact Fees, and Development Taxes—Final
Report for Approval

The attached Commission report is submitted for your approval. It was prepared in response to House Joint Resolution 139 by Representative Sparks in the 113th General Assembly, which requested a study of impact fees and their relationship to housing affordability. After discussions with the sponsor, legislative leadership, and stakeholders, the scope of the study was broadened to explore factors affecting housing affordability beyond impact fees. The resolution passed in the House and was referred to the Senate State and Local Government Committee, but no further action was taken.

Staff added information to the report that was requested by members at the last meeting. In response to questions from Mayor Frank about housing affordability, homelessness, and people residing in campgrounds, staff consulted with state park officials and included the available information. To address a question on manufactured housing, staff spoke with a representative of Clayton Homes and added information regarding some of the barriers to its use in Tennessee. And for a question on permitting fees and whether there might be any limits to how they are set, staff added information about relevant case law. To address Mayor Waters' concern about data related to housing inventories and needs, an appendix was added with more detailed data on vacancy rates in each county, showing a breakdown by the type of vacancy.

The Commission's draft finding that the state could authorize local governments to make multiyear funding commitments to affordable housing projects either through existing entities, such as industrial development boards, or by establishing a new entity

similar to sports authorities was enacted by the 113th General Assembly in Senate Bill 1137 by Senator Oliver and House Bill 1229 by Representative Hemmer. The new law enables cities and counties to fund industrial development boards for multifamily affordable housing, provided certain preconditions set by the Comptroller are met.

Additionally, two recommendations that called for the use of realty transfer and mortgage tax revenue to fund affordable housing initiatives were revised to clarify that other revenue sources could also be considered:

- Zoning reform can have substantial affordability benefits and is squarely within the power of local governments, but local officials might be reluctant to adopt unfamiliar zoning changes, and rightly point out that new development comes with upfront costs and that financing those costs can create challenges. Further, local governments must balance affordability needs with other priorities. **Thus, the Commission recommends that the state offer an incentive for local governments to adopt zoning reforms that support housing development—such as allowing mixed-use development, reducing lot size requirements, or allowing types of missing middle housing—by sharing some of the state’s realty transfer tax or mortgage tax revenue or other revenue with local governments whose land use regulations meet a minimum number of criteria out of a menu of optional measures. Funding can be phased in as state revenue growth allows.**
- **The Commission recommends the use of the realty transfer and mortgage tax revenues or some other revenue source to fund either the existing housing trust fund or a new trust fund from which THDA might make low- or zero-interest construction loans for affordable housing.** This could be achieved with either annual appropriations from the General Assembly, or a one-time appropriation, the interest from which could be used to support affordable housing programs indefinitely.

One recommendation related to property assessments under zoning reform was also revised following discussion with property assessors, who raised concerns of fairness and equity for taxpayers if similar properties were to be assessed in different ways:

- **The Commission recommends that state and local governments adopt policies to mitigate the effects of zoning reform on existing residents.** The draft report proposed mitigating any potential effects of zoning reform on property values by assessing property based on its zoning prior to reform. Senate Bill 2238 by Senator Yarbrow and House Bill 2467 by Representative Stevens in the 113th General Assembly, as introduced, would have enacted this proposal. Following

discussion with assessors, the bill was amended to use tax credits instead and to apply only to metropolitan governments. The bill passed in the Senate but was taken off notice in the House.

The following recommendations remain unchanged:

- As noted in the Commission's 2012 report, *Dealing with Blight: Strategies for Tennessee's Communities*, land banks can be a useful tool for making abandoned or vacant land productive—including by making it available for affordable housing. However, at present only a small number of cities and counties are authorized to establish land banks. Therefore, to assist local governments with both blight and increasing the land available for their housing supply, **the Commission recommends that the General Assembly authorize all local governments to establish land banks.**
- The state and many local governments also possess their own property that could be made available for housing. The Department of General Services currently collects information on state-owned real property, but greater coordination among information sources would be beneficial, and local governments could reach a wider audience by having property information listed on DGS's website. **As in 2019, the Commission recommends that the state help local governments reach a wider audience of potential buyers for their surplus real properties—including tax-delinquent properties—by allowing those that have websites to post links to the state's website where the state advertises its surplus real property.**
- The construction industry can be vulnerable to swings in the economy, which, when they lead to lost employment as happened during the Great Recession, can have negative effects on the availability of workers for housing construction. **To soften the effects of downturns and forestall the loss of construction employment, the Commission recommends that funding from the realty transfer and mortgage taxes could also be reserved by the state for infrastructure in ways that smooth out the ups and downs of the business cycle.**

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Summary and Findings: Increasing Housing Supply to Lower Housing Costs and Improve Affordability

Everyone needs a home—but in the current housing market, many Tennesseans might never be able to afford one. Like much of the country, Tennessee has seen housing prices soar in the last several years, with the median sales price of all homes in Tennessee as of 2022 reaching \$325,000, an increase of 44% over 2019. The elevated prices have increasingly moved homeownership out of reach for many, including key members of the workforce. In 86 of Tennessee’s 95 counties, the median-priced home costs more than three times the median salary of a local teacher, and in 15 counties it is more than six times as much. As a result, Tennesseans may be unable to afford homes located close to their workplaces. Moreover, homeowners and renters alike are under financial strain just to keep the homes they already have. As of 2022, almost one in five Tennessee homeowners were cost-burdened—that is, they paid more than 30% of their incomes towards housing—and the same was true for more than two-fifths of renters. The affordability problem is not limited to communities with rising home prices; for example, in communities where more homes are available and prices generally lower, the housing stock might be older with many homes in need of expensive renovations.

A lack of affordable housing can have far-reaching effects on the state’s workforce and larger economy, on how cities and counties grow—including demands placed on their infrastructure—on property values and property taxes, and even on community concerns like public health and homelessness. In light of this, House Joint Resolution 139 by Representative Sparks in the 113th General Assembly asked the Commission to study housing affordability and how it might be affected by impact fees (see appendix A); after discussion with the sponsor, stakeholders, Commission members, and legislative leadership, the scope of the study was broadened to consider other factors beyond impact fees. The resolution passed in the House, though it did not come to a vote in the Senate. The good news is that while the problem of housing is complex and multifaceted, both the state and local governments already have many policy tools at their disposal to address it, with the potential for the state to assist local governments in implementing selected reforms.

Impact fees are used by some local governments to manage the costs of growth and have a limited effect on housing affordability.

Wherever there is new development, whether it is a single house or an entirely new neighborhood, it is likely to add to a community’s need for infrastructure and local services, even if the increases are incremental.

Like much of the country, Tennessee has seen housing prices soar in the last several years.

To accommodate growth, a community may need to build infrastructure—the challenge is how to fund it.

Eventually, to accommodate that growth, a community may need to build roads, lay sewer lines, construct new schools, hire teachers, expand the capacity of its emergency services like police and fire departments, and more. Building and maintaining this infrastructure and providing these services requires funding, for which there are two main local revenue options: property taxes and local option sales taxes. Raising property taxes to finance the costs of growth can result in pushback from those who argue that those who generate the need for new infrastructure or services should pay for it, not existing residents. Many local governments are also already at the maximum local option sales tax rate of 2.75%, further limiting their ability to raise additional revenue from this existing tax.

Alternatively, a local government could adopt separate fees or taxes that are levied only on new construction—this includes impact fees and development taxes, among others.¹ But only a few local governments in Tennessee have impact fees or development taxes, or even the authority to levy them (see table 1). Some stakeholders, including homebuilders and realtors, say that these fees and taxes are unfair to those who buy new homes, saying that they can also hurt housing affordability by substantially increasing the cost of these homes.

Although impact fees and development taxes do contribute to costs, the total cost of housing is determined by a complicated web of factors. Impact fees and development taxes are only one element in this web, and not necessarily a very large one. For example, in a recent study based on survey responses from its members, the National Association of Home Builders (NAHB) estimated that just under a quarter of the cost of a home could be attributed to government regulations of some kind. But this includes a variety of regulations, not just impact fees or development taxes, and no one regulatory factor accounted for more than a few percentage points of the cost of a house.

In Tennessee, the rates at which residential impact fees or development taxes are levied may vary according to the county and city—some may be set at a rate per square foot, others as a flat fee (see appendix B)—but with a development tax at a rate of \$1 per square foot, for example, a 2,500 square foot home would naturally yield a \$2,500 tax. In the current housing market, that would be less than 1% of the cost of a median-priced new home in the state, or \$408,000 as of 2022.

Thus, while impact fees do add to housing costs, they are not so influential as some other factors in the state today—including, above all, the supply

¹ There are restrictions on how local governments can spend revenue collected from impact fees and development taxes. For example, state law requires that any impact fees local governments collect be spent only on infrastructure needs rising from the development they came from. The adequate facilities tax—a type of development tax—that some counties are authorized to levy under the County Powers Relief Act must be earmarked for capital expenditures related to education, such as constructing schools.

of housing. To understand the root causes of Tennessee's housing affordability problems and what can be done to most effectively address them, it is necessary to take a broader view.

Table 1. Local Government Impact Fees and Development Taxes in Tennessee, Fiscal Year 2021-22 by County

County or City	Revenue	County or City	Revenue
Impact Fees		Development Taxes**	
Macon	\$ 968,873	Bedford	\$ 781,039
Maury	-	Cannon	92,338
Spring Hill	3,181,985	Cheatham	1,133,698
Robertson	-	Kingston Springs	10,919
White House	495,705	Pegram	6,749
Portland	105,590	Dickson	1,228,671
Rutherford	-	Fayette	928,587
La Vergne	338,666	Hickman	294,480
Murfreesboro*	-	Jefferson	1,520,746
Smyrna	2,696,315	Loudon	3,308,441
Williamson	22,761,451	Marshall	886,604
Brentwood	549,607	Maury	3,733,279
Franklin	12,157,190	Columbia	417,740
Nolensville	1,872,269	Spring Hill	1,664,428
Wilson	-	Montgomery	2,983,940
Lebanon	2,953,338	Sumner	3,440,718
Mt. Juliet	991,268	Robertson	2,485,980
Total	\$ 49,072,257	Rutherford	5,484,390
		Trousdale	162,050
		Williamson	5,323,212
		Brentwood	528,221
		Fairview	343,542
		Franklin	3,669,629
		Nolensville	1,140,117
		Wilson	16,936,412
		Total	\$ 58,505,930

Counties' Total Impact Fee and Development Tax Revenue	\$ 74,454,909
Cities' Total Impact Fee and Development Tax Revenue	33,123,278
Total Impact Fee and Development Tax Revenue	\$ 107,578,187

*Murfreesboro's impact fee will be implemented in fiscal year 2023-24.

**Development taxes may carry various other names, such as facilities taxes.

Source: Commission staff review of Tennessee state law; Tennessee Comptroller of the Treasury; and correspondence with staff of cities and counties.

While impact fees do add to housing costs, their effect isn't as large as some other factors in the state today—including, above all, the supply of housing.

The main driver affecting housing affordability is that housing supply does not meet demand, which results in a lack of affordable housing.

When there are more people seeking to buy a limited supply of homes, competition will drive prices up—and out of reach for many.

Housing affordability hinges on supplying enough housing to meet demand.

Many factors have contributed to rising housing costs nationwide in the last several years, from the increasing cost of construction materials to elevated interest rates to housing being bought up for short-term rentals or by large institutional investors who can outbid ordinary homebuyers. Many of these cost-drivers, though, like interest rates, are outside the control of the state or local governments; others may only reflect the ups and downs of the economy. But if there is one problem that stands out—and that stakeholders, state data, and the existing literature have all pointed to as being at the core of the housing affordability issue—it is that housing supply does not meet demand and results in a lack of affordable housing.

Like most other things that people buy and sell, housing is subject to supply and demand. And whether because of the disruptions of the pandemic years, the prolonged slowdown in home construction that followed the Great Recession, or even deeper problems that may trace back to changes in land use policy decades ago, the supply of homes has not kept up with demand. There are various estimates for how many more housing units are needed to catch up. One national housing research group, Up For Growth, estimated Tennessee needed 22,000 additional housing units as of 2019. The next year, though, that number had more than doubled to 56,000. Other groups estimate comparable numbers just for individual cities in the state, like an estimate by Zillow that Nashville alone needed 35,000 housing units as of 2019. But in any case, there is general agreement that the state's housing supply falls short. Meanwhile, demand for housing continues to grow along with the state's rising population, which surged by more than 125,000 people from 2020 to 2022.

According to a Commission staff analysis of 20 Tennessee counties for which complete data were available from 2011 to 2022, per capita income had the strongest effect on median home sale prices. According to the analysis, a 1% increase in per capita income was associated with a 1.3% increase in median home sale prices—which is to be expected, as those with more financial means begin to outbid others. A comparison of 2021 and 2022 to the previous decade indicates that the effect may be strengthening. In contrast, increasing housing supply at a faster rate than population growth was associated with lower home sale prices, all else being equal, with a 1% increase in housing units per capita associated with a 0.4% decrease in median home sale prices. In short, when there are more people seeking to buy a limited supply of homes, competition will drive prices up—and out of reach for many.

Increasing the supply of housing, even at higher price levels, can help improve affordability for all.

In discussions about housing affordability, there are often questions about where to focus policy efforts. Some policy measures are targeted directly at subsidizing housing that is affordable for those making less than the median income in an area, while other measures may be designed more broadly to increase the supply of housing for a wider range of incomes. Research suggests that both approaches have their place.

As one housing specialist described it, housing markets without enough supply can behave like a game of musical chairs: those with the most means will quickly grab what's available, leaving others with nowhere to go. Or to put it another way, when there is not enough housing supply, those with higher incomes will buy up homes that otherwise might go to those with medium incomes, who will in turn take the homes that might instead go to those with lower incomes, creating a ripple effect that pushes would-be homebuyers down the housing market and then out of it altogether. Conversely, when there are enough homes at different price points, those in higher income brackets will be less likely to buy up the homes that are affordable for those on low or medium incomes, relieving some of the pressure for other would-be buyers.

Research on real-world housing markets has concluded that this does work in practice: increasing the supply of unsubsidized or “market-rate” homes for those at medium and higher income levels does at least stem overall price growth and alleviate pressure on the housing market at the lower end, although it is not necessarily enough on its own to bring home prices back down to levels that everyone can afford. Therefore, using a dual approach that includes both those policies that support the development of subsidized housing and of market-rate housing, rather than either alone, may be most effective.

The state could further enable local governments to increase and preserve their housing supply.

Local governments can already promote affordable housing in their communities—for example, by loosening zoning restrictions—but the state could provide additional options by authorizing land banks that return abandoned or blighted property to productive use, helping local governments to dispose of surplus real estate, and preserving housing that may already be affordable.

One of the most basic limiting factors for housing supply is the supply of land—to add to the number of homes, there has to be somewhere to put them. While the overall amount of land in a county is fixed, there are a few tools that the state could provide local governments to help make

When there are enough homes at different price points, those in higher income brackets will be less likely to buy up the homes that are affordable for those on low or medium incomes, relieving some of the pressure for other would-be buyers.

Under current state law, only a handful of cities and counties in Tennessee have been granted the authority to establish land banks, and only four currently exist.

Connecting potential developers with surplus property could help make the property usable for housing development.

more land available for housing, or to secure existing housing stock that is already affordable, while continuing to protect agricultural, natural, and recreational land. As the Commission found previously in its 2012 report *Dealing with Blight: Strategies for Tennessee's Communities*, "Land bank corporations can be used as a legal and financial mechanism to return vacant, abandoned, and tax-foreclosed properties to productive use through rehabilitation, demolition, or redevelopment." One such productive use, of course, is housing, and land banks in some other states have a special focus on converting blighted property into affordable housing. Land banks may be more useful for some communities in Tennessee where the leading housing affordability issue is not necessarily the high cost of new homes, but an excess of aging properties in disrepair. Under current state law, however, only a handful of cities and counties in Tennessee have been granted the authority to establish land banks, and only four currently exist. Therefore, to assist local governments with blight and help them increase the land available for housing, **the Commission recommends that the General Assembly authorize all local governments to establish land banks.** Senate Bill 2239 by Senator Yarbrow and House Bill 2439 by Representative Sparks of 2024 would have extended this authority to all local governments but was taken off notice in the House.

As explored in the 2019 Commission report *Improving Management of Government-Owned Real Property in Tennessee*, governments sometimes have real estate that is no longer needed and may be sold as surplus property, some of which might be usable for housing development. Connecting potential developers with the property could help make that a reality. The Tennessee Department of General Services (DGS) currently collects information on state-owned real property, but in line with the Commission's 2019 report, greater integration and coordination among information sources would be beneficial, and local governments could reach a wider audience by having property information listed on DGS's website. **As in 2019, the Commission recommends that the state help local governments reach a wider audience of potential buyers for their surplus real properties—including tax-delinquent properties—by allowing those local governments that have their own surplus-property websites to post links to their websites on the state website where the state advertises its surplus real property.** Senate Bill 2239 by Senator Yarbrow and House Bill 2439 by Representative Sparks would have also clarified that local governments could have links to any surplus real property they might own posted to state websites.

Additionally, excess or underused public land can be put to better use, but to do so the state and local governments need detailed information on what land is available. Several stakeholders who spoke with staff said they had or were interested in conducting public land inventories for the sake of housing, and state and local governments could evaluate what current property uses of their own land might be compatible with residential

development. The city of Atlanta, for example, has undertaken a program of redeveloping vacant and underutilized city property to add housing. By mid-2023, 35 projects were in the works, including adding 1,300 housing units to an underused civic center site.

Although constructing new affordable housing is one option, communities can also benefit from the preservation of existing affordable housing. For example, in Charlotte, North Carolina, the preservation of existing units is one of the uses of the city's housing trust fund, which provides low-interest loans to developers to subsidize the cost of acquiring existing multifamily housing when it becomes available on the open market, rehabilitating it, and then lowering rents and ensuring that the housing remains affordable for at least 20 years. Because Charlotte's housing trust fund relies on general obligation bonds, local governments in Tennessee cannot currently copy its exact funding structure. Under the Tennessee State Constitution and state law, cities and counties are generally limited in their authority to provide direct funding to private enterprises—including those developing affordable housing. Public Chapter 1012, Acts of 2024, achieves something similar by permitting local governments to pledge funding to industrial development boards (IDB) for affordable housing, including rehabilitation of existing housing.

Local governments already possess—and should retain—land use authority, but the state could provide guidance and incentives for zoning reforms to increase the supply of housing.

Zoning, or the authority to organize and regulate how land is used in a community, is one power that local governments in Tennessee already have. State law does preempt local governments on a few matters, such as prohibiting requirements that new developments include a certain portion of affordable units (i.e., inclusionary zoning) or regulations of rental pricing in private housing, but otherwise local governments have broad authority over their own land use. Zoning does serve many vital purposes, including separating dangerous or noxious land uses from where people live and ensuring adequate infrastructure is available where people need it. Yet as both research and local stakeholders have found, certain types of zoning can also hinder housing supply, in turn leading to affordability problems. These include regulations that enforce low housing density, such as zoning residential lots for no more than one housing unit or requiring residential lots to be a minimum size. Strict separation of residential and commercial zones, instead of allowing mixed-use development where homes can be built next to or above offices and shops, can also limit the amount of space where housing can be built. Other regulations, like a required minimum number of parking spaces per housing unit, can directly add to the construction cost of a home. Additionally, many stakeholders argue

Communities can benefit from the preservation of existing affordable housing.

Certain types of zoning, like allowing only single-family housing, can hinder housing supply, in turn leading to affordability problems.

A slate of zoning reforms has been endorsed by housing advocates, researchers, and other states to help increase housing supply and alleviate housing affordability issues.

that permitting processes can create delays to construction that also add to overall costs.

A slate of zoning reforms has been endorsed by housing advocates, researchers, and other states to help increase housing supply and alleviate housing affordability issues. These include reducing lot size or parking requirements, streamlining permitting processes, allowing mixed-use zoning, and revising single-family zoning to allow for what is called missing middle housing—that is, a range of housing types that allows for a kind of modest density somewhere between the low density of detached single-family homes and the high density of apartment buildings. Missing middle housing includes duplexes, triplexes, townhouses, cottage courts, accessory dwelling units that sit alongside single-family homes, and more. These reforms, researchers and stakeholders agree, have the potential to facilitate housing development by allowing more homes to be built within a fixed area while increasing the variety of housing options to satisfy different preferences and needs among residents.

Zoning reform may also achieve efficiencies for development and lower costs. According to stakeholders, when lot sizes for single-family homes are required to be large, it is only cost-effective to build larger and more expensive houses; conversely, the American Enterprise Institute has observed that home prices in Tennessee cities tend to be lower where housing is built more densely. Building housing at greater density can also lower household transportation costs by putting residents closer to workplaces, schools, and shops while helping to preserve farmland by reducing sprawl. Moreover, greater housing density is associated with a lower per capita cost of infrastructure and services over the longer term.

While zoning reform can have substantial affordability benefits and is squarely within the power of local governments, many communities are reluctant to enact it. Local officials might be hesitant to adopt unfamiliar zoning changes, and some residents may raise concerns that greater density could change the aesthetic character of their community, lead to increased traffic and noise, lessen privacy, or—because property tax assessments are based on a property’s highest and best use—cause increased property tax bills for existing residents even when no change has been made to their property. Local officials also rightly point out that new development comes with upfront costs and that financing those costs can create challenges, with the current avenues for financing largely limited to, again, either increasing the property tax or local option sales tax or, in some communities, levying impact fees or development taxes—all of which may face opposition.

In the last few years, several states faced with urgent housing problems—such as California, Oregon, Washington, and Maine, among others—have begun to preempt local governments by imposing zoning reform through statewide mandates. Montana followed suit last year, although it presented

local governments with a list of reforms and required them to implement a minimum of five reforms from the list, leaving some local discretion but still resulting in a degree of preemption.

State approaches that rely on preemption have important drawbacks. In particular, the effectiveness of individual zoning reforms at improving housing supply and affordability depends on local conditions. Given the wide variation among communities across Tennessee and their housing needs, current levels of affordability, existing land use and availability, and many other factors, there is no one-size-fits-all solution. Proponents of zoning reform concede that trying to impose it in broad strokes may not be viable.

Instead, what may be most effective are solutions that are locally tailored. And a voluntary, options- and incentive-based approach could encourage local governments to implement beneficial land use changes for housing without unduly limiting their discretion over land use, while also providing local governments with additional revenue streams to help offset some of the costs of growth.

The Commission recommends that the state offer an incentive for local governments to adopt zoning reforms that support housing development—such as allowing mixed-use development, reducing lot size requirements, or allowing types of missing middle housing—by sharing some of the state’s realty transfer tax or mortgage tax revenue or other revenue with local governments whose land use regulations meet a minimum number of criteria out of a menu of optional measures (see exhibit 1). Funding can be phased in as state revenue growth allows. For example, Tennessee could, like Montana, provide local governments with a menu of zoning reforms, out of which local governments could adopt those that make the most sense for their communities. But unlike Montana, rather than require local governments to adopt reforms from the list, Tennessee could incentivize adoption. One way to do so would be to provide local governments that adopt five or more of the reforms with a portion of the existing realty transfer or mortgage taxes—jointly referred to as recordation taxes—collected within their county. The allocations could be distributed among the county government and municipal governments within the county in proportion to their respective populations, on the basis of weighted full time equivalent average daily attendance—as is used for school funding—or through some other method. Table 2 provides example distribution methods that assume 20% of recordation taxes are shared with local governments. That table also includes scenarios for two other potential uses of recordation taxes that are discussed below. Senate Bill 2237 by Senator Yarbrow and House Bill 2423 by Representative Shaw 2237 of 2024 would have enacted this recommendation, though it was taken off notice. Similarly, Senate Bill 2124 by Senator Briggs and House Bill 2292 by Representative Behn would have replicated the Montana

A voluntary, options- and incentive-based approach could encourage local governments to implement beneficial land use changes for housing without unduly limiting their discretion over land use.

Stakeholders agree that the only way to make new construction affordable to lower-income families and individuals is to subsidize it.

model, but was taken off notice in the Senate. For a list of other housing-related legislation that was considered by the General Assembly in 2024, see exhibit 2.

Zoning reform, however, does have potential drawbacks. Whenever land use changes lead to higher property values, it can mean higher property tax bills that may burden existing residents, even leading to them being displaced by more affluent newcomers—or what is often referred to as gentrification.

To protect existing residents, the Commission recommends that state and local governments adopt policies to mitigate the effects of zoning reform on these households. In the Commission’s draft report, staff proposed mitigating the effects of zoning reform by assessing property based on its zoning prior to reform, similar to the way Tennessee’s current Greenbelt law bases property tax assessment on the land’s actual use rather than its highest and best use. Senate Bill 2238 by Senator Yarbrow and House Bill 2467 by Representative Stevens in the 113th General Assembly, as introduced, would have enacted this proposal. But property assessors were concerned that this approach would result in similar properties being assessed in different ways thereby creating fairness and equity issues for assessors and taxpayers. Following discussions with assessors, Senate Bill 2238 and House Bill 2467 was amended to achieve the same goal of protecting existing residents without affecting assessments by instead allowing a metropolitan form of government to create tax credits for property owners who might see their property values change under zoning reform. The bill passed in the Senate but was taken off notice in the House.

The state supports affordable housing via a number of programs.

Stakeholders agree that, because the basic costs to construct a home generally exceed what lower-income families and individuals can afford, the only way to make new construction affordable is to subsidize it; without this, even nonprofits like Habitat for Humanity that specialize in affordable housing might have to operate at a loss.

Tennessee already has a number of programs in place that subsidize and support affordable housing at both the state and local level. The Tennessee Housing Development Agency (THDA), for example, administers federal funding for a suite of programs that aid renters, homebuyers, and homeowners, with 6,889 affordable rental units across the state being supported by federal low-income housing tax credits (LIHTC) last year, while 2,195 first-time homeowners benefited from THDA’s Great Choice home loan program. Many local governments have public housing agencies that act in partnership with THDA to support affordable rental housing, homeownership, housing rehabilitations and repairs, and

more. These local agencies largely operate using the funds that THDA administers, although some also receive local funding, such as the Barnes Fund in Nashville, which in fiscal year 2024 was allocated \$20.5 million and, as of last year, has led to the development of 3,310 affordable housing units since it started in 2013.

THDA has its own housing trust fund, which allocated \$8.2 million in 2022 to various housing programs for low-income Tennesseans who are elderly or have special needs. The trust fund receives no state appropriations; instead, it is funded by revenues from THDA's mortgage loan program, and there may be potential for augmenting the fund, or another one like it. Oklahoma recently established a new trust fund program with an appropriation of \$215 million, most of which will be used to make zero-interest loans to builders to produce affordable homes and rental units. Staff with Oklahoma's state housing agency said their goal is for the revolving loans from the fund to be sustained indefinitely and lead to at least several thousand new housing units. Such a loan program can work in parallel with tax credit programs for affordable housing, and because the loans are often made and then repaid on timeframes of a year or less, they can yield relatively quick results.

Therefore, **the Commission recommends the use of the realty transfer and mortgage tax revenues or some other revenue source to fund either the existing housing trust fund or a new trust fund from which THDA might make low- or zero-interest construction loans for affordable housing.** This could be achieved with either annual appropriations from the General Assembly, or a one-time appropriation, the interest from which could be used to support affordable housing programs indefinitely. An example assuming 20% of the taxes are earmarked for this use annually is included in table 2. The Tennessee state budget proposed for fiscal year 2024-25 includes an increase in funding for THDA's trust fund by redirecting \$250,000 of the revenue that is currently earmarked for a Civil War preservation fund.

Reserve funding may also help to stabilize construction employment in the face of economic downturns.

As witnessed during both the Great Recession and the pandemic, the construction industry can be vulnerable to volatile swings depending on what is happening in the economy at large, which, among other things, can have lingering effects on housing supply and affordability. Infrastructure projects that occur during recessions, though, provide much needed jobs when unemployment rates are high, possibly speeding up economic recovery. A reserve fund could be established for this purpose. **To soften the effects of downturns and forestall the loss of construction employment, the Commission recommends that funding from the realty transfer and mortgage taxes could also be reserved by the state for**

The Tennessee Housing Development Agency's housing trust fund, which receives no state appropriations, allocated \$8.2 million in 2022 to various housing programs for qualified applicants.

infrastructure in ways that smooth out the ups and downs of the business cycle. An example assuming 5% of the taxes are earmarked for this use is included in table 2.

Table 2. Example Distribution of Recordation Tax Revenue, Fiscal Year 2021-22

	Unearmarked Realty Transfer Tax	Mortgage Tax Revenue	Total
Total Revenue, Fiscal Year 2021-22	\$282,015,535	\$147,835,371	\$429,850,907
20% for Affordability Reform Incentives	\$56,403,107	\$29,567,074	\$85,970,181
20% for THDA Trust Fund	\$56,403,107	\$29,567,074	\$85,970,181
5% for Off-cycle Reserve Fund	\$14,100,777	\$7,391,769	\$21,492,545

Source: Commission staff analysis of Tennessee Department of Revenue data.

Exhibit 1. Sample Zoning Reforms to Improve Housing Supply

Land Use Measure	Potential Benefits	Additional Considerations and Examples
Allow duplexes on any lots zoned for single-family homes.	Increases the number of potential housing units in an area.	Montana, Oregon, Washington, et al.
Allow up to quadplexes, townhouses, and cottage courts on any lots zoned for single-family homes.	Increases the number of potential housing units in an area and offers more choice in housing types.	Montana, Oregon, Washington, et al.
Zone for at least a certain minimum housing density on main streets and transit corridors and near workplaces, business districts, colleges, and other population centers.	This can increase housing in proximity to where it may be needed most, and where infrastructure is already in place to support it.	Standards may need to be set for the minimum required density, how activity or population centers are to be identified, and how far from the center the zoning applies. Massachusetts's Chapter 358, Acts of 2020, for example, requires special residential zones near transit centers to allow for at least 15 housing units per acre and be within one-half mile of a transit station. Other states include Montana, Maryland, and Utah.
Allow multifamily housing by right anywhere zoned for offices, retail, or commercial—that is, allow mixed-use development.	Mixed-use development increases the amount of land where housing can be built while also putting that housing closer to amenities.	Montana; Florida, with some conditions
Authorize faith institutions, universities, and healthcare facilities to build multifamily housing by right on their existing land, provided there is sufficient sewer access.	Some institutions own underutilized land and may be interested in supporting affordable housing; authorizing them to build housing improves land availability.	California preempted local governments to allow faith institutions and universities to develop housing in 2023.

Exhibit 1. Sample Zoning Reforms to Improve Housing Supply (continued)

Land Use Measure	Potential Benefits	Additional Considerations and Examples
Review and reduce requirements on aesthetics, bulk standards, FAR (floor area ratio), etc. that either reduce density or inhibit development.	Various other zoning regulations and building requirements can reduce the amount of housing that can be built on a lot of a given size, making the housing that is built more expensive. Judiciously reducing such requirements can allow more housing on a given parcel of land.	Montana
Reduce or eliminate minimum lot sizes, provided there is sufficient sewer access.	Smaller lot sizes are associated with lower housing costs.	Reducing lot sizes may not be feasible in areas without sewer access.
Reduce or eliminate setback requirements.	Reducing setback requirements makes building housing on smaller lots more feasible.	Montana
Reduce or eliminate minimum parking requirements to one parking space per unit or less.	Required parking can take up space and add to construction costs for a housing unit; reducing the number of parking spaces required of housing developments can thus both lower costs and leave more room for housing.	Montana; in Tennessee, the city of Jackson has eliminated parking requirements, while Nashville and Chattanooga have limited them in certain districts.
Allow at least one accessory dwelling unit on single-family lots with an existing single-family home.	Like duplexes, accessory dwelling units can increase the number of potential housing units in an area, while their smaller size may be better suited to the needs of some.	Vermont has preempted local governments from placing any requirements on accessory dwelling units that exceed those for single-family homes.
Allow for single-room occupancy developments.	Single-room occupancy housing provides another affordable option for individuals with limited incomes, including wage employees.	Montana
Provide zoning that allows or encourages development of tiny houses as defined in the International Residential Code.	Tiny homes offer the possibility of housing at a lower overall cost and may be better suited to the needs of smaller households.	Montana
Make available pre-approved plans (e.g., in a pattern book), including ones for missing middle homes.	Pre-approved plans can help simplify and expedite the permitting process.	The city of Memphis has explored the use of pre-approved plans.
Make available a pre-approved list of third-party professionals that are authorized to review permit applications or conduct inspections.	Third-party review can expedite permit approvals if a local government faces a backlog of planning applications.	Texas, Florida

Source: Commission staff analysis.

Exhibit 2. Notable Legislation Related to Housing and Zoning in 2024

Legislation That Passed the General Assembly	
Building Code Reforms	
Public Chapter 946, Acts of 2024, permits local governments to amend their building codes to allow triplexes and quadplexes to be built without requiring sprinkler systems, provided the buildings are less than 5,000 square feet, under three stories, and have at least two-hour fire-resistant walls.	
Public Chapter 820, Acts of 2024, revises statewide construction standards under the state fire marshal to allow residential buildings of up to six stories (and up to four units per floor) to be built with one exit stairwell instead of two linked by a corridor.	
Infrastructure and Financing for Housing	
Public Chapter 971, Acts of 2024, allows THDA to extend a “rural and workforce housing tax credit” to affordable housing developments that also receive federal tax credits.	
Public Chapter 1012, Acts of 2024, enables local governments to pledge funds to industrial development boards for the purposes of developing or rehabilitating multifamily housing.	
Public Chapter 956, Acts of 2024, allows industrial development boards in counties with acute housing needs to make loans or grants for public infrastructure in support of housing.	
Public Chapter 860, Acts of 2024, allows local governments to create infrastructure development districts and issue bonds or levy special tax assessments to finance infrastructure in support of housing.	
Public Chapter 1051, Acts of 2024, permits local governments to create voluntary zoning incentive programs to assist in building multifamily affordable housing.	
Legislation That Did Not Pass	
Building Code Reforms	
Senate Bill 2430 by Senator Powers and House Bill 2530 by Representative Burkhart would have prohibited local governments from limiting the use of any building product or material that meets national standards for housing up to four stories.	
Zoning and Related Reforms	
Senate Bill 2237 by Senator Yarbro and House Bill 2423 by Representative Shaw would have enacted a variant of a recommendation from this report and incentivized local governments to adopt zoning reforms for housing by allowing them 5% of their recordation tax revenues for each zoning reform they adopted out of a list of 14, up to a maximum of 20%.	
Senate Bill 2238 by Senator Yarbro and House Bill 2467 by Representative Stevens would have enacted a recommendation from the draft of this report to allow property owners to apply to have their real property assessed based on its current use and independent of zoning changes that the local government might adopt.	
Senate Bill 2124 by Senator Briggs and House Bill 2292 by Representative Behn would have implemented a requirement that local governments adopt a minimum of four out of 12 zoning reform options to promote housing supply but was referred to the General Subcommittee of Senate State and Local Government Committee.	

Exhibit 2. Notable Legislation Related to Housing and Zoning in 2024 (continued)

Legislation That Did Not Pass (continued)	
Financing and Supports for Affordable Housing Development	
	Senate Bill 793 by Senator Stevens and House Bill 1450 by Representative Faison, as amended, would have reduced property tax assessments on LIHTC properties, including by excluding the value of the tax credits received from assessment.
	Senate Bill 2239 by Senator Yarbrow and House Bill 2439 by Representative Sparks would have authorized any local government to create a land bank, as recommended by the Commission, as well as to post a link on the government's own website to state publications advertising surplus real property for sale. The bill was taken off notice in the House for further study.
	Senate Bill 2289 by Senator Kyle and House Bill 2525 by Representative Thompson would have remitted 20% of realty transfer and mortgage taxes to THDA for its revolving loan fund to make low- or zero-interest construction loans for affordable housing, but the bill did not advance.
	Senate Bill 2462 by Senator Akbari and House Bill 2342 by Representative Pearson would have established a program under the Department of Finance and Administration to provide grants of \$15,000 or more to first-time homebuyers.
	Senate Bill 2490 by Senator Lamar and House Bill 2210 by Representative Jones would have levied a privilege tax on institutional investors who owned more than 100 houses in the state at a rate of \$20,000 per home. The revenue of this tax would have been deposited into a fund under THDA to support financial assistance for families purchasing a home.
	Senate Bill 2532 by Senator Lamar and House Bill 2725 by Representative McKenzie would have removed the state's prohibition on local governments' use of required inclusionary zoning measures.
Renter Protections and Supports	
	Senate Bill 1256 by Senator Akbari and House Bill 34 by Representative Thompson would have created a landlord registry for Shelby County.
	Senate Bill 1893 by Senator Oliver and House Bill 2025 by Representative Clemmons would have required landlords to disclose all fees that would be charged to a tenant on top of rent before a leasing application is made and would have prohibited landlords from charging fees in excess of actual costs.
	Senate Bill 2457 by Senator Akbari and House Bill 2337 by Representative Pearson would have had THDA set the payment standard for monthly housing assistance in the federal rental voucher program to the maximum allowed by federal law.

Analysis: Increasing Housing Supply to Lower Housing Costs and Improve Affordability

Housing affordability can be measured in multiple ways and may mean different things depending on the exact context, but stakeholders who spoke with Commission staff agreed that a general lack of affordability has become a widespread issue in Tennessee. Today, a family earning the median income may be unable to buy a median priced home in many parts of the state, potentially driving them away from some communities. Elsewhere, many other households may be spending half of their incomes or more on either mortgages or rents. In still other cases, residents in some communities are faced with aging homes in dire need of repairs they cannot afford.

In light of this, House Joint Resolution 139 by Representative Sparks in 2023 asked the Commission to study housing affordability and how it might be affected by impact fees (see appendix A); after discussion with the sponsor, stakeholders, Commission members, and legislative leadership, the scope of the study was broadened to consider other factors beyond impact fees. The resolution was approved in the House, and the Commission voted to take up the study at its June 2023 meeting.

Housing affordability, in addition to being of immense personal concern to many Tennesseans, has repercussions for the state's economy, public health, and homelessness, making it one of the largest and most far-reaching policy issues facing the state today. But it is also one of the most complex. While housing affordability has worsened since the pandemic in part because of rising interest rates and increasing construction costs, the beginnings of the problem are in fact much deeper and much older than many might imagine, tracing back decades. And while there is no one cause that is responsible for rising housing costs and falling affordability, one factor that stands out, and where the state and local governments have the most power to act, is land use policy that may have slowed housing construction, even as the state's growing population has resulted in increasing demand. One opportunity for policymakers is therefore to reform land use to spur the construction of more housing and make more efficient use of the land that is available. Still, there are many other issues affecting housing affordability, from the inherent costs of construction to impact fees to interest rates, while in some communities investors might be outbidding other buyers leading to price increases. There are equally many alternative strategies to try to subsidize and support housing development, homeowners, and renters. Ultimately, as complex and multifaceted as housing affordability can be, it may require a wide spectrum of policy efforts at all levels of government.

A general lack of affordability has become a widespread issue in Tennessee.

Addressing housing affordability may require a wide spectrum of policy efforts at all levels of government.

A lack of affordable housing can have a host of negative effects on local economies: it can decrease economic productivity, hurt businesses' ability to attract and retain workers, and reduce consumer spending on other goods and services.

Housing affordability matters not just for quality of life but also for economic productivity, workforce development, public health, and homelessness.

Each individual and family is naturally concerned with their own housing; to have a place one can call home is, for most, an indispensable part of their personal welfare and quality of life. But the cost of housing has implications for the community at large as well. In particular, a lack of affordable housing can have a host of negative effects on local economies: it can decrease economic productivity, hurt businesses' ability to attract and retain workers, and reduce consumer spending on other goods and services. A lack of affordable housing can also lead to poorer health and worse educational outcomes, and it can contribute to increases in homelessness.

Economic Productivity and the Workforce

Several studies have found correlations between housing affordability and economic productivity. One study examining the impacts of housing costs on gross domestic product (GDP) noted that in areas where households spend over 30% of their income on housing costs, local spending on other household expenses may decrease.² Another study that focused on San Francisco, San Jose, and New York City found that if housing had been less constrained in those three cities—that is, if those cities had enough housing available for workers—the growth rate of US aggregate output would have increased by 36.3%.³

Higher-priced housing can also directly affect the local workforce and employers, leading to longer commutes as existing residents and workers move in search of affordable options—perhaps so far that they seek employment elsewhere. According to one study, “Affordability of housing prices may be one of the most important determinants for the [job and housing] imbalance, and thus this imbalanced condition may force the middle and low-income workers to undertake longer commutes to find housing within their budgets.”⁴ One study found that 58% of larger companies without nearby affordable housing options report that employees claim long commute times as their reason for leaving.⁵ According to the Tennessee Business Leaders Survey administered by the Boyd Center for Business and Economic Research at the University of Tennessee, 28% of respondents cited housing availability as an issue, while 46.5% cited the cost of housing as a factor in their business's ability to attract and retain workers.⁶ Several Tennessee stakeholders said in interviews that housing

² Anthony 2022.

³ Hsieh and Moretti 2019.

⁴ Sultana 2002.

⁵ Shroyer and Gaitan 2019.

⁶ Haslam College of Business 2023.

affects their local communities' labor force,⁷ with the inability to find stable affordable housing making finding and maintaining employment difficult.

Opportunity Costs to the Wider Economy

Housing can have various complex effects on consumption, self-employment, entrepreneurship, and other investments. Although home price growth can be beneficial for homeowners—it appears to be associated with more small business formation, perhaps because entrepreneurs may make use of home equity loans to start their businesses,⁸ as well as with older workers retiring earlier from the workforce⁹—it can also lead homeowners, buyers, and renters to divert more of their incomes towards housing and away from other goods and services.¹⁰ Housing is often the single largest expense for many households, and having to meet that cost—to pay a mortgage or rent on time—can create dilemmas for spending on other essentials.¹¹ One study, for example, found that food insecurity rose along with annual rent increases.¹² The cumulative effects can be large, as by one estimate, the high housing burden in New York City dampened local consumer spending by \$7 billion as of 2015.¹³ At the same time, investment in housing can have a positive effect on the state and local economies: the Tennessee Housing Development Agency (THDA) estimates its several programs' economic impact in 2022 ranged from \$115,077 for Carroll County to \$902,059,934 for Davidson County, averaging out at \$23,727,684 per county.¹⁴

Housing is often the single largest expense for many households.

Health and Education

Housing influences physical and mental health outcomes as well as social wellbeing. In 2002 the National Institutes of Health found that 35% of low-income housing had lead-based paint hazards, compared with 19% of housing not considered low-income.¹⁵ Poor housing conditions can also lend themselves to adverse health effects, like respiratory illnesses.¹⁶ Housing insecurity including concerns about affordability can lead to

⁷ Interviews with Ken Moore, mayor, and Vernon Gerth, assistant city administrator, City of Franklin, August 1, 2023; Larry Waters, mayor, Sevier County, August 2, 2023; Angela Hubbard, director of housing division, Gregory Claxton, planner, Todd Okolichany, deputy executive planning director, and Lucy Kempf, executive director, Metropolitan Government of Nashville and Davidson County Planning Department, August 23, 2023; and Ralph Perrey, executive director, Tennessee Housing Development Agency, speaking at the Commission meeting on September 28, 2023.

⁸ Henley 2005; and Kerr, Kerr, and Nanda 2015.

⁹ Favilukis and Li 2023.

¹⁰ Choi, Goodman, and Bai 2018.

¹¹ Schanzenbach et al. 2016.

¹² Fletcher, Andreyeva, and Busch 2009.

¹³ Global Cities Business Alliance 2016.

¹⁴ Tennessee Housing Development Agency 2023a.

¹⁵ Jacobs et al. 2002.

¹⁶ Swope and Hernandez 2019.

Research on homelessness in the US suggests that it is simply driven by housing availability and market conditions.

chronic stress and anxiety, which can harm both physical and mental health.¹⁷

Additionally, a lack of affordable housing can also affect the educational outcomes for children. Research has shown an association between school performance and access to stable, affordable housing. Affordable housing may provide stability to families' living situations, which may reduce the frequency of unwanted moves and interruptions in children's educational instruction, such as excessive absenteeism and disruption of peer networks.¹⁸ Additionally, overcrowding because of a lack of affordable housing has been linked to lower math and reading scores, fewer years of school, and a decreased likelihood of graduating from high school.¹⁹

Homelessness

When housing is unaffordable, it can contribute directly to homelessness. Research comparing the widely varying rates in homelessness across the country suggests that homelessness is driven first and foremost not by any individual characteristics of those who become homeless but by housing market conditions, such as rent levels.²⁰ One study found that homelessness climbs with the share of income that people spend on rent, and then rises even faster when the share of income spent on rent exceeds 22% and especially when it exceeds 32% of total income.²¹ Chronic homelessness, beyond the many harms to the individual, is also costly to a community, potentially costing tens of thousands of dollars to local governments per year as homeless individuals are detained in jails or must seek help at emergency rooms—so much so, in fact, that it may often actually save local governments to pay for supportive housing instead.²² Patterns of homelessness have also shifted in recent years, and it now more frequently affects older individuals aged 55 and up.²³

Determining how many people might be unhoused is notoriously difficult. According to the Annual Homelessness Assessment Report (AHAR) to Congress, 9,215 people in Tennessee were either in homeless shelters or out in the open in a single night's survey in 2023.²⁴ That being said, the "point-in-time" survey may produce severe undercounts of those sleeping out

¹⁷ Ibid.

¹⁸ Brennan 2011.

¹⁹ Ibid.

²⁰ Colburn and Aldern 2022.

²¹ Zillow Research 2018; and Glynn, Byrne, and Culhane 2021.

²² National Alliance to End Homelessness 2017; and Culhane, Metraux, and Hadley 2002.

²³ Najmabadi 2023.

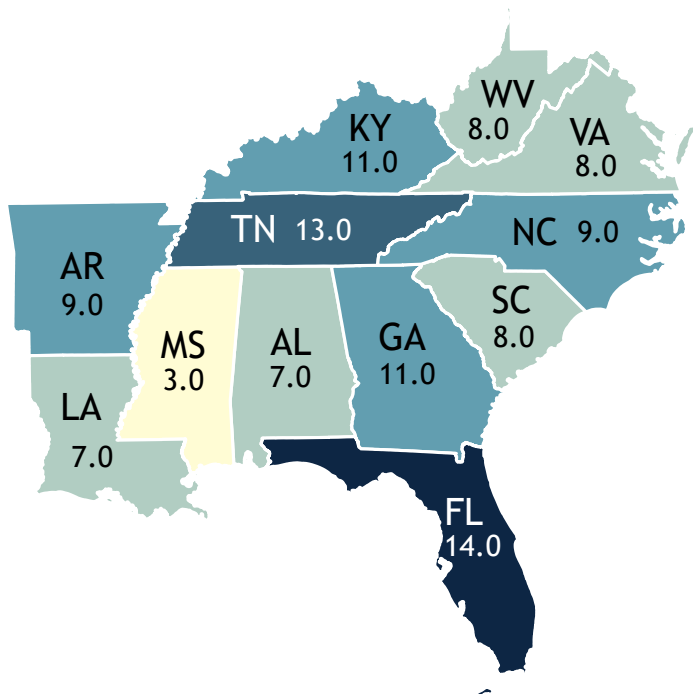
²⁴ De Sousa et al. 2023. Those not sleeping in a designated shelter are counted if they are residing in a place "not designed for or ordinarily used as a regular sleeping accommodation for human beings, including a car, park, abandoned building, bus or train station, airport, or camping ground."

in the open,²⁵ and does not count those who may be temporarily staying with friends or relatives. On the other hand, separate federal data that specifically counts students who are homeless found 17,512 in Tennessee for the 2021-22 school year, the most recent period for which data is available.²⁶ That is a much larger number, particularly as it considers only students and not adults, but it is also based on a different methodology that includes “doubling up,” where individuals are involuntarily forced to reside with relatives or others. Data collection on homelessness is, in short, inherently difficult, and can only give a rough impression of the realities.

Although it is difficult to obtain complete counts of those who may be homeless, the data available does suggest that homelessness in Tennessee is worse, both compared to the recent past and other states. From 2020 to 2022, Tennessee’s estimated number of people experiencing homelessness jumped 45.6%, and at an estimated 13 people per 10,000, the rate of homelessness in Tennessee is higher than in any other state in the southeast save Florida.²⁷ See map 1.

From 2020 to 2022, Tennessee’s estimated number of people experiencing homelessness jumped 45.6%.

Map 1. Estimated Number of People Who Are Homeless, per 10,000 Population, in Southeastern States, 2023



Source: De Sousa et al. 2023.

²⁵ Interview with Marybeth Shinn, professor, Department of Human and Organizational Development, Vanderbilt University, July 31, 2023.

²⁶ National Center for Homeless Education 2023.

²⁷ De Sousa et al. 2023.

Once a family or individual loses their home, they are faced with complex challenges that can trap them in a cycle of homelessness.

Once a family or individual loses their home, they are faced with complex challenges that can trap them in a cycle of homelessness, and accessing shelter and necessities as well as maintaining physical and mental health can make it difficult to secure employment and manage finances to find stable, affordable housing.²⁸ Unfortunately, the longer an individual is homeless, the more difficult it becomes to break the cycle. Homelessness also affects youth, and homeless youth are at higher risk for poor physical, mental, and sexual health outcomes and experience greater barriers to care.²⁹

Some county officials have anecdotally reported an increase in people in their jurisdictions living in cars or camper vans, whether on private lands or in public parks, potentially as a result of permanent housing being unaffordable.³⁰ Officials at the Tennessee Department of Environment and Conservation (TDEC) said that state park camping permit data did not make it possible to identify or track whether some of those camping in state parks might lack a permanent residence, although they could determine that at least some campers had spent hundreds of nights in state parks over a four-year period from 2019 to 2023.³¹ Census data does attempt to count individuals who live on boats or in RVs, vans, and so forth, but it is unclear how effectively it may be able to capture this population, and it does not necessarily indicate homelessness per se.

The growth of private campgrounds for those living in RVs and campers can raise additional concerns that go beyond housing affordability, such as whether wastewater is being disposed of properly. Regulation, however, is complicated by the ambiguities of how permanent these sites really are. While the Department of Health regulates private campgrounds through its Environmental Health Program, the official definition of “campground” assumes temporary occupancy; if a property owner grants a lease to RV and camper owners to reside on their property for an extended period of time, then the site instead falls under TDEC’s purview.³²

Housing affordability is an issue for many communities in Tennessee.

Housing affordability has become an issue of popular concern in the last several years as the cost of buying a home has grown dramatically. Between the second quarter of 2020, when the COVID-19 pandemic had just begun, and the last quarter of 2022, the median home price nationally shot up

²⁸ Abdel-Samad et al. 2020.

²⁹ McKinnon et al. 2023.

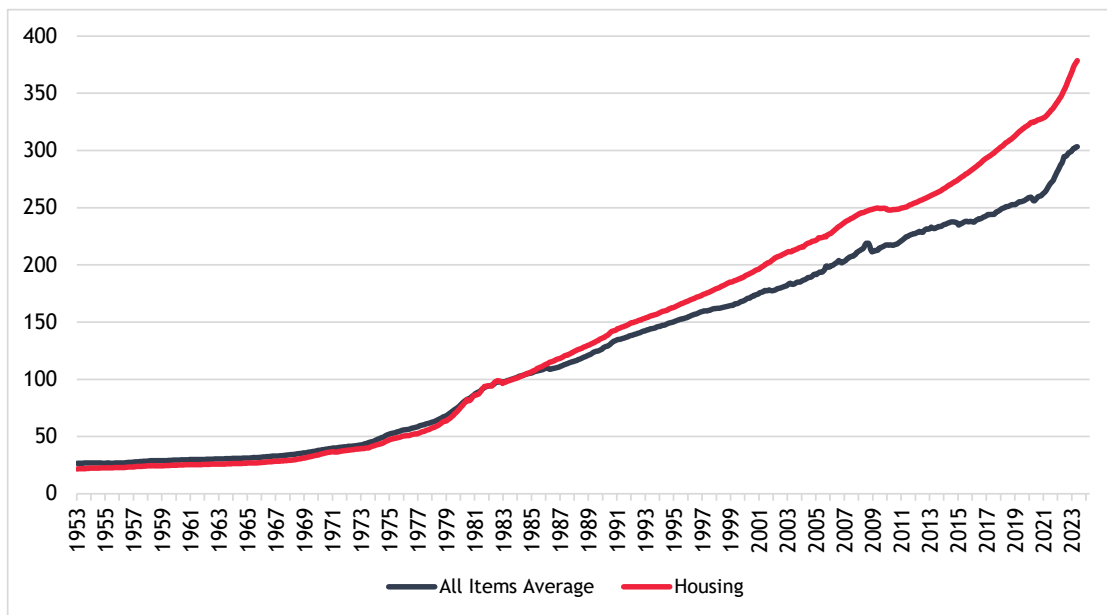
³⁰ Interview with David Connor, executive director, Tennessee County Services Association, July 11, 2023.

³¹ Interview with Mike Robertson, director of operations, Morgan Bologeorges, director of marketing, and Regina Clark, manager, Tennessee State Parks, TDEC, February 22, 2024.

³² Interview with Amanda Mantooth, environmental health specialist in Anderson County, Environmental Health Program, Department of Health, April 10, 2024.

49%, reaching a record high.³³ Tennessee itself fared little better, seeing sales prices rise 43.8% by 2022 over just three years earlier.³⁴ And many financial analysts do not expect housing prices to abate any time soon,³⁵ at least not for Tennessee: the real estate firm Zillow has forecasted that by the end of 2024, 24 out of 26 cities in the state are expected to continue to see home values increase at least modestly.³⁶ In fact, housing cost inflation has outpaced general consumer inflation since at least the late 1980s (see figure 1). Rising housing costs and worsening affordability, therefore, are not just a problem of the present moment, but one that has been slowly building for at least two generations.

Figure 1. Inflation in Housing Costs vs. All Items over Time
(1982-1984 = 100, Seasonally Adjusted)



Source: Federal Reserve Bank of St. Louis, “Consumer Price Index for All Urban Consumers: All Items in US City Average” and “Consumer Price Index for All Urban Consumers: Housing in US City Average.” Figure shows data for the Urban Consumer Price Index.

Subjectively, many seem to feel that affordability has worsened as prices have risen. As of December 2023, a record low of just 14% of people in the US believed it was a good time to buy a home.³⁷ Additionally, a 2021 national survey found that 49% of respondents identified the availability of affordable housing as a “major problem” in their community, up from

³³ Commission staff analysis of Federal Reserve Bank of St. Louis data, “Median Sales Price of Houses Sold for the United States.”

³⁴ Commission staff calculation based on a statewide median sales price for new and existing homes of \$226,000 in 2019, based on Tennessee Housing Development Agency 2023b.

³⁵ Karoui et al. 2023.

³⁶ Zillow Research 2024.

³⁷ Fannie Mae 2023.

By 2022, the median home sales price in Tennessee was \$325,000 for all homes and \$408,000 for new homes alone, making the median price approximately five times the state's median income.

39% just three years prior.³⁸ That same survey found 70% of respondents felt it was harder for young adults to buy a home than it was for earlier generations, something reflected in declining homeownership rates over time: while 45% of Baby Boomers and 45.4% of Gen Xers became homeowners when aged 25 to 34, that rate slipped to 37% for Millennials.³⁹

Although there is no definitive measure of housing affordability,⁴⁰ there are several generally agreed-upon indicators, each of which illuminates a different aspect of housing affordability. Examples include the ratio of the median household income in an area to the median home price, the proportion of a household's income that it spends on housing, the percentage of homes on the market that are affordable to a household making the median income, and the use of both housing and transportation costs to assess community affordability. While state-level indicators show that affordability has deteriorated for Tennessee as a whole, county-level and other local indicators show that affordability varies across the state, with problems concentrated in many of the state's fast growing communities.

Comparing Household Income to Home Price

One of the more intuitive measures for affordability is to look at the ratio of the median household income in an area to the median home price—essentially, how many years' worth of income is a house. On the national level between 1980 and 1999, that ratio hovered between 3.1 and 3.4,⁴¹ and most real estate experts and financial advisors recommend that the cost of a home should be no more than 2.5 times, or even just 2.0 times, a household's income to be affordable.⁴² By 2022, however, the median home sales price in Tennessee was \$325,000 for all homes and \$408,000 for new homes alone, making the median price approximately five times the state's median income.⁴³

For a closer look into what this measure looks like within Tennessee's counties, staff looked to Esri's 2023 Housing Affordability Index (HAI)

³⁸ Schaeffer 2022.

³⁹ Choi, Zhu, and Goodman 2018.

⁴⁰ Stakeholders debate how best to define affordability for housing purposes. Some prefer to speak in other terms, like attainability or accessibility, noting that what is affordable to one household may not be affordable to others. Interview with Scott Conger, mayor, Lauren Kirk, chief innovation officer, and Claire Pierson, community development coordinator, City of Jackson, August 31, 2023.

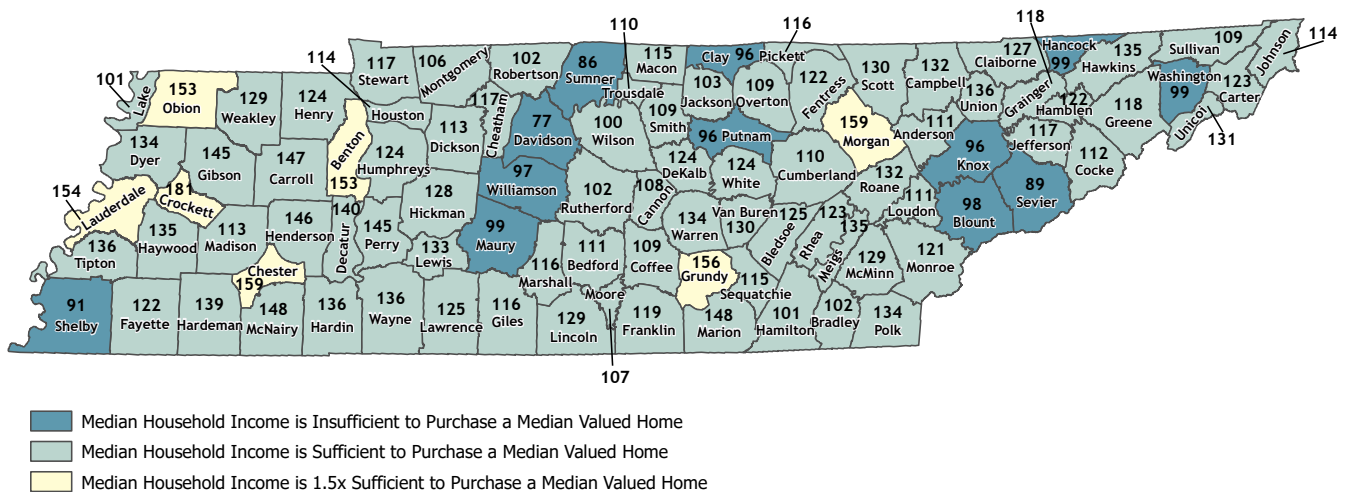
⁴¹ Hermann 2018.

⁴² McWhinney 2022; and CNN Business 2024.

⁴³ Tennessee Housing Development Agency 2023c; and Commission staff calculation based on a median household income of \$65,380 in the same year according to the Federal Reserve Bank of St. Louis data "Median Household Income in Tennessee."

model,⁴⁴ which measures affordability using an index to gauge a typical household's ability to purchase an existing home in the area.⁴⁵ An HAI greater than 100 indicates homes are more likely to be affordable for the average household and an HAI less than 100 indicates homes are less likely to be affordable. For Tennessee as a whole, the 2023 HAI stands at 102, down from 122 in 2022.⁴⁶ While the statewide HAI sits right on the threshold for affordability, 12 counties fall below that level (see the counties shown in map 2 with index values of less than 100), meaning that the median household income is not enough to purchase a median valued home in those areas.

Map 2. 2023 Housing Affordability Index for Tennessee Counties



Proportion of Household Income Spent on Housing

Another commonly used indicator of affordability looks at the proportion of a household's income that it spends on housing. The US Department of Housing and Urban Development (HUD) rates any household spending 30% or more of its pre-tax income on housing as being cost-burdened, and those spending 50% or greater are rated severely cost-burdened.⁴⁷

⁴⁴ Esri's HAI model combines the national average effective mortgage rate from the Federal Housing Finance Agency with sources reflecting trends in the current housing market to derive a current borrowing rate. A 30-year conventional fixed mortgage is assumed with a down payment of 20% of the home price. Regional property tax rates from the latest American Community Survey are applied, and the model follows the Federal Housing Administration's guidelines for debt service ratios. HAI is evaluated at the median value of household income and the median value of all owned dwellings within an area. See Esri Data Development 2023a.

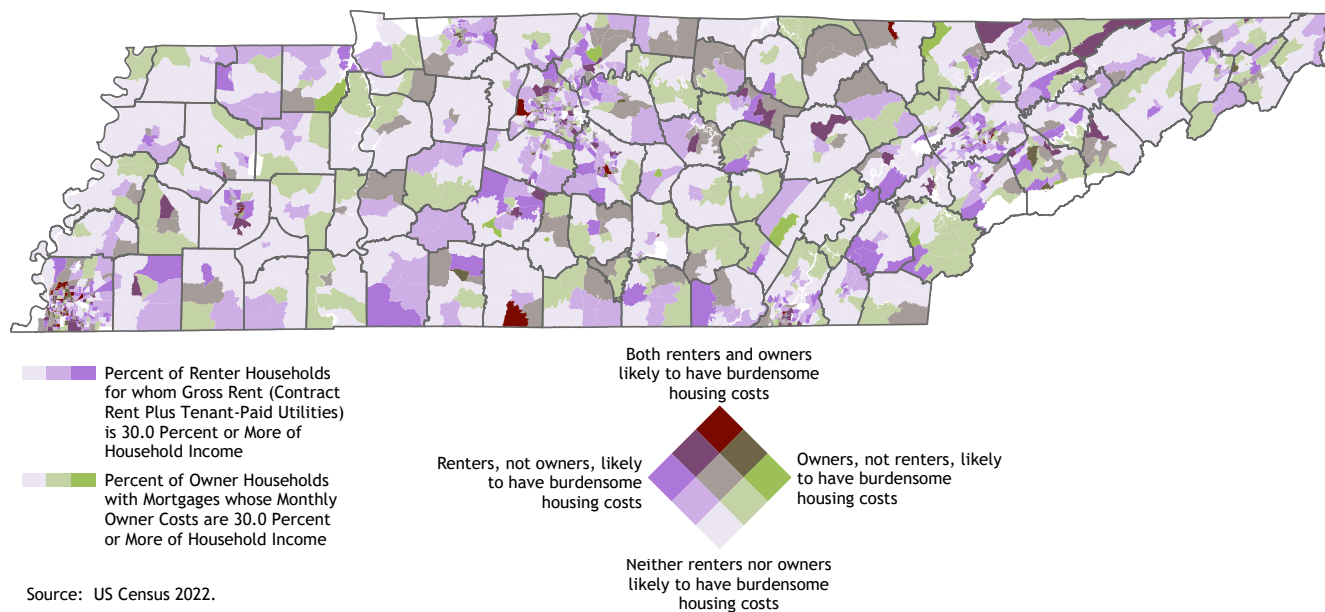
⁴⁵ See Esri Data Development 2023b.

⁴⁶ Esri Data Development 2018; and Esri 2023.

⁴⁷ US Department of Housing and Urban Development 2014.

While many researchers view the 30% and 50% thresholds as somewhat arbitrary,⁴⁸ increasing levels of cost burden in a community are nevertheless associated with higher rates of homelessness.⁴⁹ In Tennessee, the most recent estimates suggest that 17.9% of homeowners are cost-burdened, while 43.4% of renters are.⁵⁰ Between both groups, 13.4%, or roughly one out of every eight households in the state, are even considered *severely* cost-burdened.⁵¹ There is, however, considerable variation across the state, and even within counties. See map 3.

Map 3. Tennessee Households with Burdensome Housing Costs



Housing Affordability versus Affordable Housing

To many specialists in housing, “affordable housing” specifically refers to housing that is made affordable for households at lower income levels as measured relative to an “area median income” computed by HUD. For the purposes of this report, however, affordability is considered more broadly, as stakeholders have reported affordability challenges for many groups, including more middle-income households.

⁴⁸ Interview with Arthur C. Nelson, professor emeritus of urban planning and real estate development, University of Arizona, October 17, 2023.

⁴⁹ Zillow Research 2018; and Glynn, Byrne, and Culhane 2021.

⁵⁰ US Census 2023b.

⁵¹ Joint Center for Housing Studies of Harvard University 2023.

Percentage of Homes on the Market That Are Affordable

Another way to consider affordability is to look at what percentage of homes on the market are actually within reach of a household making the median income. By that measure, as of April 2023, only 23% of houses on the market nationally were within the purchasing range of a household making \$75,000 (roughly the median income), whereas if the market were evenly distributed, 51% of houses would be—a total difference of 319,460 houses effectively missing just for that income group.⁵² The American Enterprise Institute has a similar measure that looks at whether a typical tradesperson involved in home construction—specifically, a carpenter—earning the average salary for their job could afford even just an entry-level home in their community, and found that as of last year a carpenter in Nashville would have been able to afford just 18.7% of the entry-level homes available.⁵³ The problem of housing availability becomes especially acute at lower income levels; Tennessee has an estimated 209,536 extremely low-income households—that is, those making 30% of the area median income or less—and of those, 70% are severely cost-burdened; yet among this group, for every 100 households, there are just 42 affordable rental units available.⁵⁴ Commission staff extended this concept to look at whether a teacher earning the median salary could afford the median-priced home in the county where they worked. In all but nine counties, the median-priced home costs three times the median salary of a local teacher, and in 15 counties it is more than six times as much as the median teacher salary.⁵⁵

Unsurprisingly, the rental market has seen its own cost increases. In the first two decades of this century, median asking rent more than doubled,⁵⁶ and as of 2023 a Tennessee resident would on average need to make an hourly wage of at least \$20.76 to pay for a “fair market rent” home without being cost-burdened, or else work at least 97 hours a week at the current minimum wage of \$7.25 an hour.⁵⁷

Housing and Transportation Costs Combined

In some communities, lower housing costs can be offset by higher transportation costs. Although home prices can often be lower outside of denser, more urbanized core areas, the added distance to workplaces, schools, shopping, and other amenities may create costs for transportation. Or to put it another way, if a family moves farther away from a city center to lower their housing costs, they may inadvertently end up shifting some or

As of 2023, a Tennessee resident would on average need to make an hourly wage of at least \$20.76 to pay for a “fair market rent” home without being cost-burdened, or else work at least 97 hours a week at the current minimum wage of \$7.25 an hour.

⁵² Yun et al. 2023.

⁵³ Pinto and Peter 2023.

⁵⁴ National Low Income Housing Coalition 2024.

⁵⁵ Commission staff analysis of US Census Bureau American Community Survey 2021 5-year data.

⁵⁶ Desmond 2020.

⁵⁷ National Low Income Housing Coalition 2023. Fair market rent is defined under federal regulation (24 CFR 888.113) as the 40th percentile rent for standard quality housing within a local market.

Nearby suburban and rural areas have increasingly absorbed the spillover of workers who are driven out of high-growth cities in search of more affordable housing.

all of those savings into their transportation expenses, wiping out any real gain.⁵⁸ Stakeholders said that as housing costs have risen in high-growth cities in Tennessee, nearby suburban and rural areas have increasingly absorbed the spillover of workers who are driven out of the city in search of more affordable housing.⁵⁹ But, when they maintain their jobs in the city, that translates into lengthier commutes that create their own added costs, both at the household and wider economic levels.⁶⁰

Looking at the combination of housing and transportation costs—commonly referred to as H+T—offers a more expanded view of affordability. Map 4 shows housing affordability for each county in Tennessee using the traditional housing cost only measure compared with the combined housing and transportation cost index. For Tennessee, when looking only at housing costs as a measure of affordability, approximately 84% of neighborhoods are considered affordable for a typical household—meaning housing costs don’t exceed 30% of household income.⁶¹ However, when transportation costs are factored in, the number of affordable neighborhoods in Tennessee—defined as those where housing and transportation costs combined don’t exceed 45% of household income—drops to approximately 26%.⁶² For more information on H+T indexes, commuting, and transportation costs by county, see appendix D.

⁵⁸ The cost of car-based transportation includes maintenance and depreciation in the car’s value from added mileage. See, for example, American Automobile Association 2023.

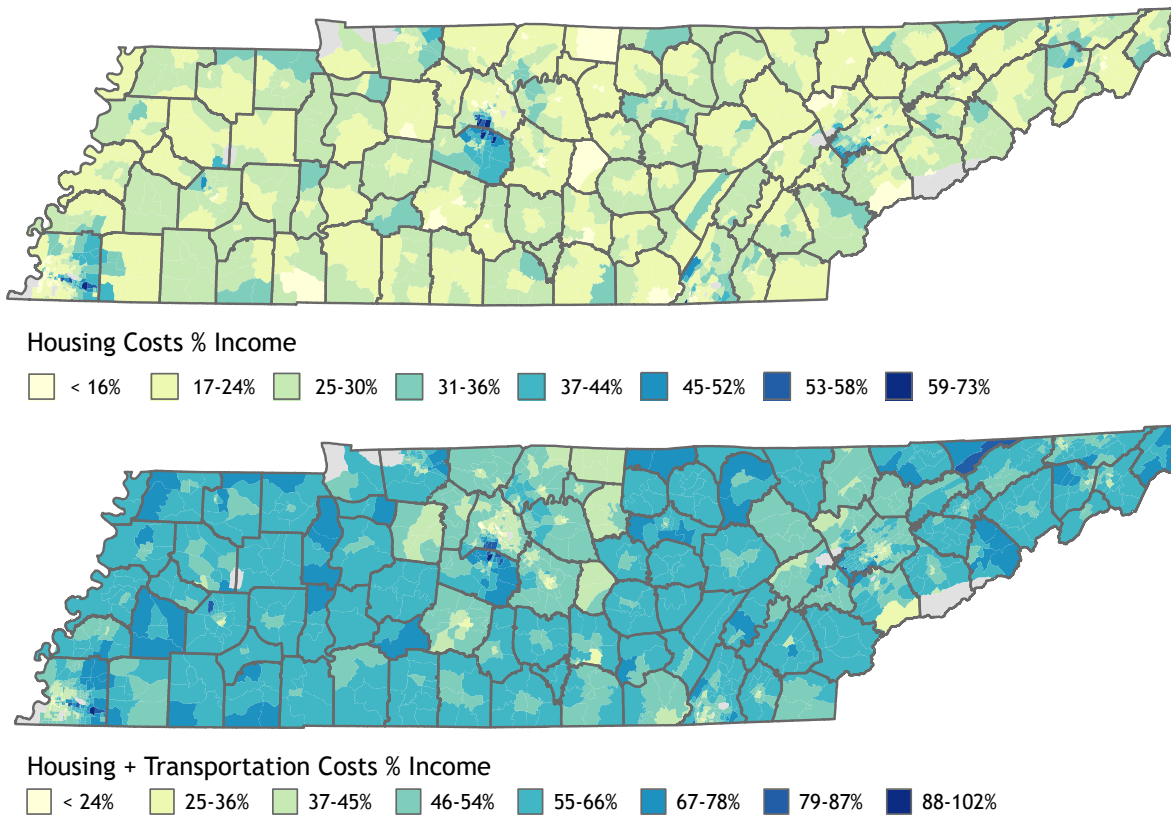
⁵⁹ Interviews with David Connor, executive director, Tennessee County Services Association, July 11, 2023; Chad Jenkins, deputy director, Tennessee Municipal League, August 22, 2023; Bob Rial, mayor, Terry Malone, business development coordinator, and Amanda Harrington, planning and policy analyst, Dickson County, December 5, 2023.

⁶⁰ Shroyer and Gaitan 2019.

⁶¹ Center for Neighborhood Technology (CNT) data used for a “typical household” assumes a household earning the median income for the region, with the average household size for the region, and the average number of commuters per household for the region. See Center for Neighborhood Technology 2022b.

⁶² Commission staff calculations based on Center for Neighborhood Technology 2022a.

Map 4. Housing Costs as a Percentage of Income vs Housing and Transportation Costs Together as a Percentage of Income, 2019



Source: Center for Neighborhood Technology 2019.

In some communities, affordability may be more a problem of preserving old housing than building new.

The cost of a home is never just the purchase price. Even in cases where someone has bought a home with cash and has no mortgage payments to make, there are still ongoing costs, all of which may be magnified when the prices of neighboring homes start to rise. Affordability, therefore, is not just about whether a family can buy a home, but also whether it can keep it, something that can be difficult in areas where the housing stock is aging and increasingly in need of costly repairs. While 43.1% of Tennessee's housing has been built since 1990,⁶³ the portion of newer and older housing stock age varies widely from county to county (see appendix H). For example, a plurality of the housing in Anderson County (37.8%) was built between 1960 and 1989, while more than two-thirds of housing in Williamson County (70.4%) has been built since 1990.⁶⁴

Affordability is not just about whether a family can buy a home, but also whether it can keep it.

⁶³ Commission staff calculations of data from US Census Bureau 2023b.

⁶⁴ Ibid.

Areas with an aging housing stock may have a greater need for housing repair.

There are significant community costs associated with blighted properties.

Although older and depreciated housing can be more affordable when comparing rents or purchase prices to newer housing stock,⁶⁵ areas with an aging housing stock may have a greater need for housing repair. The need for renovations can vary by community. While communities with stable populations may see continuous renovation of older homes,⁶⁶ stakeholders mentioned that in some areas of the state, the disrepair of the older housing is so extensive that it has to be torn down and built anew. To assist homeowners with the cost of renovations, some communities, like the city of Jackson, have developed programs for housing repair, including modifications to help homeowners age in place. While these programs can provide relief, they also highlight the potentially sizeable affordability issues in communities with aging housing stock. For example, Jackson's program currently has a waitlist as demand for assistance exceeds the resources available.⁶⁷

But if homeowners are unable to afford maintaining or repairing their homes, they may end up abandoning them. This can lead to a decline in property values, among other things. Communities like Memphis experience a larger challenge than most. A 2015 analysis estimated there were at least 13,000 structures or vacant lots in Memphis that qualified as being "blighted"—a term commonly used to refer to property that is out of compliance with modern building codes or otherwise dangerous to the safety and welfare of the general public.⁶⁸ The negative effects of blighted properties and structures are well documented as are the significant community costs associated with these properties. As the Commission has found previously in its 2012 study *Dealing with Blight*, past research has found that abandoned or vacant properties heighten the need for emergency services, code enforcement, property maintenance and demolition, and increased government expenditures, while also often being tax delinquent, leading to lower property values, and losing local governments potential tax revenue.⁶⁹ A 2010 study commissioned by the city of Philadelphia, for instance, found that "vacant property reduces market values by 6.5% citywide and by as much as 20% in neighborhoods with the most empty lots and structures."⁷⁰

⁶⁵ Tennessee Housing Development Agency 2020; and Sisson 2023.

⁶⁶ Ibid.

⁶⁷ Interview with Scott Conger, mayor, Lauren Kirk, chief innovation officer, and Claire Pierson, community development coordinator, City of Jackson, August 31, 2023.

⁶⁸ Memphis Fights Blight "Blight Elimination Steering Team."

⁶⁹ Tennessee Advisory Commission on Intergovernmental Relations 2012.

⁷⁰ Fraser 2011.

An Aging Public Housing Stock

Aging and disrepair may be a particular issue for public housing; according to the Department of Housing and Urban Development, approximately 45% of Tennessee's public housing buildings were built between 1950 and 1969 and 34% were built between 1970 and 1989.¹ Stakeholders have also expressed concerns with their aging public housing stock and the extraordinary work to get them up to modern standards, and yet, in some cases, demolition can be challenging because the public housing authority must first prove that new construction would be cheaper than renovation.²

¹ Commission staff analysis of US Department of Housing and Urban Development 2023a.

² Interview with Susan Minor, chief operating officer, Franklin Housing Authority, July 31, 2023.

Housing affordability is fundamentally shaped by the supply of homes and the demand of changing populations.

A complex web of factors contribute to housing affordability. But the balance of housing supply and demand is one overarching factor that stands out. Every individual and family needs some place to call home, but if the supply of available homes falls short of demand, then competition for those homes eventually drives prices up and then out of reach of more and more people.

Housing construction has long failed to keep up with the country's growing population and its evolving housing needs, meaning that the state's affordability woes today are in no small part the consequence of a chronic housing shortage. Increasing the housing supply at all levels, even at higher price points, can help reduce pressure on the housing market overall and improve affordability. Fortunately, the state has several means at its disposal for helping to boost the overall housing supply to meet demand, first by making better use of the supply of land available and, second, by allowing more housing to be built through the reform of land use policy and regulations.

Home construction has lagged population growth for generations.

The relationship of population to housing demand is fairly straightforward: all else being equal, the more people in a community, the more housing that is needed. That means that population growth can be a strong driver of housing demand and, if supply does not keep up with it, housing affordability. That may be a special concern for Tennessee, which has seen rapid growth in recent years from people moving into the state from

Housing construction has long failed to keep up with the country's growing population and its evolving housing needs.

elsewhere around the country. From 2020 to 2022, the state’s population rose by 125,000 people, with 83,000 added in 2022 alone, equaling growth of 1.2%—and all of them needing some kind of housing.⁷¹ Many stakeholders cited the state’s population growth as a factor that is adding pressure to housing demand and helping to drive up costs.⁷²

Remote Work and Migration from Outside of the State

Tennessee’s newly arrived residents may have been drawn to the state for any number of reasons,¹ but some stakeholders pointed to relocations for remote work as one major cause of this inflow. As yet, though, data on how remote work may have shifted population are scarce and the effects are speculative. Some early research suggests that remote work has increased vacant housing in urban centers while diminishing it in outlying areas,² and two studies have estimated that remote work (or time spent at home as a proxy measure) may account for about half of the spike in home prices during the earlier part of the pandemic.³ Another study observed that remote work appears to add a slight premium of 3.8% to housing costs, seemingly because it demands additional space in the home.⁴ For Tennessee, however, it is difficult to judge just how many people now work remotely, although data do indicate that as of 2022, those moving into the state were more likely to work remotely than current residents at rates of 21.1% versus 13.2%, respectively.⁵

¹ Interviews with David Connor, executive director, Tennessee County Services Association, July 11, 2023; Kevin Rigsby, town planner, City of Smyrna, July 11, 2023; Nicole Heyman, chief housing officer, City of Chattanooga, August 3, 2023; Angela Hubbard, director of housing division, Gregory Claxton, planner, Todd Okolichany, deputy executive planning director, and Lucy Kempf, executive director, Metropolitan Government of Nashville and Davidson County Planning Department, August 23, 2023; and Retha Patton, housing program director, Tennessee’s Community Assistance Corporation, September 18, 2023.

² Gupta et al. 2021.

³ Mondragon and Wieland 2022; and Gamber, Graham, and Yadav 2021.

⁴ Stanton and Tiwari 2021.

⁵ Email correspondence with Tim Kuhn, director, Tennessee State Data Center, December 5, 2023.

The key for affordability, though, is not really how much the population grows, but whether the supply of housing keeps up. In 2022 and as Tennessee’s population surged by 83,000, just a little over 53,000 housing permits were issued state-wide.⁷³ That yields a permitting rate of about 7.6 homes for every 1,000 people in the state. While there is no set target rate for housing permits per capita, it is easy for home construction to fall

⁷¹ Boyd Center for Business and Economic Research 2022c; and US Census Bureau 2023c.

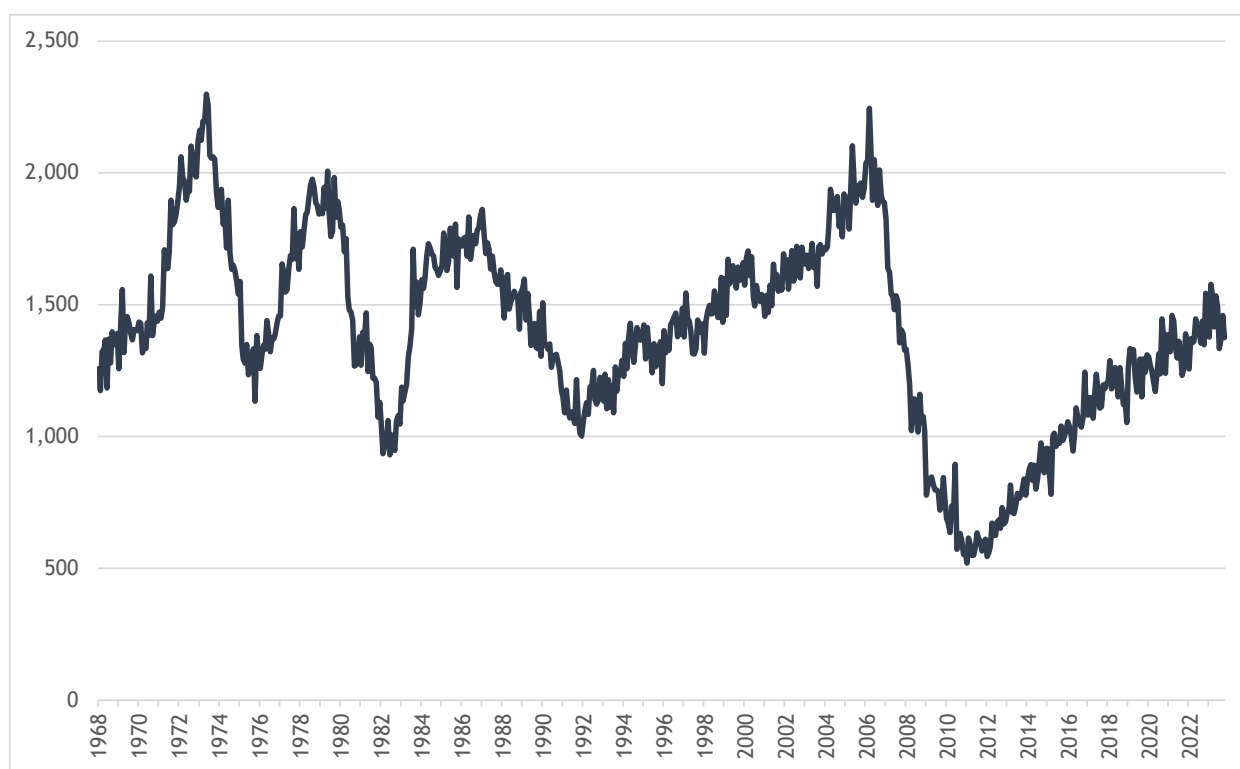
⁷² Interviews with David Connor, executive director, Tennessee County Services Association, July 11, 2023; Kevin Rigsby, town planner, City of Smyrna, July 11, 2023; Nicole Heyman, chief housing officer, City of Chattanooga, August 3, 2023; Angela Hubbard, director of housing division, Gregory Claxton, planner, Todd Okolichany, deputy executive planning director, and Lucy Kempf, executive director, Metropolitan Government of Nashville and Davidson County Planning Department, August 23, 2023; and Retha Patton, housing program director, Tennessee’s Community Assistance Corporation, September 18, 2023.

⁷³ Boyd Center for Business and Economic Research 2023c; and US Census Bureau 2023c.

behind—and that is precisely what has happened in the US over the past half century.

Housing construction has oscillated along with turns in the wider economy over the years, rising and falling repeatedly from at least 1968 into the early 2000s, but it fell to a nadir in the years following the Great Recession and only slowly climbed back upwards over the course of the 2010s. At present, and even with the steep rise in construction seen recently in some places, homebuilding remains well below the booms seen in previous decades of the late 20th century (see figure 2).

Figure 2. Annual Rate of Housing Units Completed Nationally, in Thousands, 1968-2023



Source: US Census Bureau data via the Federal Reserve Bank of St. Louis, “New Privately-Owned Housing Units Completed: Total Units.”

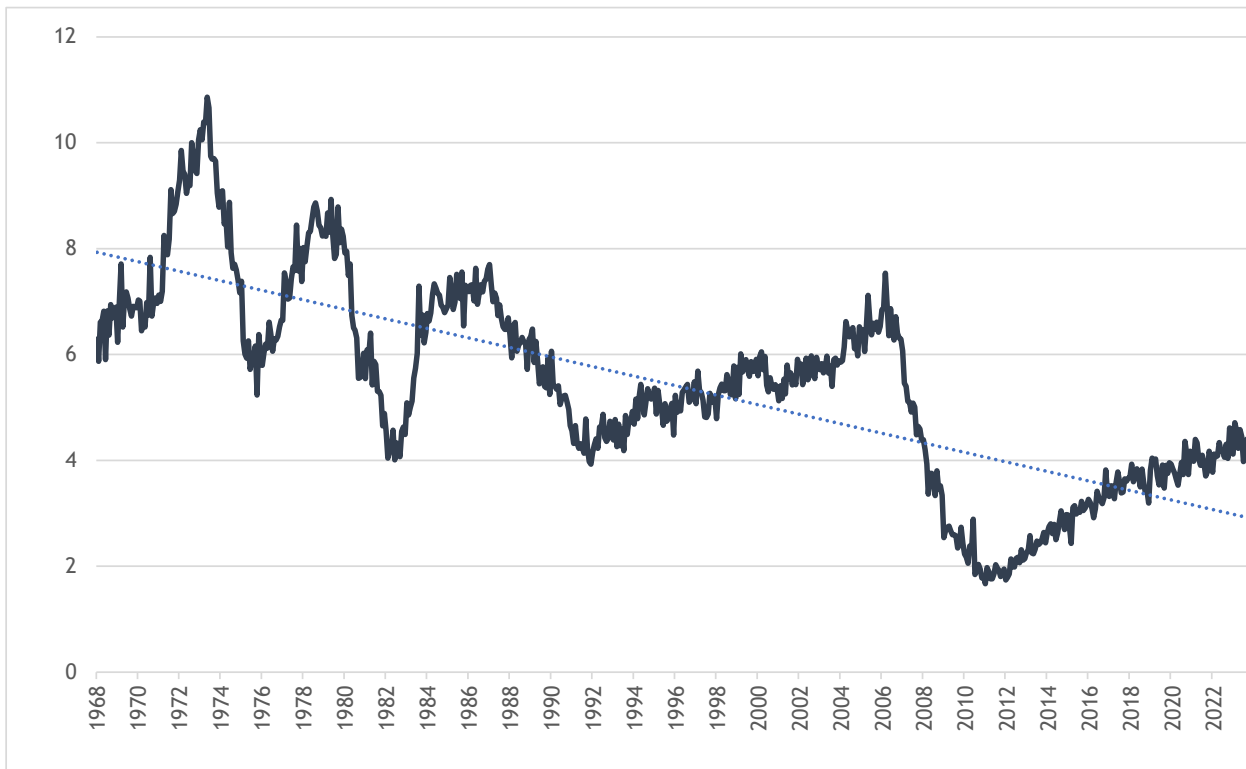
Yet taken alone, home construction totals mask a more serious—and enduring—decline, because the country’s population has also been growing steadily over the decades. When in 1970 some 1.4 million homes were built, the US population was just barely above 200 million.⁷⁴ A similar number of homes that were then completed in 2022 might not appear to be far off from the 1970 total, but the national population is more than half again larger than it was then, now standing at upwards of 330 million.⁷⁵ Thus, for any given number of homes built and sold today, there

⁷⁴ US Census Bureau data via the Federal Reserve Bank of St. Louis, “Population.”

⁷⁵ US Census Bureau data via the Federal Reserve Bank of St. Louis, “New Privately-Owned Housing Units Completed: Total Units” and “Population.”

are about 62% more people seeking to fill them than there would have been in 1970. To put it simply, housing construction has not kept up with population growth for several generations, and even with the recent surge in construction, the country's homebuilding rate per capita today is still far below what it averaged in the decades before 1990 (see figure 3).

Figure 3. Annual Rate of Housing Units Completed Nationally per Thousand People, 1968-2023



Source: Commission staff analysis of US Census Bureau data via the Federal Reserve Bank of St. Louis, "New Privately-Owned Housing Units Completed: Total Units" and "Population." The dotted line marks the average trend over the total period.

This exact type of data is not available at a state-level, but similar data on building permits and estimates of housing stock for Tennessee paint a similar picture, with weak construction activity in the wake of the Great Recession: from 2011 to 2016, for instance, the housing stock in the state grew by less than three units per 1,000 people each year.⁷⁶ Considered from a different angle, over that same timespan and for each home added to the state's housing stock, the population expanded by anywhere from 2.6 to 4.8 people, or more than the average household size.⁷⁷ Moreover, stakeholders with knowledge of the state's housing market have said that an undersupply of homes relative to demand is one of—if not the—primary

⁷⁶ Commission staff analysis of US Census Bureau 2023b.

⁷⁷ Ibid.

forces driving affordability issues in Tennessee,⁷⁸ and by the middle of 2023, as home prices hovered near historic highs, there were 39% fewer homes for sale nationally than there had been five years earlier.⁷⁹

There is general agreement that more homes now need to be built, although estimates of exactly how many can vary. The National Association of Home Builders estimated in 2023 that the country is suffering from a shortage of 1.5 million residences,⁸⁰ but that is actually one of the lowest estimates. Various real estate groups have put forward housing shortage estimates of anywhere from 2.3 million to 6.5 million, partly by factoring in considerations like households “doubling up,” where, for example, adult children might live with parents for lack of anywhere affordable to move to.⁸¹ Fannie Mae, meanwhile, has estimated a shortage of 4.4 million housing units just in the 75 largest metropolitan areas alone.⁸² And the National Low Income Housing Coalition goes further, estimating that the United States is short of 7.3 million affordable rental homes.⁸³

This same variation applies to Tennessee itself. One housing research group estimated that, in 2019, Tennessee as a whole was short 22,000 housing units.⁸⁴ The very next year, however, that number had more than doubled to 56,000.⁸⁵ Yet other estimates have found comparable numbers just for individual cities in the state, with Zillow projecting that Nashville needs 35,000 housing units,⁸⁶ even as Nashville’s Affordable Housing Task Force reported a need of nearly 54,000 by 2030 over what was available in 2019.⁸⁷ Stakeholders also estimated figures of 35,000 for Memphis and perhaps as much as 8,000 for Chattanooga.⁸⁸

Estimates of exactly how many more homes are needed vary.

⁷⁸ Interviews with Hunter McDonald, Chris Wilson, Candy Joyce, and Ryan Folz of Middle Tennessee Association of Realtors, July 7, 2023; Jeremy Heidt, director of government affairs, and Dhathri Chunduru, director of research and planning, Tennessee Housing Development Agency, July 10, 2023; Kevin Rigsby, town planner, City of Smyrna, July 11, 2023; Nicole Heyman, chief housing officer, City of Chattanooga, August 3, 2023; Dan Reuter, executive director, Chattanooga-Hamilton County Regional Planning Agency, August 4, 2023; Jenny Schuetz, senior fellow, Brookings Institution, August 17, 2023; Ralph Perrey, executive director, Tennessee Housing Development Agency, August 30, 2023; Nick Ogden, owner, Clear Blue Development, September 13, 2023; Ed Pinto, co-director, AEI Housing Center, September 18, 2023; and Arthur C. Nelson, professor emeritus of urban planning and real estate development, University of Arizona, October 17, 2023.

⁷⁹ Anderson 2023a.

⁸⁰ Thompson and Pagan 2023.

⁸¹ Trapasso 2023; and Divounguy 2023.

⁸² Fannie Mae 2022.

⁸³ National Low Income Housing Coalition 2024.

⁸⁴ Up For Growth 2022.

⁸⁵ Up For Growth 2023.

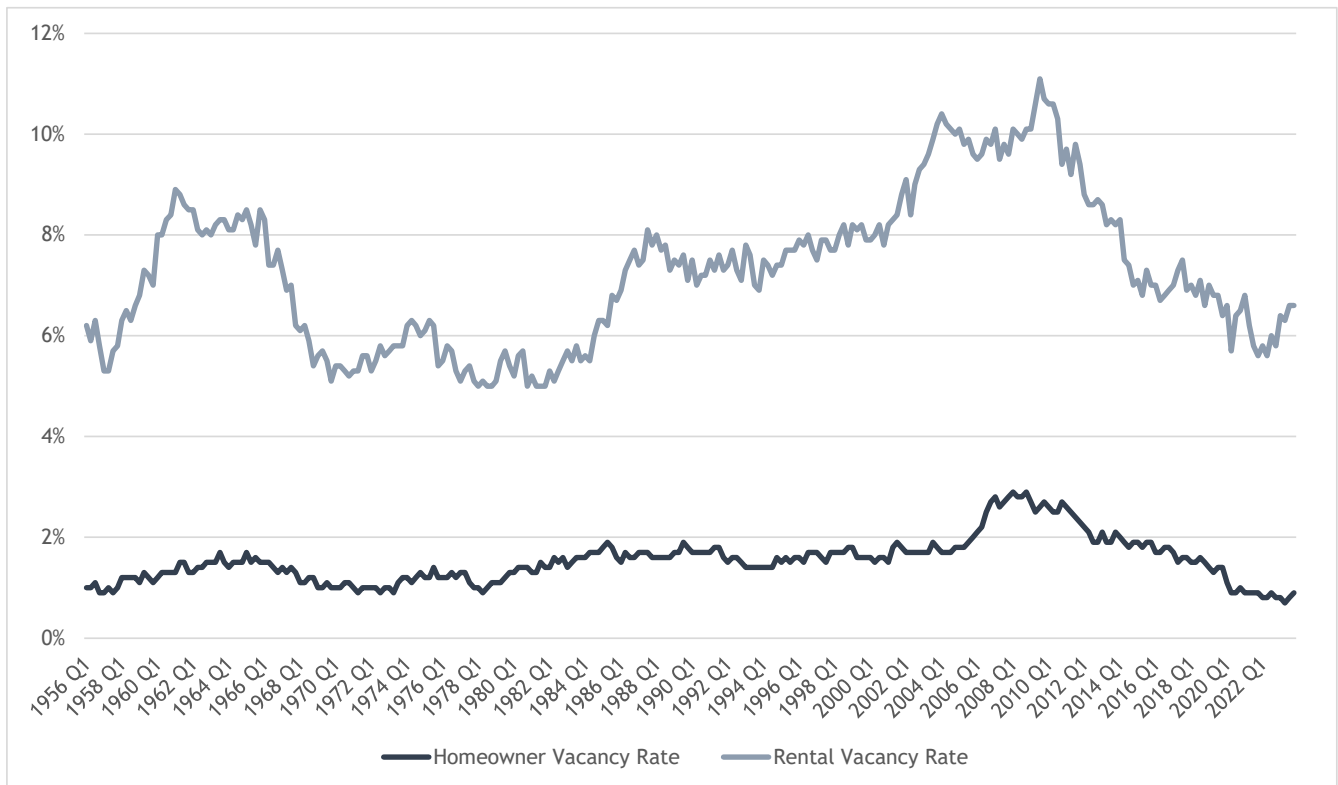
⁸⁶ Divounguy 2023.

⁸⁷ Nashville Affordable Housing Task Force 2021.

⁸⁸ Interviews with John Zeanah, director, Memphis and Shelby County Division of Planning and Development, August 24, 2023; and Jens Christensen, CEO, Habitat for Humanity of Greater Chattanooga, August 7, 2023.

This shortage of housing is reflected in historically low vacancy rates, which correlate with rising housing prices.⁸⁹ At the national level vacancy rates have shown a long decline since the Great Recession for both homeowner-occupied and rental housing and are now at historically low levels (see figure 4).⁹⁰ In fact, the national rental vacancy rate (6.6% for the third quarter of 2023) has not been so low since the 1980s, while the owner-occupied vacancy rate is the lowest it has been since records began in 1956, at just 0.8% in the third quarter of 2023. These rates exclude housing kept as second homes, vacation homes, short-term rentals, or housing that is abandoned.

Figure 4. Homeowner-Occupied and Rental Housing Vacancy Rates at the National Level, 1956-2023



Source: US Census Bureau 2023a.

⁸⁹ Tennessee Housing Development Agency 2020.

⁹⁰ There are different measures of vacancy, depending on what may or may not be included. For instance, a vacation home may be unoccupied most of the time and therefore technically vacant, but it is not part of the inventory of homes that could be available to would-be homebuyers. In some parts of Tennessee, the overall vacancy rate may be quite high, even in excess of 30%, because of housing that is kept as second homes, vacation homes, short-term rentals, or is abandoned. The homeowner and rental vacancy rates, however, are narrower measures. The homeowner vacancy rate counts only those housing units that are occupied by their owners or that are unoccupied because they are for sale or have just been purchased. Similarly, the rental vacancy rate counts only those units that are occupied by renters or that are vacant but being offered for rent.

In Tennessee, the homeowner vacancy rate for the third quarter of 2023 was higher than the national rate, but still only at 1.2%. And while rental vacancies decreased for the state from the previous quarter, Tennessee's rental vacancy rate was still higher than the national rate at 7% (for a detailed breakdown of the different vacancy rates for each county in the state, see appendix E).⁹¹

These shortages may only grow worse in the coming years, as a majority of Tennessee counties are projected to experience further growth (see appendix F), and stakeholders have expressed concern about both how to house the incoming residents and how some communities just don't have the infrastructure to support that growth.⁹² In 2020, for example, Tennessee had an estimated population of 6.9 million,⁹³ but looking ahead to 2040 the state is projected to see growth of approximately 50,000 people per year,⁹⁴ and the Blue Oval City project alone could bring more than 176,000 new residents to West Tennessee by 2045.⁹⁵

Still, if an exact number for housing needs at either the state or local level is difficult to pin down, these estimates do at least point towards the same conclusion: the current housing supply in Tennessee is not enough to meet demand. It should be noted that, more recently, there have been signs of improvement in housing availability, at least on some fronts. From 2020 through 2022 there was a boom in apartment construction nationwide with 1.2 million units added in that time, and parts of Tennessee were at the forefront of that expansion.⁹⁶ The Nashville metropolitan area was ranked 18th in the country for the number of apartments added, with still more expected to be completed in 2023,⁹⁷ possibly helping to ameliorate rental cost growth and with some apartment complexes now offering special discounts to attract tenants.⁹⁸ According to the National Association of Realtors, the metropolitan areas of Chattanooga, Memphis, and Nashville seem to be issuing new housing permits at a rate sufficient to keep up with the addition of new jobs—though only when counting multifamily housing along with single-family dwellings.⁹⁹ But this upturn in multifamily housing production would likely need to be sustained for

Housing shortages may only grow worse in the coming years.

The current housing supply in Tennessee is not enough to meet demand.

⁹¹ Middle Tennessee State University Business and Economic Research Center 2023.

⁹² Interviews with William Veazey, planner, Tipton County, August 24, 2023; Scott Conger, mayor, Lauren Kirk, chief innovation officer, and Claire Pierson, community development coordinator, City of Jackson, August 31, 2023; and Bob Rial, mayor, Terry Malone, business development coordinator, and Amanda Harrington, planning and policy analyst, Dickson County, December 5, 2023.

⁹³ Boyd Center for Business and Economic Research 2022a.

⁹⁴ Boyd Center for Business and Economic Research 2022a; and Boyd Center for Business and Economic Research 2022b.

⁹⁵ Coil 2023.

⁹⁶ Grecu 2023.

⁹⁷ Ibid.

⁹⁸ Wethington 2023.

⁹⁹ National Association of Realtors 2023a.

A mismatch between the type of housing available and households can create tension between demand and supply—not all homes are built and sized in a way that meets residents' needs.

years to come before it could fully reverse the long-standing undersupply of new homes.

The housing supply may not match current and evolving household needs.

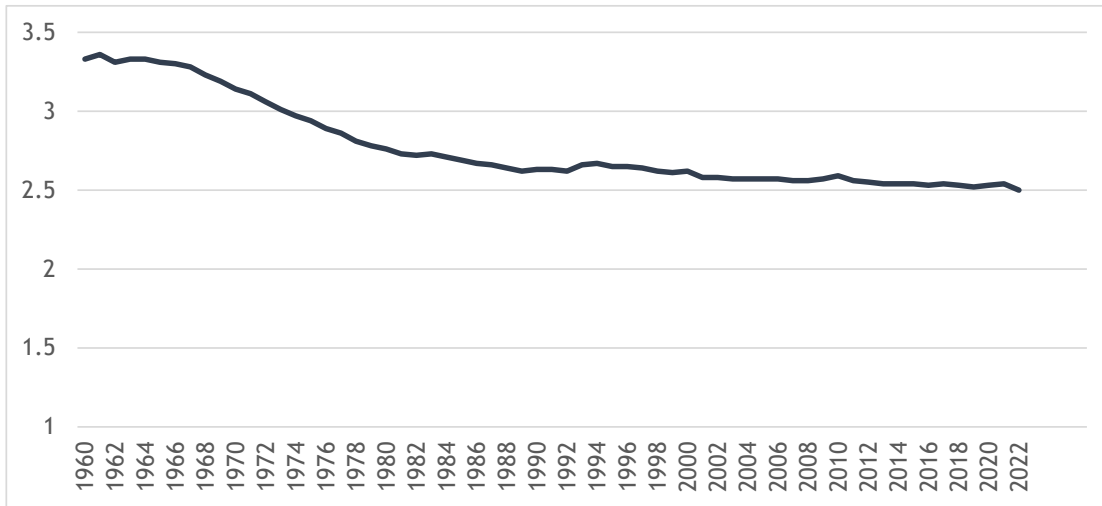
A simple imbalance between population and housing supply can upend affordability, but there are nuances to how population growth, and more precisely demographic changes in household structure, might affect housing demand. Despite the norm of talking about housing “units,” it is important to remember that housing is not a simple, standardized commodity, as if any given house could be exchanged for another. A one-bedroom apartment is not equivalent to a five-bedroom house, and the housing needs of a young family with several children are not likely to be the same as a single individual in their twenties or a retiree living on their own. Thus, a mismatch between the types of housing available in a community and the households that live there can also create a tension between demand and supply—because, ultimately, even if a community has a surplus of homes, it may do little good if they are not built and sized in a way to suit residents' needs.

A speculative factor that some have noted is whether smaller households might be creating more demand, because all else being equal, the fewer people there are in the average household, the more households there will be, meaning more homes are required for a population of a given size.¹⁰⁰ The average household size in the US has been on a long-term decline for well over a century—even as the average amount of floor space per housing unit has increased.¹⁰¹ However, despite a marked drop in the mid-20th century, average household size has in fact moved very little in the last four decades (see figure 5). Single-person households do tend to be older, however, with Baby Boomers making up the single largest group of those living on their own.¹⁰²

¹⁰⁰ Interview with Brian Straessle, executive director, and Mandy Spears, deputy director, Sycamore Institute, August 21, 2023.

¹⁰¹ Moura, Smith, and Belzer 2015.

¹⁰² Khater, Kiefer, and Atreya 2021.

Figure 5. Change in the Average US Household Size over Time

Source: US Census Bureau “Current Population Survey, Table HH-4.”

The number of households has grown rapidly just within the last several years, though, seemingly in part because of pent-up demand among adults in their 30s and early 40s to have their own homes. Whereas three separate surveys tracking the number of households estimated there were between 1.4 million and 1.5 million new households added per year from 2017 to 2019, that rate shot up to somewhere between 2.0 million and 2.4 million new households per year from 2019 to 2021.¹⁰³

But looking past simple averages, households exist in a distribution of different sizes, and that too has implications for housing demand. For instance, the share of single-person households made up of older individuals has been rising, particularly in rural areas,¹⁰⁴ and yet the construction of smaller homes that would be suitable for such households has declined precipitously over the last half century.¹⁰⁵ At the same time, there are also more multigenerational households—that is, households in which there are either at least two adult generations living together under the same roof or grandchildren living with grandparents. Whereas 7% of the country’s population lived in a multigenerational household in 1971, by 2021 that had risen to 18%.¹⁰⁶ Looking at Tennessee today, there is a distribution in the size of households with approximately 80% composed of three or fewer people (see figure 6).

In Tennessee,
approximately 80% of
households have three
or fewer people.

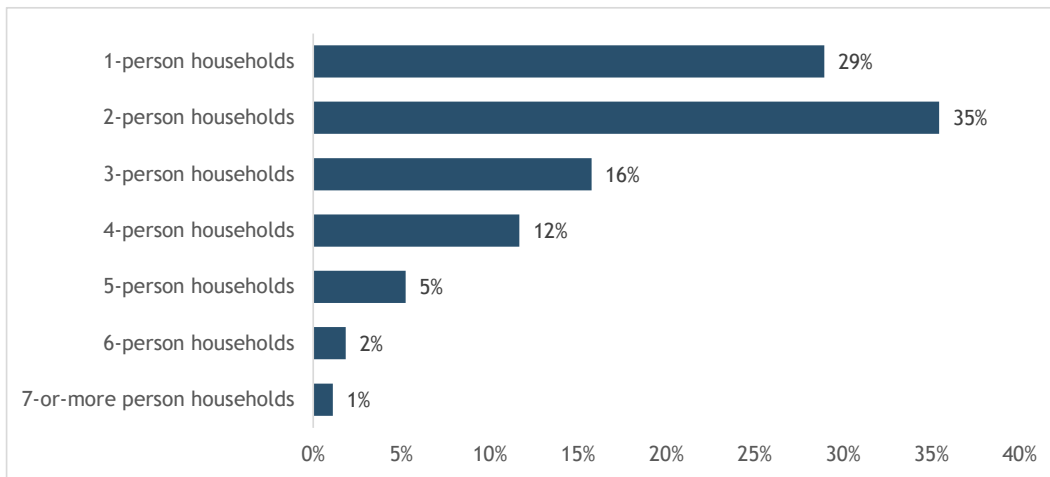
¹⁰³ McCue 2023.

¹⁰⁴ Anderson, Washington, Kreider, and Gryn 2023.

¹⁰⁵ Khater, Kiefer, and Atreya 2021.

¹⁰⁶ Cohn et al. 2022.

Figure 6. Households by Size in Tennessee



Source: Commission staff analysis of US Census Bureau 2023b, ACS 2022 5-year data.

While in an ideal scenario the homes left by older generations could be recycled into the housing supply, many appear to be in areas with little growth or demand.

But as the size and structure of households may have been growing more variable, the size of houses themselves is not, with a trend since 1980 of fewer one- and two-bedroom homes, and instead a rising number of four-bedroom homes.¹⁰⁷ An estimated 59% of homes today, or 44 million, have at least one spare bedroom,¹⁰⁸ even as one-bedroom units—especially in large cities with some of the most severe housing affordability problems—are facing overcrowding.¹⁰⁹

Meanwhile, older adults (or those born before 1964) own about 46 million homes in the US, and, as they begin to vacate those homes in the coming years, demographers have questioned what might result in the housing market.¹¹⁰ One industry analysis has suggested 27.4% of current owner-occupied homes could re-enter the market in the next 20 years, with Knoxville in particular cited as one city that could see a high rate of vacancies.¹¹¹ While in an ideal scenario the homes left by older generations could be recycled into the housing supply, the data is not promising: many of the homes owned by seniors appear to be in areas with little growth or demand, or again may be larger than what many households need, which means that many older individuals could even face having to sell their homes for less than they may have been counting on.¹¹² This also applies to Tennessee.¹¹³ As described by one pair of researchers, “All this means that while young people battle over the few available homes that suit their needs and preferences, older adults will be unable to sell their homes to the

¹⁰⁷ Loh and Farrar 2020.

¹⁰⁸ Arroyo and Burns 2018.

¹⁰⁹ Loh and Farrar 2020.

¹¹⁰ Myers and Simmons 2018.

¹¹¹ Romem 2019.

¹¹² Nelson 2020.

¹¹³ Interview with Arthur C. Nelson, professor emeritus of urban planning and real estate development, University of Arizona, October 17, 2023.

emerging generation of would-be homeowners.”¹¹⁴ In order for housing supply to effectively boost affordability, it has to be appropriately located and built to meet the actual demand of diverse households.

Increasing the supply of housing at different price levels can improve affordability for all.

If fostering greater housing supply is one of the best ways to address affordability problems, then one question that often follows is: supply of what kind of housing, at what price points? Given that affordability is, logically, more strained for those at lower-income levels, it may be natural to assume that the best course of action is to develop and subsidize affordable housing—that is, affordable in the technical sense of being priced within reach of those making some fraction of the area median income (AMI), typically somewhere between 30% and 80% of AMI. That is not always easy to do, though, as it may require subsidies that are in limited supply. An alternative view is that the goal should be to increase the supply of housing in general, even if it is “market-rate.”¹¹⁵ Research in the last several years has focused on this question, with reviews of dozens of studies indicating that increasing the supply of market-rate housing at the very least can stop home prices from rising further and worsening affordability, though it may not necessarily always be enough on its own to bring prices back down.¹¹⁶ A dual approach of supporting both subsidized housing and market-rate housing at the same time, rather than either alone, may therefore be most effective.

As one housing specialist described it, housing markets without enough supply can behave like a game of musical chairs: those homebuyers with the most means will quickly grab what’s available, while some others, by necessity, wind up with no place to go.¹¹⁷ Or to put it another way, when there is not enough housing supply, those with higher incomes will buy up homes that otherwise might go to those making medium incomes, who will then in turn take the homes that might instead go to those on lower incomes, creating a ripple effect that pushes would-be homebuyers down the housing market and then out of it altogether. On the other hand, when there are enough homes at varying price points on the market, those with more wealth may turn to higher-priced housing, freeing more affordable housing for those who truly need it.¹¹⁸ Tellingly, a Commission staff analysis of 20 Tennessee counties for which complete data were available from 2011 to 2022 found that a 1% increase in per capita income was associated with a 1.3% increase in median home sale prices—which is to be expected, as those with more financial means begin to outbid others.

Increasing the supply of market-rate housing can stop home prices from rising further and worsening affordability, but it may not be enough to bring prices back down.

¹¹⁴ Loh and Farrar 2020.

¹¹⁵ See, for example, Phillips, Manville, and Lens 2021.

¹¹⁶ Been, Gould Ellen, and O’Regan 2019; and Phillips, Manville, and Lens 2021.

¹¹⁷ Interview with Ed Pinto, co-director, AEI Housing Center, September 18, 2023.

¹¹⁸ Ibid.

Land costs have been an issue in Tennessee.

A land bank is a legal entity established by a government to acquire real estate property that may be vacant or tax-foreclosed and rehabilitate it for productive use.

A comparison of 2021 and 2022 to the previous decade indicates that the effect may be strengthening. In contrast, increasing housing supply at a faster rate than population growth was associated with lower home sale prices, all else being equal, with a 1% increase in housing units per capita associated with a 0.4% decrease in median home sale prices.¹¹⁹

Communities must make the most of their land supply.

Yet as Tennessee's population has grown, and especially in certain counties, several stakeholders who spoke with Commission staff made note of an old adage: you can't make new land. Land acquisition costs are a basic component of housing costs, making up perhaps 55% of the cost of a median-priced home nationally,¹²⁰ and they have grown at a faster rate than home prices in general.¹²¹ Stakeholders agree that land costs have been an issue in Tennessee, particularly in some places where land available for housing is all the more constrained because of the local topography.¹²² How communities make use of the land that they do have, therefore, is crucial, but there are a few tools that can help to make more land available for housing or secure existing housing stock.

Land Banks

Parcels of land may sometimes be left vacant, abandoned, tax delinquent, and, eventually, blighted. That can be problematic for communities and local governments for a variety of reasons, but it can also subtract from the amount of available land for housing. One established means for dealing with this type of problem is a land bank, a legal entity established by a government to acquire real estate property that may be vacant or tax-foreclosed and rehabilitate it for productive use. As the Commission found previously in its 2012 report *Dealing with Blight: Strategies for Tennessee's Communities*, "Land bank corporations can be used as a legal and financial mechanism to return vacant, abandoned, and tax-foreclosed properties to productive use through rehabilitation, demolition, or redevelopment."¹²³

¹¹⁹ As described in a memo to the Commission at the November 15, 2023, meeting, preliminary Commission staff analysis of county-level data shows a 4% greater population growth rate from 2010 to 2020 was associated with a 1% lower housing availability rate (that is, the percentage of housing units in a county that are vacant, excluding those that are sold or rented but unoccupied for whatever reason). The correlation between population growth over that timeframe and the availability rate is -65%, meaning the higher the population growth, the lower the availability. Two variables reflecting land use regulation—whether a county has an impact fee and the percentage of the population of a county that lives where there is zoning—are also negatively correlated with the availability rate at -55% and -46%, respectively. The availability rate itself is negatively correlated with measures of housing price and housing affordability, meaning higher availability is associated with lower prices.

¹²⁰ Parrott and Zandi 2021.

¹²¹ Davis and Heathcote 2006.

¹²² Interviews with Hunter McDonald, Chris Wilson, Candy Joyce, and Ryan Folz of Middle Tennessee Association of Realtors, July 7, 2023; Jeremy Heidt, director of government affairs, and Dhathri Chunduru, director of research and planning, Tennessee Housing Development Agency, July 10, 2023; Jens Christensen, CEO, Habitat for Humanity of Greater Chattanooga, August 7, 2023; and Jackie Mayo, president and CEO, HomeSource East Tennessee, September 12, 2023.

¹²³ Tennessee Advisory Commission on Intergovernmental Relations 2012.

This means that land banks can also be a tool for promoting affordable housing development in Tennessee,¹²⁴ particularly for those communities facing an excess of aging properties in disrepair. Land banks in some other states operate with a special focus on affordable housing, such as by partnering with nonprofits, as the Metro Atlanta Land Bank does,¹²⁵ or even producing affordable housing themselves on land they acquire, such as with the Cuyahoga County, Ohio, land bank.¹²⁶

However, current state law permits only a select few local governments to establish land banks.¹²⁷ Tennessee's Local Land Bank Program was initially launched as a pilot program in 2012 that was limited to the city of Oak Ridge.¹²⁸ The General Assembly subsequently passed legislation extending the authority to establish a land bank to a few other cities and counties.¹²⁹ See table 3.

Current state law permits only a select few local governments to establish land banks.

Table 3. Local Governments in Tennessee Authorized to Establish Land Banks

Legislative Designation	Geographic Equivalent
Any home rule municipality	Chattanooga Clinton East Ridge Etowah Johnson City Knoxville Lenoir City Memphis Mt. Juliet Oak Ridge Red Bank Sevierville Sweetwater Whitwell
Specifically designated municipalities	Kingsport Cleveland Germantown Columbia
Any county having a metropolitan form of government	Hartsville-Trousdale County Lynchburg-Moore County Nashville-Davidson County
Specifically designated counties	Blount County Hardeman County Sevier County

Source: Commission staff analysis of Tennessee Code Annotated 13-30-101 et seq.

¹²⁴ Tennessee Comptroller of the Treasury 2019.

¹²⁵ Metro Atlanta Land Bank 2023.

¹²⁶ Cuyahoga Land Bank.

¹²⁷ Mansa 2016; and Tennessee Code Annotated, Sections 13-30-101 et seq.

¹²⁸ Tennessee Advisory Commission on Intergovernmental Relations 2019.

¹²⁹ Tennessee Code Annotated, Section 13-30-103.

Government-owned land may be put up for sale to private buyers, such as for-profit or nonprofit housing developers.

Tennessee now has four land banks established through this statute, with the most recent addition being the city of Cleveland in late 2023. The cities of Oak Ridge, Chattanooga, and Memphis have also established land banks under this legislation. Shelby County has an entity called a land bank, although it was established earlier under a separate statute,¹³⁰ has much more limited powers over the land it acquires (such as not being able to quiet title—that is, resolving any third-party claims on the property), and so “does not fit the traditional definition of a land bank.”¹³¹

Seventeen states, including Tennessee, have enacted land bank legislation, but most of these states allow any local government to create a land bank, while Tennessee does not.¹³² Among the other states with restrictions, Missouri limits the power to municipalities located “wholly or partially within a county in which a land trust [was previously] created,”¹³³ and Pennsylvania limits the power to “a county, a city, a borough, a township and an incorporated town with a population of more than 10,000, or two or more municipalities with populations less than 10,000 that enter into an intergovernmental cooperation agreement.”¹³⁴ Recently, a law passed in Michigan that expanded the authority to create land banks from only the counties and city of Detroit to include any city with a population of more than 50,000.¹³⁵ As the Commission has recommended before, the state could extend that authority to all local governments.¹³⁶ One bill in 2024, Senate Bill 2239 by Senator Yarbrow and House Bill 2439 by Representative Sparks, would have done this, but was taken off notice.

Rather than waiting for land to become blighted, however, the state and local governments can also take a more proactive approach and conduct inventories of what land they currently possess themselves and whether there might be an opportunity for using it for housing. As explained in the 2019 Commission report *Improving Management of Government-Owned Real Property in Tennessee*, on occasion, parcels of government-owned land may no longer be needed for government use, at which point they may be put up for sale to private buyers, such as for-profit or nonprofit housing developers. As the Commission has found previously, the state and some local governments do publish information on such surplus land, although it is not aggregated in a single source.¹³⁷ Assembling listings of surplus government-owned land, such as by allowing local governments to have links to their surplus property to the website for the Tennessee Department of General Services, could help developers find additional land for housing.

¹³⁰ Tennessee Code Annotated, Section 67-5-2507.

¹³¹ Shah 2016.

¹³² Center for Community Progress 2024.

¹³³ Missouri Revised Statutes 141.980.

¹³⁴ Pennsylvania Consolidated Statutes Annotated 68-2103.

¹³⁵ Begay 2023; and Michigan Compiled Laws 124.753 and 124.773(4), (5).

¹³⁶ Tennessee Advisory Commission on Intergovernmental Relations 2012; and Tennessee Advisory Commission on Intergovernmental Relations 2019.

¹³⁷ Tennessee Advisory Commission on Intergovernmental Relations 2019.

Senate Bill 2239 and House Bill 2439 would have enacted something to this effect as well, authorizing local governments to post links on their own websites to state publications advertising surplus real property.

Surplus and Underutilized Real Property

Additionally, as the Commission also found in the aforementioned 2019 report, governments can find ways to make more of the surplus and underutilized land in their possession available for reuse, but this requires more detailed information on what land is available. Several stakeholders expressed an interest in conducting inventories of government-owned property or exploring public-private partnerships for housing.¹³⁸ Local governments in some other states have also begun to look not only at disused government-owned land, but land that is underused. Atlanta, for example, has started a program to assess municipal land to see where it could be redeveloped, maintaining its government use while adding housing on top of it—in some cases quite literally, as with a plan to rebuild a fire station while adding 30 stories of apartments above it.¹³⁹ A related plan will remake the city’s civic center into mixed-use development, including 1,300 housing units, more than a third of which will be affordable housing.¹⁴⁰

Meanwhile, with the continuing realignment around remote work and the office vacancy rate having reached a record high of 19.6% at the end of last year¹⁴¹—and even hovering around 50% in some larger cities¹⁴²—there have been growing calls to convert office buildings into residences. Making the necessary structural changes to create homes out of offices is not easy or even necessarily financially viable in all cases,¹⁴³ but at least some fraction of office space may be suitable. How much, exactly, is unclear; estimates range from just 1.1% of all office space—assuming strict criteria for vacancy, location, and feasibility of conversion based on the building’s structure and age—to 15% under looser criteria.¹⁴⁴ Under the more generous estimates, perhaps 400,000 apartment units could be developed nationally. Some cities have launched initiatives for such conversions, including New York and Boston, which are using zoning changes and property tax incentives, respectively.¹⁴⁵ The same concept might be extended to other commercial property as well, though; one study has estimated that if 10% of the strip

Governments in other states have redeveloped their land to add housing.

Some offices may be suitable to convert to housing.

¹³⁸ Interviews with Heidi Campbell, senator, Tennessee District 20, July 18, 2023; Joe Carr, mayor, and Will Denami, executive director, Tennessee Association of Assessing Officers, October 5, 2023; and Michael Hendrix, policy director, Office of the Governor of Tennessee, December 14, 2023.

¹³⁹ Smith 2023.

¹⁴⁰ Kavanagh, McAdams, and Carr 2022.

¹⁴¹ LaSalvia, Chen, and Luettker 2024.

¹⁴² Kastle 2023.

¹⁴³ Brey 2023.

¹⁴⁴ Tong and Schoenmaker 2023; and Gupta, Martinez, and Nieuwerburg 2023.

¹⁴⁵ New York City Office of the Mayor 2023; and Boston Planning and Development Agency 2023.

Communities can benefit from the preservation of existing affordable housing.

malls in the country were converted to multifamily housing, they could yield up to 700,000 additional units.¹⁴⁶

Relatedly, there have been projects to convert defunct hotels and similar properties, particularly to house those who are homeless. King County, Washington, is also seeking to convert disused hotel properties into 1,600 housing units, funded by a 0.1% sales tax.¹⁴⁷ All of these strategies may be gaining steam, as in late 2023 the federal government announced that office and commercial property conversions to housing would be part of a larger effort to bolster housing supply, with both HUD and the US Department of Transportation supporting residential development transit centers—or what is called transit-oriented development—and in underutilized commercial areas through some of their funding programs, such as Community Development Block Grants.¹⁴⁸

Preservation of Existing Affordable Housing

In addition to subsidizing the construction of new affordable housing, communities can also benefit from the preservation of existing affordable housing. For example, in Charlotte, North Carolina, the preservation of existing housing units is one of the uses of the city’s housing trust fund, which provides funding to developers to subsidize the cost of acquiring existing multifamily housing when it becomes available on the open market, rehabilitating it, and then lowering rents and ensuring that the housing remains affordable for at least 20 years.¹⁴⁹ The city periodically issues general obligation bonds—as approved in a public referendum—with the most recent being for \$50 million. A portion of that money is made into a low-interest loan to a developer who then combines the loan with funding from private investors to purchase existing multifamily housing that becomes available for sale. This housing, as staff of the city’s housing fund describe it, may typically require some modest renovation but is otherwise in good condition and already has relatively affordable rents, making it “naturally occurring affordable housing” (NOAH). The loans from the city come with conditions that the housing be kept affordable for the lifetime of the loan; however, the loans are also structured so that the developer need only make payments on the interest, while none of the principal has to be paid back for 20 years. The developer can then keep or even lower the rents on the housing units once they have been renovated, making them affordable to people at lower income levels. In the two most recent property acquisitions, the city’s loan amounts were up to \$30,000 per unit of housing acquired.¹⁵⁰

¹⁴⁶ Abu-Khalaf 2023.

¹⁴⁷ King County Department of Community and Human Services 2024.

¹⁴⁸ US Office of the White House 2023.

¹⁴⁹ Interview with Warren Wooten, assistant director, and Michael Engleheart, fund manager, Housing Trust Fund, City of Charlotte, North Carolina, March 4, 2024.

¹⁵⁰ Ibid.

Staff of the city’s housing trust fund also cited some advantages to this approach. Presenting the funding in the form of a loan is key; when naturally occurring affordable housing comes up for sale, developers must move quickly to bid on it, and loans can be arranged faster than tax credits or grant applications. Also, as a loan rather than a grant, it becomes a city asset, and the city is able to continuously monitor the development project and better ensure that its affordability requirements are met over the long term.¹⁵¹

Because Charlotte’s housing trust fund relies on general obligation bonds,¹⁵² local governments in Tennessee cannot currently copy its exact funding structure. Cities and counties in Tennessee are generally limited in their authority to provide direct funding to private enterprises—including those developing affordable housing—under the Tennessee State Constitution and state law. As the Commission observed in its 2021 report on broadband deployment, availability, and adoption, Article II, Section 29 of the Tennessee Constitution states that

the credit of no County, City or Town shall be given or loaned to or in aid of any person, company, association or corporation, except upon an election to be first held by the qualified voters of such county, city or town, and the assent of three-fourths of the votes cast at said election. Nor shall any county, city or town become a stockholder with others in any company, association or corporation except upon a like election, and the assent of a like majority.

As a result of these provisions, according to the Tennessee Court of Appeals in 2001,

political subdivisions were not absolutely forbidden to use their credit in aid of private enterprises, *but the three-fourths vote required for this action was a powerful limitation*.¹⁵³ (emphasis added)

The state could potentially resolve this issue by authorizing local governments to make multiyear funding commitments to affordable housing projects either through existing entities, such as industrial development boards (IDB), or by establishing a new entity similar to sports authorities. As the Commission wrote in 2021,¹⁵⁴

Cities and counties in Tennessee are generally limited in their authority to provide direct funding to private enterprises.

¹⁵¹ Interview with Warren Wooten, assistant director, and Michael Engleheart, fund manager, Housing Trust Fund, City of Charlotte, North Carolina, March 4, 2024.

¹⁵² Ibid.

¹⁵³ Ragsdale v. City of Memphis, 70 S.W.3d 56 (Court of Appeals of Tennessee at Memphis 2001).

¹⁵⁴ Tennessee Advisory Commission on Intergovernmental Relations 2021.

It is not uncommon to include performance criteria or clawbacks in contracts for projects receiving incentives.

IDBs are already authorized to participate in and provide funding for other types of projects,¹⁵⁵ and local governments with central business improvement districts are authorized to make multiyear pledges of local revenues—except property tax revenue—to IDB projects that “consist of public infrastructure, public improvements or other public facilities” located in areas designated by a resolution or ordinance as center city areas.¹⁵⁶ Similar local authority to make multiyear pledges of revenues other than property taxes for specific types of projects also exists under statutes authorizing the creation of sports authorities and convention center authorities.¹⁵⁷

However, the Commission in 2021 also observed that authorizing local governments to make multiyear pledges of local revenue carries risks to taxpayers.¹⁵⁸ In its 2018 report on IDBs and payment in lieu of tax (PILOT) agreements, the Commission found it is not uncommon for IDBs in Tennessee to include performance criteria or clawbacks in contracts for projects receiving incentives such as PILOT agreements—which allow businesses to reduce or eliminate the amount they would otherwise owe in property taxes. But the inclusion of performance criteria or clawbacks is not required by law. As the Commission wrote in 2018,

PILOT agreements usually include goals that businesses are expected to meet, such as creating a certain number of jobs or making a certain capital investment amount. . . . To hold the businesses accountable, a clawback provision or a list of performance criteria is often included in the agreements. A clawback provision requires the business to repay the amount of the taxes that were abated if they fail to reach the goals in the agreement or possibly pay a financial penalty in addition to the amount of taxes that were abated. With performance criteria, if the business fails to reach its goals, the time period for the PILOT may be reduced or the PILOT may be eliminated entirely. In Tennessee, businesses seem to prefer performance criteria. It has been estimated that 80% of PILOT agreements have these performance criteria or clawbacks in them, and 80% of these provisions are enforced. Clawbacks and

¹⁵⁵ Tennessee Code Annotated, Section 7-53-101 et seq.

¹⁵⁶ Tennessee Code Annotated, Section 7-53-315; and email from Tracy Johnson, Raymond James, November 5, 2020.

¹⁵⁷ Tennessee Code Annotated, Sections 7-67-116 and 7-89-115; telephone interview with Jeff Oldham, attorney, Bass, Berry and Sims, Richard Dulaney, managing director, Public Finance, Debt Investment Banking, Raymond James, Mark Smith, attorney, Miller and Martin, Brent Greer, mayor, Henry County, and Terry Wimberley, general manager, Paris Utility Authority, October 22, 2020; and email from Tracy Johnson, Raymond James, November 5, 2020.

¹⁵⁸ Tennessee Advisory Commission on Intergovernmental Relations 2021.

performance criteria are not required by law to be a part of the PILOT agreements. Several reports including the 2008 Commission report *Getting It Right: The Effect on the Property Tax Base of Economic Development Agreements and Property Tax Incentives for Businesses* recommend using clawbacks to hold the businesses accountable and protect taxpayers in case the business fails to meet the objectives set forth in the agreement.¹⁵⁹

Public Chapter 1012, Acts of 2024, enables cities and counties to fund IDBs for multifamily affordable housing with revenues derived from any source other than ad valorem property taxes. While existing law permits local governments to make appropriations for housing, this bill goes further by allowing local governments to pledge revenues for housing, such as through a bond, and, through IDBs, leverage the investment of private enterprises. The bill as enacted also requires that local governments submit plans for projects to the Comptroller for approval, and the amount of debt that they could pledge for such projects, as a percentage of their total outstanding debt, would be limited to a ratio set by the Comptroller.

Zoning and land use planning can either curtail or promote housing supply, and with it, affordability.

In simple terms, zoning is designating how a given parcel of land can be legally used. When land is zoned as residential, for instance, it typically permits only housing to be built there and excludes the possibility of any shops or businesses. It can also designate what kind of housing can be built, how much of the lot it can take up, how far it must be set back from the street, and even what the façade must look like. In the United States, zoning has traditionally been a power exercised at the local level, and as such, there is no one uniform set of zoning codes: different cities and counties may create and tailor their own zoning classifications, which can have multiple subcategories with many detailed distinctions between them.

Zoning is an important part of a local government's powers to protect public health, safety, and welfare, as has been affirmed by the US Supreme Court in the past.¹⁶⁰ It allows a community to ensure, for example, a safe distance between dangerous or noxious activities and land uses—like waste sites, chemical plants, or sewage treatment—and where people live. Zoning also allows local governments to create standards for the size, placement, and aesthetics of buildings, regulating, for example, a minimum size for lots or what percentage of a lot a building can occupy. Yet a wealth of research has found that some common types of zoning

In the United States, zoning has traditionally been a power exercised at the local level, and as such, there is no one uniform set of zoning codes.

¹⁵⁹ Tennessee Advisory Commission on Intergovernmental Relations 2018.

¹⁶⁰ Village of Euclid v. Ambler Realty Co. 272 US 365 (1926).

Research has found that some types of zoning can constrict housing development and may exacerbate housing affordability problems.

can also constrict housing development and may have been exacerbating housing affordability problems for years.¹⁶¹

Although zoning regulations can vary from place to place, there are certain patterns that have prevailed since at least the mid-20th century, and today in most Tennessee cities and counties, zoning has placed residential areas completely apart from areas with shops and workplaces. This form of residential zoning then usually restricts each parcel of land to a single house built for a single family—or more simply, what is referred to as single-family zoning. Zoning can effectively dictate the maximum population that a city can accommodate, creating what is sometimes referred to as a zoning capacity. In Los Angeles, for example, the zoning that was in place in 1960 would have allowed the city proper to have enough housing for a maximum population of roughly 10 million.¹⁶² Following a wave of changes to predominantly single-family zoning over the next two decades, though, the city’s zoning capacity plummeted to just four million people. Since then, Los Angeles’s population has been constantly pressing up against that ceiling of four million, while simultaneously the city’s home prices have skyrocketed; indeed, a lack of zoning capacity has been cited as a factor driving elevated home prices statewide in California.¹⁶³

Moreover, research that has emerged in the past several years has reexamined the housing market bubble before the Great Recession and found that zoning restrictions may have been at the root of the problem. While early analysis of the housing market attributed much of the rise in home prices to questionable lending practices that spurred some homebuyers to buy more than they could afford and created an overheated market,¹⁶⁴ later studies have reevaluated this: “There is no indication within any income group of systematic overleverage during the [housing] boom.”¹⁶⁵ In fact, defaults during the boom appear to have been more common among more well-off households, who may have defaulted strategically.¹⁶⁶ And while there certainly were widespread issues with some mortgage loans being made, further research has suggested that the housing boom may have begun at different times in different cities, even as early as the mid-1990s, driven by both rising incomes and housing supplies held in check by zoning restrictions.¹⁶⁷ One researcher has made an extensive case that some of the cities that have been the most attractive destinations to move to in the past, like New York, Boston, and Los Angeles, are also those with some of the most stringent zoning and inelastic housing supplies, and by

¹⁶¹ Mayer and Somerville 2000; Quigley and Rosenthal 2005; Saks 2005; Knaap et al. 2007; Ikeda and Washington 2015; Molloy 2017; Been, Gould Ellen, and O’Regan 2019; Gyourko, Hartley, and Krimmel 2019; Joint Center for Housing Studies of Harvard University 2023; and Gray 2022.

¹⁶² Morrow 2013.

¹⁶³ Monkkonen, Lens, and Manville 2020.

¹⁶⁴ Mian and Sufi 2008.

¹⁶⁵ Erdmann 2021; see also Foote, Loewenstein, and Willen 2016.

¹⁶⁶ Amromin et al. 2011.

¹⁶⁷ Ferreira and Gyourko 2011.

the 1990s, this contradiction—more people trying to live in places where the housing supply would barely budge to meet demand—was leading to escalating home prices in those cities: “When migrants are drawn in, home prices must rise to a level that forces a similar number back out. . . . Price is simply the means of rationing” a limited supply of housing.¹⁶⁸

As this played out over several years, people began to leave those cities for more affordable ones elsewhere, thereby adding pressure to the local housing demand and creating a cascading effect of rising demand that eventually spread to most of the country.

It may seem unsurprising, but as one study found, the greater the zoning capacity in a jurisdiction, the more housing development it saw.¹⁶⁹ And yet, as measured by one widely-used index of land use regulation, cities around the country appear to have been growing more restrictive in their zoning over time.¹⁷⁰ And greater regulation in one community appears to have spillover effects that can raise home prices in neighboring communities.¹⁷¹

Measuring the exact effects of zoning on housing costs in Tennessee is difficult, though. While 40 of the 95 counties and 271 of 343 cities had zoning as of 2020 (and all cities and counties are authorized to have zoning),¹⁷² what matters are the actual detailed provisions of the zoning that are used: how much land is zoned for a given housing density and subject to what limiting conditions. And currently, there is no comprehensive source of information for how communities around the state are zoned. A national project based at Cornell University—the National Zoning Atlas—is underway to change that.¹⁷³ The Tennessee affiliate of the project has begun mapping the zoning around Tennessee, and though it has only published maps for six of the 95 counties so far, the initial results show that, even in fast-growing, high-demand counties in Middle Tennessee, the great majority of residential land is zoned for only single-family homes. On 94% of the land in the six counties studied (Davidson, Maury, Rutherford, Sumner, Wilson, and Williamson), triplexes and larger multifamily housing are not allowed.¹⁷⁴ Even in Davidson County, 82.4% of the land as zoned only allows for single-family homes. However, even when just distinguishing between Tennessee counties with zoning and those without, the presence of zoning regulations was still associated with

Some research shows cities around the country appear to have been growing more restrictive in their zoning over time.

¹⁶⁸ Erdmann 2021.

¹⁶⁹ Knaap et al. 2007.

¹⁷⁰ Gyourko, Hartley, and Krimmel 2019.

¹⁷¹ Pollakowski and Wachter 1990.

¹⁷² Skehan 2020.

¹⁷³ National Zoning Atlas 2024.

¹⁷⁴ Beacon Center 2023.

If conventional zoning practices suppress housing development, then one avenue is simply to reform local zoning so that more housing can be built.

a lower rate of available housing.¹⁷⁵ See appendix G for a breakdown of each county's housing stock by type.

Zoning for More Housing

If conventional zoning practices suppress housing development, then one avenue to increasing housing supply—and thus abating higher costs—is simply to reform local zoning and land use practices so that more housing can be built. This includes a wide swath of possible changes that can be loosely grouped under the rubric of “upzoning,” or modifying zoning to allow for greater housing density. This can sometimes mean rezoning areas of a community piecemeal, or, as some states and cities have increasingly done, adopting comprehensive measures that apply throughout a community to increase density.

Zoning for housing density can be effective at increasing housing supply and moderating housing costs, depending on how it is implemented and the starting conditions in a given community.¹⁷⁶ One major review of 21 types of upzoning changes in 1,136 US cities found they collectively achieved only a modest boost in housing supply and did not necessarily lead to lower home prices—though many of these upzoning changes were implemented more on a piecemeal or localized basis. At the same time, “downzoning,” or zoning in a way that reduces housing density, was decidedly linked to increased housing costs.¹⁷⁷ It is also possible that zoning for greater density will only be effective if there is already demand for more housing; elsewhere, it might be expected to make no difference.¹⁷⁸ More comprehensive upzoning may be more effective, as four cities that adopted citywide upzoning measures (Minneapolis, MN; New Rochelle, NY; Portland, OR; and Tysons, VA) saw rent growth from 2017 to 2023 of just 1% to 7% versus an average of 31% nationally, even as their number of households grew faster than the national average.¹⁷⁹ Minneapolis has perhaps made the most headlines, having adopted an upzoning plan in 2018 called Minneapolis 2040 that largely put an end to single-family zoning and opened up most of the city to duplexes and similar types of housing.¹⁸⁰ That plan was recently stymied by a lawsuit brought by some local residents,¹⁸¹ who argued that the plan had not undergone a state-required environmental review process. But while the program was in effect, it may have been successful at increasing the housing supply, and,

¹⁷⁵ Based on Commission staff analysis of state and county data, housing availability and the existence of zoning regulations yielded a correlation of -0.46. Housing availability was defined here as housing units that were counted as vacant in the US Census's American Community Survey 5-year estimates using 2021 data, but excluding those that would not be available for sale or rent, such as vacation homes.

¹⁷⁶ Freemark 2023.

¹⁷⁷ Stacy et al. 2023.

¹⁷⁸ Interview with Yonah Freemark, senior research associate, Urban Institute, August 16, 2023.

¹⁷⁹ Horowitz and Canavan 2023a; Horowitz and Canavan 2023b.

¹⁸⁰ Minneapolis 2040 Plan.

¹⁸¹ Du 2023.

to the extent that it tamed housing cost growth, some have even credited it with helping to rein in local inflation.¹⁸²

But while keeping in mind that upzoning is not a silver bullet, and different versions of it may be more or less effective depending on local conditions, it is still an option that has been endorsed by a range of experts, including the American Planning Association,¹⁸³ and a number of stakeholders have recognized zoning reforms as a possible means of improving housing supply.¹⁸⁴ There is potential for upzoning in Tennessee. While there has been an uptick in multifamily housing construction in Tennessee in recent years, the state's housing stock still skews more towards single-family detached homes than the average for the country: 68.6% of Tennessee households live in detached single-family housing (7.2 percentage points more than the national average) but only 5.4% live in multifamily housing consisting of 20 housing units or more (versus 9.9% nationally).¹⁸⁵

While apartment buildings might offer the most housing units for a given amount of land, some communities may be reluctant to accept sharp increases in density. But there are other ways to zone for more housing that do not necessarily have to extend all the way to allowing high-rise apartment buildings in every community. As many housing advocates have pointed out, most residential construction in the US either takes the form of single-family homes or, less often, large apartment complexes, representing both low- and high-density housing. But there is a plethora of other housing options in between these two that are not often allowed under most current zoning codes, such as duplexes, triplexes, quadplexes, townhouses, and cottage courts.¹⁸⁶ These other housing forms—neither the low density of single-family homes on large lots nor the high density of apartment tower blocks—are thus referred to by many as “missing middle” housing (see figure 7). Related to these are what are called accessory dwelling units (ADUs), or smaller, subsidiary homes that sit alongside a more conventional single-family house, as well as tiny houses, which are often defined as homes built at about 400 square feet or less.¹⁸⁷ But whatever the exact form, housing types beyond conventional, detached, single-family homes have the potential to increase availability.

Most residential construction in the US either takes the form of single-family homes or, less often, large apartment complexes.

¹⁸² Niquette and Saraiva 2023.

¹⁸³ Brooks et al. 2019.

¹⁸⁴ Interviews with Dan Reuter, executive director, Chattanooga-Hamilton County Regional Planning Agency, August 4, 2023; Jason Edmonds, policy analyst, Beacon Center, August 17, 2023; John Zeanah, director, Memphis and Shelby County Division of Planning and Development, August 24, 2023; Hollie Berry, mayor, City of Red Bank, August 29, 2023; Scott Conger, mayor, Lauren Kirk, chief innovation officer, and Claire Pierson, community development coordinator, City of Jackson, August 31, 2023.

¹⁸⁵ US Census Bureau 2023b.

¹⁸⁶ Tennessee Code Annotated, Sections 66-27-101 et seq. currently provides for what are called horizontal property regimes, which are an off-the-shelf option for property owners in any type of housing with shared walls to manage both their separate, individual units and the parts of the property that they hold in joint ownership with their neighbors.

¹⁸⁷ Alterman 2022.

In Houston, Texas, for example, redevelopments from single-family lots to townhouses created 4.2 times as much floor area on the average parcel of land, and without compromising on the amount of floor space per home.¹⁸⁸

Figure 7. Examples of Missing Middle Housing Types



Source: Missing Middle Housing concept created by Daniel Parolek. Image copyright Opticos Design, Inc. For more info visit www.missingmiddlehousing.com.

Missing middle housing was historically more common in much of the US, but is not often built today.

Although missing middle housing was historically more common in much of the US,¹⁸⁹ these other types of housing are not often built today, and in fact duplexes, triplexes, and quadplexes have made up only a tiny number of building permits issued in Tennessee since at least the start of the century (see figure 8), in part perhaps because they are largely prohibited by single-family zoning codes.

Missing middle housing is subject to various limiting factors under many zoning codes, including regulations around floor area ratios (the ratio of a building's floor area to its footprint on a lot), setbacks from the street, and other design standards, not to mention additional considerations in the subdivision process or ownership that do not apply with single-family homes.¹⁹⁰ Minneapolis's upzoning, in fact, may have achieved less than it could have because, even while it allowed missing middle housing to be built on any residential lot, other regulations that were made with single-family homes in mind were left in place.¹⁹¹ Many builders today may also no longer be familiar with the idiosyncrasies of constructing such homes or find them less profitable than larger developments, and they may come with building code requirements that can have benefits but do not apply to single-family homes like fire suppression sprinkler systems, which can help improve safety but also add to the costs of construction.¹⁹²

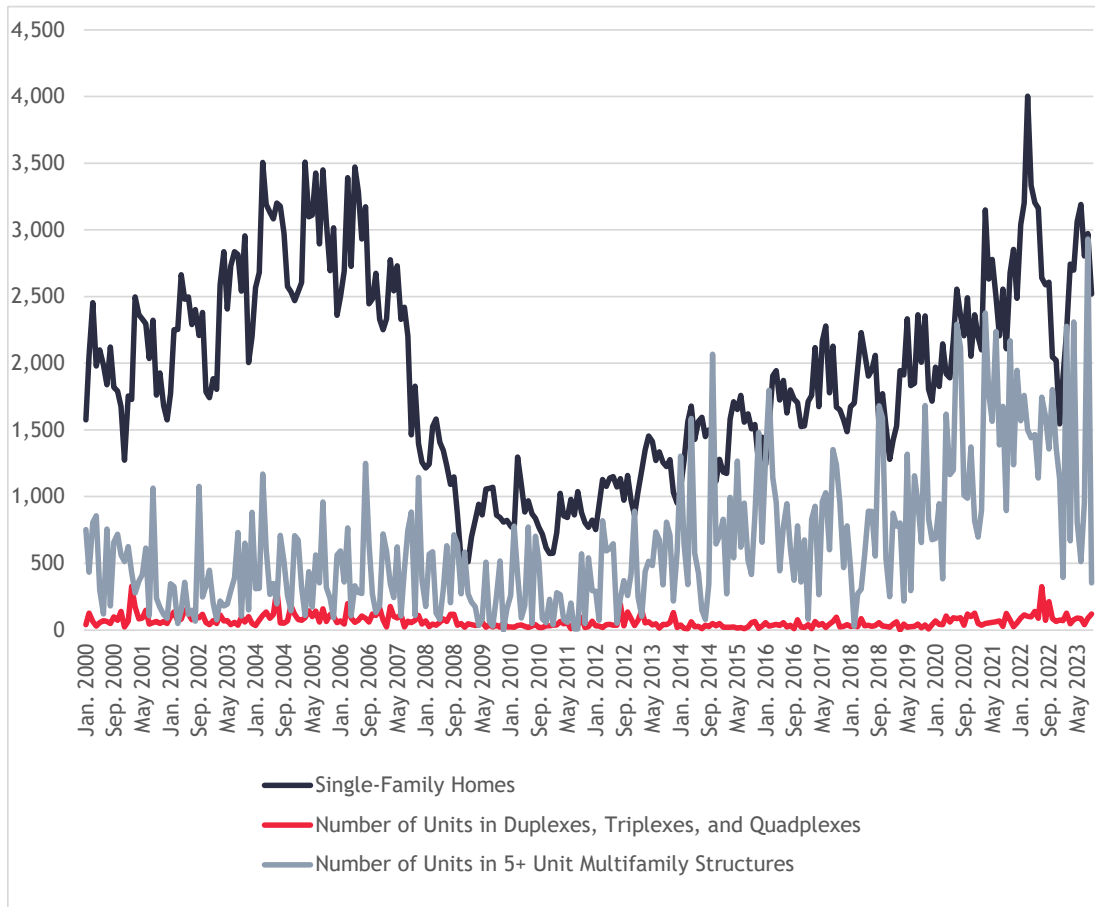
¹⁸⁸ Wegmann, Noman Baqai, and Conrad 2023.

¹⁸⁹ Garcia et al. 2022.

¹⁹⁰ Ibid.

¹⁹¹ Interview with John Zeanah, director, Memphis and Shelby County Division of Planning and Development, August 24, 2023.

¹⁹² Ibid.

Figure 8. Monthly Housing Building Permits Issued in Tennessee by Type, 2000 to 2023

Source: Commission staff analysis of US Census Bureau 2023c.

Tennessee has made some recent changes to building codes that may address some of these issues. The Metropolitan Government of Nashville and Davidson County government has negotiated code changes with the State Fire Marshal's office that would allow some multiplex housing to use residential rather than commercial-grade sprinkler systems, which can reduce the cost substantially,¹⁹³ while a 2024 piece of legislation, Public Chapter 946, created an exemption in the State Fire Marshal's codes such that local governments can, at their choosing, allow triplexes and quadplexes to forgo sprinkler systems, provided they meet certain other fire safety requirements.¹⁹⁴ Public Chapter 820, Acts of 2024, also permits multifamily residential buildings of up to six floors (and limited to four housing units per floor) to have a single stairwell exit, rather than the two stairwells currently required. There can also be barriers to financing some missing middle housing, as for ADUs at least, banks may not approve

¹⁹³ Interview with Quin Evans Segall, Metropolitan Government of Nashville and Davidson County council member at-large, February 13, 2024.

¹⁹⁴ Namely, the buildings must be no more than 5,000 square feet, under three stories, and have at least two-hour fire-resistant walls.

Other states and local governments have begun to make space for missing middle housing.

traditional mortgages for them.¹⁹⁵ Despite these challenges, there are potential advantages to missing middle housing for affordability, as one study suggested that single-family homes are on the whole 2.7 times more expensive than a unit in a quadplex.¹⁹⁶

Other states and local governments have begun to make space for missing middle housing. Besides the aforementioned cities, Austin, Texas, recently authorized some types of missing middle homes throughout the city.¹⁹⁷ And more recently, the city of Knoxville has planned to address its housing needs in part through added missing middle housing.¹⁹⁸ At the state-level, California, Maine, Montana, Oregon, Vermont, and Washington have all passed laws to variously permit duplexes, ADUs, and other types of missing middle housing wherever single-family homes can be built,¹⁹⁹ although some of these states have conditioned the requirements on the size of local populations. For example, Oregon’s law requires only cities with populations of between 10,000 and 25,000 and not in the Portland region to allow duplexes, while larger cities and those in the orbit of Portland must go further to allow up to quadplexes and townhouses. Montana’s set of zoning reforms works differently from those in other states in that it is partly voluntary and local governments have some discretion over the degree of density in missing middle housing they might want to allow. In this way, communities can make incremental increases to their housing density. Additionally, in an effort to aid homebuilders and residents, some jurisdictions have also taken to releasing what are called pattern books, or collections of pre-approved housing plans and designs, which may include designs for missing middle housing.

There are also zoning reforms to help make housing available in more parts of a community and nearer to where it may be needed. These include

- zoning for more housing on main streets and transit corridors, as well as within a certain distance of workplaces, business districts, colleges, and other population centers;
- zoning for mixed-use development—that is, allowing housing to be built by right anywhere zoned for offices, retail, or commercial development; and
- authorizing faith institutions, universities, and healthcare facilities to build multifamily housing by right on their existing land.

¹⁹⁵ Interviews with Nicole Heyman, chief housing officer, Chattanooga, August 3, 2023; and Scott Conger, mayor, Lauren Kirk, chief innovation officer, and Claire Pierson, community development coordinator, City of Jackson, August 31, 2023.

¹⁹⁶ California Community Builders 2022.

¹⁹⁷ Fechter 2023.

¹⁹⁸ Sloan 2023.

¹⁹⁹ California Chapter 162, Acts of 2021; Maine Chapter 672, Acts of 2022; Montana Chapter 500, Acts of 2023; Oregon Chapter 639, Acts of 2019; Vermont Act No. 47 of 2023; and Washington House Bill 1110 and House Bill 1337 of 2023.

California in late 2023 passed legislation that enables religious and higher education institutions to build affordable housing on their lands.²⁰⁰ A Florida bill from 2023 requires counties to allow mixed-use and multifamily development anywhere zoned for commercial, industrial, or mixed use provided that at least 40% of the units included are rated as affordable.²⁰¹ Maryland established a transit-oriented development capital fund for grants and loans in 2023.²⁰² As of 2020, Massachusetts requires any community served by the Massachusetts Bay Transportation Authority to provide for at least one district that is zoned for multifamily housing by right within one-half mile of a transit station and with a minimum density of 15 housing units per acre.²⁰³ Similarly, in 2021, Utah allowed cities to establish transit-oriented developments around the state's FrontRunner train stations and, in return, receive a portion of the growth in the local sales tax revenues; the developments must plan for at least 50 housing units per acre, be mixed use, and make 10% of units affordable.²⁰⁴ And not least, Montana's list of zoning reform provisions includes allowing mixed use on any commercially-zoned land.²⁰⁵

Minimum Lot Sizes

Many zoning codes will specify minimum sizes for housing lots, whether a few thousand square feet or even several acres. There can be valid reasons for setting a minimum lot size, particularly in areas without sewer access where the lot must be large enough to accommodate a septic tank. But as lot size requirements directly determine housing density, they also effectively reduce the supply of land for housing: quite simply, the larger the lot size, the fewer homes there can be in an area. As a simple illustration, if every one of the estimated 333,753 housing units in Davidson County as of 2022 were required to be a single-family home on a one-acre lot,²⁰⁶ then the land needed would actually exceed the roughly 323,000 acres that make up the county.

Minimum lot size requirements appear to have become a more commonly used regulation over time,²⁰⁷ and may sometimes go beyond either what is strictly necessary or what homebuyers want, resulting in an inefficient use of land. A study of four suburban areas in Texas found that single-family home lots, when actually subdivided by homebuilders, tended to cluster just above the local minimum lot size for the given zone they were in—

As lot size requirements directly determine housing density, they also effectively reduce the supply of land for housing.

²⁰⁰ California Chapter 771, Acts of 2023.

²⁰¹ Florida Chapter 2023-17.

²⁰² Maryland Chapter 512, Acts of 2023.

²⁰³ Massachusetts Chapter 358, Acts of 2020.

²⁰⁴ Utah Senate Bill 217 of 2021.

²⁰⁵ Montana Chapter 500, Acts of 2023.

²⁰⁶ US Census Bureau 2023b.

²⁰⁷ Gyourko, Hartley, and Krimmel 2019.

According to stakeholders, a large minimum lot size adds greater land costs to the price of a home, limiting the potential for affordability.

in other words, implying that when given the opportunity, homebuilders and buyers may opt for smaller lots.²⁰⁸

According to stakeholders, a large minimum lot size adds greater land costs to the price of a home, limiting the potential for affordability,²⁰⁹ and leading for some to call for the reduction of minimum lot sizes wherever possible.²¹⁰ Reducing lot sizes has in some cases also helped with development in underutilized urban areas.²¹¹ As such, zoning reform efforts in other states like Montana have included reducing minimum lot sizes as one provision,²¹² and some local governments in Tennessee have already moved in that direction.²¹³

Parking Space Requirements

Numerous studies have attempted to tally the number of parking spaces both in individual cities and in the country as a whole, and while the number of spaces varies depending on the region and population density, the consistent finding has been a super-abundance of parking—cutting into the amount of space available for housing. For example, a study on cities of varying sizes found that parking spaces outnumbered households by wide margins—approximately 19 to 1 in Des Moines, Iowa, and even 27 to 1 in Jackson, Wyoming.²¹⁴ Depending on what type of parking is included, there may be as many as eight parking spaces per vehicle in the US,²¹⁵ with parking in urban areas estimated to consume 22% of the area in city centers on average.²¹⁶

And that parking can be expensive: as of 2023, an above-ground parking structure added \$29,000 per space to a development—and that is just in the construction cost and not including other costs, like land acquisition or environmental review.²¹⁷ A 2016 study estimated that, at the time, constructing garage parking for apartment complexes added an annual cost of \$1,700 for renting households on average, regardless of whether they owned a car.²¹⁸ And in one early study looking at the city of Oakland,

²⁰⁸ Gray and Furth 2019.

²⁰⁹ Interviews with Jason Edmonds, policy analyst, Beacon Center, August 17, 2023; Ralph Perrey, executive director, Tennessee Housing Development Agency, August 30, 2023; and Susan Minor, chief operating officer, Franklin Housing Authority, July 31, 2023.

²¹⁰ Interviews with Jason Edmonds, policy analyst, Beacon Center, August 17, 2023; and Bobby Eason, executive director, Foothills Community Development Corporation, September 12, 2023.

²¹¹ Interview with John Zeanah, director, Memphis and Shelby County Division of Planning and Development, August 24, 2023.

²¹² Montana Chapter 500, Acts of 2023.

²¹³ Interviews with John Zeanah, director, Memphis and Shelby County Division of Planning and Development, August 24, 2023; and Kay Senter, councilmember, Andrew Ellard, assistant city manager, Josh Cole, senior planner, and Lori Matthews, senior planner, City of Morristown, August 10, 2023.

²¹⁴ Scharnhorst 2018.

²¹⁵ Chester, Horvath, and Madanat 2021.

²¹⁶ Hoffman and Lefebvre 2023.

²¹⁷ WGI “Parking Structure Cost Outlook for 2023.”

²¹⁸ Gabbe and Pierce 2016.

California, parking requirements were connected to an 18% reduction in housing investment.²¹⁹ Parking requirements can also sometimes be out of step with the known and actual needs of residents.²²⁰ Some new housing developments elsewhere in the country have begun to experiment with excluding parking completely, instead adopting mixed-use design to bring amenities into easy walking distance.²²¹

Some governments have begun to reduce or eliminate parking requirements,²²² leaving it to property owners to determine for themselves how much parking they wish to build. In Tennessee, several cities such as Nashville, Chattanooga, and Clarksville have reduced parking requirements in some of their busier districts, while the city of Jackson has eliminated parking requirements altogether.²²³ Other states have taken preemptive approaches, such as restricting cities' abilities to impose parking mandates, at least around transit, in the case of Oregon and California, and, in Maine, limiting how many spaces cities can require for ADUs and affordable housing developments. Montana, likewise, has made reducing or eliminating parking requirements a provision for local governments to adopt. There has even been a federal bill filed to preempt parking minimum requirements nationally.²²⁴

Even street widths have come under scrutiny, with one study finding that even just in the 20 largest counties in the country, residential streets account for nearly \$1 trillion in land value, and in an expensive housing market like Santa Clara, California, reducing the required street width in residential areas to the bare minimum while excluding on-street parking could reduce home prices by about \$100,000.²²⁵

Permitting Processes

In general, before new housing can be built, it has to undergo review by local planning authorities. That is often an essential process that can help to ensure the new housing meets safety standards or that the construction does not produce unintended consequences like rainwater runoff and flooding of neighboring properties. Obtaining a permit requires an application and the payment of a fee, which will vary depending on the type of permit and the rates set by the local government. Those fees do automatically add to the cost of housing, although they generally amount to a small proportion of the overall cost, and case law does suggest that there are at least some limits on how fees may be set. But the chief concern with the planning

Some governments have begun to reduce or eliminate parking requirements.

²¹⁹ Shoup 1997.

²²⁰ Interview with Ralph Perrey, executive director, Tennessee Housing Development Agency, August 30, 2023.

²²¹ Brouday 2023.

²²² Gould 2022.

²²³ Parking Reform Network "Mandates Map."

²²⁴ US Congress HR 3145 of 2023.

²²⁵ Millard-Ball 2022.

review and permitting process among many stakeholders is not the fees, but the process itself, which may not always run as smoothly as it could.

Limitations on Permitting Fees under Law

There are few explicit statutory limits on what government entities can charge for permit fees, although one example is Tennessee Code Annotated, Section 68-120-101(d), which caps the fees that the State Fire Marshal’s Office may charge for the review of certain building permit applications. But if there is little in statute, there is an extensive and complex body of case law at both the state and federal levels that relates to limitations on permitting fees. Stemming from the US Supreme Court cases of *Nollan v. California Coastal Commission* 483 US 825 (1987) and *Dolan v. City of Tigard* 512 US 374 (1994), there are legal principles that limit what and how much governments may require of property owners without those requirements amounting to illegal takings of property, including ensuring a “rough proportionality” between the impact of a land use change and the requirement. The *Nollan/Dolan* principles have sometimes been applied in cases involving required fees, as, for example, in *Knight v. Metropolitan Government of Nashville and Davidson County*, No. 21-6179 (6th Cir. 2023), in which the court held that the city could not require property owners to pay in-lieu fees for sidewalk construction when applying for building permits. Moreover, the Tennessee Supreme Court case *City of Tullahoma v. Bedford County*, 938 S.W.2d 408 (1997) observed that “a fee is imposed for the purpose of regulating a specific activity or defraying the cost of providing a service or benefit to the party paying the fee,” and, unlike a tax, does not exist for the purpose of raising general revenue.

For instance, when local government planning staff review a developer’s submitted plans for a new development, they might find points that do not comply with local or state building codes, leading to some back-and-forth discussion with the developer to try to correct the plans—which could take some time.²²⁶ And in many instances, planned developments may have to go before several rounds of public hearings, where developers may be required to revise their plans to accommodate the critiques and concerns of some community members. These and other steps can draw out the approval process and contribute to housing cost.²²⁷ A survey of homebuilders found that they rated “permitting/development approval process” as the highest regulatory challenge.²²⁸ And one study looking at local regulations and housing supply elasticity—that is, how much housing supply increased or failed to in response to rising house prices—found that, more than for any other variable examined, the longer it took to

²²⁶ Interview with John Zeanah, director, Memphis and Shelby County Division of Planning and Development, August 24, 2023.

²²⁷ Interviews with Hunter McDonald, Chris Wilson, Candy Joyce, and Ryan Folz of Middle Tennessee Association of Realtors, July 7, 2023; Jann Dower, director, Home Builders Association of Tennessee, July 19, 2023; and David Hayes, owner, Hayes Associates, September 6, 2023.

²²⁸ Colton and Ahluwalia 2019.

get planning approvals in a given city, the worse the city's housing supply elasticity.²²⁹

While single-family homes can often be built “by right,” meaning they are subject to only a perfunctory review, other and often larger housing developments may face greater scrutiny, including debate before public hearings. Some, however, have argued that public input at such hearings regularly leans towards opposition to new housing, and yet may only represent a vocal minority of the larger community.²³⁰ This opposition—popularly summarized as “not in my back yard” or NIMBYism—may often come from homeowners who perceive new development to be a risk to their own property values.²³¹ One empirical study in Massachusetts, for example, found a mere 15% of members of the public who spoke on new developments at planning meetings spoke in favor of them, even at a time when 58% of that state's voters approved a referendum for more affordable housing development.²³² Those who spoke at the planning meetings were also more likely to be homeowners and older, longtime residents than the general population. Such public opposition to new housing developments can create delays to approval, and a study from the National Association of Home Builders (NAHB) claimed that, nationally, those delays average to 7.4 months for multifamily housing, accounting for 5.6% of the final cost.²³³

Because there can be so many unique variables involved in any given build site, some amount of planning review may always be necessary to avoid a building creating unintended consequences, and because new developments can have externalities that affect the surrounding community, public input on development remains vital. But there are some ways the process might be streamlined without compromising standards. The NAHB has produced its own recommendations for revamping permitting processes, which include “allow[ing] broad and inclusive public participation in formulation of plans and ordinances but more limited participation at [the] site-specific permit stage,” creating fully online systems to manage applications, applying specific time limits to review processes, conducting review steps in parallel rather than sequentially when possible, and so forth.²³⁴ Some states, however, have arrived at some similar ideas for permitting process improvements on their own. Massachusetts previously produced a guide of 26 recommended best practices for permitting, including:

- Producing flowcharts that educate the public on the process;

The National Association of Home Builders recommends streamlining the permitting process to reduce delays and costs.

²²⁹ Trulia 2016.

²³⁰ Phillips 2020.

²³¹ Fischel 2001.

²³² Einstein, Palmer, and Glick 2018.

²³³ Emrath and Walter 2022.

²³⁴ National Association of Home Builders 2017.

Some states have created fast tracks for housing, and some local governments have issued their own pre-approved housing plans.

- Introducing online portals that help applicants track the progress of their applications and let them see where their applications might be held up;
- Appointing a single point of contact for each application.²³⁵

Some states, including California and Washington, have created fast tracks that exempt housing from steps like environmental review under some conditions, such as when the housing is located in an urban infill area.²³⁶ Other states have introduced “shot clocks” that enforce a time limit for how long a local government has to review planning applications. In Florida, for example, a local government that fails to render a decision on a planning application by the statutory deadline must refund a portion of the application fee for each day it is late.²³⁷ In 2023, Texas passed legislation that added 15 days onto existing permitting decision deadlines, after which an applicant has the option to seek out a qualified third-party engineer or other professional to review their application.²³⁸

Some local governments have also issued their own pattern books, or pre-approved house plans that homebuilders and residents can use off-the-shelf and be assured will pass review, thereby removing uncertainty and shortcutting the process. Similarly, planning departments might allow developers to submit a prototype plan they intend to use repeatedly for multiple sites and ask to get it pre-approved.²³⁹ Then, when it comes time to review the plan for a particular site, planners can skip a step in checking the plan for code compliance.

State-Level Efforts to Promote Zoning Reform

Other states have pursued or at least contemplated several strategies to advance zoning reform for greater housing development. The most direct approach, of course, is simple preemption, and it is one that a number of states have turned to recently as housing affordability has worsened. California’s Home Act of 2021, for example, allows up to four housing units to be built on land parcels previously zoned for single-family homes, effectively ending single-family zoning across the entire state. An act passed in Oregon in 2019 and a slate of bills passed in Washington in 2023 are similar, if perhaps more nuanced, by tiering zoning reforms to cities’

²³⁵ Massachusetts Association of Regional Planning Agencies 2007.

²³⁶ California’s SB 35 of 2018; and Washington HB 5412 of 2023.

²³⁷ Florida Annotated Statutes 553.792.

²³⁸ Texas HB 14 of 2023.

²³⁹ Interview with John Zeanah, director, Memphis and Shelby County Division of Planning and Development, August 24, 2023.

populations.²⁴⁰ Massachusetts, by comparison, conditions zoning reform on proximity to transit.²⁴¹

Several other states, however, recently sought to pass land use reform preemptions and failed. In Arizona last year, one bill would have required a variety of changes to local planning, including increasing density and upzoning of single-family residential areas, but did not pass.²⁴² Similarly, in neighboring Colorado, a bill last year that would have mandated larger cities allow denser development and most other cities allow at least ADUs did not pass despite being championed by the governor.²⁴³ And in 2021, North Carolina considered a bill that would have required local governments to allow for missing middle housing, though it did not pass.²⁴⁴

Some states have experimented with less preemptive means of zoning reform. Last year, Montana passed a major piece of legislation that, among other things, presents local governments with a menu of zoning and permitting reforms designed to encourage housing development.²⁴⁵ The law requires local governments to implement at least five of fourteen listed reforms, but not all of them, leaving local governments with some discretion as to exactly how they reform their land use regulations. In Tennessee in 2024, one bill—Senate Bill 2124 by Senator Briggs and House Bill 2292 by Representative Behn—was directly modeled on this legislation, though it was taken off notice.

California has also explored another approach in which preemption is only triggered if local governments fail to meet certain metrics for housing. In 1969, the state introduced the Regional Housing Needs Allocation (RHNA), a system of assigning housing production targets to local governments.²⁴⁶ The RHNA had no enforcement mechanism, though, until 2017, when the “Builder’s Remedy” was introduced.²⁴⁷ Under the new law, if a local government failed to authorize enough new housing to meet its RHNA target, then developers were automatically exempted from certain planning review requirements, allowing them to build multifamily housing in most any infill area by right. In the first four years of implementation, the Builder’s Remedy was credited with adding 18,000 housing units to the state.²⁴⁸

Several states have recently sought to pass land use reform preemptions, while some have experimented with less preemptive means of zoning reform.

²⁴⁰ Oregon House Bill 2001 of 2019; for Washington, see House Bill 1110, House Bill 1337, House Bill 1042 of 2023 as examples. In Oregon, for example, cities with populations of 10,000 to 25,000 that are not in the Portland region must allow duplexes on land previously zoned for single-family homes, while larger cities and those in Portland’s region must allow up to quadplexes, townhouses, and cottage clusters.

²⁴¹ Massachusetts Chapter 358, Acts of 2020.

²⁴² Arizona Senate Bill 1117 of 2023.

²⁴³ Colorado Senate Bill 23-213.

²⁴⁴ North Carolina Senate Bill 349 of 2021.

²⁴⁵ Montana Chapter 500, Acts of 2023.

²⁴⁶ California Department of Housing and Community Development “Regional Housing Needs Allocation.”

²⁴⁷ California Senate Bill 35 of 2017.

²⁴⁸ Manji and Finnigan 2023.

The federal government has recently backed a variety of upzoning tools.

Lastly, states have begun to look at ways to incentivize or reward local zoning reform rather than mandate it. In 2021, a Maine state commission recommended the creation of a financial reward program for municipalities that committed to zoning reform policies to support housing. Although the state has not adopted such an incentive as yet, another state, Indiana, implemented something similar last year with a newly established housing infrastructure assistance program and fund. Projects that seek loans from the fund are to be prioritized, in part, based on whether the communities in which they're located meet certain conditions like planning for greater housing density, reusing commercial buildings for residential development, including ADUs, and waiving parking or lot size requirements.²⁴⁹ New York state, meanwhile, currently grants priority in some grant funding applications to municipalities that demonstrate increases in their permitted housing stock.²⁵⁰ And in a blend of this incentive-based approach and Montana's options approach, Utah in 2019 passed a bill requiring certain municipalities and counties to adopt at least several measures out of a list to promote "moderate income housing" to qualify for access to transportation funds.²⁵¹

Tennessee, were it to adopt an incentive program, might do so by allocating some portion of the realty transfer or mortgage taxes to local governments, which could be apportioned according to either population within cities and counties or some other metric. For example, it could be apportioned on the basis of the weighted full time equivalent average daily attendance (WFTEADA), an already well-established method defined in statute for allocating revenues like those from property taxes between cities and counties for the sake of education funding.²⁵² In 2024, Senate Bill 2237 by Senator Yarbrow and House Bill 2423 by Representative Shaw would have created just such an incentive program, but was taken off notice for further study.

It should also be noted that the federal government has recently backed a variety of upzoning tools. This has included a grant program, dubbed Pathways to Removing Obstacles, or PRO Housing, in which states and local governments can apply for grants to conduct studies into how they might remove regulatory barriers to affordable housing development. In 2024, the fund was renewed for another year, with \$100 million available.²⁵³

Public Receptiveness to, and Benefits of, Zoning Reform

Zoning reforms to increase housing supply are not without their challenges and may not be appropriate or necessary in every community. Local officials might be hesitant to adopt unfamiliar zoning changes, and some

²⁴⁹ Indiana House Bill 1005 of 2023.

²⁵⁰ New York State "Pro-Housing Community Program."

²⁵¹ Utah Senate Bill 34 of 2019.

²⁵² See Tennessee Code Annotated, Section 49-3-302(19).

²⁵³ US HR 4366, Consolidated Appropriations Act, 2024.

residents may raise concerns that greater density could change the aesthetic character of their community,²⁵⁴ lead to increased traffic and noise or less privacy,²⁵⁵ or, because property tax assessments are based on a property's highest and best use, cause increased property tax bills for existing residents even when no change has been made to their property.²⁵⁶ New development may also come with upfront costs, and financing those costs can create challenges, with the current avenues for financing largely limited to either increasing the property tax or local options sales tax or levying development taxes or impact fees, all of which may face opposition. There may be solutions for at least some of these concerns—for example, the state allows for lower property tax value assessments on land in greenbelt areas, so that those properties' tax assessments are not affected by the rising market values of other nearby properties; and only when those properties are sold do rollback taxes apply, allowing local governments to recoup some of the taxes forgone under the greenbelt status.²⁵⁷ A similar mechanism might work in cases of zoning reform, sparing existing property owners from property tax bill increases. A related bill, Senate Bill 2238 by Senator Yarbrow and House Bill 2467 by Representative Stevens, would have allowed metropolitan governments to provide property tax credits to property owners if there were a local zoning change; this was intended to help insulate existing property owners from increases in their property taxes that might result from any zoning that brought about more development in their area.

But it is worth noting that zoning reforms can offer some unexpected benefits for both housing affordability and local governments. Although not all residents or communities desire density, many do. Several surveys show a general receptiveness to zoning changes to allow greater housing density.²⁵⁸ A 2023 Pew survey found large majorities of Americans (70% or more) supported measures like allowing apartments near transit stations or job centers; allowing more affordable housing or dorms on college campuses or faith institution property; allowing apartments near offices and stores; allowing ADUs; and above all, expediting permitting.²⁵⁹ A separate survey by Redfin, a real estate platform, reported that 78% of respondents supported building more housing, and while only a minority of 32% would support a “large apartment complex” in their neighborhood, another 48% were neutral, leaving just 20% opposed.²⁶⁰ The National Association of Realtors conducts a periodic national survey on community and transportation preferences, and in 2023 found that 56% of respondents

Several surveys show a general receptiveness to zoning changes to allow greater housing density.

²⁵⁴ Interviews with Paige Brown, mayor, Gallatin, July 13, 2023; and Ralph Perrey, executive director, Tennessee Housing Development Agency, August 30, 2023.

²⁵⁵ Pinto, Peter, and Hamilton 2022.

²⁵⁶ Freemark 2023.

²⁵⁷ Chervin 2009.

²⁵⁸ Nelson 2013.

²⁵⁹ Horowitz and Kansal 2023.

²⁶⁰ Anderson 2023b.

Because zoning reform can allow more homes to be built within a fixed area, it can make more efficient use of available space, potentially preserving greenbelt and farmland from further development.

preferred housing in walkable, denser communities.²⁶¹ This preference was also strongest in both the youngest and oldest age groups. And, from 2015 to 2023, receptiveness to living in attached housing like an apartment or townhouse rose from 45% to 53%. As stakeholders have said, allowing apartments, duplexes, townhouses, ADUs, and other such housing gives Tennesseans more options, and while many may still prefer single-family homes, others may not want some of the work that comes with them, like yard maintenance.²⁶²

Moreover, this preference for more density was strong enough that most respondents said they were willing to pay more to live in such communities. This was particularly true for younger generations, with roughly 90% of younger respondents saying they would pay more for housing in a denser, more walkable location, and a third saying they would pay “a lot more.” But given the prevailing single-family zoning in many cities today, only 3.2% of the country’s population lives in an area that could be counted as very walkable,²⁶³ indicating a wide gap between the demand and supply of denser housing options—which may be why homes in walkable areas command a premium.²⁶⁴ Although survey data specific to Tennessee is lacking, what is available could suggest that, again, perhaps half of Tennesseans share a preference for denser housing and the more walkable communities that can come with it, but only a fraction of them may be able to find it given the current housing supply.²⁶⁵

Because zoning reform can allow more homes to be built within a fixed area, it can make more efficient use of available space, potentially preserving greenbelt and farmland from further development. It may also be more cost efficient for construction. One study suggested that detached single-family homes can cost 2.7 times as much as a unit in missing middle housing like a quadplex.²⁶⁶ Home prices in a given city also tend to be lower where the number of homes per acre is higher, a pattern observed with real estate data in cities across Tennessee—for instance, in 2019 in Murfreesboro, the market value for detached single-family homes in the lowest group for density (1.6 housing units per acre) was \$138,000 more than that for comparable homes in the highest group for density (8.7 housing units per acre).²⁶⁷ Attached homes like townhouses showed the same trend and cost even less. And when it comes to the size of developments, more units may mean a lower average cost. For instance, a US Government Accountability Office report on affordable housing found that developments with 100

²⁶¹ National Association of Realtors 2023b.

²⁶² Interviews with Retha Patton, housing program director, Tennessee’s Community Assistance Corporation, September 18, 2023; and Paige Brown, mayor, City of Gallatin, July 13, 2023.

²⁶³ Talen and Koschinsky 2013.

²⁶⁴ Van Gieson 2019; and Hamilton and Dourado 2018.

²⁶⁵ Nelson 2013.

²⁶⁶ California Community Builders 2022.

²⁶⁷ American Enterprise Institute “New Home Construction and As-Built Density Relationships.”

housing units or more cost approximately \$85,000 less per unit than developments with 37 or fewer units.²⁶⁸

Furthermore, given how the placement of housing interacts with transportation, increasing housing density can lead to savings for households in their transportation costs. As past research has found, when housing and transportation costs are considered together, those living in transit-oriented developments or within proximity of transit stations tend to have lower combined costs.²⁶⁹ And households that live within a mile of five “activity centers” — areas with high concentrations of amenities and jobs — end up driving 42% fewer miles each year than households that live at least 10 miles from an activity center.²⁷⁰

Finally, greater housing density can also come with benefits for the cost-efficiency of local government services and infrastructure.²⁷¹ As a Commission-sponsored study of Robertson County found previously, typical residential development often requires more spending than it generates in tax revenue: “for each \$1 of revenue received from residential properties in fiscal year 2005, Robertson County spent \$1.13 providing services to those lands. For each \$1 from commercial and industrial land uses, the county spent 22 cents; and for each \$1 received from farmland, the county spent 26 cents providing services.”²⁷² But, as also found in a related Commission staff report: “Development in infill areas where infrastructure is already in place may not require additional investments for water and sewer beyond relatively minor upgrades to old systems. Growth that can be served by surplus capacity will have no substantial effect on community resources.”²⁷³ Other research taking a national scope has also found that the per capita construction and operational costs of roads, parks, sewer, and water infrastructure all tend to be lower when density is greater.²⁷⁴ The organization Smart Growth America, which advocates for density as a part of more efficient land use policy, claims that denser or “smarter” development can reduce upfront infrastructure costs by 38%,²⁷⁵ and has previously presented data to show that in three distinct residential neighborhoods in Nashville, net revenues increased with the density of households per acre (see table 4).

Greater housing density can also come with benefits for the cost-efficiency of local government services and infrastructure.

²⁶⁸ US Government Accountability Office 2018.

²⁶⁹ Renne et al. 2016; and Dong 2021.

²⁷⁰ Tomer and George 2023 and staff calculations.

²⁷¹ Carruthers and Ulfarsson 2003.

²⁷² American Farmland Trust 2006.

²⁷³ Naccarato et al. 2006.

²⁷⁴ Mattson 2021.

²⁷⁵ Fulton et al. 2013.

Table 4. Local Services Costs per Capita in Three Nashville Communities of Different Densities

	Bradford Hills (conventional suburban subdivision)	Lenox Village (denser, mixed-use subdivision)	The Gulch (high-density area in downtown)
Total Housing Units	538	1,715	4,552
Housing Units per Acre	2.91	9.27	59.9
Service Costs per Housing Unit	\$ 1,590	\$ 1,260	\$ 1,440
Revenue per Housing Unit	\$ 1,620	\$ 1,340	\$ 3,370
Net Revenue per Housing Unit	\$ 30	\$ 80	\$ 1,930
Net Revenue per Acre	\$ 100	\$ 780	\$ 115,720

Source: Fulton et al. 2013 and Commission staff calculations.

Other factors contribute to housing costs, although few straightforward policy options currently exist to address them.

While housing affordability is, at its core, a matter of supply and demand, there are other factors that can contribute to the cost of a home and, therefore, affect affordability. These other factors include the plain, simple costs of construction itself, including disruptions to material supply chains in recent years. They also include regulatory fees and taxes, such as impact fees and development taxes; realtor fees; and financing costs like interest rates. Additionally, investors may outbid other buyers, increasing the cost of housing in some communities, while some studies have found income inequality can contribute to housing affordability issues. At present, state and local governments may have few policy options to affect some of these matters, such as mortgage rates or inflation in the construction industry; however, it is still important to be aware of their role in driving housing costs.

Construction and Labor Costs

Both construction labor and material costs—particularly for softwood lumber—have risen sharply in recent years; the increases in material cost are attributable in part to both pandemic supply chain disruptions and other miscellaneous issues affecting international trade.²⁷⁶ An evaluation of 2022 construction industry data revealed that 71% of all construction

²⁷⁶ Parrott and Zandi 2021.

Both construction labor and material costs—particularly for softwood lumber—have risen sharply in recent years.

material costs and equipment prices increased, as well as 98% of all labor wage rates.²⁷⁷ Stakeholders have also witnessed the effects firsthand on Tennessee’s housing market,²⁷⁸ as construction and related costs generally constitute the majority of the overall housing cost—somewhere between very roughly 50% and 70% of the total.²⁷⁹ There are few policy levers by which the state might improve these conditions, but as analysts of the construction industry have noted before, it may be overdue for some improvements to productivity.²⁸⁰

Manufactured homes—that is, homes built in a factory before being moved to a location or assembled on-site from factory-made modular components—have been explored as a way to mitigate the growing costs of construction and labor. Because of lower costs of materials and faster build timelines, manufactured homes are often priced between 10% and 35% less per square foot than traditional homes.²⁸¹ However, in a 2017 survey, 85% of single-family builders were using traditional on-site, stick-built methods, and just 4% were using modular or factory-built construction,²⁸² and manufactured housing’s share of the market has remained basically unchanged for decades at roughly 10%.²⁸³ Nevertheless, the same study revealed some optimism among industry respondents that factory-built homes would be on the rise in the coming years. Tennessee state law does allow for manufactured housing, and in fact prohibits zoning authorities from excluding a manufactured home “solely because the dwelling is partially or completely constructed in a manufacturing facility,”²⁸⁴ although case law has established that, to be protected, a manufactured home must also have “the same general appearance as required for site-built homes.”²⁸⁵ A representative of a housing manufacturer said that highly specific building aesthetic requirements in some communities can effectively exclude manufactured and modular housing—for example, ordinances that dictate the height of doors or the pitch of a roof.²⁸⁶

Along similar lines, there may also be some other innovations in construction on the horizon that could lower costs, such as 3D printing or

Productivity improvements in the construction industry may be overdue.

²⁷⁷ Gordian 2022.

²⁷⁸ Interviews with Ben Bentley, executive director, Knoxville Community Development Corporation, July 25, 2023; Ken Moore, mayor, and Vernon Gerth, assistant city administrator, City of Franklin, August 1, 2023; John Zeanah, director, Memphis and Shelby County Division of Planning and Development, August 24, 2023; Nick Ogden, owner, Clear Blue Development, September 13, 2023; and Retha Patton, housing program director, Tennessee’s Community Assistance Corporation, September 18, 2023.

²⁷⁹ Hoyt and Schuetz 2020; see also GAO 2023.

²⁸⁰ Barbosa et al. 2017.

²⁸¹ Bond and Fontinelle 2023.

²⁸² Colton and Ahluwalia 2019.

²⁸³ Interview with Ramsey Cohen, director of industry and community affairs, Clayton Homes, March 13, 2024.

²⁸⁴ Tennessee Code Annotated, Section 13-24-201.

²⁸⁵ Tennessee Manufactured Housing Association v. Metropolitan Government of Nashville, 798 S.W.2d 254.

²⁸⁶ Interview with Ramsey Cohen, director of industry and community affairs, Clayton Homes, March 13, 2024.

The construction industry at the national level has wrestled with a slowly growing labor shortage for years.

novel building materials; but while these have attracted interest, it is likely to still be some years before they come to fruition and have any meaningful effect on the housing market at large.²⁸⁷

The supply of construction labor, on the other hand, is no less important,²⁸⁸ and the construction industry at the national level has wrestled with a slowly growing labor shortage for years, seeing an estimated 459,000 unfilled openings at the end of 2023.²⁸⁹ This is something that the state has already invested in with various supports for vocational training, including the creation of the Go Build Tennessee Program, which is a nonprofit that guides young people to construction-related trade careers,²⁹⁰ as well as the Governor’s Investment in Vocational Education (GIVE) program, which has provided grants for regional and local vocational learning and apprenticeship programs.²⁹¹ But as was seen briefly during the start of the pandemic and, even more so, in the wake of the Great Recession, employment in the construction industry can fluctuate dramatically in response to what is happening in the economy at large, and when that might lead to fewer construction workers being available, housing costs tend to rise on the back of increasing labor costs.²⁹²

Impact Fees and Development Taxes

New housing can come with the need for new infrastructure, like additional or expanded streets, stormwater drains, and water and sewer lines, not to mention a need to augment services like fire departments, emergency medical services, policing, and schools, even if that increase in needed services is only incremental. Local governments have a few options for meeting the costs of such infrastructure, primarily by raising property taxes or local options sales taxes, though many jurisdictions are already at the maximum local option sale tax rate of 2.75%.²⁹³ Additionally, some local governments have the authority to levy impact fees or development taxes.²⁹⁴

A small number of Tennessee local governments—18 counties and 15 cities—use impact fees or development taxes.²⁹⁵ These fees and taxes can have various names and subtypes, like a road impact fee or adequate

²⁸⁷ Interviews with Jeremy Heidt, director of government affairs, Tennessee Housing Development Agency, May 26, 2023; and Michael Hendrix, policy director, Office of the Governor of Tennessee, December 14, 2023.

²⁸⁸ Interviews with Ralph Perrey, executive director, Tennessee Housing Development Agency, August 30, 2023; and Michael Hendrix, policy director, Office of the Governor of Tennessee, December 14, 2023.

²⁸⁹ Associated Builders and Contractors 2024.

²⁹⁰ Tennessee Code Annotated, Section 4-41-105.

²⁹¹ Tennessee Department of Economic and Community Development “Workforce and Education.”

²⁹² Neal and Goodman 2020.

²⁹³ Green and Young 2002; and Tennessee Code Annotated, Section 67-6-702.

²⁹⁴ Green and Young 2002.

²⁹⁵ Commission staff analysis of local government ordinances.

facilities tax, and can be levied in different ways, but what sets them apart from property taxes is that they only apply to new construction, not existing homes. Across all jurisdictions in the state, together these fees and taxes generated a total of \$108 million in fiscal year 2021-22.²⁹⁶ See table 1 (reposted).

Table 1 (Reposted). Local Government Impact Fees and Development Taxes in Tennessee, Fiscal Year 2021-22 by County

County or City	Revenue	County or City	Revenue
Impact Fees		Development Taxes**	
Macon	\$ 968,873	Bedford	\$ 781,039
Maury	-	Cannon	92,338
Spring Hill	3,181,985	Cheatham	1,133,698
Robertson	-	Kingston Springs	10,919
White House	495,705	Pegram	6,749
Portland	105,590	Dickson	1,228,671
Rutherford	-	Fayette	928,587
La Vergne	338,666	Hickman	294,480
Murfreesboro*	-	Jefferson	1,520,746
Smyrna	2,696,315	Loudon	3,308,441
Williamson	22,761,451	Marshall	886,604
Brentwood	549,607	Maury	3,733,279
Franklin	12,157,190	Columbia	417,740
Nolensville	1,872,269	Spring Hill	1,664,428
Wilson	-	Montgomery	2,983,940
Lebanon	2,953,338	Sumner	3,440,718
Mt. Juliet	991,268	Robertson	2,485,980
Total	\$ 49,072,257	Rutherford	5,484,390
		Trousdale	162,050
		Williamson	5,323,212
		Brentwood	528,221
		Fairview	343,542
		Franklin	3,669,629
		Nolensville	1,140,117
		Wilson	16,936,412
		Total	\$ 58,505,930
Counties' Total Impact Fee and Development Tax Revenue		\$ 74,454,909	
Cities' Total Impact Fee and Development Tax Revenue		33,123,278	
Total Impact Fee and Development Tax Revenue		\$ 107,578,187	

*Murfreesboro's impact fee will be implemented in fiscal year 2023-24.

**Development taxes may carry various other names, such as facilities taxes.

Source: Commission staff review of Tennessee state law; Tennessee Comptroller of the Treasury; and correspondence with staff of cities and counties.

²⁹⁶ Tennessee Comptroller of the Treasury 2023 and Commission staff correspondence with local officials.

There is a robust debate around impact fees and whether they are a fair way to cover the costs of a community's growth.

Although cities may attempt to enact new impact fees through a private act, counties are preempted from doing so. The County Powers Relief Act of 2006 authorizes a school facilities tax in 33 fast-growing counties but precludes counties from relying on subsequently enacted or amended private acts to impose or increase their development taxes.²⁹⁷ This has led counties to rely on other sources of revenue instead. For example, Rutherford County recently increased its property tax rate because, according to the county mayor, they didn't have the tools to make sure that growth could pay for itself.²⁹⁸ Previously, Rutherford County repealed their private act development tax, which could not be increased, and adopted the school facilities tax that is authorized by the County Powers Relief Act. This tax is assessed on the basis of the square footage of the property, so that more taxes would be paid on a larger house than a smaller one. State law permits a county to levy such taxes at an initial rate of \$1.00 per square foot, which can then be increased, but only once every four years, and then by no more than 10% at a time.²⁹⁹ Revenue from these taxes may only be "used exclusively for the purpose of funding capital expenditures for education, including the retirement of bonded indebtedness."³⁰⁰

There is a robust debate around impact fees and whether they are a fair way to cover the costs of a community's growth. Developers and some related stakeholders oppose the taxes and fees, noting that they add to the cost of housing,³⁰¹ and even if they may not be the largest components of overall housing prices, they are at least one that local governments have control over.³⁰² Some say that the fees can be burdensome for smaller homebuilding businesses in particular, who must shoulder the cost until the home is sold, while larger builders can cope more easily.³⁰³ Opponents also say that one of the rationales for impact fees and development taxes—that they are meant to meet the cost of supplying infrastructure for a growing population—does not hold, because those who buy newly constructed homes are often existing residents of a community and not newcomers who are adding to the population.³⁰⁴ Moreover, the newly created infrastructure might be seen as a benefit to the community as a whole, and therefore not the responsibility of only a few. For these reasons,

²⁹⁷ State of Tennessee, Office of the Attorney General and Reporter, Opinion 07-06 (2006).

²⁹⁸ Interview with Joe Carr, mayor, and Will Denami, executive director, Tennessee Association of Assessing Officers, October 5, 2023.

²⁹⁹ Tennessee Code Annotated, Section 67-4-2908.

³⁰⁰ Tennessee Code Annotated, Section 67-4-2911.

³⁰¹ Interviews with Hunter McDonald, Chris Wilson, Candy Joyce, and Ryan Folz of Middle Tennessee Association of Realtors, July 7, 2023; Ashley Sugar, governmental affairs director, and Addison Russell, assistant general counsel, Tennessee Association of Realtors, July 13, 2023; and Jann Dower, director, Home Builders Association of Tennessee, July 19, 2023.

³⁰² Interview with Ashley Sugar, governmental affairs director, and Addison Russell, assistant general counsel, Tennessee Association of Realtors, July 13, 2023.

³⁰³ Interview with Hunter McDonald, Chris Wilson, Candy Joyce, and Ryan Folz of Middle Tennessee Association of Realtors, July 7, 2023.

³⁰⁴ Interviews with Ashley Sugar, governmental affairs director, and Addison Russell, assistant general counsel, Tennessee Association of Realtors, July 13, 2023; and Jann Dower, director, Home Builders Association of Tennessee, July 19, 2023.

opponents of impact fees have suggested measures such as requiring that impact fees or development taxes only be paid once a certificate of occupancy is issued³⁰⁵—thereby taking the cost off of smaller builders—and that the cost of infrastructure could instead be covered by some other revenue stream.³⁰⁶

Proponents of impact fees, however, say that it is more equitable to charge developers than to increase property tax rates for all property owners in a county or city, and caution that property taxes are a government power that should be exercised with care given the strong effects they can have on households.³⁰⁷ To raise the same amount of revenue through property taxes, cities and counties would need to increase their property tax rates by \$0.012 to \$0.415 per \$100 of assessed value (see appendix C). As to the question of equity, at least some local governments also conduct studies to determine precisely how much their fees or taxes need to be to meet the cost of added amenities and services, so as to ensure the fees do not exceed what is required.³⁰⁸ They also note that state law requires impact fees and some development taxes to be earmarked so that they can only be used for infrastructure needs directly arising from the new development they are levied on.³⁰⁹ And while those who buy a new home may not always be new residents in a community, proponents of impact fees say that new construction will still incur new infrastructure needs, whereas if an existing home changes hands and is taken up by newcomers to a community, it does not change the balance of needs.³¹⁰ There are many dimensions to this debate, and different communities may prefer one option or the other depending on their local circumstances, which is why in 2005 the Commission recommended granting local governments flexibility to levy impact fees and adequate facilities taxes—one type of development tax in Tennessee.³¹¹

The question here, however, is simply whether and how impact fees affect the affordability of housing. Although paid by developers, impact fees and development taxes are likely passed through to purchasers of new housing in the form of higher housing prices.³¹² Tennessee law, in fact,

Some local governments conduct studies to determine how much their fees or taxes need to be to meet the cost of added amenities and services.

³⁰⁵ Interview with Hunter McDonald, Chris Wilson, Candy Joyce, and Ryan Folz of Middle Tennessee Association of Realtors, July 7, 2023.

³⁰⁶ Interview with Ashley Sugar, governmental affairs director, and Addison Russell, assistant general counsel, Tennessee Association of Realtors, July 13, 2023.

³⁰⁷ Interviews with Kevin Hensley, director of public policy, and Shelby Vannoy, assistant director of public policy, Tennessee Farm Bureau, August 14, 2023; and Joe Carr, mayor, and Will Denami, executive director, Tennessee Association of Assessing Officers, October 5, 2023.

³⁰⁸ Interviews with Ken Moore, mayor, and Vernon Gerth, assistant city administrator, City of Franklin, August 1, 2023; and Kevin Rigsby, town planner, City of Smyrna, July 11, 2023.

³⁰⁹ Interviews with Ken Moore, mayor, and Vernon Gerth, assistant city administrator, City of Franklin, August 1, 2023, and Kevin Rigsby, town planner, City of Smyrna, July 11, 2023; Tennessee Code Annotated, Sections 67-4-2901 et seq.; and Green and Eldridge 2006.

³¹⁰ Interview Joe Carr, mayor, and Will Denami, executive director, Tennessee Association of Assessing Officers, October 5, 2023.

³¹¹ Tennessee Advisory Commission on Intergovernmental Relations 2006.

³¹² Ihlanfeldt and Shaughnessy 2004.

The contribution of impact fees and development taxes to housing costs is often limited.

requires that on the first sale of a home, any impact fees or development taxes paid should be disclosed to the buyer.³¹³ And the fees and taxes can vary widely across jurisdictions. Some are assessed on a certain rate per square foot of a housing unit, with different localities having rates that range from \$0.25 to \$2.50, while others are assessed as a flat fee, sometimes modulated by conditions like the type of unit—for instance, whether it is a detached single-family dwelling or a unit in a multifamily building—and are typically in the range of several thousand dollars (see appendix B). The highest single fee in the state is \$12,399, which is assessed in Williamson County on houses of at least 3,400 square feet that are outside of the Franklin Special School District.

Past research looking at impact fees in Florida and Washington state indicate that for each \$1 of impact fees levied, the price of homes increased by about \$1.60 to \$1.66.³¹⁴ But it is still difficult to disentangle the effects of impact fees per se. As one housing researcher has noted, “Discussing the effect impact fees may have on the affordability of housing in the abstract without a comparison to the effect that alternative forms of financing will have on affordability is not helpful. . . . If the infrastructure is provided, it must be paid for, and every source of financing will have effects on the affordability of housing or some other basic item in a household’s budget.”³¹⁵

In any case, the contribution of impact fees and development taxes to housing costs is often limited. The NAHB previously surveyed its members to estimate how much various regulations might contribute to housing costs, concluding that 23.8% of housing costs could be attributed to regulations of some form, including impact fees.³¹⁶ This data, however, was drawn from the national level, and Commission staff were unable to obtain data specific to Tennessee, so it is uncertain how well the overall estimate translates to the state. But the 23.8% figure also breaks down into a miscellaneous assortment of costs, no one of which accounts for more than a few percentage points, and the category for fees—which included other fees beyond impact fees—accounted for just 3% of the average housing cost nationally. In Tennessee, assuming a tax at \$1 per square foot—a typical rate for jurisdictions with a development tax based on square footage—a 2,500 square foot new home would simply result in a development tax of \$2,500. However, with the median cost of new homes in Tennessee reaching \$408,000 as of 2022,³¹⁷ that tax bill would amount to just 0.6% of the home price. Therefore, even if multiple fees and taxes are combined, they may account for no more than a few percentage points of the total sales price.

³¹³ Tennessee Code Annotated, Section 66-5-211.

³¹⁴ Ihlanfeldt and Shaughnessy 2004; and Mathur, Waddell, and Blanco 2004.

³¹⁵ Been 2005.

³¹⁶ Emrath 2021.

³¹⁷ Tennessee Housing Development Agency 2023c.

Realtor Fees

Customarily in the US real estate market, when someone wishes to sell a home with the aid of a realtor, they agree to pay a commission to both their own realtor and the realtor representing the homebuyer—commonly 6% of the sales price in total, though this can vary.³¹⁸ That commission fee might then be split equally between the realtors for the seller and buyer, and is likely factored into the sales price. A series of recent federal lawsuits, however, have alleged that the real estate industry in general has engaged in anticompetitive behaviors around these commissions. One such case, *Moehrl v. The National Association of Realtors*, included allegations both that realtors were “unreasonably restrain[ing] price competition” amongst themselves by limiting opportunities to negotiate the commission fees and that buyers’ agents were “steering” their clients to for-sale homes that offered them—the realtors—a larger commission, sometimes by failing to inform clients of homes that offered lower commission rates.³¹⁹

The National Association of Realtors (NAR) maintains that the commissions paid are not fixed and have always been negotiable. Nevertheless, the case reached a settlement in which the NAR agreed to pay \$418 million in compensation to plaintiffs and to make certain changes to the Multiple Listing Services (MLS)—databases of for-sale homes that are shared between sellers’ and buyers’ realtors—which home sellers and buyers themselves may not view directly.³²⁰ In particular, listings on an MLS may no longer include information about the commission for a property.³²¹ In theory, this may compel homebuyers and their realtors to negotiate directly on how the realtors might be compensated, possibly leading to lower fees overall, which could mean a reduced price for the home.³²² As yet, though, it is not certain how the real estate industry might adapt to these new conditions. The settlement has also not yet received final approval.³²³

Interest Rates

While outside of state government control, interest rates can play a significant role in home-purchasing power and perceptions of affordability, as pointed out by many stakeholders.³²⁴ Rising interest rates can translate into higher mortgage payments, reduced purchasing power, and slower market activity. See figure 9 for an example of monthly mortgage payments

A series of recent federal lawsuits have alleged that the real estate industry in general has engaged in anticompetitive behaviors around commissions.

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³¹⁸ Grochulski and Wang 2024.

³¹⁹ *Moehrl v. The National Association of Realtors*, 19-cv-01610 (N.D. Ill. Mar. 29, 2023).

³²⁰ National Association of Realtors 2024.

³²¹ Ibid.

³²² Harris and Marshall 2024.

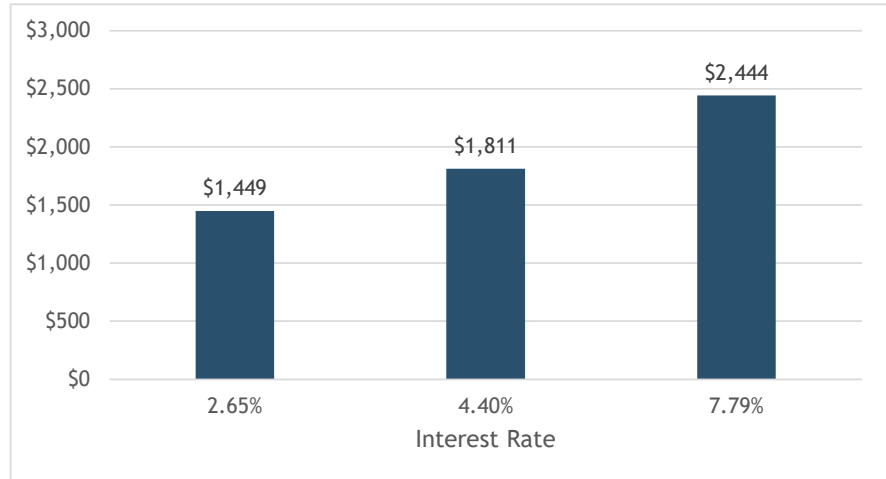
³²³ National Association of Realtors 2024.

³²⁴ Interviews with Ken Moore, mayor, and Vernon Gerth, assistant city administrator, City of Franklin, August 1, 2023; Ashley Sugar, government affairs director, Tennessee Realtors, August 31, 2023; Jenny Schuetz, senior fellow, Brookings Institution, August 17, 2023; and Retha Patton, housing program director, Tennessee’s Community Assistance Corporation, September 18, 2023.

Two rising trends may either lead to higher prices in general or reduce the availability of homes, namely homes being built or bought up by institutional investors, and homes being built for or converted into short-term rentals.

at different interest rates on a \$400,000 home (on par with the median price of a new home in Tennessee for 2022) with a \$40,000 down payment.

Figure 9. Monthly Mortgage Payment at Different Interest Rates on a \$400,000 House



Source: Commission staff calculations.

*Note: Interest rates were determined using the lowest, average, and highest 30 year fixed-rate interest rates over the past 5 years. The example is using a \$400,000 home with a down payment of \$40,000.

Based on historical data, home price appreciation and annual changes in mortgage rates have a negligible association with one another.³²⁵ More recently, however, interest rates have taken center stage. In the Home Ownership Availability Monitor (HOAM) Index, for example, interest rates have been the main driver behind declines in the index since the second quarter of 2022.³²⁶

Housing Being Treated as an Investment

Housing is a necessity, but many property owners and buyers may also choose to treat it as an investment, expecting home values to appreciate over time and generate some kind of eventual financial return.³²⁷ Within the past twenty years or so, however, there have been two rising trends for treating housing as an investment that may either lead to higher prices in general or reduce the availability of homes, namely homes being built or bought up by institutional investors, and homes being built for or converted into short-term rentals.

³²⁵ Goodman and Neal 2022.

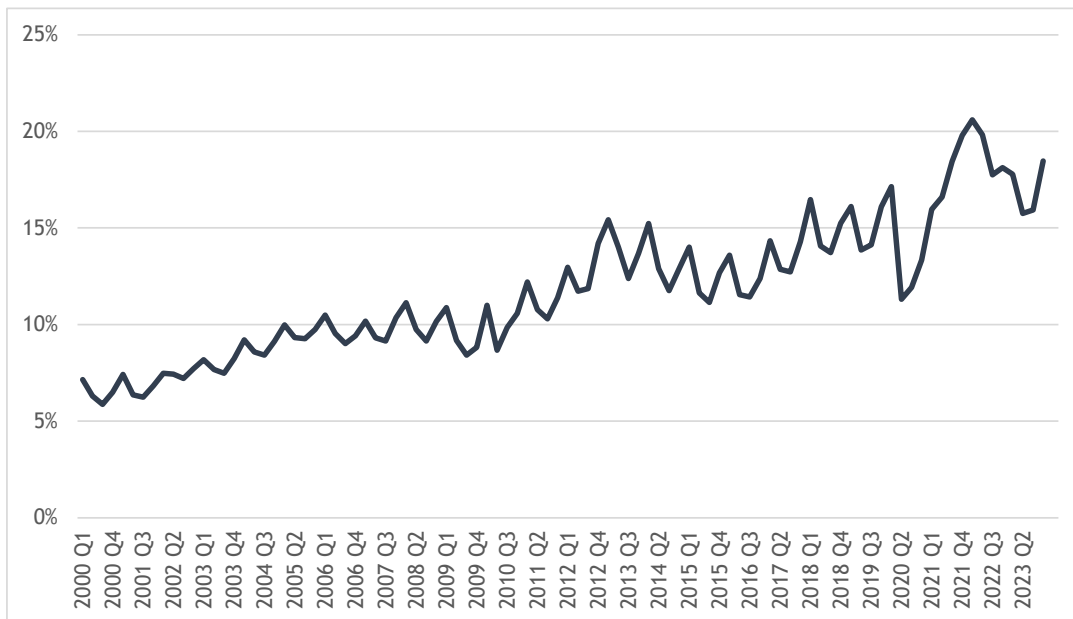
³²⁶ Commission staff analysis of data from Federal Reserve Bank of Atlanta, "Home Ownership Affordability Monitor."

³²⁷ Case and Shiller 2003.

Institutional Investors

Over the past few decades, there has been an increase in investor-owned residential properties. As seen in the figure below, the investor market share—the percentage of total home sales in which an investor was the buyer—at the national level (analyzed using data from the 41 most populous metro areas), has steadily increased over the past two decades apart from a momentary dip because of the COVID-19 pandemic (see figure 10).³²⁸ By the end of 2023, investors accounted for nearly one in five home purchases across the country, but with a preponderance in the lower-priced tiers where housing is more affordable; in that segment, investors were behind 26.1% of home purchases, marking a record high.³²⁹

Figure 10. Percentage of Total Homes Sold Nationally Bought by an Institutional Investor



Source: Redfin “Data Center.”

Large investors (with more than 100 properties in their portfolio) went from being about 16% of the buyers for single-family homes from 2017 through 2019 to 28% at the start of 2022.³³⁰ Institutional investors appear to have driven home prices up after the Great Recession, even as homeownership rates declined, while also pushing up rent growth.³³¹ One analysis found that institutional investors tend to drive price increases specifically in lower-cost housing. Overall, an increase in purchases by institutional

³²⁸ Redfin “Data Center.”

³²⁹ Katz 2024.

³³⁰ Joint Center for Housing Studies of Harvard University 2023.

³³¹ Lambie-Hanson, Li, and Slonkosky 2019.

Research suggests that short-term rentals may diminish the availability of housing, although the size of the effect is difficult to judge.

investors of 7.78% accelerated home price growth by 1.46 percentage points, or even 2.29 percentage points when looking just at the bottom tier of the market.³³²

Short-Term Rentals

As short-term vacation rentals have risen in popularity, concerns have emerged that their share of the market has an effect on available and affordable housing, and several Tennessee stakeholders have expressed concern about the rise of short-term rentals in areas such as Sevier County and Chattanooga.³³³ Research does suggest that short-term rentals may diminish the availability of housing, although the exact size of the effect is difficult to judge. One study found that the presence of short-term rentals has led to increases in rental rates and home prices, with the effect being stronger in zip codes with a lower share of owner-occupiers.³³⁴ According to the study, the “results translate to an annual increase of \$9 in monthly rent and \$1,800 in house prices for the median zip code . . . which accounts for about one-fifth of actual rent growth and one-seventh of actual price growth.”

Other perspectives are that short-term rentals have little to no impact on affordable housing. One study from California claimed that short-term rentals only account for 1% of the state’s housing stock and most are “expensive single-family homes that would not otherwise add to needed affordable housing supply.”³³⁵ Despite the mixed evaluations on short-term rentals’ impact on affordable housing, municipalities throughout the country are beginning to regulate them. Types of regulations on short-term rentals include the following:

- Permitting and licensing—meeting certain standards and paying permitting and licensing fees
- Occupancy limits
- Parking requirements
- Taxes—requiring additional taxes to be collected on top of state taxes; usually paid by guests but collected and distributed back to the state by hosts³³⁶
- Zoning restrictions—prohibiting short-term rentals in some areas of the municipality
- Insurance requirements

³³² Garriga, Gete, and Tsouderou 2020.

³³³ Interviews with Larry Waters, mayor, Sevier County, August 2, 2023; Nicole Heyman, chief housing officer, Chattanooga, August 3, 2023; and Dan Reuter, executive director, Chattanooga-Hamilton County Regional Planning Agency, August 4, 2023.

³³⁴ Barron, Kung, and Proserpio 2017; see also Merante and Horn 2017.

³³⁵ Dubetz, Horton, and Kesteven 2022.

³³⁶ Steamboat Springs, Colorado enacted a 9% tax on short-term rentals in 2022 to fund affordable housing developments. See Pandey, Latu, and Davis 2023.

- Limiting the number of short-term rentals in municipalities
- Limiting the days per year units may be rented out
- Requiring the host to have primary residence in the unit
- Requiring minimum stays

Many municipalities have enacted a combination of regulations. In New York City, for example, Local Law 18 went into effect in September 2023 and requires short-term rental hosts to register with the Mayor’s Office of Special Enforcement, only permits units that serve as legal primary residences (based on being occupied over half of the year) to be rented short term, prohibits entire apartments from being rented out for less than 30 consecutive days, and requires the owner of the rental unit to be sharing the residence through the duration of a guest’s stay.³³⁷ Additionally, no more than two guests are allowed per stay and hosts must pay various taxes and fees.³³⁸ Local Law 18 is an example of one of the most extensive and restrictive regulations on short-term rentals to date, although some municipalities have even banned short-term rentals entirely.³³⁹

Research on whether regulating and restricting short-term rentals produces the desired results is mixed: one study found that short-term rental regulations reduced rent prices by 2% in Los Angeles,³⁴⁰ while another found a reduction in property prices of 30% in New Orleans.³⁴¹ One study compared Airbnb listings and residential permit applications in the three years before and after a short-term rental restriction was passed in a given neighborhood and identified a downward trend in both listings and permits after regulation was enacted: Airbnb listings fell by an average of 9% and residential permits fell by an average of 11%.³⁴²

Tennessee state law, however, includes a legacy clause for short-term rentals, such that if a local government adopts regulations of short-term rentals, they do not apply to properties already operating as short-term rentals in that jurisdiction, but only to new ones.³⁴³

Income Inequality

Income inequality could theoretically drive housing price increases through one of several mechanisms: inequality may simply leave those in lower income tiers too poor to afford housing; it may inspire conspicuous consumption, driving some to spend more than they reasonably can on housing; or, financial strains may force different income groups to shift

Research on whether regulating and restricting short-term rentals produces the desired results is mixed.

³³⁷ New York City Office of Special Enforcement “Registration for Hosts.”

³³⁸ Hostfully “Guide to New York State’s (and NYC’s) Short-Term Rental Regulations.”

³³⁹ Park Township, MI, for example, prohibits short-term rentals in residential neighborhoods.

³⁴⁰ Koster, Van Ommeren, and Volkhausen 2021.

³⁴¹ Valentin 2020.

³⁴² Bekkerman et al. 2021.

³⁴³ Tennessee Code Annotated, Section 13-7-603.

There is some indication that inequality can worsen affordability problems.

While improving housing supply is indispensable for affordability overall, there are additional strategies that are designed to help in other ways.

across housing quality markets, either with those at higher income levels bidding up prices or crowding the lower end of the housing market by buying up properties.³⁴⁴

Whatever the mechanism, though, there is some indication that inequality can worsen affordability problems. One study showed that, all else being equal, an increase of 0.1 in the Gini coefficient—a standard measure of income inequality across a population that can range from zero to one—was associated with 2.2 and 4.4 percentage points more severely rent-burdened low-income households in 2000 and from 2008 through 2012, respectively.³⁴⁵ Increases in the Gini coefficient have also been associated with greater crowding. One study revealed that “tight” housing markets tend to be those where incomes are rapidly rising at the higher end, while incomes at the low end move upward slightly or not at all and lower-income households have experienced greater crowding.³⁴⁶ Commission staff analysis of 2020 county-level data in Tennessee, however, did not find a noteworthy correlation between the Gini coefficient of counties and either the home price-to-income ratio or the percentage of the population who were housing cost-burdened.

Many additional strategies and programs are available to support housing development, homeowners, and renters.

While improving housing supply is indispensable for affordability overall, there are additional strategies that are designed to help in other ways. Many of these strategies involve providing direct support to lower-income homebuyers and renters by one means or another. Stakeholders have said that, to support housing for working Tennesseans with lower incomes, some amount of subsidy may inevitably be needed,³⁴⁷ because without it, even a nonprofit like Habitat for Humanity would have to operate at a loss.³⁴⁸ Meanwhile, others have pointed out that the cost of maintaining a home can also create housing affordability issues, which might suggest policies to support accessibility, preservation, and stability in housing.³⁴⁹ For instance, parts of the state—some urban, but especially rural areas—do not suffer from housing shortages so much as an aging housing stock,

³⁴⁴ Dewilde and Lancee 2013.

³⁴⁵ Dong 2018.

³⁴⁶ Matlack and Vigdor 2006.

³⁴⁷ Interview with Ralph Perrey, executive director, Tennessee Housing Development Agency, August 30, 2023.

³⁴⁸ Jens Christensen, CEO, Habitat for Humanity of Greater Chattanooga, speaking at the Commission meeting on September 27, 2023.

³⁴⁹ Phillips 2020; and interview with Roshun Austin, CEO, and Steve Barlow, vice president, The Works, July 19, 2023.

where repairs are desperately needed but difficult for homeowners to finance.³⁵⁰

Potential policies to address these affordability issues include, among other things, tax credits; payments in lieu of taxes (PILOT) and other tax-based mechanisms; inclusionary zoning; promotion of rural housing development; financial programs for home construction, purchasing, or repair, including down payment assistance and appraisal gap financing; rental assistance; landlord registries and programs for ensuring code compliance in rental properties; and much more. An exhaustive review of all of the options is not possible here, but collectively these strategies—a number of which the state already utilizes in some form or another—may form part of a toolkit that could complement any effort to improve housing supply.

Tax Credits and Other Financing for Affordable Housing Development

THDA already administers a number of programs in support of affordable housing, often conducted in partnership with locally based public housing authorities. At present, the organization receives no funding from the state, relying entirely on revenue generated from its home loan program and federal contracts to cover its entire operating budget.³⁵¹ The funding it administers for federal housing programs is provided by Congress. And among its programs, THDA has several that promote the production of new affordable housing units for households of very low to moderate incomes, including loan and bond programs, but one of the mainstays of affordable housing development are tax credits.

In tax credit development programs, developers and their investors receive credits against their tax liabilities for building or redeveloping housing that is priced to be affordable to those with lower incomes making a certain percentage of the area median income (AMI).³⁵² The most well-known example is the Low-Income Housing Tax Credit (LIHTC) Program, a federal tax credit that affordable housing developers and investors can receive for 10 years on a given development. The amount of tax credits is based on the costs of development as determined by THDA and the number of qualified units provided for low-income households.³⁵³ In 2022, 6,889 affordable rental units across the state were being supported by LIHTC.³⁵⁴ A bill currently before Congress, the Affordable Housing

The Tennessee Housing Development Agency administers a number of programs in support of affordable housing, often conducted in partnership with locally based public housing authorities.

³⁵⁰ Interviews with Will Veazey, planner, Tipton County, August 24, 2023; and Retha Patton, housing program director, Tennessee's Community Assistance Corporation, September 18, 2023.

³⁵¹ Tennessee Housing Development Agency 2019.

³⁵² AMI is formally defined by the US Department of Housing and Urban Development and is based on the median income of households with two or more people in a given metropolitan statistical area. See US Department of Housing and Urban Development 2023b.

³⁵³ Tennessee Housing Development Agency "Low-Income Housing Tax Credit Program."

³⁵⁴ Commission staff calculations of Tennessee Housing Development Agency 2023a.

Some local governments may grant payments in lieu of taxes (PILOTs) to affordable housing developments, which may reduce some of the cost, but not every local government may be able or willing to do so.

Credit Improvement Act, may expand funding for the LIHTC program, potentially allowing for more such housing to be developed in Tennessee. The bipartisan act includes provisions to increase the number of credits available to states by 50% for the next two years, make the temporary 12.5% increase in tax credits available for low-income housing secured in 2018 permanent, and decrease the amount of private activity bonds needed to secure funding from 50% to 25%.³⁵⁵

Several stakeholders noted that LIHTC is subject to inclusion in property tax assessments, which, they say, undercuts affordability.³⁵⁶ Senate Bill 793 by Senator Stevens and House Bill 1450 by Representative Faison, as amended, would have reduced assessments on LIHTC properties, though it did not pass. But as noted in the Commission’s 2015 report *Assessing the Value of Low-Income Housing for Property Tax Purposes*,

Interpreting Tennessee law and the state constitutional requirement of uniformity in assessment and tax rates, Tennessee courts have recognized the credits as an indicator of property value that is properly considered when assessing the value of LIHTC properties. In *Spring Hill, L.P., et al. v. Tennessee State Board of Equalization, et al.* (2003), the court of appeals noted that “the tax credits are not being taxed as intangible property . . . [and their] inclusion does not constitute a tax on those intangibles.” The court further noted that “the tax credits are irrevocably attached to the real property” and concluded that they “relate directly to the real property and are not a tangible benefit severable and sold to third parties and that they were properly included in the valuation” of the Spring Hill property and two others. (internal citations omitted).³⁵⁷

Some local governments may grant PILOTs to affordable housing developments, which may reduce some of the cost, but not every local government may be able or willing to do so,³⁵⁸ and PILOTs are typically not permanent, creating a risk for keeping a property affordable over the long term.³⁵⁹

In its 2015 report, the Commission recommended spreading the credits’ cumulative annual present values evenly over the restricted-rent period, thereby evening out the annual tax bill to eliminate the cash-flow problem

³⁵⁵ The Action Campaign 2023.

³⁵⁶ Interviews with Phyllis Vaughn, consultant, Vaughn Development, August 7, 2023; and Dwayne Barrett, tax attorney, Reno and Cavanaugh, August 21, 2023.

³⁵⁷ Tennessee Advisory Commission on Intergovernmental Relations 2015.

³⁵⁸ Interviews with Phyllis Vaughn, consultant, Vaughn Development, August 7, 2023; and David Hayes, owner, Hayes Associates, September 6, 2023.

³⁵⁹ Interview with Roshun Austin, CEO, and Steve Barlow, vice president, The Works, July 19, 2023.

that owners of LIHTC properties sometimes face, while still retaining the full value of the tax credits for property tax purposes.³⁶⁰ In 2016, the Tennessee State Board of Equalization adopted rules allowing LIHTC property owners to opt to have their properties assessed using the Commission's recommended approach.³⁶¹

South Carolina, North Carolina, and Georgia have state programs that match LIHTC, increasing the tax credits available for a development.³⁶² South Carolina created their tax credit program in 2020, later amending it in 2022 because there was no limit on the number of credits or projects that could be funded, resulting in oversubscription by developers.³⁶³ Consequently, their General Assembly imposed a \$20 million annual cap for tax credits. The credits were initially a dollar-for-dollar matching of federal LIHTC, but the revision turned them into more of a gap financing device.³⁶⁴

Although Tennessee does not have a LIHTC-matching program, it does have a tax credit program of its own, the Community Investment Tax Credit (CITC), which is cooperatively administered by THDA and the Department of Revenue.³⁶⁵ State law allows for financial institutions to obtain a credit of 5% for a qualified loan (10% for a grant) against their franchise and excise tax when they extend qualified loans, qualified investments, grants, or contributions to eligible housing entities for engaging in certain low-income housing activities.³⁶⁶ As one stakeholder described it, the program used to be easy to use, but added application requirements have made it more cumbersome.³⁶⁷ For instance, when applying for the credits, applicants must now provide the exact addresses of where homes will be built, which can delay the process because an applicant has to purchase the lots for the homes before securing the credits. Another stakeholder suggested that allowing more types of institutions to access the state's CITC could help in building more affordable housing.³⁶⁸

But there are possibilities for aiding affordable housing production beyond tax credits, including trust funds of various types. Some of these exist at the local level, such as the Barnes Fund in Nashville, which since its inception

There are possibilities for aiding affordable housing production beyond tax credits, including trust funds of various types.

³⁶⁰ Tennessee Advisory Commission on Intergovernmental Relations 2015.

³⁶¹ Rules and Regulations of the State of Tennessee, Chapter 0600-10-.03.

³⁶² Interview with Dan Reuter, executive director, Chattanooga-Hamilton County Regional Planning Agency, August 4, 2023.

³⁶³ Interview with Kim Wilbourne, LIHTC manager, South Carolina State Housing Finance and Development Authority, and Julie Davis, multifamily development director, South Carolina State Housing Finance and Development Authority, October 13, 2023.

³⁶⁴ Ibid.

³⁶⁵ Tennessee Housing Development Agency 2018.

³⁶⁶ Tennessee Code Annotated, Sections 67-4-2109(h) and 67-4-2109(k); and Tennessee Housing Development Agency "Community Investment Tax Credit."

³⁶⁷ Interview with Retha Patton, housing program director, Tennessee's Community Assistance Corporation, September 18, 2023.

³⁶⁸ Interview with Ben Bentley, executive director, Knoxville Community Development Corporation, July 25, 2023.

in 2013 has contributed to the development of 3,310 affordable housing units,³⁶⁹ and in fiscal year 2024 was allocated \$20.5 million.³⁷⁰ THDA has its own housing trust fund, which allocated \$8.2 million in 2022 to various housing programs for low-income Tennesseans who are elderly or have special needs.³⁷¹ The trust fund, however, receives no state appropriations, but rather is funded by annual revenues from THDA’s mortgage loan program.³⁷² Other states have begun to explore ways to make more of such trust funds. Oklahoma recently established a new trust fund program with an appropriation of \$215 million, most of which is geared towards making zero-interest loans to builders to produce affordably priced homes and rental units.³⁷³ Oklahoma’s state housing agency hopes that the revolving loans from the fund can be sustained indefinitely and lead to at least several thousand new housing units.³⁷⁴ Such a loan program in Tennessee could be funded, at least in part, through revenues from the realty transfer or mortgage taxes, with interest from the fund used to support affordable housing indefinitely. It should be noted that for fiscal year 2024-2025, the Tennessee budget proposal suggested redirecting \$250,000 of the revenue from the state’s realty transfer and mortgage recordation taxes to THDA’s trust fund,³⁷⁵ though this was not included in the budget as enacted. See table 2 (reposted).

Table 2 (Reposted). Example Distribution of Recordation Tax Revenue, Fiscal Year 2021-22

	Unearmarked Realty Transfer Tax	Mortgage Tax Revenue	Total
Total Revenue, Fiscal Year 2021-22	\$282,015,535	\$147,835,371	\$429,850,907
20% for Affordability Reform Incentives	\$56,403,107	\$29,567,074	\$85,970,181
20% for THDA Trust Fund	\$56,403,107	\$29,567,074	\$85,970,181
5% for Off-cycle Reserve Fund	\$14,100,777	\$7,391,769	\$21,492,545

Source: Commission staff analysis of Tennessee Department of Revenue data.

In 2024, Public Chapter 956 authorized IDBs in selected high-growth counties to receive loans or grants from the state or federal government to build infrastructure in support of housing. Similarly, Public Chapter 860, Acts of 2024, allowed local governments to create infrastructure development districts and to issue bonds or levy special tax assessments to finance infrastructure in support of housing.

³⁶⁹ The Metropolitan Government of Nashville and Davidson County 2022.

³⁷⁰ The Metropolitan Government of Nashville and Davidson County 2023.

³⁷¹ Tennessee Housing Development Agency 2023a.

³⁷² Interview with Ralph Perrey, executive director, Tennessee Housing Development Agency, August 30, 2023.

³⁷³ Oklahoma Housing Finance Agency 2023.

³⁷⁴ Interview with Valentia Doolin, homeownership director, and Darrell Beavers, housing development programs director, Oklahoma Housing Finance Agency, October 9, 2023.

³⁷⁵ State of Tennessee Budget, Fiscal Year 2024-2025.

Inclusionary Zoning

One method of promoting affordable housing, called inclusionary zoning, is currently prohibited by state law.³⁷⁶ Despite its name, it is not a form of zoning as most people might think of it, but is an incentive or requirement for developers to set aside a percentage of units in new housing developments to be affordable for lower-income households. Jurisdictions throughout the country have adopted inclusionary zoning, but Tennessee is one of seven states that preempt local governments from mandating it,³⁷⁷ and opponents to inclusionary zoning say that it amounts to a mandate on pricing for housing. Stakeholders have said that, in their understanding, Tennessee's statute not only prohibits local governments from requiring developers include affordable housing units in their developments but also from offering them incentives like density bonuses or greater height allowances to do so on a voluntary basis. Stakeholders have said the law limits local governments' abilities to create needed housing,³⁷⁸ with one describing the state's law against zoning and incentives on affordable housing as "the nail in the coffin" for their efforts to promote affordability.³⁷⁹

In 2024, the General Assembly passed Senate Bill 2496 by Senator Gardenhire and House Bill 2623 by Representative Carr, which allows local governments to create incentive programs in which they can provide incentives to developers who voluntarily build housing that meets certain standards for affordability as determined by the local government.

Exploring Rural Housing Development

Stakeholders have also suggested that housing should be considered in rural economic development,³⁸⁰ and that there need to be more incentives to attract investments into rural communities.³⁸¹ In 2021 Tennessee's Department of Economic and Community Development (ECD) proposed creating a new Rural Development program to equip community leaders with resources, best practices, and funding for housing solutions.³⁸² They said that developers were struggling to make entry-level, workforce

Stakeholders have also suggested that housing should be considered in rural economic development, and that there need to be more incentives to attract investments into rural communities.

³⁷⁶ Tennessee Code Annotated, Section 66-35-102.

³⁷⁷ Grounded Solutions Network 2019.

³⁷⁸ Interviews with Ken Moore, mayor, and Vernon Gerth, assistant city administrator, City of Franklin, August 1, 2023; Nicole Heyman, chief housing officer, Chattanooga, August 3, 2023; Angela Hubbard, director of housing division, Gregory Claxton, planner, Todd Okolichany, deputy executive planning director, and Lucy Kempf, executive director, Metropolitan Government of Nashville and Davidson County Planning Department, August 23, 2023; with Scott Conger, mayor, Lauren Kirk, chief innovation officer, and Claire Pierson, community development coordinator, City of Jackson, August 31, 2023; and Heidi Campbell, senator, Tennessee District 20, July 18, 2023.

³⁷⁹ Interview with Susan Minor, chief operating officer, Franklin Housing Authority, July 31, 2023.

³⁸⁰ Interview with Ryan Egly, president and CEO, and Ben Barnett, project manager, Lawrence County Chamber of Commerce, September 12, 2023.

³⁸¹ Interview with Dwayne Barrett, tax attorney, Reno and Cavanaugh, August 21, 2023.

³⁸² Correspondence with Brooxie Carlton, assistant commissioner, Rural Development, Tennessee Department of Economic and Community Development, August 29, 2023.

For some homes, the state of disrepair may make them dangerous or unlivable, thus undercutting the housing stock and having a knock-on effect on housing affordability at large.

housing financially viable and that rural communities have little means to incentivize the workforce housing development they needed.³⁸³ ECD proposed a plan with a \$10.6 million budget but did not receive funding in 2023.³⁸⁴

Supports for Current Homeowners

There are a number of programs in place to directly assist homeowners, buyers, and renters in a variety of ways. For example, THDA's Great Choice Home Loan program offers 30-year, fixed-rate mortgages with low interest to qualified first-time, repeat, and military veteran homebuyers,³⁸⁵ and benefited 2,195 households in 2022.³⁸⁶ Stakeholders have expressed an interest in adding or expanding other such programs to address a mix of housing needs.

A key issue for many is home repairs.³⁸⁷ One estimate from the Federal Reserve Bank of Philadelphia is that \$126.9 billion was needed for home repairs nationwide as of 2018.³⁸⁸ While repair needs for some homes may be minor, for others the state of disrepair may make them dangerous or unlivable, thus undercutting the housing stock and having a knock-on effect on housing affordability at large. The census region with the highest average need, as the Federal Reserve Bank found, was the South, with \$3,094 in repairs needed per home.³⁸⁹ THDA provides funding for home repairs to Tennesseans who are low-income, elderly, disabled, or have special needs through the Tennessee Housing Trust Fund's Emergency Repair Program,³⁹⁰ but the agency's funding for repairing and renovating existing homes is "oversubscribed."³⁹¹

State law requires that home renovations costing more than \$25,000 have a licensed general contractor.³⁹² Anything falling below that cost threshold can be done by a home improvement contractor. Some stakeholders say this threshold is too low and that more expensive projects could be adequately handled by home improvement contractors.³⁹³ Senate Bill 1444 by Senator Roberts and House Bill 655 by Representative Fritts was introduced in

³⁸³ Interview with Brooxie Carlton, assistant commissioner, Rural Development, Tennessee Department of Economic and Community Development, August 29, 2023.

³⁸⁴ Ibid.

³⁸⁵ Tennessee Housing Development Agency 2023d.

³⁸⁶ Tennessee Housing Development Agency 2023a.

³⁸⁷ Interviews with Julie Keel, program director, Mountain TOP, August 28, 2023; and Scott Conger, mayor, Lauren Kirk, chief innovation officer, and Claire Pierson, community development coordinator, City of Jackson, August 31, 2023.

³⁸⁸ Wallace 2019.

³⁸⁹ Federal Reserve Bank of Philadelphia 2019.

³⁹⁰ Tennessee Housing Development Agency "Home Repairs."

³⁹¹ Interview with Ralph Perrey, executive director, Tennessee Housing Development Agency (THDA), August 30, 2023.

³⁹² Tennessee Code Annotated, Section 62-6-120.

³⁹³ Interview with Jason Edmonds, policy analyst, Beacon Center, August 17, 2023.

2023 to raise the threshold to be in line with inflation—from \$25,000 to \$50,000—but it did not pass.

For other Tennesseans who own their homes but have limited incomes, rising home values can result in higher property taxes, thus creating an affordability issue,³⁹⁴ but there are several options in law for providing property tax relief to some populations. State law provides for property tax relief for low-income elderly and disabled homeowners, as well as disabled veteran homeowners or their surviving spouses,³⁹⁵ and each year more than 100,000 individuals receive benefits from a program authorized by the General Assembly for this purpose, which has total funding of \$41 million.³⁹⁶ Separately, under Article II, Section 28 of the Tennessee Constitution, the General Assembly may authorize cities and counties to implement a local option property tax freeze for taxpayers 65 years of age or older. In 2007, the 105th General Assembly enacted the Property Tax Freeze Act which established the tax freeze and authorized the legislative body of any county or municipality to adopt this property tax freeze program.³⁹⁷ The program allows qualifying homeowners to have their property taxes on their primary residence frozen at the amount they owed in the year they first qualified for the program. As long as the owner continues to meet the program's eligibility criteria, the amount of property taxes owed generally won't change, even if there is a property tax rate increase or county-wide reappraisal. A total of 26 counties and 34 cities have implemented the program as of 2024.³⁹⁸

Those who rent their homes face some unique affordability challenges, particularly because their living situations are less assured, and therefore potentially less stable, than for homeowners.

Supports for Renter Households

Those who rent their homes face some unique affordability challenges, particularly because their living situations are less assured, and therefore potentially less stable, than for homeowners. THDA administers Tennessee's Section 8 Rental Assistance program, a tenant-based rental assistance or voucher program funded by HUD.³⁹⁹ The program helps low-income households obtain decent, safe, and sanitary housing by THDA paying a portion of rental costs (including utilities) directly to a landlord in the private rental market. THDA also sponsors a free online website for advertising and locating available rental properties and other resources for renters.⁴⁰⁰ However, federal funding for Section 8 vouchers is limited, and nationally only one in six families who qualify for vouchers can receive

³⁹⁴ Interviews with Rogers Anderson, mayor, Williamson County, July 18, 2023; and Julie Keel, program director, Mountain TOP, August 28, 2023.

³⁹⁵ Tennessee Code Annotated, Sections 67-5-701 through 67-5-704.

³⁹⁶ Tennessee Comptroller of the Treasury "Property Tax Relief."

³⁹⁷ Tennessee Comptroller of the Treasury "Property Tax Freeze."

³⁹⁸ Ibid.

³⁹⁹ Tennessee Housing Development Agency "THDA Programs."

⁴⁰⁰ Tennessee Housing Development Agency 2024.

Many Tennesseans
who rent may also face
challenges with housing
stability.

them.⁴⁰¹ State law also prohibits local governments from adopting rent control measures.⁴⁰²

Rents may also come compounded with other fees, raising effective housing costs still further. As rental application fees are usually nonrefundable, and applicants in a tight housing market may be rejected multiple times before finding a place to rent, the cost of repeated applications can add up to hundreds or even thousands of dollars. Moreover, a 2023 study found landlords around the country are increasingly charging an assortment of monthly fees such as “valet trash removal” (in addition to a separate trash removal fee), “maintenance fees,” “inspection fees,” “mail sorting fees,” “convenience fees,” “insurance fees,” and so forth, all of which may add up to 25% of the base rent.⁴⁰³ Some states have taken legislative action to restrain at least some fees.⁴⁰⁴ Senate Bill 1893 by Senator Oliver and House Bill 2025 by Representative Clemmons in 2024 would have enacted several measures to limit such fees, including requiring landlords in Tennessee to disclose all such potential fees prior to a rental application, but the bill did not pass.

But apart from any issue with rental costs, many Tennesseans who rent may also face challenges with housing stability. Tennessee has some statewide tenant protection laws; most notably the state’s Uniform Residential Landlord and Tenant Act makes it unlawful for a landlord to discriminatorily increase a tenant’s rent, decrease a tenant’s services, or threaten to bring an action against a tenant because the landlord is retaliating against the tenant.⁴⁰⁵ However, stakeholders say there is still a need to ensure that landlords are accountable for keeping rental housing up to standard without requiring tenants to turn to the courts.⁴⁰⁶ One way of doing so may be to allow local governments to create landlord registries to help ensure code compliance.⁴⁰⁷ Under state law, however, only Davidson County currently has the authority to operate such a registry.⁴⁰⁸ Senate Bill 1256 by Senator Akbari and House Bill 34 by Representative Thompson of 2024 would have created a registry for Shelby County, but did not pass.

⁴⁰¹ Desmond 2020.

⁴⁰² Tennessee Code Annotated, Section 66-35-102.

⁴⁰³ Nelson et al. 2023.

⁴⁰⁴ Dunn 2022.

⁴⁰⁵ Tennessee Code Annotated, Section 66-28-504 et seq.

⁴⁰⁶ Interview with Roshun Austin, CEO, and Steve Barlow, vice president, The Works, July 19, 2023.

⁴⁰⁷ Interview with Scott Conger, mayor, Lauren Kirk, chief innovation officer, and Claire Pierson, community development coordinator, City of Jackson, August 31, 2023.

⁴⁰⁸ Tennessee Code Annotated, Section 66-28-107.

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Appendix A: House Joint Resolution 139 by Sparks

<BillNo> <Sponsor>

HOUSE JOINT RESOLUTION 139

By Sparks

A RESOLUTION relative to home affordability and impact fees.

WHEREAS, home affordability is an increasingly pressing issue for many Tennesseans;
and

WHEREAS, according to statistics from 2020, the median value of existing homes in the State is \$191,000, while a new home price in Tennessee is \$387,961; and

WHEREAS, with the cost of living rising faster than incomes, more and more people are struggling to keep up with the expense of owning or renting a home, especially in areas with higher than average real estate prices; and

WHEREAS, for low- to moderate-income households, climbing real estate prices, in addition to issues such as predatory lending practices, make it difficult to access quality housing options and find secure and affordable homes within their budgets; and

WHEREAS, the increasing rate of impact fees, taxes levied on new developments, is another factor affecting potential homeowners; and

WHEREAS, commonly assessed to pay for the cost of infrastructure needed as a result of population growth, impact fees are rising due to increased demand and costs and could have serious negative consequences, such as increasing housing prices and limiting development in certain areas; and

WHEREAS, there are additional concerns that impact fees could lead to a decrease in available land for development or an increase in regional inequality by favoring wealthier communities that can afford these costs over less wealthy communities that cannot afford the costs; now, therefore,

BE IT RESOLVED BY THE HOUSE OF REPRESENTATIVES OF THE ONE HUNDRED THIRTEENTH GENERAL ASSEMBLY OF THE STATE OF TENNESSEE, THE SENATE CONCURRING, that we hereby request TACIR to undertake a comprehensive review of all existing impact fee policies, with particular focus on any potential challenges caused by increasing fees, seeking input from local governments in addition to economic experts.

BE IT FURTHER RESOLVED, that the State should work toward developing alternative approaches where necessary to ensure access to infrastructure is equitable across all communities while avoiding excessive rate hikes that could place an undue burden on citizens.

BE IT FURTHER RESOLVED, that an appropriate copy of this resolution be transmitted to the executive director of TACIR.

Appendix B: Local Government Rates for Impact Fees and Development Taxes

County or City	Name of Fee or Tax	Rates
Bedford	School Facilities Tax	\$1 per sq. ft. (residential only)
Cannon	School Facilities Tax	\$0.90 per sq. ft. (residential only)
Cheatham	Development Tax	- Single Family: \$3,000 per lot - Multifamily: \$3,000 per unit (residential only)
	Adequate Facilities Tax	\$0.50 per sq. ft. (residential only)
Kingston Springs	Adequate Facilities Tax	\$0.40 per gross sq. ft. of floor area (residential only)
Pegram	Adequate Facilities Tax	- Residential: \$0.75 per gross sq. ft. of floor area - Non-residential: \$0.40 per gross sq. ft. of floor area
Dickson	Adequate Facilities Tax	- Residential: \$1 per gross sq. ft. - Commercial: \$0.25 per gross sq. ft. - Industrial: \$0.15 per gross sq. ft.
Fayette	Adequate Facilities Tax	- Residential: \$0.99 per heated sq. ft. - Commercial: \$0.25 per total sq. ft. under roof
Hickman	Development Privilege Tax	- Residential: Greater of \$1 per sq. ft. or \$1,500 - Commercial/Industrial: Greater of \$0.25 per sq. ft. or \$1,500
Jefferson	School Facilities Tax	\$1 per sq. ft. (residential only)
Loudon	School Facilities Tax	\$1 per sq. ft. (residential only)
Macon	Development Impact Fee	- Residential: \$2.50 per sq. ft. - Commercial: \$0.50 per sq. ft.
Marshall	Adequate Facilities Tax	- Residential: \$1 per sq. ft. - Commercial: \$0.60 per sq. ft.
Maury	Adequate Facilities Tax	- Residential: \$0.50 per gross sq. ft. - Non-residential: \$0.30 per gross sq. ft.

County or City	Name of Fee or Tax	Rates
Columbia	Sewer Impact Fee	<ul style="list-style-type: none"> - \$1,196 for a 5/8" meter - \$1,674 for a 3/4" meter - \$3,349 for a 1" meter <p>Note: Larger meter sizes, with correspondingly larger fees, are included the fee schedule but are not typical for residential use.</p>
Spring Hill	Adequate Facilities Tax	<ul style="list-style-type: none"> - Residential: \$1 per gross sq. ft. - Non-residential: \$2 per gross sq. ft.
	Construction Impact Fee	<ul style="list-style-type: none"> - Single Family Detached: \$3,361 per dwelling - Multifamily: \$2,606 per dwelling - Senior Housing Detached: \$1,515 per dwelling - Senior Housing Attached: \$1,316 per dwelling - Other Development: rates vary
Montgomery	Adequate Facilities Tax	\$500 per lot and \$500 per dwelling unit (residential only)
Sumner	Adequate Facilities Tax	<ul style="list-style-type: none"> - Residential: \$0.70 per gross sq. ft. - Industrial: \$0.40 per gross sq. ft.
Robertson	Adequate Facilities Tax	<ul style="list-style-type: none"> - Residential: \$1.50 per sq. ft. - Commercial: \$0.30 per sq. ft.
White House	Impact Fee	<ul style="list-style-type: none"> - Single Family: \$3,740 per dwelling (\$1,147 roads, \$1,189 parks, \$846 police, \$558, fire) - Duplex: \$2,690 per dwelling (\$778 roads, \$876 parks, \$624 police, \$412 fire) - Multifamily: \$2,381 per dwelling (\$778 roads, \$736 parks, \$522 police, \$345 fire) - Other Development: rates vary
Portland	Impact Fee	<ul style="list-style-type: none"> - Single Family: \$1,243 per unit - Multifamily: \$743 per unit - Other Development: rates vary

County or City	Name of Fee or Tax	Rates
Rutherford	Development Tax	<p>Note: Applies only to platted subdivisions recorded prior to July 1, 2021</p> <ul style="list-style-type: none"> - If plat required: \$750 per lot or unit upon plat approval and \$750 per lot or unit on issuance of building permit - If no plat required: \$1,500 per lot or unit on issuance of building permit (residential only)
	School Facilities Tax	\$1 per sq. ft. (residential only)
La Vergne	Impact Fee	<ul style="list-style-type: none"> - Single Family detached: \$3,718 per dwelling - Multifamily: \$2,850 per dwelling - Other Development: rates vary
Murfreesboro	Impact Fee	<ul style="list-style-type: none"> - Single Family: Lesser of \$1.50 per sq. ft. of gross floor area or \$10,952 (the per sq. ft. rate is set to increase to \$2 on July 1, 2024) - Multifamily: \$7,624 per unit - Other Development: rates vary
Smyrna	Impact Fee	<ul style="list-style-type: none"> - Single Family Detached: \$3,870 per dwelling (\$3,481 roads, \$1,406 parks, \$899 safety) - Multifamily: \$1,636 per dwelling (\$1,274 roads, \$1,070 parks, \$653 safety) - Other Development: rates vary
Trousdale	Adequate Facilities Tax	\$1,000 per dwelling other sources \$1 per sq. ft. (residential only)

County or City	Name of Fee or Tax	Rates
Williamson	Impact Fee	- Residential Inside Franklin Sp. Sch. Dist.: \$602 if 1,399 sq. ft. or less, \$1,868 if 1,400 to 1,899 sq. ft., \$2,843 if 1,900 to 2,399 sq. ft., \$3,632 if 2,400 to 2,899 sq. ft., \$4,296 if 2,900 to 3,399 sq. ft., \$4,877 if 3,400 sq. ft. or more - Residential Outside Franklin Sp. Sch. Dist.: \$1,681 if 1,399 sq. ft. or less, \$4,864 if 1,400 to 1,899 sq. ft., \$7,305 if 1,900 to 2,399 sq. ft., \$9,285 if 2,400 to 2,899 sq. ft., \$10,948 if 2,900 to 3,399 sq. ft., \$12,399 if 3,400 sq. ft. or more
	Adequate School Facilities Tax	\$1 per gross sq. ft. (residential only)
	Adequate Facilities Tax	- Residential: \$1 per gross sq. ft. - Commercial: \$0.34 per gross sq. ft.
Brentwood	Construction Impact Fee	Single Family detached: \$6,255 per dwelling Single Family attached: \$4,850 per dwelling Senior Adult Housing detached: \$2,825 per dwelling Senior Adult Housing attached: \$2,450 per dwelling Other Development: rates vary
Fairview	Adequate Facilities Tax	- Residential: \$0.25 per sq. ft. - Non-residential: \$0.50 per sq. ft.

County or City	Name of Fee or Tax	Rates
Franklin	Adequate Facilities Tax	<ul style="list-style-type: none"> - Single Family detached: \$0.89 per gross sq. ft. - Other residential: \$0.71 per gross sq. ft. - Non-residential: \$1.18 per gross sq. ft.
	Construction Impact Fee	<ul style="list-style-type: none"> - Single Family detached: \$8,251 per dwelling - Multifamily: \$5,233 per dwelling - Mobile Home Park: \$3,930 per dwelling - Congregate Care Facility: \$1,836 per dwelling - Other Development: rates vary
Nolensville	Adequate Facilities Tax	<ul style="list-style-type: none"> - Residential: \$1 per gross sq. ft. of floor area - Non-residential: \$2 per gross sq. ft. of floor area
	Impact Fee	<ul style="list-style-type: none"> - Single Family Detached: \$5,928 per dwelling - Multifamily: \$3,320 per dwelling - Other Development: rates vary
Wilson	Adequate Facilities Tax	<ul style="list-style-type: none"> - Residential: \$5,000 per unit - Non-residential: rate varies by square footage with minimum of \$5,000
Mt. Juliet	Residential Construction Impact Fee	\$0.50 per gross sq. ft. (residential only)

Source: Commission staff analysis of local laws and regulations.

Appendix C: Property Tax Increases Required to Match Impact Fee and Development Tax Collections

County or County	Total Impact Fee and Development Tax Revenue Reported (Unadjusted) 2022	2022 Property Tax Rate	1 Cent Levy from Total Assessment (at 95% Collections)	Increase in Property Tax Rate per \$100 Assessed Value to Equal Impact Fee and Development Tax Revenue
Bedford	\$781,039	2.33	\$131,313	\$0.06
Cannon	\$92,338	2.46	\$27,686	\$0.03
Cheatham	\$1,133,698	2.48	\$109,349	\$0.10
Kingston Springs	\$10,919	0.77	\$9,459	\$0.01
Pegram	\$6,749	0.48	\$5,743	\$0.01
Dickson	\$1,228,671	2.35	\$146,641	\$0.08
Fayette	\$928,587	1.29	\$139,563	\$0.07
Hickman	\$294,480	2.33	\$52,546	\$0.06
Jefferson	\$1,520,746	2.19	\$135,328	\$0.11
Loudon	\$3,308,441	1.52	\$229,289	\$0.14
Macon	\$968,873	2.4	\$39,713	\$0.24
Marshall	\$886,604	1.82	\$106,293	\$0.08
Maury	\$3,733,279	1.91	\$383,911	\$0.10
Columbia	\$417,740	0.83	\$147,319	\$0.03
Spring Hill*	\$4,846,413	0.74	\$199,570	\$0.24
Montgomery	\$2,983,940	2.99	\$513,124	\$0.06
Robertson	\$2,485,980	2.58	\$189,687	\$0.13
White House	\$495,705	1.29	\$23,257	\$0.21
Portland*	\$105,590	1.06	\$43,513	\$0.02
Rutherford	\$5,484,390	1.62	\$1,447,448	\$0.04
LaVergne	\$338,666	0.54	\$157,735	\$0.02
Smyrna	\$2,696,315	0.53	\$254,775	\$0.11
Sumner	\$3,440,718	2.26	\$643,909	\$0.05
Trousdale	\$162,050	1.94	\$31,379	\$0.05
Williamson	\$30,860,909	1.88	\$1,744,331	\$0.18
Brentwood	\$1,077,827	0.29	\$425,718	\$0.03
Fairview	\$343,542	0.88	\$32,533	\$0.11
Franklin	\$15,826,819	1.36	\$700,216	\$0.23
Nolensville	\$3,012,386	0.29	\$72,506	\$0.42
Wilson	\$16,936,412	1.91	\$651,318	\$0.26
Lebanon	\$2,953,338	0.69	\$189,095	\$0.16
Mt. Juliet	\$991,268	0.11	\$192,592	\$0.05

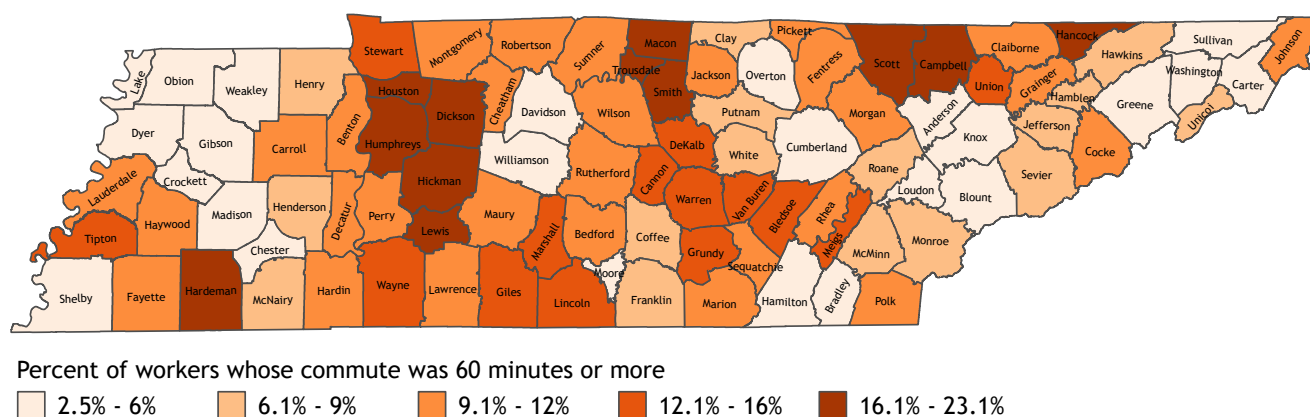
Source: Staff calculations based on Tennessee Comptroller of the Treasury 2022; and email from Donna Ryan, chief deputy trustee, Williamson County Trustee's Office, August 8, 2023.

Appendix D: Housing + Transportation Indexes, Commuting, and Transportation Costs

The Commission based its housing and transportation (H+T) index analysis on the H+T index developed by the Center for Neighborhood Technology, which estimates housing and transportation costs as a percentage of average total income. As previously mentioned, one common measure of affordability is that housing costs not exceed 30% of a household's pre-tax income. The Center for Neighborhood Technology notes that, by this measure, 55% of US neighborhoods could be considered affordable for the typical household; however, because transportation costs are often a household's second-largest expenditure, once those are factored in alongside housing costs—and assuming that housing and transportation costs combined should not exceed 45% of income—the number of affordable neighborhoods falls to 26%.⁴⁰⁹

Stakeholders have expressed an increasing need for workforce housing in Tennessee, as workers, especially those in the hospitality industry, cannot afford to live where they work.⁴¹⁰ The American Community Survey reported in its 2022 5-year estimates that the average commute time for Tennesseans was 25.5 minutes, a 4.1% increase (or one minute daily) from 2015.⁴¹¹ That one minute increase in the state equates to a loss of 13.4 million person-hours of potential productivity a year.⁴¹² The increase in commute time is especially pronounced in some of Tennessee's more rural counties, with Anderson, Campbell, Hardeman, Houston, Lewis, Rhea, Smith, and Unicoi counties experiencing a more than 15% increase since 2015 and Trousdale and Humphreys counties experiencing an increase of more than 30%.⁴¹³ These counties also have a notably higher Housing Affordability Index (HAI) score (see map 4 on page 29) than their surrounding counties—meaning that these counties are more affordable to purchase a house in based on the average household income. Map 5 shows the percent of workers in each Tennessee county whose commute is 60 minutes or more.

Map 5. Workers with a Commute Time of 60 Minutes or More by County, 2022



Source: US Census 2022.

⁴⁰⁹ Center for Neighborhood Technology "Housing + Transportation Index."

⁴¹⁰ Interviews with Ken Moore, mayor, and Vernon Gerth, assistant city administrator, City of Franklin, August 1, 2023; and Chad Jenkins, deputy director, Tennessee Municipal League, August 22, 2023.

⁴¹¹ Commission staff calculations based on US Census Bureau 2015 and US Census Bureau 2023b.

⁴¹² That is one additional minute per day with 250 commuting days per year over 3,213,248 workers who commute in the state.

⁴¹³ Commission staff calculations based on US Census Bureau 2015 and US Census Bureau 2023b.

Housing and transportation costs combined are a better indicator of household expenses than either measure alone.⁴¹⁴ When combined, it becomes clear that households with access to good transportation can more comfortably afford their home, while housing in an outlying suburb or rural area can be more expensive after accounting for transportation costs. Thus, there is an inverse relationship between transportation and housing expenses—when one falls, the other rises (see appendix F for housing and transportation costs by county).

In recognition of this, there have been some efforts to formally include transportation costs when examining housing affordability. THDA uses an H+T index in an effort to transition to a more holistic interpretation of housing affordability, and there has been a growing movement towards counting both housing and transportation costs together.⁴¹⁵ Illinois' H+T Affordability Index Act adopted into law a 45% H+T affordability measure with bipartisan support to be used by government agencies for both financing and siting decisions.⁴¹⁶ The Illinois General Assembly found that

Affordability is enhanced by locating residential units that have been thoughtfully planned to lessen sprawl in mixed-use, transit-rich communities near shopping, schools, and work, and that residents of communities with low transportation costs benefit from using transit for the mobility required to undertake activities associated with daily life; residents of these types of communities own fewer cars and drive them shorter distances, thereby reducing environmental impacts and lowering their cost of living.⁴¹⁷

Similarly, the city of El Paso, Texas, adopted a 50% H+T affordability standard for city funding and policy decisions.⁴¹⁸ The Federal Low-Income Housing Tax Credit (LIHTC) allocations and HUD's Sustainable Communities Initiative grants can also use an H+T Affordability Index in their determinations. Some states use such H+T metrics in allocating LIHTC, but Tennessee does not.⁴¹⁹

⁴¹⁴ Haas 2023.

⁴¹⁵ Interview with Jeremy Heidt, director of government affairs, and Dhathri Chunduru, director of research and planning, Tennessee Housing Development Agency, July 10, 2023.

⁴¹⁶ Illinois Compiled Statutes 20-25/1 et seq.

⁴¹⁷ Illinois Compiled Statutes 20-25/5.

⁴¹⁸ Guerra and Kirschen 2016.

⁴¹⁹ Tennessee Housing Development Agency 2022.

Appendix E: Housing Vacancy Data for Tennessee Counties

County	Percent of Housing Units That Are Vacant (Vacancy Rate)	Homeowner Vacancy Rate	Rental Vacancy Rate	Available Housing Vacancy Rate
Anderson	11.5%	0.9%	3.9%	1.8%
Bedford	6.8%	0.3%	7.2%	2.4%
Benton	21.1%	0.7%	5.6%	2.0%
Bledsoe	17.2%	1.3%	6.8%	2.4%
Blount	11.0%	1.2%	3.6%	1.8%
Bradley	8.0%	0.9%	3.7%	1.8%
Campbell	19.4%	2.5%	9.1%	4.8%
Cannon	9.0%	0.0%	1.6%	0.4%
Carroll	15.8%	1.6%	1.7%	1.7%
Carter	14.1%	1.1%	4.2%	2.0%
Cheatham	6.9%	1.4%	0.5%	1.2%
Chester	15.5%	0.0%	0.0%	0.0%
Claiborne	12.2%	2.4%	5.1%	3.2%
Clay	23.8%	0.0%	5.0%	1.1%
Cocke	18.4%	2.3%	8.0%	4.0%
Coffee	9.1%	0.8%	3.7%	1.8%
Crockett	11.5%	0.3%	6.3%	2.2%
Cumberland	11.9%	1.4%	6.6%	2.6%
Davidson	9.3%	1.1%	7.5%	4.1%
Decatur	33.7%	3.4%	8.7%	4.6%
DeKalb	15.6%	0.6%	3.4%	1.5%
Dickson	10.6%	0.6%	6.3%	1.8%
Dyer	10.1%	1.2%	5.0%	2.7%
Fayette	7.6%	0.4%	2.4%	0.8%
Fentress	17.4%	2.0%	6.8%	3.1%
Franklin	14.2%	0.2%	1.1%	0.4%
Gibson	11.0%	1.6%	4.4%	2.6%
Giles	18.6%	0.8%	3.2%	1.5%
Grainger	19.5%	1.3%	7.6%	2.8%
Greene	14.0%	1.4%	7.8%	3.1%
Grundy	20.1%	1.2%	10.4%	2.9%
Hamblen	8.5%	1.3%	5.6%	2.8%
Hamilton	9.0%	1.2%	4.5%	2.4%
Hancock	22.8%	0.8%	3.7%	1.5%
Hardeman	15.8%	2.8%	2.4%	2.7%
Hardin	27.4%	0.0%	1.3%	0.4%

County	Percent of Housing Units That Are Vacant (Vacancy Rate)	Homeowner Vacancy Rate	Rental Vacancy Rate	Available Housing Vacancy Rate
Hawkins	16.0%	2.1%	8.7%	3.6%
Haywood	13.0%	3.5%	5.1%	4.2%
Henderson	16.8%	1.5%	8.6%	3.6%
Henry	22.6%	1.4%	6.8%	2.8%
Hickman	15.7%	0.9%	2.3%	1.2%
Houston	23.5%	0.6%	4.6%	1.4%
Humphreys	24.3%	2.8%	9.8%	4.4%
Jackson	21.7%	0.5%	5.1%	1.3%
Jefferson	16.4%	0.9%	5.9%	2.2%
Johnson	21.4%	1.4%	8.5%	3.2%
Knox	8.1%	1.3%	5.2%	2.7%
Lake	19.7%	4.0%	7.4%	5.9%
Lauderdale	14.8%	1.7%	7.3%	3.9%
Lawrence	11.7%	1.4%	3.8%	2.0%
Lewis	10.7%	0.9%	6.5%	2.1%
Lincoln	10.6%	0.8%	0.4%	0.7%
Loudon	9.3%	1.1%	5.5%	2.0%
McMinn	11.3%	1.7%	3.9%	2.3%
McNairy	21.1%	0.0%	1.4%	0.3%
Macon	14.3%	0.0%	7.6%	2.3%
Madison	10.4%	1.5%	7.4%	3.8%
Marion	14.4%	1.8%	5.6%	2.7%
Marshall	9.3%	0.6%	7.0%	2.1%
Maury	8.9%	1.0%	9.5%	3.5%
Meigs	14.6%	1.6%	2.2%	1.8%
Monroe	11.3%	1.7%	2.2%	1.8%
Montgomery	7.7%	1.2%	5.8%	3.0%
Moore	14.2%	0.9%	0.0%	0.7%
Morgan	17.0%	0.9%	5.3%	1.7%
Obion	12.5%	1.2%	3.8%	2.1%
Overton	14.8%	1.7%	4.3%	2.3%
Perry	38.6%	0.9%	9.6%	3.1%
Pickett	34.4%	0.1%	16.2%	3.4%
Polk	18.2%	1.3%	5.2%	2.2%
Putnam	7.8%	0.9%	4.1%	2.2%

County	Percent of Housing Units That Are Vacant (Vacancy Rate)	Homeowner Vacancy Rate	Rental Vacancy Rate	Available Housing Vacancy Rate
Rhea	16.0%	0.3%	3.0%	1.1%
Roane	13.8%	1.6%	2.6%	1.9%
Robertson	5.4%	0.9%	3.6%	1.6%
Rutherford	7.1%	1.0%	7.5%	3.4%
Scott	12.4%	1.8%	12.1%	4.9%
Sequatchie	14.3%	0.6%	15.3%	4.4%
Sevier	32.7%	1.2%	25.0%	9.4%
Shelby	10.8%	0.8%	7.6%	4.0%
Smith	10.5%	0.0%	2.7%	0.7%
Stewart	25.1%	0.8%	0.4%	0.7%
Sullivan	10.7%	1.4%	3.0%	1.9%
Sumner	6.0%	1.1%	6.6%	2.7%
Tipton	7.0%	0.9%	6.6%	2.4%
Trousdale	5.9%	0.7%	2.9%	1.2%
Unicoi	12.4%	1.4%	2.2%	1.6%
Union	21.4%	1.6%	10.6%	3.5%
Van Buren	16.0%	2.6%	10.7%	4.3%
Warren	12.3%	1.5%	4.0%	2.2%
Washington	8.7%	0.8%	3.3%	1.7%
Wayne	20.0%	0.7%	9.7%	2.6%
Weakley	12.5%	0.4%	3.2%	1.4%
White	10.8%	1.8%	0.3%	1.4%
Williamson	3.9%	0.5%	5.7%	1.6%
Wilson	6.7%	0.5%	6.8%	2.0%

Source: Commission staff calculations of US Census Bureau American Community Survey 2022 5-year estimates.

Note: The overall vacancy rate counts all housing units and simply shows what percentage were reported to be unoccupied in the survey. This can capture housing units that are vacant, but not available for homebuyers or renters, like vacation homes, short-term rentals, or housing that is in disrepair and has been abandoned. The homeowner vacancy rate counts only those units that are either occupied by their owners and those that are unoccupied but for sale or just sold, giving an indication of how much housing inventory is available for would-be homebuyers. Similarly, the rental vacancy rate counts units that are currently rented or available for rent. The available housing vacancy rate counts the homeowner and rental vacancy numbers together to give an estimate of how much housing in a county might be available for occupation.

Appendix F: Housing Costs and Population Data by County in Tennessee

	Median Home Price, New and Existing Homes, in 2022	Ratio of Median Price to Median Household Income	Home-ownership Rate	Percentage of Households Cost-Burdened	Housing Costs as a Percentage of Income	Transportation Costs as a Percentage of Income	Projected Change in Population, 2023-2030
Tennessee	\$325,000	5.1	67%	26%	24%	25%	357,587
Anderson	\$247,964	4.1	70%	23%	23%	26%	1,658
Bedford	\$290,500	4.8	70%	26%	24%	32%	3,898
Benton	\$139,750	2.9	74%	18%	28%	37%	-20
Bledsoe	\$193,500	3.7	81%	19%	26%	35%	606
Blount	\$336,500	4.7	76%	21%	25%	27%	8,232
Bradley	\$273,500	4.5	68%	24%	25%	29%	5,941
Campbell	\$210,000	4.4	67%	23%	19%	27%	-781
Cannon	\$264,000	4.6	77%	19%	17%	26%	481
Carroll	\$125,000	2.5	75%	20%	24%	34%	-619
Carter	\$199,000	4.1	73%	21%	22%	30%	-1,454
Cheatham	\$350,000	4.5	81%	19%	22%	25%	937
Chester	\$183,000	3.2	77%	16%	25%	32%	199
Claiborne	\$200,000	4.7	72%	23%	27%	36%	443
Clay	\$140,000	3.5	79%	17%	30%	44%	-15
Cocke	\$210,000	4.7	71%	25%	27%	37%	409
Coffee	\$279,900	4.9	69%	23%	23%	29%	2,603
Crockett	\$134,500	2.3	69%	22%	23%	33%	-101
Cumberland	\$275,000	4.9	79%	20%	24%	30%	3,881
Davidson	\$429,945	6	54%	34%	25%	20%	33,672
Decatur	\$144,750	3	78%	20%	28%	36%	-93
DeKalb	\$254,000	5.4	69%	28%	23%	33%	919
Dickson	\$315,000	4.6	80%	19%	20%	25%	3,288
Dyer	\$140,000	2.6	63%	26%	24%	32%	50
Fayette	\$339,900	4.2	82%	21%	29%	31%	2,852
Fentress	\$229,489	4.8	77%	20%	23%	40%	197
Franklin	\$275,000	4.7	76%	24%	24%	30%	515
Gibson	\$175,000	3.2	66%	24%	24%	31%	486
Giles	\$196,500	3.5	73%	20%	23%	31%	-303
Grainger	\$224,900	4.8	77%	23%	24%	33%	415
Greene	\$214,000	4.1	75%	19%	25%	33%	515
Grundy	\$222,450	4.6	84%	19%	23%	37%	-569

	Median Home Price, New and Existing Homes, in 2022	Ratio of Median Price to Median Household Income	Home-ownership Rate	Percentage of Households Cost-Burdened	Housing Costs as a Percentage of Income	Transportation Costs as a Percentage of Income	Projected Change in Population, 2023-2030
Hamblen	\$235,000	4.7	67%	24%	23%	30%	1,999
Hamilton	\$331,678	4.8	65%	26%	27%	26%	17,597
Hancock	\$134,900	4.2	78%	22%	35%	45%	-271
Hardeman	\$137,375	3.2	71%	29%	27%	36%	-554
Hardin	\$200,000	4.3	76%	21%	23%	35%	-179
Hawkins	\$192,950	3.6	78%	20%	24%	31%	-310
Haywood	\$135,900	3	58%	32%	27%	37%	-824
Henderson	\$165,500	3.2	71%	21%	24%	34%	395
Henry	\$163,500	3.4	75%	21%	27%	34%	-44
Hickman	\$209,500	3.8	79%	21%	26%	35%	717
Houston	\$190,000	3.7	80%	21%	27%	36%	136
Humphreys	\$185,000	3.4	79%	21%	24%	33%	84
Jackson	\$179,900	4.2	83%	17%	24%	36%	193
Jefferson	\$277,148	4.6	75%	20%	26%	32%	2,379
Johnson	\$215,000	4.5	76%	17%	27%	38%	-295
Knox	\$325,000	4.7	65%	26%	26%	25%	29,074
Lake	\$75,000	2.3	46%	21%	23%	35%	-101
Lauderdale	\$123,250	2.6	62%	27%	24%	35%	-247
Lawrence	\$199,900	3.9	75%	23%	25%	34%	607
Lewis	\$195,000	4.4	79%	24%	28%	38%	-40
Lincoln	\$198,750	3.2	76%	20%	25%	32%	752
Loudon	\$374,715	5	82%	19%	24%	27%	4,510
Macon	\$251,000	4.9	72%	24%	15%	25%	1,801
Madison	\$219,900	4	62%	31%	27%	29%	463
Marion	\$215,000	3.7	78%	19%	20%	29%	-254
Marshall	\$300,000	4.6	77%	22%	23%	30%	2,367
Maury	\$385,500	5.4	72%	25%	21%	23%	10,372
McMinn	\$200,000	3.4	74%	20%	26%	32%	1,394
McNairy	\$145,000	3.1	79%	19%	27%	38%	340
Meigs	\$250,000	4.2	77%	20%	24%	31%	392
Monroe	\$239,000	4.6	72%	23%	27%	34%	1,622
Montgomery	\$310,000	4.6	63%	28%	26%	28%	29,543
Moore	\$268,000	3.9	84%	28%	27%	32%	87
Morgan	\$172,500	3.3	82%	22%	21%	30%	338

	Median Home Price, New and Existing Homes, in 2022	Ratio of Median Price to Median Household Income	Home-ownership Rate	Percentage of Households Cost-Burdened	Housing Costs as a Percentage of Income	Transportation Costs as a Percentage of Income	Projected Change in Population, 2023-2030
Obion	\$135,500	2.7	66%	20%	26%	35%	-693
Overton	\$210,000	4.5	79%	19%	25%	36%	712
Perry	\$148,000	2.6	76%	17%	21%	36%	179
Pickett	\$239,000	5.4	82%	15%	25%	36%	-145
Polk	\$216,750	4	79%	16%	22%	31%	422
Putnam	\$294,000	5.4	61%	29%	29%	32%	6,259
Rhea	\$238,950	4.3	74%	16%	28%	34%	1,184
Roane	\$260,000	3.9	77%	21%	23%	28%	-245
Robertson	\$360,000	4.8	76%	23%	23%	25%	5,096
Rutherford	\$405,000	5.2	65%	27%	23%	23%	57,383
Scott	\$165,000	4.2	72%	24%	25%	36%	-27
Sequatchie	\$220,000	4.1	77%	21%	21%	30%	863
Sevier	\$349,950	5.8	72%	24%	25%	31%	8,302
Shelby	\$285,000	4.8	55%	34%	28%	25%	9,624
Smith	\$250,000	4.3	75%	21%	18%	25%	658
Stewart	\$180,000	3.1	81%	20%	24%	31%	218
Sullivan	\$212,000	3.9	73%	23%	25%	29%	894
Sumner	\$415,000	5.1	73%	27%	25%	24%	20,884
Tipton	\$259,130	3.7	76%	21%	26%	31%	1,739
Trousdale	\$310,000	5	77%	30%	19%	26%	536
Unicoi	\$188,000	3.8	73%	21%	25%	30%	55
Union	\$268,450	4.7	81%	18%	21%	28%	47
Van Buren	\$218,000	4.9	80%	19%	25%	37%	-123
Warren	\$225,000	4.2	71%	21%	24%	35%	437
Washington	\$270,000	4.6	64%	24%	28%	29%	5,748
Wayne	\$120,000	2.4	80%	20%	23%	36%	-427
Weakley	\$145,000	3	65%	21%	24%	35%	-72
White	\$231,800	4.8	76%	23%	25%	36%	1,346
Williamson	\$835,000	6.6	80%	24%	38%	23%	43,269
Wilson	\$438,000	4.9	77%	24%	26%	24%	21,177

Source: Commission staff calculations based on Boyd Center for Business and Economic Research 2022a; Center for Neighborhood Technology 2022a; Tennessee Housing Development Agency 2023c; and US Census Bureau 2023b.

Appendix G: Tennessee Counties' Housing Stock by Type

	Total Housing Stock	Detached Single-Family Homes	Attached Single-Family Homes	Housing Units in Duplexes	Housing Units in Triplexes and Quadplexes	Housing Units in Midrise Buildings (5-19 Unit Structures)	Housing Units in Large Buildings (20+ Units)	Mobile Homes, Boats, RVs, etc.
Tennessee	3,050,850	68.6%	3.6%	2.5%	3.2%	8.0%	5.4%	8.7%
Anderson	35,326	69.6%	3.0%	2.1%	3.4%	7.3%	4.4%	10.2%
Bedford	19,813	74.8%	0.8%	3.0%	1.8%	5.1%	1.4%	13.1%
Benton	8,537	67.8%	0.3%	0.5%	0.5%	1.7%	0.7%	28.4%
Bledsoe	5,860	68.7%	0.5%	0.3%	1.6%	1.8%	0.1%	26.9%
Blount	60,058	76.8%	1.7%	1.1%	2.3%	4.2%	2.6%	11.3%
Bradley	44,924	69.6%	3.0%	4.0%	4.8%	5.6%	2.6%	10.4%
Campbell	20,155	70.8%	1.0%	1.9%	3.4%	5.2%	2.2%	15.5%
Cannon	6,338	78.9%	0.6%	0.5%	1.0%	2.0%	0.5%	16.6%
Carroll	13,117	73.2%	0.3%	3.4%	2.8%	2.4%	1.1%	16.7%
Carter	27,881	68.0%	1.1%	2.1%	4.4%	4.5%	1.0%	18.9%
Cheatham	16,864	78.9%	2.2%	1.0%	0.9%	2.5%	3.1%	11.4%
Chester	7,224	76.9%	0.4%	3.4%	0.3%	1.8%	1.0%	16.2%
Claiborne	15,358	66.4%	1.4%	2.5%	1.4%	2.9%	0.4%	25.0%
Clay	3,981	64.3%	0.4%	0.6%	1.3%	2.4%	1.0%	30.0%
Cocke	17,833	63.8%	0.2%	2.9%	2.3%	1.9%	0.2%	28.6%
Coffee	24,958	71.2%	1.7%	3.6%	1.4%	6.3%	2.8%	13.1%
Crockett	6,109	79.4%	0.7%	4.0%	0.3%	1.4%	0.1%	14.0%
Cumberland	30,555	73.2%	2.0%	2.0%	3.5%	3.8%	0.7%	14.8%
Davidson	333,753	51.3%	8.7%	3.3%	3.4%	14.7%	17.2%	1.4%
Decatur	6,584	75.5%	0.2%	1.2%	0.2%	1.0%	0.6%	21.2%
DeKalb	9,903	73.5%	1.5%	3.0%	2.7%	2.4%	0.3%	16.5%
Dickson	22,742	77.2%	1.9%	2.2%	1.3%	4.3%	0.6%	12.6%
Dyer	16,278	78.3%	0.2%	4.7%	4.5%	4.3%	1.6%	6.4%
Fayette	17,772	83.3%	1.2%	1.2%	1.1%	1.8%	0.3%	11.2%
Fentress	9,206	72.8%	0.2%	1.2%	2.7%	3.0%	0.3%	19.7%
Franklin	19,565	81.5%	1.4%	5.2%	1.2%	1.1%	0.3%	9.3%
Gibson	22,403	72.4%	1.4%	5.8%	2.6%	3.2%	1.7%	12.9%
Giles	13,990	71.4%	1.4%	2.6%	1.5%	3.5%	1.4%	18.3%
Grainger	11,650	63.0%	0.4%	0.2%	1.5%	2.9%	0.4%	31.8%
Greene	32,300	68.9%	0.8%	1.5%	2.0%	3.2%	1.3%	22.4%
Grundy	6,216	71.5%	0.3%	0.8%	1.7%	2.9%	0.0%	22.8%
Hamblen	27,565	71.3%	1.7%	5.3%	4.0%	6.0%	2.6%	9.3%
Hamilton	163,534	68.3%	3.9%	5.3%	2.5%	8.6%	8.3%	3.1%
Hancock	3,666	67.7%	0.5%	1.2%	3.1%	2.5%	0.1%	24.9%

	Total Housing Stock	Detached Single-Family Homes	Attached Single-Family Homes	Housing Units in Duplexes	Housing Units in Triplexes and Quadplexes	Housing Units in Midrise Buildings (5-19 Unit Structures)	Housing Units in Large Buildings (20+ Units)	Mobile Homes, Boats, RVs, etc.
Hardeman	10,699	74.3%	0.7%	1.5%	1.0%	0.4%	0.4%	21.6%
Hardin	15,017	76.2%	0.7%	1.2%	2.5%	1.3%	0.9%	17.2%
Hawkins	27,138	67.8%	0.7%	1.3%	1.6%	5.3%	1.1%	22.2%
Haywood	8,274	73.4%	2.4%	4.8%	3.6%	4.7%	0.6%	10.5%
Henderson	12,901	69.9%	0.2%	3.6%	2.8%	1.0%	0.6%	22.0%
Henry	16,976	63.5%	1.5%	3.0%	1.2%	2.8%	1.4%	26.6%
Hickman	10,503	73.4%	0.3%	0.3%	1.1%	1.3%	0.9%	22.7%
Houston	3,957	74.9%	0.6%	1.3%	0.7%	1.3%	0.2%	21.1%
Humphreys	8,867	75.1%	0.2%	2.8%	0.4%	3.9%	0.9%	16.7%
Jackson	5,833	70.3%	0.2%	0.3%	0.8%	1.2%	0.9%	26.2%
Jefferson	24,890	66.9%	1.4%	1.9%	3.1%	3.0%	0.4%	23.4%
Johnson	8,741	71.9%	0.9%	1.2%	1.4%	4.0%	0.6%	20.0%
Knox	212,074	66.2%	5.5%	1.9%	3.1%	11.6%	7.6%	4.0%
Lake	2,508	63.9%	0.4%	8.9%	4.9%	12.1%	3.9%	5.9%
Lauderdale	10,707	74.5%	0.7%	4.1%	2.6%	3.5%	1.1%	13.5%
Lawrence	18,660	77.9%	1.3%	3.0%	1.6%	2.1%	1.7%	12.3%
Lewis	5,681	70.4%	0.8%	0.0%	0.3%	1.4%	0.4%	26.7%
Lincoln	16,002	78.3%	0.8%	2.6%	3.3%	1.6%	0.4%	12.9%
Loudon	24,780	81.9%	3.8%	1.2%	0.9%	2.3%	2.3%	7.5%
Macon	10,693	68.3%	0.0%	2.8%	2.7%	2.3%	0.4%	23.5%
Madison	43,748	71.9%	2.0%	4.0%	5.4%	8.1%	3.3%	5.2%
Marion	13,663	73.8%	0.9%	1.6%	1.3%	1.3%	0.4%	20.8%
Marshall	14,357	82.7%	0.8%	1.3%	1.8%	2.8%	1.1%	9.7%
Maury	43,464	72.9%	3.1%	3.4%	2.7%	7.9%	1.7%	8.4%
McMinn	23,933	71.3%	0.9%	3.3%	2.3%	3.3%	1.2%	17.8%
McNairy	12,274	79.1%	0.5%	1.1%	1.3%	0.4%	0.0%	17.5%
Meigs	6,087	62.5%	0.2%	1.0%	1.0%	0.2%	0.1%	34.9%
Monroe	21,383	66.7%	0.5%	2.3%	3.1%	2.2%	1.0%	24.1%
Montgomery	87,220	72.8%	2.8%	2.3%	6.2%	8.5%	3.2%	4.3%
Moore	2,981	86.2%	0.2%	0.2%	0.0%	2.3%	0.3%	10.7%
Morgan	8,546	70.9%	0.1%	0.6%	0.6%	1.7%	0.0%	26.0%
Obion	14,335	75.2%	1.5%	4.4%	3.4%	3.3%	0.8%	11.4%
Overton	10,353	77.7%	0.6%	1.0%	1.0%	0.5%	0.1%	19.2%
Perry	4,808	64.8%	0.3%	1.4%	0.5%	1.5%	0.0%	31.4%
Pickett	3,361	74.9%	0.0%	0.6%	0.6%	3.1%	0.4%	20.3%
Polk	8,681	69.6%	0.4%	0.7%	0.7%	2.8%	0.2%	25.7%
Putnam	35,507	65.2%	1.3%	3.7%	7.1%	11.7%	2.5%	8.4%
Rhea	15,175	68.0%	0.8%	3.8%	3.7%	2.0%	0.4%	21.2%

	Total Housing Stock	Detached Single-Family Homes	Attached Single-Family Homes	Housing Units in Duplexes	Housing Units in Triplexes and Quadplexes	Housing Units in Midrise Buildings (5-19 Unit Structures)	Housing Units in Large Buildings (20+ Units)	Mobile Homes, Boats, RVs, etc.
Roane	25,459	74.5%	2.1%	1.8%	2.6%	2.9%	2.2%	13.8%
Robertson	28,703	81.9%	1.8%	2.0%	1.5%	3.7%	1.4%	7.7%
Rutherford	131,808	67.5%	7.0%	1.4%	2.9%	11.9%	6.6%	2.8%
Scott	9,834	61.2%	0.4%	1.5%	1.8%	3.8%	1.0%	30.2%
Sequatchie	6,915	71.0%	1.4%	1.3%	2.6%	0.6%	0.1%	23.0%
Sevier	56,728	70.2%	1.7%	2.8%	2.1%	6.2%	5.5%	11.5%
Shelby	401,041	66.5%	4.5%	1.9%	5.5%	13.7%	6.8%	1.1%
Smith	8,577	73.7%	1.1%	0.9%	1.2%	3.3%	0.3%	19.4%
Stewart	6,695	75.5%	1.9%	1.3%	1.0%	1.1%	0.4%	18.9%
Sullivan	75,686	70.0%	2.3%	3.2%	3.6%	7.5%	2.3%	11.0%
Sumner	79,481	73.3%	3.4%	1.8%	2.2%	7.2%	5.7%	6.3%
Tipton	24,045	82.7%	0.8%	0.8%	2.3%	2.1%	1.0%	10.3%
Trousdale	3,776	72.0%	1.2%	1.6%	2.1%	0.6%	2.5%	20.0%
Unicoi	8,733	68.3%	2.1%	1.9%	3.3%	6.0%	0.7%	17.8%
Union	9,609	71.6%	1.4%	0.4%	0.1%	2.5%	0.0%	24.0%
Van Buren	2,896	68.4%	1.2%	1.5%	2.2%	0.3%	0.0%	26.5%
Warren	18,164	72.2%	1.7%	5.3%	2.5%	4.0%	1.2%	13.0%
Washington	60,904	63.8%	3.3%	3.1%	5.3%	10.4%	4.9%	9.1%
Wayne	7,184	68.2%	0.4%	0.7%	2.3%	1.2%	1.0%	26.2%
Weakley	15,002	69.7%	1.0%	5.3%	5.3%	4.1%	0.5%	14.1%
White	12,020	75.2%	0.4%	1.3%	1.0%	2.1%	0.4%	19.7%
Williamson	91,828	78.0%	5.7%	0.8%	1.4%	5.8%	6.9%	1.6%
Wilson	58,967	76.8%	3.7%	2.7%	1.5%	2.6%	5.5%	5.9%

Source: Commission staff calculations of US Census Bureau American Community Survey 2022 5-year estimates.

Appendix H: Age of Tennessee's Housing Stock by County

	1959 and earlier	1960-1989	1990 to present
Tennessee	18.6%	38.4%	43.1%
Anderson	31.2%	38.5%	30.3%
Bedford	19.9%	34.6%	45.4%
Benton	15.7%	42.9%	41.3%
Bledsoe	13.6%	32.8%	53.6%
Blount	18.7%	34.5%	46.8%
Bradley	13.7%	42.7%	43.6%
Campbell	16.5%	44.6%	39.0%
Cannon	22.2%	29.3%	48.4%
Carroll	22.1%	43.8%	34.1%
Carter	27.5%	39.6%	32.9%
Cheatham	12.5%	39.0%	48.5%
Chester	12.1%	38.8%	49.0%
Claiborne	13.3%	43.9%	42.8%
Clay	17.4%	45.7%	37.0%
Cocke	18.6%	39.8%	41.6%
Coffee	15.2%	42.3%	42.5%
Crockett	22.5%	45.4%	32.3%
Cumberland	7.0%	36.0%	57.0%
Davidson	20.3%	39.6%	40.2%
Decatur	18.0%	43.3%	38.8%
DeKalb	14.9%	42.5%	42.5%
Dickson	17.6%	39.6%	42.8%
Dyer	23.7%	46.2%	30.2%
Fayette	8.9%	32.2%	59.0%
Fentress	9.1%	42.5%	48.6%
Franklin	19.6%	40.8%	39.7%
Gibson	28.0%	40.1%	31.8%
Giles	18.6%	43.4%	38.1%
Grainger	15.7%	34.7%	49.7%
Greene	20.6%	40.0%	39.5%
Grundy	18.3%	40.6%	41.2%
Hamblen	16.5%	49.3%	34.2%
Hamilton	25.1%	39.7%	35.2%
Hancock	23.6%	37.7%	38.7%
Hardeman	19.5%	44.4%	36.1%
Hardin	11.9%	46.4%	41.7%
Hawkins	19.0%	39.1%	42.0%
Haywood	23.5%	49.5%	27.0%

	1959 and earlier	1960-1989	1990 to present
Henderson	13.3%	41.9%	44.7%
Henry	20.1%	42.1%	38.0%
Hickman	17.1%	41.3%	41.6%
Houston	20.7%	45.7%	33.6%
Humphreys	21.3%	40.6%	38.2%
Jackson	15.7%	43.5%	40.8%
Jefferson	16.8%	35.6%	47.5%
Johnson	22.5%	39.7%	37.8%
Knox	20.5%	38.7%	40.7%
Lake	23.9%	51.5%	24.8%
Lauderdale	18.9%	42.6%	38.6%
Lawrence	22.2%	42.3%	35.5%
Lewis	17.7%	35.9%	46.4%
Lincoln	19.4%	37.5%	43.1%
Loudon	19.1%	30.3%	50.7%
Macon	16.4%	33.9%	49.6%
Madison	19.1%	39.2%	41.7%
Marion	13.6%	45.1%	41.4%
Marshall	20.5%	32.0%	47.4%
Maury	16.9%	32.4%	50.6%
McMinn	21.3%	36.5%	42.2%
McNairy	14.7%	46.8%	38.5%
Meigs	8.3%	34.7%	57.2%
Monroe	11.2%	38.9%	49.8%
Montgomery	9.5%	30.8%	59.6%
Moore	16.1%	31.6%	52.2%
Morgan	20.7%	38.5%	40.8%
Obion	26.6%	45.4%	27.9%
Overton	18.3%	42.2%	39.5%
Perry	21.3%	39.3%	39.3%
Pickett	10.5%	38.7%	50.7%
Polk	16.8%	37.0%	46.2%
Putnam	11.9%	41.0%	47.1%
Rhea	12.0%	40.4%	47.5%
Roane	25.3%	41.7%	32.9%
Robertson	13.5%	34.8%	51.7%
Rutherford	6.7%	27.8%	65.5%
Scott	11.0%	40.1%	48.8%
Sequatchie	9.2%	27.8%	63.0%
Sevier	7.2%	34.7%	58.1%
Shelby	27.8%	42.0%	30.2%

	1959 and earlier	1960-1989	1990 to present
Smith	21.6%	36.6%	41.8%
Stewart	12.2%	42.8%	45.0%
Sullivan	28.5%	41.2%	30.3%
Sumner	8.5%	37.4%	54.2%
Tipton	11.6%	35.0%	53.5%
Trousdale	16.3%	45.8%	38.0%
Unicoi	30.0%	38.4%	31.6%
Union	10.3%	34.8%	55.0%
Van Buren	13.3%	48.1%	38.6%
Warren	19.7%	46.9%	33.3%
Washington	20.5%	34.9%	44.7%
Wayne	16.2%	42.9%	40.7%
Weakley	22.6%	43.7%	33.6%
White	17.5%	36.6%	45.9%
Williamson	4.4%	26.0%	69.6%
Wilson	8.1%	33.2%	58.7%

Source: Commission staff calculations of US Census Bureau American Community Survey 2022 5-year estimates.