

# San Antonio-New Braunfels Housing Affordability Outlook



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# San Antonio-New Braunfels Housing Affordability Outlook 1Q2022

## About this Report

Texas Real Estate Research Center economists continuously monitor many facets of both state and local housing markets. *San Antonio-New Braunfels Housing Affordability Outlook* summarizes significant housing activity and trends as related to affordability in the San Antonio-New Braunfels MSA. Home prices reflect single-family existing homes unless otherwise stated. This report does not seasonally adjust home prices.

This publication is designed to be a one-stop resource for information on housing affordability for potential homebuyers in the San Antonio-New Braunfels MSA. We hope you find them as useful as we do. Your feedback is always appreciated. Send comments and suggestions to [info@recenter.tamu.edu](mailto:info@recenter.tamu.edu).

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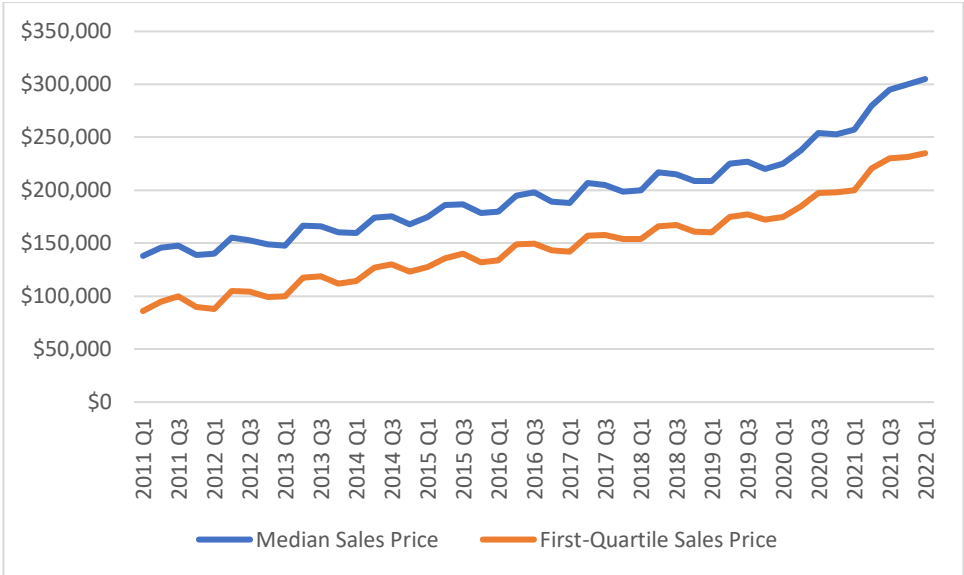


### Purchase Affordability

The first quarter saw a continued uptick in both the median sales price and first-quartile sales price for the San Antonio-New Braunfels MSA (Figure 1).<sup>1</sup> The year-over-year (YOY) growth in median sales price and first-quartile sales price in the San Antonio-New Braunfels MSA measured 18.7 percent and 17.5 percent, respectively, significantly higher than average YOY growth for the first quarter (Table 1). The median sales price measured \$305,000; the first-quartile sales price, \$235,000. Following years of generally sluggish growth, family income increased considerably. From 2021 to 2022, the median family income rose 12.7 percent (Table 2). However, as long as the rise in home prices continues to outpace the increase in income, purchase affordability, or the ability of a household to buy a home, will continue to diminish.

Meanwhile, mortgage interest rates remained low by historical standards, averaging 3.82 percent in 1Q2022 (Figure 2). All other things being equal, lower (higher) mortgage interest rates translate into lower (higher) monthly mortgage payments and ease (diminish) purchase affordability. The Federal Reserve is widely anticipated to continue to raise the federal funds rate over the near-term to reduce inflationary pressures, which will likely prompt additional increases in mortgage interest rates. The 30-year fixed-rate mortgage average in the U.S. increased nearly one percentage point in March, rising from 3.76 percent to 4.67 percent. For more information on the effect of mortgage interest rates on purchase affordability, please see “How Higher Interest Rates Affect Homebuying” at <https://assets.recenter.tamu.edu/Documents/Articles/2339.pdf>.

**Figure 1. Median and First-Quartile Sales Prices in the San Antonio-New Braunfels MSA**



Source: Texas Real Estate Research Center at Texas A&M University

<sup>1</sup> The first quartile reflects the lowest-priced 25 percent of homes sold in a particular geography. The first-quartile sales price represents the highest home price among those lowest-priced 25 percent of homes sold. If the price of the lowest 25 percent of homes sold ranges from \$100,000 to \$150,000, then the first-quartile sales price would be \$150,000.

**Table 1. Median Sales Price and First-Quartile Sales Price by Quarter**

Year	Median Home Price	YOY Change	First-Quartile Home Price	YOY Change
1Q2011	\$138,000		\$86,000	
1Q2012	\$140,000	1.4%	\$88,087	2.4%
1Q2013	\$147,600	5.4%	\$99,900	13.4%
1Q2014	\$159,900	8.3%	\$114,500	14.6%
1Q2015	\$174,500	9.1%	\$127,825	11.6%
1Q2016	\$180,000	3.2%	\$134,000	4.8%
1Q2017	\$187,900	4.4%	\$142,000	6.0%
1Q2018	\$200,000	6.4%	\$154,000	8.5%
1Q2019	\$209,000	4.5%	\$160,000	3.9%
1Q2020	\$225,000	7.7%	\$175,000	9.4%
1Q2021	\$257,000	14.2%	\$200,000	14.3%
<b>1Q2022</b>	<b>\$305,000</b>	<b>18.7%</b>	<b>\$235,000</b>	<b>17.5%</b>

Source: Texas Real Estate Research Center at Texas A&M University

**Table 2. Median Family Income by Year**

Year	Income for First-Time Homebuyers	YOY Change	Median Family Income	YOY Change
2011	\$47,900		\$59,900	
2012	\$48,650	1.6%	\$60,800	1.5%
2013	\$49,050	0.8%	\$61,300	0.8%
2014	\$47,050	-4.1%	\$58,800	-4.1%
2015	\$49,750	5.7%	\$63,400	7.8%
2016	\$49,700	-0.1%	\$62,100	-2.1%
2017	\$50,800	2.2%	\$63,500	2.3%
2018	\$53,450	5.2%	\$66,800	5.2%
2019	\$56,800	6.3%	\$71,000	6.3%
2020	\$57,600	1.4%	\$72,000	1.4%
2021	\$59,300	3.0%	\$74,100	2.9%
<b>2022</b>	<b>\$66,300</b>	<b>11.8%</b>	<b>\$83,500</b>	<b>12.7%</b>

Note: The income for first-time homebuyers reflects the income limit for low-income families, who earn no more than 80 percent of the median family income. This table reflects income figures for a four-person family.

Source: United States Department of Housing and Urban Development



**Figure 2. 30-Year Fixed Rate Mortgage Average in the United States**



Sources: Federal Reserve Economic Data and Freddie Mac

## Repeat Homebuyer

Purchase affordability edged slightly higher in 1Q2022, bolstered by strong growth in family income. For households earning the median family income for the San Antonio-New Braunfels MSA in 2022 (\$83,500), the median sales price for 1Q2022 was not affordable to them unless the home price-to-income multiplier exceeded 3.5 (Table 3). Only 30.5 percent of homes sold in 1Q2022 were affordable to households earning the median family income with a home price-to-income multiplier of 3 (Table 4). Households would have to earn upward of \$100,000 annually to be able to afford the median sales price (\$305,000) with a home price-to-income multiplier of 3.

**Table 3. Maximum Home Price Affordable by Family Income  
and Home Price-to-Income Multiplier**

		Home Purchasing Power							
	Family Income	2	2.5	3	3.5	4	4.5	5	5.5
Median Family Income	\$83,500	\$167,000	\$208,750	\$250,500	\$292,250	<b>\$334,000</b>	<b>\$375,750</b>	<b>\$417,500</b>	<b>\$459,250</b>
	<b>\$85,000</b>	\$170,000	\$212,500	\$255,000	\$297,500	<b>\$340,000</b>	<b>\$382,500</b>	<b>\$425,000</b>	<b>\$467,500</b>
	<b>\$90,000</b>	\$180,000	\$225,000	\$270,000	<b>\$315,000</b>	<b>\$360,000</b>	<b>\$405,000</b>	<b>\$450,000</b>	<b>\$495,000</b>
	<b>\$95,000</b>	\$190,000	\$237,500	\$285,000	<b>\$332,500</b>	<b>\$380,000</b>	<b>\$427,500</b>	<b>\$475,000</b>	<b>\$522,500</b>
	<b>\$100,000</b>	\$200,000	\$250,000	\$300,000	<b>\$350,000</b>	<b>\$400,000</b>	<b>\$450,000</b>	<b>\$500,000</b>	<b>\$550,000</b>
Workforce Households (120%)	\$100,200	\$200,400	\$250,500	\$300,600	<b>\$350,700</b>	<b>\$400,800</b>	<b>\$450,900</b>	<b>\$501,000</b>	<b>\$551,100</b>
	<b>\$105,000</b>	\$210,000	\$262,500	<b>\$315,000</b>	<b>\$367,500</b>	<b>\$420,000</b>	<b>\$472,500</b>	<b>\$525,000</b>	<b>\$577,500</b>
	<b>\$110,000</b>	\$220,000	\$275,000	<b>\$330,000</b>	<b>\$385,000</b>	<b>\$440,000</b>	<b>\$495,000</b>	<b>\$550,000</b>	<b>\$605,000</b>
	<b>\$115,000</b>	\$230,000	\$287,500	<b>\$345,000</b>	<b>\$402,500</b>	<b>\$460,000</b>	<b>\$517,500</b>	<b>\$575,000</b>	<b>\$632,500</b>
	<b>\$120,000</b>	\$240,000	\$300,000	<b>\$360,000</b>	<b>\$420,000</b>	<b>\$480,000</b>	<b>\$540,000</b>	<b>\$600,000</b>	<b>\$660,000</b>
	<b>\$125,000</b>	\$250,000	<b>\$312,500</b>	<b>\$375,000</b>	<b>\$437,500</b>	<b>\$500,000</b>	<b>\$562,500</b>	<b>\$625,000</b>	<b>\$687,500</b>
	<b>\$130,000</b>	\$260,000	<b>\$325,000</b>	<b>\$390,000</b>	<b>\$455,000</b>	<b>\$520,000</b>	<b>\$585,000</b>	<b>\$650,000</b>	<b>\$715,000</b>
	<b>\$135,000</b>	\$270,000	<b>\$337,500</b>	<b>\$405,000</b>	<b>\$472,500</b>	<b>\$540,000</b>	<b>\$607,500</b>	<b>\$675,000</b>	<b>\$742,500</b>
	<b>\$140,000</b>	\$280,000	<b>\$350,000</b>	<b>\$420,000</b>	<b>\$490,000</b>	<b>\$560,000</b>	<b>\$630,000</b>	<b>\$700,000</b>	<b>\$770,000</b>
	<b>\$145,000</b>	\$290,000	<b>\$362,500</b>	<b>\$435,000</b>	<b>\$507,500</b>	<b>\$580,000</b>	<b>\$652,500</b>	<b>\$725,000</b>	<b>\$797,500</b>
	<b>\$150,000</b>	\$300,000	<b>\$375,000</b>	<b>\$450,000</b>	<b>\$525,000</b>	<b>\$600,000</b>	<b>\$675,000</b>	<b>\$750,000</b>	<b>\$825,000</b>
	<b>\$155,000</b>	<b>\$310,000</b>	<b>\$387,500</b>	<b>\$465,000</b>	<b>\$542,500</b>	<b>\$620,000</b>	<b>\$697,500</b>	<b>\$775,000</b>	<b>\$852,500</b>
	<b>\$160,000</b>	<b>\$320,000</b>	<b>\$400,000</b>	<b>\$480,000</b>	<b>\$560,000</b>	<b>\$640,000</b>	<b>\$720,000</b>	<b>\$800,000</b>	<b>\$880,000</b>

Note: Figures in red indicate the maximum affordable home price meets or exceeds the current median sales price.

Source: Texas Real Estate Research Center at Texas A&M University



**Table 4. Percentage of Homes Sold in 1Q2022 Affordable by Family Income and Home Price-to-Income Multiplier**

		Home Purchasing Power							
	Family Income	2	2.5	3	3.5	4	4.5	5	5.5
<b>Median Family Income</b>	<b>\$83,500</b>	8.0%	16.4%	30.5%	45.6%	58.7%	69.6%	76.7%	82.0%
	<b>\$85,000</b>	8.7%	17.7%	32.0%	47.0%	61.1%	70.7%	78.0%	82.9%
	<b>\$90,000</b>	10.4%	21.7%	37.5%	54.1%	66.1%	75.0%	81.5%	85.0%
	<b>\$95,000</b>	12.7%	25.5%	43.5%	58.5%	70.5%	78.1%	83.7%	86.9%
	<b>\$100,000</b>	15.0%	30.5%	48.8%	64.0%	74.2%	81.5%	85.6%	88.8%
<b>Workforce Households (120%)</b>	<b>\$100,200</b>	15.0%	30.5%	48.8%	64.0%	74.2%	81.5%	85.7%	88.8%
	<b>\$105,000</b>	17.4%	34.3%	54.1%	67.5%	77.3%	83.3%	87.3%	89.9%
	<b>\$110,000</b>	20.0%	39.9%	58.3%	71.3%	80.0%	85.0%	88.8%	91.1%
	<b>\$115,000</b>	23.6%	43.9%	62.6%	74.4%	82.3%	86.5%	89.9%	92.0%
	<b>\$120,000</b>	26.6%	48.8%	66.1%	77.3%	83.9%	88.0%	91.0%	92.8%
	<b>\$125,000</b>	30.5%	52.8%	69.5%	79.5%	85.6%	89.3%	91.7%	93.4%
	<b>\$130,000</b>	33.8%	56.8%	72.1%	81.9%	86.8%	90.3%	92.6%	94.2%
	<b>\$135,000</b>	37.5%	59.9%	75.0%	83.3%	88.0%	91.1%	93.2%	94.8%
	<b>\$140,000</b>	41.8%	64.0%	77.3%	84.7%	89.3%	92.0%	93.9%	95.2%
	<b>\$145,000</b>	45.2%	66.3%	79.4%	86.0%	90.0%	92.6%	94.4%	95.7%
	<b>\$150,000</b>	48.8%	69.5%	81.5%	87.3%	91.0%	93.2%	95.0%	96.1%
	<b>\$155,000</b>	52.4%	71.5%	82.8%	88.1%	91.6%	93.6%	95.3%	96.6%
	<b>\$160,000</b>	55.4%	74.2%	83.9%	89.3%	92.2%	94.3%	95.8%	96.9%

Source: Texas Real Estate Research Center at Texas A&M University

## Mortgage Interest Rate

Holding home price constant, the total monthly mortgage payment increases as the mortgage interest rate increases (Table 5). At a 3.37 percent rate, this payment was \$2,095 for the median sales price in 1Q2022, more than twice the total monthly mortgage payment for the median-priced home in 1Q2011.

Table 6 shows the home price-to-income multiplier by mortgage interest rate. A 3.37 percent interest rate translates into a home price-to-income multiplier of 3.64<sup>2</sup>, meaning a household could afford a maximum home price of 3.64 times its annual income. The home price-to-income multiplier declines as the mortgage interest rate increases.

The income required to qualify for a loan with a 3.37 percent mortgage interest rate was \$83,792 for the median sales price in 1Q2022 (Table 7). An estimated 50.1 percent of current homeowners in the San Antonio-New Braunfels MSA could afford the median sales price in 1Q2022 with a 3.37 percent interest rate (Table 8), a decline of more than 23 percentage points from 1Q2011.

**Table 5. Total Monthly Mortgage Payment for Repeat Buyers by Mortgage Interest Rate**

Year	Home Price	Mortgage Interest Rate						
		3%	<b>3.37%</b>	3.5%	4%	4.5%	5%	5.5%
1Q2011	\$138,000	\$925	<b>\$948</b>	\$956	\$987	\$1,019	\$1,053	\$1,087
1Q2012	\$140,000	\$939	<b>\$962</b>	\$970	\$1,001	\$1,034	\$1,068	\$1,103
1Q2013	\$147,600	\$990	<b>\$1,014</b>	\$1,022	\$1,056	\$1,090	\$1,126	\$1,162
1Q2014	\$159,900	\$1,072	<b>\$1,098</b>	\$1,107	\$1,144	\$1,181	\$1,220	\$1,259
1Q2015	\$174,500	\$1,170	<b>\$1,199</b>	\$1,209	\$1,248	\$1,289	\$1,331	\$1,374
1Q2016	\$180,000	\$1,207	<b>\$1,236</b>	\$1,247	\$1,287	\$1,330	\$1,373	\$1,418
1Q2017	\$187,900	\$1,260	<b>\$1,291</b>	\$1,301	\$1,344	\$1,388	\$1,433	\$1,480
1Q2018	\$200,000	\$1,341	<b>\$1,374</b>	\$1,385	\$1,431	\$1,477	\$1,526	\$1,575
1Q2019	\$209,000	\$1,402	<b>\$1,435</b>	\$1,447	\$1,495	\$1,544	\$1,594	\$1,646
1Q2020	\$225,000	\$1,509	<b>\$1,545</b>	\$1,558	\$1,609	\$1,662	\$1,716	\$1,772
1Q2021	\$257,000	\$1,723	<b>\$1,765</b>	\$1,780	\$1,838	\$1,898	\$1,960	\$2,024
<b>1Q2022</b>	<b>\$305,000</b>	<b>\$2,045</b>	<b>\$2,095</b>	<b>\$2,112</b>	<b>\$2,182</b>	<b>\$2,253</b>	<b>\$2,327</b>	<b>\$2,402</b>

Note: Assumes a 30-year loan term, 80 percent loan-to-value (LTV) ratio, 30 percent debt-to-income (DTI) ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

<sup>2</sup> The home price-to-income multiplier assumes a 30-year loan term, 80 percent loan-to-value ratio, 30 percent DTI ratio, and property taxes and insurance of 4 percent.





**Table 6. Home Price-to-Income Multiplier for Repeat Buyers by Mortgage Interest Rate**

Mortgage Interest Rate	Home Price-to-Income Multiplier
3%	3.73
<b>3.37%</b>	<b>3.64</b>
3.5%	3.61
4%	3.50
4.5%	3.38
5%	3.28
5.5%	3.17

Note: Assumes a 30-year loan term, 80 percent LTV ratio, 30 percent DTI ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 7. Required Qualifying Income for Repeat Buyers by Mortgage Interest Rate**

Year	Home Price	Mortgage Interest Rate						
		3%	<b>3.37%</b>	3.5%	4%	4.5%	5%	5.5%
1Q2011	\$138,000	\$37,018	<b>\$37,913</b>	\$38,230	\$39,483	\$40,775	\$42,106	\$43,474
1Q2012	\$140,000	\$37,555	<b>\$38,462</b>	\$38,784	\$40,055	\$41,366	\$42,716	\$44,104
1Q2013	\$147,600	\$39,593	<b>\$40,550</b>	\$40,889	\$42,229	\$43,612	\$45,035	\$46,498
1Q2014	\$159,900	\$42,893	<b>\$43,929</b>	\$44,297	\$45,748	\$47,246	\$48,788	\$50,373
1Q2015	\$174,500	\$46,809	<b>\$47,940</b>	\$48,341	\$49,926	\$51,560	\$53,243	\$54,972
1Q2016	\$180,000	\$48,284	<b>\$49,451</b>	\$49,865	\$51,499	\$53,185	\$54,921	\$56,705
1Q2017	\$187,900	\$50,404	<b>\$51,621</b>	\$52,053	\$53,759	\$55,519	\$57,331	\$59,193
1Q2018	\$200,000	\$53,649	<b>\$54,946</b>	\$55,406	\$57,221	\$59,095	\$61,023	\$63,005
1Q2019	\$209,000	\$56,064	<b>\$57,418</b>	\$57,899	\$59,796	\$61,754	\$63,769	\$65,840
1Q2020	\$225,000	\$60,355	<b>\$61,814</b>	\$62,331	\$64,374	\$66,481	\$68,651	\$70,881
1Q2021	\$257,000	\$68,939	<b>\$70,605</b>	\$71,196	\$73,529	\$75,936	\$78,415	\$80,962
<b>1Q2022</b>	<b>\$305,000</b>	<b>\$81,815</b>	<b>\$83,792</b>	<b>\$84,493</b>	<b>\$87,262</b>	<b>\$90,119</b>	<b>\$93,060</b>	<b>\$96,083</b>

Note: The required qualifying income reflects the minimum income a household must earn to qualify for a mortgage loan for a particular home price. Assumes a 30-year loan term, 80 percent LTV ratio, 30 percent DTI ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 8. Percentage of Repeat Buyers Who Earned Required Qualifying Income by Mortgage Interest Rate**

Year	Home Price	Mortgage Interest Rate						
		3%	<b>3.37%</b>	3.5%	4%	4.5%	5%	5.5%
1Q2011	\$138,000	74.2%	<b>73.4%</b>	73.1%	72.0%	70.9%	69.7%	68.5%
1Q2012	\$140,000	74.3%	<b>73.5%</b>	73.2%	72.1%	71.0%	69.8%	68.6%
1Q2013	\$147,600	73.0%	<b>72.2%</b>	71.9%	70.7%	69.5%	68.3%	67.0%
1Q2014	\$159,900	70.6%	<b>69.7%</b>	69.4%	68.2%	66.9%	65.6%	64.3%
1Q2015	\$174,500	67.4%	<b>66.4%</b>	66.1%	64.8%	63.5%	62.2%	60.8%
1Q2016	\$180,000	67.4%	<b>66.4%</b>	66.1%	64.8%	63.5%	62.1%	60.8%
1Q2017	\$187,900	66.9%	<b>66.0%</b>	65.6%	64.3%	63.0%	61.6%	60.1%
1Q2018	\$200,000	65.6%	<b>64.6%</b>	64.3%	62.9%	61.5%	60.1%	58.6%
1Q2019	\$209,000	65.3%	<b>64.3%</b>	64.0%	62.6%	61.1%	59.6%	58.1%
1Q2020	\$225,000	63.0%	<b>61.9%</b>	61.6%	60.1%	58.5%	56.9%	55.3%
1Q2021	\$257,000	58.1%	<b>57.0%</b>	56.6%	55.0%	53.4%	51.9%	50.4%
<b>1Q2022</b>	<b>\$305,000</b>	<b>51.2%</b>	<b>50.1%</b>	<b>49.7%</b>	<b>48.0%</b>	<b>46.3%</b>	<b>44.6%</b>	<b>42.8%</b>

Note: Assumes a 30-year loan term, 80 percent LTV ratio, 30 percent DTI ratio, and additional costs of homeownership at 4 percent of home price. As repeat homebuyers constitute owner-occupied households, this table reflects income data solely for owner-occupied households.

Sources: American Community Survey, U.S. Census Bureau, and Texas Real Estate Research Center at Texas A&M University

### LTV Ratio

Holding home price constant, the total monthly mortgage payment increases as the LTV ratio increases (Table 9). For an 80 percent LTV ratio, the mortgage payment was \$2,095 for the median sales price in 1Q2022, more than twice the total monthly mortgage payment for the median-priced home in 1Q2011.

Table 10 shows the home price-to-income multiplier by LTV ratio. An 80 percent LTV ratio translates into a home price-to-income multiplier of 3.64<sup>3</sup>, meaning a household could afford a maximum home price of 3.64 times its annual income. The home price-to-income multiplier declines as the LTV ratio increases.

The income required to qualify for a loan with an 80 percent LTV ratio was \$83,792 for the median sales price in 1Q2022 (Table 11). An estimated 50.1 percent of current homeowners in

<sup>3</sup> The home price-to-income multiplier is based on a 30-year loan term, 3.37 percent mortgage interest rate, 30 percent DTI ratio, and property taxes and insurance of 4 percent. A 0.5 percent mortgage insurance premium is added to loans with a 90 percent or more LTV ratio.

the San Antonio-New Braunfels MSA could afford the median sales price in 1Q2022 with an 80 percent LTV ratio (Table 12), a decline of more than 23 percentage points from 1Q2011.

**Table 9. Total Monthly Mortgage Payment for Repeat Buyers by LTV Ratio**

Year	Home Price	LTV Ratio				
		80%	85%	90%	95%	100%
1Q2011	\$138,000	<b>\$948</b>	\$978	\$1,044	\$1,076	\$1,109
1Q2012	\$140,000	<b>\$962</b>	\$992	\$1,059	\$1,092	\$1,125
1Q2013	\$147,600	<b>\$1,014</b>	\$1,046	\$1,116	\$1,151	\$1,186
1Q2014	\$159,900	<b>\$1,098</b>	\$1,134	\$1,209	\$1,247	\$1,285
1Q2015	\$174,500	<b>\$1,199</b>	\$1,237	\$1,320	\$1,361	\$1,402
1Q2016	\$180,000	<b>\$1,236</b>	\$1,276	\$1,361	\$1,404	\$1,446
1Q2017	\$187,900	<b>\$1,291</b>	\$1,332	\$1,421	\$1,465	\$1,509
1Q2018	\$200,000	<b>\$1,374</b>	\$1,418	\$1,513	\$1,560	\$1,607
1Q2019	\$209,000	<b>\$1,435</b>	\$1,482	\$1,581	\$1,630	\$1,679
1Q2020	\$225,000	<b>\$1,545</b>	\$1,595	\$1,702	\$1,755	\$1,807
1Q2021	\$257,000	<b>\$1,765</b>	\$1,822	\$1,944	\$2,004	\$2,065
<b>1Q2022</b>	<b>\$305,000</b>	<b>\$2,095</b>	<b>\$2,162</b>	<b>\$2,307</b>	<b>\$2,378</b>	<b>\$2,450</b>

Note: Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 30 percent DTI ratio, and additional costs of homeownership at 4 percent of home price. A mortgage insurance premium of 0.5 percent is added to loans with an LTV ratio of 90 percent or more.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 10. Home Price-to-Income Multiplier for Repeat Buyers by LTV Ratio**

LTV Ratio	Home Price-to-Income Multiplier
<b>80%</b>	<b>3.64</b>
85%	3.53
90%	3.31
95%	3.21
100%	3.11

Note: Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 30 percent DTI ratio, and additional costs of homeownership at 4 percent of home price. A mortgage insurance premium of 0.5 percent is added to loans with an LTV ratio of 90 percent or more.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 11. Required Qualifying Income for Repeat Buyers by LTV Ratio**

Year	Home Price	LTV Ratio				
		80%	85%	90%	95%	100%
1Q2011	\$138,000	<b>\$37,913</b>	\$39,132	\$41,749	\$43,046	\$44,344
1Q2012	\$140,000	<b>\$38,462</b>	\$39,699	\$42,354	\$43,670	\$44,986
1Q2013	\$147,600	<b>\$40,550</b>	\$41,854	\$44,654	\$46,041	\$47,428
1Q2014	\$159,900	<b>\$43,929</b>	\$45,342	\$48,375	\$49,878	\$51,381
1Q2015	\$174,500	<b>\$47,940</b>	\$49,482	\$52,792	\$54,432	\$56,072
1Q2016	\$180,000	<b>\$49,451</b>	\$51,042	\$54,456	\$56,147	\$57,839
1Q2017	\$187,900	<b>\$51,621</b>	\$53,282	\$56,845	\$58,612	\$60,378
1Q2018	\$200,000	<b>\$54,946</b>	\$56,713	\$60,506	\$62,386	\$64,266
1Q2019	\$209,000	<b>\$57,418</b>	\$59,265	\$63,229	\$65,193	\$67,158
1Q2020	\$225,000	<b>\$61,814</b>	\$63,802	\$68,069	\$70,184	\$72,299
1Q2021	\$257,000	<b>\$70,605</b>	\$72,876	\$77,750	\$80,166	\$82,582
<b>1Q2022</b>	<b>\$305,000</b>	<b>\$83,792</b>	<b>\$86,487</b>	<b>\$92,272</b>	<b>\$95,139</b>	<b>\$98,006</b>

Note: The required qualifying income reflects the minimum income a household must earn to qualify for a mortgage loan for a particular home price. Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 30 percent DTI ratio, and additional costs of homeownership at 4 percent of home price. A mortgage insurance premium of 0.5 percent is added to loans with an LTV ratio of 90 percent or more.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 12. Percentage of Repeat Buyers Who Earned Required Qualifying Income by LTV Ratio**

Year	Home Price	Loan-to-Value Ratio				
		80%	85%	90%	95%	100%
1Q2011	\$138,000	<b>73.4%</b>	72.3%	70.0%	68.9%	67.7%
1Q2012	\$140,000	<b>73.5%</b>	72.4%	70.1%	69.0%	67.8%
1Q2013	\$147,600	<b>72.2%</b>	71.0%	68.6%	67.4%	66.2%
1Q2014	\$159,900	<b>69.7%</b>	68.5%	66.0%	64.7%	63.5%
1Q2015	\$174,500	<b>66.4%</b>	65.1%	62.5%	61.2%	59.9%
1Q2016	\$180,000	<b>66.4%</b>	65.2%	62.5%	61.2%	59.9%
1Q2017	\$187,900	<b>66.0%</b>	64.7%	61.9%	60.6%	59.2%
1Q2018	\$200,000	<b>64.6%</b>	63.3%	60.5%	59.1%	57.7%
1Q2019	\$209,000	<b>64.3%</b>	62.9%	60.0%	58.6%	57.1%
1Q2020	\$225,000	<b>61.9%</b>	60.5%	57.4%	55.8%	54.3%
1Q2021	\$257,000	<b>57.0%</b>	55.4%	52.3%	50.8%	49.4%
<b>1Q2022</b>	<b>\$305,000</b>	<b>50.1%</b>	<b>48.5%</b>	<b>45.0%</b>	<b>43.3%</b>	<b>41.6%</b>

Note: Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 30 percent DTI ratio, and additional costs of homeownership at 4 percent of home price. A mortgage insurance premium of 0.5 percent is added to loans with an LTV ratio of 90 percent or more. As repeat homebuyers constitute owner-occupied households, this table reflects income data solely for owner-occupied households.

Sources: American Community Survey, U.S. Census Bureau, Texas Real Estate Research Center at Texas A&M University

### DTI Ratio

A 30 percent DTI ratio translates into a home price-to-income multiplier of 3.64<sup>4</sup> (Table 13), meaning a household could afford a maximum home price of 3.64 times its annual income at that interest rate. The home price-to-income multiplier increases as the DTI ratio increases.

The income required to qualify for a loan with a 30 percent DTI ratio was \$83,792 for the median sales price in 1Q2022 (Table 14). An estimated 50.1 percent of current homeowners in the San Antonio-New Braunfels MSA could afford the median sales price in 1Q2022 with a 30 percent DTI ratio (Table 15), a decline of more than 23 percentage points from 1Q2011.

<sup>4</sup> The home price-to-income multiplier is based on a 30-year loan term, 3.37 percent mortgage interest rate, 80 percent LTV ratio, and property taxes and insurance of 4 percent.

**Table 13. Home Price-to-Income Multiplier  
for Repeat Buyers by DTI Ratio**

DTI Ratio	Home Price-to-Income Multiplier
20%	2.43
25%	3.03
<b>30%</b>	<b>3.64</b>
35%	4.25
40%	4.85
45%	5.46
50%	6.07

Note: Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 80 percent LTV ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 14. Required Qualifying Income for Repeat Buyers by DTI Ratio**

Year	Home Price	DTI Ratio						
		20%	25%	<b>30%</b>	35%	40%	45%	50%
1Q2011	\$138,000	\$56,869	\$45,495	<b>\$37,913</b>	\$32,496	\$28,434	\$25,275	\$22,748
1Q2012	\$140,000	\$57,693	\$46,154	<b>\$38,462</b>	\$32,967	\$28,846	\$25,641	\$23,077
1Q2013	\$147,600	\$60,825	\$48,660	<b>\$40,550</b>	\$34,757	\$30,412	\$27,033	\$24,330
1Q2014	\$159,900	\$65,894	\$52,715	<b>\$43,929</b>	\$37,653	\$32,947	\$29,286	\$26,357
1Q2015	\$174,500	\$71,910	\$57,528	<b>\$47,940</b>	\$41,092	\$35,955	\$31,960	\$28,764
1Q2016	\$180,000	\$74,177	\$59,341	<b>\$49,451</b>	\$42,387	\$37,088	\$32,967	\$29,671
1Q2017	\$187,900	\$77,432	\$61,946	<b>\$51,621</b>	\$44,247	\$38,716	\$34,414	\$30,973
1Q2018	\$200,000	\$82,419	\$65,935	<b>\$54,946</b>	\$47,096	\$41,209	\$36,630	\$32,967
1Q2019	\$209,000	\$86,127	\$68,902	<b>\$57,418</b>	\$49,216	\$43,064	\$38,279	\$34,451
1Q2020	\$225,000	\$92,721	\$74,177	<b>\$61,814</b>	\$52,983	\$46,360	\$41,209	\$37,088
1Q2021	\$257,000	\$105,908	\$84,726	<b>\$70,605</b>	\$60,519	\$52,954	\$47,070	\$42,363
<b>1Q2022</b>	<b>\$305,000</b>	<b>\$125,688</b>	<b>\$100,551</b>	<b>\$83,792</b>	<b>\$71,822</b>	<b>\$62,844</b>	<b>\$55,861</b>	<b>\$50,275</b>

Note: The required qualifying income reflects the minimum income a household must earn to qualify for a mortgage loan for a particular home price. Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 80 percent LTV ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University



**Table 15. Percentage of Repeat Buyers Who Earned Required Qualifying Income by DTI Ratio**

Year	Home Price	DTI Ratio						
		20%	25%	30%	35%	40%	45%	50%
1Q2011	\$138,000	57.1%	66.7%	<b>73.4%</b>	78.1%	81.7%	84.5%	86.7%
1Q2012	\$140,000	57.1%	66.8%	<b>73.5%</b>	78.2%	81.7%	84.4%	86.5%
1Q2013	\$147,600	55.1%	65.2%	<b>72.2%</b>	77.1%	80.7%	83.5%	85.8%
1Q2014	\$159,900	51.9%	62.4%	<b>69.7%</b>	75.1%	79.0%	82.0%	84.5%
1Q2015	\$174,500	47.5%	58.8%	<b>66.4%</b>	72.2%	76.5%	79.8%	82.4%
1Q2016	\$180,000	47.2%	58.7%	<b>66.4%</b>	72.2%	76.5%	79.8%	82.3%
1Q2017	\$187,900	46.5%	58.0%	<b>66.0%</b>	71.7%	76.0%	79.4%	82.0%
1Q2018	\$200,000	45.2%	56.5%	<b>64.6%</b>	70.5%	74.9%	78.4%	81.1%
1Q2019	\$209,000	44.5%	55.8%	<b>64.3%</b>	70.4%	74.8%	78.2%	80.9%
1Q2020	\$225,000	41.7%	52.9%	<b>61.9%</b>	68.4%	73.1%	76.7%	79.6%
1Q2021	\$257,000	36.7%	48.1%	<b>57.0%</b>	64.0%	69.2%	73.3%	76.4%
<b>1Q2022</b>	<b>\$305,000</b>	<b>30.2%</b>	<b>40.2%</b>	<b>50.1%</b>	<b>57.5%</b>	<b>63.5%</b>	<b>68.3%</b>	<b>72.1%</b>

Note: Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 80 percent LTV ratio, and additional costs of homeownership at 4 percent of home price. As repeat homebuyers constitute owner-occupied households, this table reflects income data solely for owner-occupied households.

Sources: American Community Survey, U.S. Census Bureau, and Texas Real Estate Research Center at Texas A&M University

### Property Taxes and Insurance

Holding home price constant, the total monthly mortgage payment increases as the annual costs of property taxes and insurance increase (Table 16). Assuming the cost of property taxes and insurance is 4 percent of the home price, the monthly mortgage payment was \$2,095 for the median sales price in 1Q2022, more than twice the total monthly mortgage payment for the median-priced home in 1Q2011.

Table 17 shows the home price-to-income multiplier by the costs of property taxes and insurance. A 4 percent property tax and insurance rate translates into a home price-to-income multiplier of 3.64<sup>5</sup>, meaning a household could afford a maximum home price of 3.64 times its annual income. The home price-to-income multiplier declines as the costs of property taxes and insurance increase.

The income required to qualify for a loan with property taxes and insurance at 4 percent of home price was \$83,792 for the median sales price in 1Q2022 (Table 18). An estimated 50.1 percent of current homeowners in the San Antonio-New Braunfels MSA could afford the median

<sup>5</sup> The home price-to-income multiplier is based on a 30-year loan term, 3.37 percent mortgage interest rate, 80 percent LTV ratio, and 30 percent DTI ratio.

sales price in 1Q2022 with property taxes and insurance at 4 percent of home price (Table 19), a decline of more than 23 percentage points from 4Q2011.

**Table 16. Total Monthly Mortgage Payment for Repeat Buyers  
by Additional Homeownership Costs**

Year	Home Price	Property Taxes & Insurance				
		2%	3%	4%	5%	6%
1Q2011	\$138,000	\$718	\$833	<b>\$948</b>	\$1,063	\$1,178
1Q2012	\$140,000	\$728	\$845	<b>\$962</b>	\$1,078	\$1,195
1Q2013	\$147,600	\$768	\$891	<b>\$1,014</b>	\$1,137	\$1,260
1Q2014	\$159,900	\$832	\$965	<b>\$1,098</b>	\$1,231	\$1,365
1Q2015	\$174,500	\$908	\$1,053	<b>\$1,199</b>	\$1,344	\$1,489
1Q2016	\$180,000	\$936	\$1,086	<b>\$1,236</b>	\$1,386	\$1,536
1Q2017	\$187,900	\$977	\$1,134	<b>\$1,291</b>	\$1,447	\$1,604
1Q2018	\$200,000	\$1,040	\$1,207	<b>\$1,374</b>	\$1,540	\$1,707
1Q2019	\$209,000	\$1,087	\$1,261	<b>\$1,435</b>	\$1,610	\$1,784
1Q2020	\$225,000	\$1,170	\$1,358	<b>\$1,545</b>	\$1,733	\$1,920
1Q2021	\$257,000	\$1,337	\$1,551	<b>\$1,765</b>	\$1,979	\$2,193
<b>1Q2022</b>	<b>\$305,000</b>	<b>\$1,586</b>	<b>\$1,841</b>	<b>\$2,095</b>	<b>\$2,349</b>	<b>\$2,603</b>

Note: Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 80 percent LTV ratio, and 30 percent DTI ratio.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 17. Home Price-to-Income Multiplier  
for Repeat Buyers by Additional Homeownership Costs**

Property Taxes and Insurance	Home Price-to-Income Multiplier
2%	4.81
3%	4.14
<b>4%</b>	<b>3.64</b>
5%	3.25
6%	2.93

Note: Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 80 percent LTV ratio, and 30 percent DTI ratio.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 18. Required Qualifying Income for Repeat Homebuyers  
by Additional Homeownership Costs**

Year	Home Price	Property Taxes & Insurance				
		2%	3%	4%	5%	6%
1Q2011	\$138,000	\$28,713	\$33,313	<b>\$37,913</b>	\$42,513	\$47,113
1Q2012	\$140,000	\$29,129	\$33,795	<b>\$38,462</b>	\$43,129	\$47,795
1Q2013	\$147,600	\$30,710	\$35,630	<b>\$40,550</b>	\$45,470	\$50,390
1Q2014	\$159,900	\$33,269	\$38,599	<b>\$43,929</b>	\$49,259	\$54,589
1Q2015	\$174,500	\$36,307	\$42,123	<b>\$47,940</b>	\$53,757	\$59,573
1Q2016	\$180,000	\$37,451	\$43,451	<b>\$49,451</b>	\$55,451	\$61,451
1Q2017	\$187,900	\$39,095	\$45,358	<b>\$51,621</b>	\$57,885	\$64,148
1Q2018	\$200,000	\$41,612	\$48,279	<b>\$54,946</b>	\$61,612	\$68,279
1Q2019	\$209,000	\$43,485	\$50,452	<b>\$57,418</b>	\$64,385	\$71,352
1Q2020	\$225,000	\$46,814	\$54,314	<b>\$61,814</b>	\$69,314	\$76,814
1Q2021	\$257,000	\$53,472	\$62,039	<b>\$70,605</b>	\$79,172	\$87,739
<b>1Q2022</b>	<b>\$305,000</b>	<b>\$63,459</b>	<b>\$73,625</b>	<b>\$83,792</b>	<b>\$93,959</b>	<b>\$104,125</b>

Note: The required qualifying income reflects the minimum income a household must earn to qualify for a mortgage loan for a particular home price. Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 80 percent LTV ratio, and 30 percent DTI ratio.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 19. Percentage of Repeat Homeowners Who Earned Required Qualifying Income  
by Additional Homeownership Costs**

Year	Home Price	Property Taxes & Insurance				
		2%	3%	4%	5%	6%
1Q2011	\$138,000	81.5%	77.4%	<b>73.4%</b>	69.3%	65.3%
1Q2012	\$140,000	81.4%	77.5%	<b>73.5%</b>	69.5%	65.4%
1Q2013	\$147,600	80.5%	76.4%	<b>72.2%</b>	67.9%	63.7%
1Q2014	\$159,900	78.7%	74.3%	<b>69.7%</b>	65.2%	60.9%
1Q2015	\$174,500	76.2%	71.3%	<b>66.4%</b>	61.8%	57.2%
1Q2016	\$180,000	76.2%	71.3%	<b>66.4%</b>	61.7%	57.1%
1Q2017	\$187,900	75.7%	70.8%	<b>66.0%</b>	61.1%	56.3%
1Q2018	\$200,000	74.6%	69.6%	<b>64.6%</b>	59.7%	54.7%
1Q2019	\$209,000	74.5%	69.5%	<b>64.3%</b>	59.2%	54.0%
1Q2020	\$225,000	72.8%	67.4%	<b>61.9%</b>	56.5%	51.2%
1Q2021	\$257,000	68.9%	62.9%	<b>57.0%</b>	51.4%	46.3%
<b>1Q2022</b>	<b>\$305,000</b>	<b>63.1%</b>	<b>56.2%</b>	<b>50.1%</b>	<b>44.0%</b>	<b>38.8%</b>

Note: Assumes a 30-year loan term, 3.37 percent mortgage interest rate, 80 percent LTV ratio, and 30 percent DTI ratio. As repeat homebuyers constitute owner-occupied households, this table reflects income data solely for owner-occupied households.

Sources: American Community Survey, U.S. Census Bureau, and Texas Real Estate Research Center

## First-Time Homebuyer

Purchase affordability continued to decline in 1Q2022 for first-time homebuyers in the San Antonio-New Braunfels MSA, particularly among the lowest-income cohorts. Despite sustained low mortgage interest rates, the YOY uptick in the first-quartile sales price left homeownership increasingly unaffordable for lower-income households.

Table 20 shows the maximum home price affordable by family income and home-purchasing power. For example, households earning between \$27,750 and \$41,450 annually (i.e., between 31 and 50 percent of median family income) could afford a maximum home price between \$83,250 and \$124,350 with a home price-to-income multiplier of 3. Meanwhile, the range in the maximum home price affordable to that range in household income rises to between \$111,000 and \$165,800 should the home price-to-income multiplier measure 4.

Depending on the home price-to-income multiplier, only households earning at least \$45,000 annually could afford the first-quartile sales price in 1Q2022. Homeownership is largely not feasible to households earning less than 50 percent of median family income. In fact, homeownership really only becomes viable for households earning at least 80 percent of area median income. Even at that point it largely depends on whether mortgage lenders are willing to accept loans with high home price-to-income multipliers. Moreover, few homes are available for sale at these income thresholds. For instance, with a home price-to-income multiplier of 3, only 14.2 percent of homes for sale in the San Antonio-New Braunfels MSA were affordable to households earning no more than 80 percent of area median income in 1Q2022 (Table 21).



**Table 20. Maximum Home Price Affordable by Family Income and Home Price-to-Income Multiplier**

		Home Price-to-Income Multiplier							
	Family Income	2	2.5	3	3.5	4	4.5	5	5.5
	<b>\$20,000</b>	\$40,000	\$50,000	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000	\$110,000
	<b>\$25,000</b>	\$50,000	\$62,500	\$75,000	\$87,500	\$100,000	\$112,500	\$125,000	\$137,500
<b>Extremely Low-Income (30%)</b>	<b>\$27,750</b>	\$55,500	\$69,375	\$83,250	\$97,125	\$111,000	\$124,875	\$138,750	\$152,625
	<b>\$30,000</b>	\$60,000	\$75,000	\$90,000	\$105,000	\$120,000	\$135,000	\$150,000	\$165,000
	<b>\$35,000</b>	\$70,000	\$87,500	\$105,000	\$122,500	\$140,000	\$157,500	\$175,000	\$192,500
	<b>\$40,000</b>	\$80,000	\$100,000	\$120,000	\$140,000	\$160,000	\$180,000	\$200,000	\$220,000
<b>Very Low-Income (50%)</b>	<b>\$41,450</b>	\$82,900	\$103,625	\$124,350	\$145,075	\$165,800	\$186,525	\$207,250	\$227,975
	<b>\$45,000</b>	\$90,000	\$112,500	\$135,000	\$157,500	\$180,000	\$202,500	\$225,000	<b>\$247,500</b>
	<b>\$50,000</b>	\$100,000	\$125,000	\$150,000	\$175,000	\$200,000	\$225,000	<b>\$250,000</b>	<b>\$275,000</b>
	<b>\$55,000</b>	\$110,000	\$137,500	\$165,000	\$192,500	\$220,000	<b>\$247,500</b>	<b>\$275,000</b>	<b>\$302,500</b>
	<b>\$60,000</b>	\$120,000	\$150,000	\$180,000	\$210,000	<b>\$240,000</b>	<b>\$270,000</b>	<b>\$300,000</b>	<b>\$330,000</b>
	<b>\$65,000</b>	\$130,000	\$162,500	\$195,000	\$227,500	<b>\$260,000</b>	<b>\$292,500</b>	<b>\$325,000</b>	<b>\$357,500</b>
<b>Low-Income (80%)</b>	<b>\$66,300</b>	\$132,600	\$165,750	\$198,900	\$232,050	<b>\$265,200</b>	<b>\$298,350</b>	<b>\$331,500</b>	<b>\$364,650</b>
	<b>\$70,000</b>	\$140,000	\$175,000	\$210,000	<b>\$245,000</b>	<b>\$280,000</b>	<b>\$315,000</b>	<b>\$350,000</b>	<b>\$385,000</b>
	<b>\$75,000</b>	\$150,000	\$187,500	\$225,000	<b>\$262,500</b>	<b>\$300,000</b>	<b>\$337,500</b>	<b>\$375,000</b>	<b>\$412,500</b>
	<b>\$80,000</b>	\$160,000	\$200,000	<b>\$240,000</b>	<b>\$280,000</b>	<b>\$320,000</b>	<b>\$360,000</b>	<b>\$400,000</b>	<b>\$440,000</b>
<b>Median Family Income</b>	<b>\$83,500</b>	\$167,000	\$208,750	<b>\$250,500</b>	<b>\$292,250</b>	<b>\$334,000</b>	<b>\$375,750</b>	<b>\$417,500</b>	<b>\$459,250</b>

Note: Figures in red indicate the maximum affordable home price meets or exceeds the first-quartile home sales price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 21. Percentage of Homes Sold in 1Q2022 Affordable by Family Income and Home Price-to-Income Multiplier**

		Home Price-to-Income Multiplier							
	Family Income	2	2.5	3	3.5	4	4.5	5	5.5
	\$20,000	0.1%	0.1%	0.1%	0.4%	0.8%	1.2%	1.8%	2.2%
	\$25,000	0.1%	0.1%	0.6%	1.0%	1.8%	2.3%	3.1%	4.2%
Extremely Low-Income (0-30%)	\$27,750	0.1%	0.3%	0.8%	1.5%	2.2%	2.8%	4.3%	5.9%
	\$30,000	0.1%	0.6%	1.2%	2.0%	2.7%	4.1%	5.8%	7.9%
	\$35,000	0.4%	1.0%	2.0%	2.7%	4.6%	6.5%	9.6%	13.0%
	\$40,000	0.8%	1.8%	2.7%	4.6%	7.2%	10.4%	15.0%	20.0%
Very Low-Income (31-50%)	\$41,450	0.8%	1.9%	2.8%	5.1%	7.9%	11.5%	16.2%	22.1%
	\$45,000	1.2%	2.3%	4.1%	6.5%	10.4%	15.2%	21.7%	28.7%
	\$50,000	1.8%	3.1%	5.8%	9.6%	15.0%	21.7%	30.5%	39.9%
	\$55,000	2.2%	4.2%	7.9%	13.0%	20.0%	28.7%	39.9%	49.4%
	\$60,000	2.7%	5.8%	10.4%	17.4%	26.6%	37.5%	48.8%	58.3%
	\$65,000	3.6%	7.3%	13.7%	22.1%	33.8%	45.6%	56.8%	65.1%
Low-Income (51-80%)	\$66,300	3.7%	7.9%	14.2%	24.0%	35.5%	47.1%	58.4%	66.5%
	\$70,000	4.6%	9.6%	17.4%	28.3%	41.8%	54.1%	64.0%	71.3%
	\$75,000	5.8%	11.6%	21.7%	34.3%	48.8%	59.9%	69.5%	75.8%
	\$80,000	7.2%	15.0%	26.6%	41.8%	55.4%	66.1%	74.2%	80.0%
Median Family Income	\$83,500	8.0%	16.4%	30.5%	45.6%	58.7%	69.6%	76.7%	82.0%

Source: Texas Real Estate Research Center at Texas A&M University

## Mortgage Interest Rate

Holding home price constant, the total monthly mortgage payment increases as the mortgage interest rate increases (Table 22). A 3.46 percent rate brought the mortgage payment to \$1,844 for the first-quartile sales price in 1Q2022, more than 2.5 times the total monthly mortgage payment for the same home in 1Q2011.

Table 23 shows the home price-to-income multiplier by mortgage interest rate. A 3.46 percent interest rate translates into a home price-to-income multiplier of 3.72<sup>6</sup>, meaning a household could afford a maximum home price of 3.72 times its annual income. The home price-to-income multiplier declines as the mortgage interest rate increases.

<sup>6</sup> The home price-to-income multiplier is based on a 30-year loan term, 95 percent LTV ratio, 35 percent DTI ratio, and property taxes and insurance of 4 percent.



The income required to qualify for a loan with a 3.46 percent mortgage interest rate was \$63,236 for the first-quartile sales price in 1Q2022 (Table 24). An estimated 32.5 percent of renters in the San Antonio-New Braunfels MSA could afford the first-quartile sales price in 1Q2022 with a 3.46 percent interest rate (Table 25), a decline of more than 30 percentage points from 1Q2011.

**Table 22. Total Monthly Mortgage Payment for First-Time Buyers by Mortgage Interest Rate**

Year	Home Price	Mortgage Interest Rate						
		3%	<b>3.46%</b>	3.5%	4%	4.5%	5%	5.5%
1Q2011	\$86,000	\$654	<b>\$675</b>	\$677	\$701	\$725	\$751	\$776
1Q2012	\$88,087	\$669	<b>\$691</b>	\$693	\$718	\$743	\$769	\$795
1Q2013	\$99,900	\$759	<b>\$784</b>	\$786	\$814	\$842	\$872	\$902
1Q2014	\$114,500	\$870	<b>\$899</b>	\$901	\$933	\$966	\$999	\$1,034
1Q2015	\$127,825	\$971	<b>\$1,003</b>	\$1,006	\$1,041	\$1,078	\$1,116	\$1,154
1Q2016	\$134,000	\$1,018	<b>\$1,052</b>	\$1,054	\$1,092	\$1,130	\$1,169	\$1,210
1Q2017	\$142,000	\$1,079	<b>\$1,114</b>	\$1,117	\$1,157	\$1,198	\$1,239	\$1,282
1Q2018	\$154,000	\$1,170	<b>\$1,209</b>	\$1,212	\$1,255	\$1,299	\$1,344	\$1,390
1Q2019	\$160,000	\$1,216	<b>\$1,256</b>	\$1,259	\$1,303	\$1,349	\$1,396	\$1,445
1Q2020	\$175,000	\$1,330	<b>\$1,373</b>	\$1,377	\$1,426	\$1,476	\$1,527	\$1,580
1Q2021	\$200,000	\$1,520	<b>\$1,570</b>	\$1,574	\$1,629	\$1,687	\$1,745	\$1,806
<b>1Q2022</b>	<b>\$235,000</b>	<b>\$1,786</b>	<b>\$1,844</b>	<b>\$1,849</b>	<b>\$1,915</b>	<b>\$1,982</b>	<b>\$2,051</b>	<b>\$2,122</b>

Note: Assumes a 30-year loan term, 95 percent LTV ratio, 35 percent DTI ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 23. Home Price-to-Income Multiplier for First-Time Buyers by Mortgage Interest Rate**

Mortgage Interest Rate	Home Price-to-Income Multiplier
3%	3.84
<b>3.46%</b>	<b>3.72</b>
3.5%	3.71
4%	3.58
4.5%	3.46
5%	3.34
5.5%	3.23

Note: Assumes a 30-year loan term, 95 percent LTV ratio, 35 percent DTI ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 24. Required Qualifying Income by Mortgage Interest Rate**

		Mortgage Interest Rate						
Year	Home Price	3%	<b>3.46%</b>	3.5%	4%	4.5%	5%	5.5%
1Q2011	\$86,000	\$22,407	<b>\$23,142</b>	\$23,202	\$24,022	\$24,866	\$25,733	\$26,623
1Q2012	\$88,087	\$22,951	<b>\$23,703</b>	\$23,765	\$24,604	\$25,469	\$26,358	\$27,269
1Q2013	\$99,900	\$26,029	<b>\$26,882</b>	\$26,952	\$27,904	\$28,885	\$29,892	\$30,926
1Q2014	\$114,500	\$29,833	<b>\$30,811</b>	\$30,891	\$31,982	\$33,106	\$34,261	\$35,446
1Q2015	\$127,825	\$33,304	<b>\$34,396</b>	\$34,485	\$35,704	\$36,959	\$38,248	\$39,571
1Q2016	\$134,000	\$34,913	<b>\$36,058</b>	\$36,151	\$37,429	\$38,744	\$40,096	\$41,482
1Q2017	\$142,000	\$36,998	<b>\$38,211</b>	\$38,310	\$39,663	\$41,057	\$42,490	\$43,959
1Q2018	\$154,000	\$40,124	<b>\$41,440</b>	\$41,547	\$43,015	\$44,527	\$46,080	\$47,673
1Q2019	\$160,000	\$41,687	<b>\$43,054</b>	\$43,166	\$44,691	\$46,262	\$47,876	\$49,531
1Q2020	\$175,000	\$45,596	<b>\$47,091</b>	\$47,213	\$48,881	\$50,599	\$52,364	\$54,174
1Q2021	\$200,000	\$52,109	<b>\$53,818</b>	\$53,957	\$55,864	\$57,827	\$59,845	\$61,914
<b>1Q2022</b>	<b>\$235,000</b>	<b>\$61,228</b>	<b>\$63,236</b>	<b>\$63,400</b>	<b>\$65,640</b>	<b>\$67,947</b>	<b>\$70,317</b>	<b>\$72,748</b>

Note: The required qualifying income reflects the minimum income a household must earn to qualify for a mortgage loan for a particular home price. Assumes a 30-year loan term, 95 percent LTV ratio, 35 percent DTI ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 25. Percentage of Renter-Occupied Households That Earned Required Qualifying Income by Mortgage Interest Rate**

		Mortgage Interest Rate						
Year	Home Price	3%	<b>3.46%</b>	3.5%	4%	4.5%	5%	5.5%
1Q2011	\$86,000	63.8%	<b>62.6%</b>	62.5%	61.2%	59.8%	58.4%	57.1%
1Q2012	\$88,087	63.7%	<b>62.5%</b>	62.4%	61.0%	59.6%	58.3%	56.9%
1Q2013	\$99,900	60.3%	<b>59.1%</b>	59.0%	57.6%	56.2%	54.7%	53.2%
1Q2014	\$114,500	56.0%	<b>54.6%</b>	54.5%	52.9%	51.3%	49.6%	48.1%
1Q2015	\$127,825	52.1%	<b>50.6%</b>	50.4%	48.9%	47.6%	46.2%	44.8%
1Q2016	\$134,000	51.7%	<b>50.4%</b>	50.3%	49.0%	47.5%	46.1%	44.6%
1Q2017	\$142,000	51.0%	<b>49.6%</b>	49.5%	48.1%	46.6%	45.0%	43.4%
1Q2018	\$154,000	48.7%	<b>47.3%</b>	47.2%	45.6%	44.0%	42.4%	40.7%
1Q2019	\$160,000	48.8%	<b>47.4%</b>	47.2%	45.6%	43.9%	42.2%	40.4%
1Q2020	\$175,000	45.4%	<b>43.8%</b>	43.7%	41.9%	40.2%	38.8%	37.4%
1Q2021	\$200,000	40.2%	<b>38.8%</b>	38.7%	37.2%	35.7%	34.1%	32.5%
<b>1Q2022</b>	<b>\$235,000</b>	<b>34.0%</b>	<b>32.5%</b>	<b>32.3%</b>	<b>30.6%</b>	<b>28.7%</b>	<b>26.9%</b>	<b>24.9%</b>

Note: Assumes a 30-year loan term, 95 percent LTV ratio, 35 percent DTI ratio, and additional costs of homeownership at 4 percent of home price. As first-time homebuyers constitute renter-occupied households, this table reflects income data solely for renter-occupied households.

Sources: American Community Survey, U.S. Census Bureau, and Texas Real Estate Research Center at Texas A&M University

## LTV Ratio

Holding home price constant, the total monthly mortgage payment increases as the LTV ratio increases (Table 26). For a 95 percent LTV ratio, this payment amounted to \$1,844 for the first-quartile sales price in 1Q2022, more than 2.5 times the total monthly mortgage payment for the same home in 4Q2011.

Table 27 shows the home price-to-income multiplier by LTV ratio. A 95 percent LTV ratio translates into a home price-to-income multiplier of 3.72<sup>7</sup>, meaning a household could afford a maximum home price of 3.72 times its annual income. The home price-to-income multiplier declines as the LTV ratio increases.

The income required to qualify for a loan with a 95 percent LTV ratio was \$63,236 for the first-quartile sales price in 1Q2022 (Table 28). An estimated 32.5 percent of rents in the San Antonio-New Braunfels MSA could afford the first-quartile sales price in 1Q2022 with a 95 percent LTV ratio (Table 29), a decline of more than 30 percentage points from 1Q2011.

**Table 26. Total Monthly Mortgage Payment by LTV Ratio**

Year	Home Price	LTV Ratio				
		95%	96.5%	97%	98%	100%
1Q2011	\$86,000	<b>\$675</b>	\$681	\$683	\$687	\$695
1Q2012	\$88,087	<b>\$691</b>	\$698	\$700	\$704	\$712
1Q2013	\$99,900	<b>\$784</b>	\$791	\$794	\$798	\$808
1Q2014	\$114,500	<b>\$899</b>	\$907	\$910	\$915	\$926
1Q2015	\$127,825	<b>\$1,003</b>	\$1,012	\$1,015	\$1,021	\$1,034
1Q2016	\$134,000	<b>\$1,052</b>	\$1,061	\$1,064	\$1,071	\$1,084
1Q2017	\$142,000	<b>\$1,114</b>	\$1,125	\$1,128	\$1,135	\$1,148
1Q2018	\$154,000	<b>\$1,209</b>	\$1,220	\$1,223	\$1,231	\$1,245
1Q2019	\$160,000	<b>\$1,256</b>	\$1,267	\$1,271	\$1,279	\$1,294
1Q2020	\$175,000	<b>\$1,373</b>	\$1,386	\$1,390	\$1,398	\$1,415
1Q2021	\$200,000	<b>\$1,570</b>	\$1,584	\$1,589	\$1,598	\$1,617
<b>1Q2022</b>	<b>\$235,000</b>	<b>\$1,844</b>	<b>\$1,861</b>	<b>\$1,867</b>	<b>\$1,878</b>	<b>\$1,900</b>

Note: Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 35 percent DTI ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

<sup>7</sup> The home price-to-income multiplier is based on a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 35 percent DTI ratio, and property taxes and insurance of 4 percent.

**Table 27. Home Price-to-Income Multiplier  
for First-Time Buyers by LTV Ratio**

LTV Ratio	Home-Purchasing Power
<b>95%</b>	<b>3.72</b>
96.5%	3.68
97%	3.67
98%	3.65
100%	3.61

Note: Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 35 percent DTI ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 28. Required Qualifying Income by LTV Ratio**

Year	Home Price	LTV Ratio				
		95%	96.5%	97%	98%	100%
1Q2011	\$86,000	<b>\$23,142</b>	\$23,352	\$23,422	\$23,562	\$23,842
1Q2012	\$88,087	<b>\$23,703</b>	\$23,919	\$23,990	\$24,134	\$24,421
1Q2013	\$99,900	<b>\$26,882</b>	\$27,126	\$27,208	\$27,370	\$27,696
1Q2014	\$114,500	<b>\$30,811</b>	\$31,091	\$31,184	\$31,370	\$31,744
1Q2015	\$127,825	<b>\$34,396</b>	\$34,709	\$34,813	\$35,021	\$35,438
1Q2016	\$134,000	<b>\$36,058</b>	\$36,385	\$36,495	\$36,713	\$37,150
1Q2017	\$142,000	<b>\$38,211</b>	\$38,558	\$38,673	\$38,905	\$39,368
1Q2018	\$154,000	<b>\$41,440</b>	\$41,816	\$41,942	\$42,192	\$42,694
1Q2019	\$160,000	<b>\$43,054</b>	\$43,445	\$43,576	\$43,836	\$44,358
1Q2020	\$175,000	<b>\$47,091</b>	\$47,518	\$47,661	\$47,946	\$48,516
1Q2021	\$200,000	<b>\$53,818</b>	\$54,307	\$54,470	\$54,795	\$55,447
<b>1Q2022</b>	<b>\$235,000</b>	<b>\$63,236</b>	<b>\$63,810</b>	<b>\$64,002</b>	<b>\$64,385</b>	<b>\$65,150</b>

Note: The required qualifying income reflects the minimum income a household must earn to qualify for a mortgage loan for a particular home price. Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 35 percent DTI ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 29. Percentage of Renter-Occupied Households That Earned Required Qualifying Income by LTV Ratio**

Year	Home Price	LTV Ratio				
		95%	96.5%	97%	98%	100%
1Q2011	\$86,000	<b>62.6%</b>	62.3%	62.2%	61.9%	61.5%
1Q2012	\$88,087	<b>62.5%</b>	62.1%	62.0%	61.7%	61.3%
1Q2013	\$99,900	<b>59.1%</b>	58.7%	58.6%	58.4%	57.9%
1Q2014	\$114,500	<b>54.6%</b>	54.2%	54.0%	53.8%	53.2%
1Q2015	\$127,825	<b>50.6%</b>	50.1%	50.0%	49.7%	49.2%
1Q2016	\$134,000	<b>50.4%</b>	50.1%	50.0%	49.7%	49.3%
1Q2017	\$142,000	<b>49.6%</b>	49.3%	49.1%	48.9%	48.4%
1Q2018	\$154,000	<b>47.3%</b>	46.9%	46.8%	46.5%	46.0%
1Q2019	\$160,000	<b>47.4%</b>	46.9%	46.8%	46.5%	46.0%
1Q2020	\$175,000	<b>43.8%</b>	43.3%	43.2%	42.9%	42.3%
1Q2021	\$200,000	<b>38.8%</b>	38.5%	38.3%	38.1%	37.6%
<b>1Q2022</b>	<b>\$235,000</b>	<b>32.5%</b>	<b>32.0%</b>	<b>31.9%</b>	<b>31.6%</b>	<b>30.9%</b>

Note: Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 35 percent DTI ratio, and additional costs of homeownership at 4 percent of home price. As first-time homebuyers constitute renter-occupied households, this table reflects income data solely for renter-occupied households.

Sources: American Community Survey, U.S. Census Bureau, and Texas Real Estate Research Center at Texas A&M University

### DTI Ratio

A 35 percent DTI ratio translates into a home price-to-income multiplier of 3.72<sup>8</sup> (Table 30), meaning a household could afford a maximum home price of 3.72 times its annual income. The home price-to-income multiplier increases as the DTI ratio increases.

The income required to qualify for a loan with a 35 percent DTI ratio was \$63,236 for the first-quartile sales price in 1Q2022 (Table 31). An estimated 32.5 percent of renters in the San Antonio-New Braunfels MSA could afford the first-quartile sales price in 1Q2022 with a 35 percent DTI ratio (Table 32), a decline of more than 30 percentage points from 4Q2011.

<sup>8</sup> The home price-to-income multiplier is based on a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 95 percent LTV ratio, and property taxes and insurance of 4 percent.

**Table 30. Home Price-to-Income Multiplier  
for First-Time Buyers by DTI Ratio**

DTI Ratio	Home Price-to-Income Multiplier
20%	2.12
25%	2.65
30%	3.19
<b>35%</b>	<b>3.72</b>
40%	4.25
45%	4.78
50%	5.31

Note: Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 95 percent LTV ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 31. Required Qualifying Income for First-Time Buyers by DTI Ratio**

Year	Home price	DTI Ratio						
		20%	25%	30%	<b>35%</b>	40%	45%	50%
1Q2011	\$86,000	\$40,498	\$32,398	\$26,999	<b>\$23,142</b>	\$20,249	\$17,999	\$16,199
1Q2012	\$88,087	\$41,481	\$33,184	\$27,654	<b>\$23,703</b>	\$20,740	\$18,436	\$16,592
1Q2013	\$99,900	\$47,043	\$37,635	\$31,362	<b>\$26,882</b>	\$23,522	\$20,908	\$18,817
1Q2014	\$114,500	\$53,919	\$43,135	\$35,946	<b>\$30,811</b>	\$26,959	\$23,964	\$21,567
1Q2015	\$127,825	\$60,193	\$48,155	\$40,129	<b>\$34,396</b>	\$30,097	\$26,753	\$24,077
1Q2016	\$134,000	\$63,101	\$50,481	\$42,068	<b>\$36,058</b>	\$31,551	\$28,045	\$25,241
1Q2017	\$142,000	\$66,869	\$53,495	\$44,579	<b>\$38,211</b>	\$33,434	\$29,719	\$26,747
1Q2018	\$154,000	\$72,519	\$58,016	\$48,346	<b>\$41,440</b>	\$36,260	\$32,231	\$29,008
1Q2019	\$160,000	\$75,345	\$60,276	\$50,230	<b>\$43,054</b>	\$37,672	\$33,487	\$30,138
1Q2020	\$175,000	\$82,408	\$65,927	\$54,939	<b>\$47,091</b>	\$41,204	\$36,626	\$32,963
1Q2021	\$200,000	\$94,181	\$75,345	\$62,787	<b>\$53,818</b>	\$47,091	\$41,858	\$37,672
<b>1Q2022</b>	<b>\$235,000</b>	<b>\$110,663</b>	<b>\$88,530</b>	<b>\$73,775</b>	<b>\$63,236</b>	<b>\$55,331</b>	<b>\$49,183</b>	<b>\$44,265</b>

Note: The required qualifying income reflects the minimum income a household must earn to qualify for a mortgage loan for a particular home price. Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 95 percent LTV ratio, and additional costs of homeownership at 4 percent of home price.

Source: Texas Real Estate Research Center at Texas A&M University



**Table 32. Percentage of Households That Earned Required Qualifying Income by DTI Ratio**

Year	Home Price	DTI Ratio						
		20%	25%	30%	<b>35%</b>	40%	45%	50%
1Q2011	\$86,000	38.0%	48.1%	56.5%	<b>62.6%</b>	67.4%	71.1%	74.1%
1Q2012	\$88,087	38.1%	48.0%	56.3%	<b>62.5%</b>	67.4%	71.1%	74.1%
1Q2013	\$99,900	34.1%	44.4%	52.6%	<b>59.1%</b>	64.2%	68.3%	71.7%
1Q2014	\$114,500	29.8%	39.8%	47.5%	<b>54.6%</b>	60.1%	64.6%	68.3%
1Q2015	\$127,825	26.4%	35.5%	44.2%	<b>50.6%</b>	56.6%	61.3%	65.2%
1Q2016	\$134,000	25.9%	35.0%	43.9%	<b>50.4%</b>	56.3%	61.0%	64.8%
1Q2017	\$142,000	24.6%	34.4%	42.8%	<b>49.6%</b>	55.3%	60.4%	64.4%
1Q2018	\$154,000	21.2%	32.2%	40.0%	<b>47.3%</b>	52.8%	57.8%	62.2%
1Q2019	\$160,000	20.7%	32.1%	39.7%	<b>47.4%</b>	53.1%	58.0%	62.5%
1Q2020	\$175,000	18.5%	28.4%	36.8%	<b>43.8%</b>	50.2%	55.2%	59.7%
1Q2021	\$200,000	14.5%	22.2%	31.8%	<b>38.8%</b>	45.0%	50.7%	55.3%
<b>1Q2022</b>	<b>\$235,000</b>	<b>11.1%</b>	<b>17.5%</b>	<b>24.1%</b>	<b>32.5%</b>	<b>38.7%</b>	<b>43.8%</b>	<b>49.2%</b>

Note: Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 95 percent LTV ratio, and additional costs of homeownership at 4 percent of home price. As first-time homebuyers constitute renter-occupied households, this table reflects income data solely for renter-occupied households.

Sources: American Community Survey, U.S. Census Bureau, and Texas Real Estate Research Center at Texas A&M University

## Property Taxes and Insurance

Holding home price constant, the total monthly mortgage payment increases as additional annual homeownership costs (property taxes and insurance) increase (Table 33). With a rate of 4 percent of home price, this payment amounted to \$1,844 for the first-quartile sales price in 1Q2022, more than 2.5 times the total monthly mortgage payment for the same home in 1Q2011.

Table 34 shows the home price-to-income multiplier by the costs of property taxes and insurance. A 4 percent property tax and insurance rate translates into a home price-to-income multiplier of 3.72<sup>9</sup>, meaning a household could afford a maximum home price of 3.72 times its annual income. The home price-to-income multiplier declines as the mortgage interest rate increases.

The income required to qualify for a loan with property taxes and insurance at 4 percent of home price was \$63,236 for the first-quartile sales price in 1Q2022 (Table 35). An estimated 32.5 percent of Texas households could afford the first-quartile sales price in 1Q2022 with

<sup>9</sup> The home price-to-income multiplier is based on a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 95 percent LTV ratio, and 35 percent DTI ratio.

property taxes and insurance at 4 percent of home price (Table 36), a decline of more than 30 percentage points from 4Q2011.

**Table 33. Total Monthly Mortgage Payment by Additional Homeownership Costs**

Year	Home Price	Property Taxes & Insurance				
		2%	3%	4%	5%	6%
1Q2011	\$86,000	\$532	\$603	<b>\$675</b>	\$747	\$818
1Q2012	\$88,087	\$545	\$618	<b>\$691</b>	\$765	\$838
1Q2013	\$99,900	\$618	\$701	<b>\$784</b>	\$867	\$951
1Q2014	\$114,500	\$708	\$803	<b>\$899</b>	\$994	\$1,089
1Q2015	\$127,825	\$790	\$897	<b>\$1,003</b>	\$1,110	\$1,216
1Q2016	\$134,000	\$828	\$940	<b>\$1,052</b>	\$1,163	\$1,275
1Q2017	\$142,000	\$878	\$996	<b>\$1,114</b>	\$1,233	\$1,351
1Q2018	\$154,000	\$952	\$1,080	<b>\$1,209</b>	\$1,337	\$1,465
1Q2019	\$160,000	\$989	\$1,122	<b>\$1,256</b>	\$1,389	\$1,522
1Q2020	\$175,000	\$1,082	\$1,228	<b>\$1,373</b>	\$1,519	\$1,665
1Q2021	\$200,000	\$1,236	\$1,403	<b>\$1,570</b>	\$1,736	\$1,903
<b>1Q2022</b>	<b>\$235,000</b>	<b>\$1,453</b>	<b>\$1,649</b>	<b>\$1,844</b>	<b>\$2,040</b>	<b>\$2,236</b>

Note: Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 95 percent LTV ratio, and 35 percent DTI ratio.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 34. Home Price-to-Income Multiplier for First-Time Buyers by Additional Homeownership Costs**

Property Taxes & Insurance	Home Price-to-Income Multiplier
2%	4.72
3%	4.16
<b>4%</b>	<b>3.72</b>
5%	3.36
6%	3.07

Note: Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 95 percent LTV ratio, and 35 percent DTI ratio.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 35. Required Qualifying Income by Additional Homeownership Costs**

		Property Taxes & Insurance				
Year	Home Price	2%	3%	4%	5%	6%
1Q2011	\$86,000	\$18,227	\$20,684	<b>\$23,142</b>	\$25,599	\$28,056
1Q2012	\$88,087	\$18,670	\$21,186	<b>\$23,703</b>	\$26,220	\$28,737
1Q2013	\$99,900	\$21,173	\$24,028	<b>\$26,882</b>	\$29,736	\$32,591
1Q2014	\$114,500	\$24,268	\$27,539	<b>\$30,811</b>	\$34,082	\$37,354
1Q2015	\$127,825	\$27,092	\$30,744	<b>\$34,396</b>	\$38,048	\$41,701
1Q2016	\$134,000	\$28,401	\$32,229	<b>\$36,058</b>	\$39,886	\$43,715
1Q2017	\$142,000	\$30,096	\$34,153	<b>\$38,211</b>	\$42,268	\$46,325
1Q2018	\$154,000	\$32,640	\$37,040	<b>\$41,440</b>	\$45,840	\$50,240
1Q2019	\$160,000	\$33,911	\$38,483	<b>\$43,054</b>	\$47,626	\$52,197
1Q2020	\$175,000	\$37,091	\$42,091	<b>\$47,091</b>	\$52,091	\$57,091
1Q2021	\$200,000	\$42,389	\$48,103	<b>\$53,818</b>	\$59,532	\$65,246
<b>1Q2022</b>	<b>\$235,000</b>	<b>\$49,807</b>	<b>\$56,522</b>	<b>\$63,236</b>	<b>\$69,950</b>	<b>\$76,664</b>

Note: The required qualifying income reflects the minimum income a household must earn to qualify for a mortgage loan for a particular home price. Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 95 percent LTV ratio, and 35 percent DTI ratio.

Source: Texas Real Estate Research Center at Texas A&M University

**Table 36. Percentage of Households That Earned the Required Qualifying Income by Additional Homeownership Costs**

Year	Home Price	Property Taxes & Insurance				
		2%	3%	4%	5%	6%
1Q2011	\$86,000	70.7%	66.6%	<b>62.6%</b>	58.6%	54.8%
1Q2012	\$88,087	70.8%	66.6%	<b>62.5%</b>	58.5%	54.7%
1Q2013	\$99,900	67.9%	63.4%	<b>59.1%</b>	54.9%	50.8%
1Q2014	\$114,500	64.1%	59.3%	<b>54.6%</b>	49.9%	46.0%
1Q2015	\$127,825	60.9%	55.7%	<b>50.6%</b>	46.4%	42.5%
1Q2016	\$134,000	60.6%	55.4%	<b>50.4%</b>	46.3%	42.1%
1Q2017	\$142,000	59.8%	54.3%	<b>49.6%</b>	45.3%	40.9%
1Q2018	\$154,000	57.3%	51.9%	<b>47.3%</b>	42.6%	38.1%
1Q2019	\$160,000	57.5%	52.3%	<b>47.4%</b>	42.5%	38.2%
1Q2020	\$175,000	54.7%	49.3%	<b>43.8%</b>	39.0%	35.2%
1Q2021	\$200,000	50.2%	43.9%	<b>38.8%</b>	34.4%	29.9%
<b>1Q2022</b>	<b>\$235,000</b>	<b>43.1%</b>	<b>37.8%</b>	<b>32.5%</b>	<b>27.2%</b>	<b>22.5%</b>

Note: Because first-time homebuyers constitute renter-occupied households, this table reflects income data solely for renter-occupied households. Assumes a 30-year loan term, 3.46 percent mortgage interest rate, 0.5 percent mortgage insurance premium, 95 percent LTV ratio, and 35 percent DTI ratio.

Sources: American Community Survey, U.S. Census Bureau, and Texas Real Estate Research Center at Texas A&M University

## Overview of Housing Affordability

Housing affordability persistently proves one of the most salient topics in housing markets across the state. Although definitions vary, housing affordability broadly denotes the relationship between home price (or rent) and household (or family) income.<sup>10</sup> As such, housing affordability generally reflects the two housing tenures: owner- and renter-occupied housing. However, Center economists further classify owner-occupied housing affordability into two distinct categories: purchase and repayment affordability.

This report focuses only on purchase affordability. Purchase affordability measures the ability of a household to buy a home. In other words, it reflects home-purchasing potential. Repayment affordability, on the other hand, measures an existing homeowner’s ability to make timely monthly mortgage payments. While purchase affordability involves all potential homebuyers, regardless of whether a household already owns a home, repayment affordability solely involves current homeowners (i.e., only owner-occupied households).

<sup>10</sup> Household income reflects all households in the income distribution, including both family and nonfamily households, which consist of a householder living alone or a householder who shares his/her home with individual(s) of no relation to him/her. Meanwhile, family income includes only households in which the householder lives with at least one other related family member.

## Measuring Purchase Affordability

The vast majority of homebuyers—86 percent in Texas in 2020—rely on mortgage financing to purchase a home. As such, purchase affordability largely acts as a function of income, wealth, and credit. These three factors typically constitute the primary determinants of a mortgage applicant’s creditworthiness, or the applicant’s ability to repay the mortgage loan, a factor heavily weighed by the mortgage lender in the decision to extend mortgage financing to an applicant. In mortgage financing, income, wealth, and credit materialize through the DTI ratio, LTV ratio, and credit score.<sup>11</sup>

Other factors that affect purchase affordability include the mortgage interest rate, any additional costs of borrowing mortgage capital (such as the mortgage insurance premium, which is generally charged if the LTV ratio is 80 percent or higher), and the additional costs of homeownership—property taxes and insurance.

Table 37 shows how characteristics of a mortgage loan or applicant affect the maximum home price affordable to a particular household. Holding all else equal, an increase in the loan term decreases the total monthly mortgage payment, which increases the maximum affordable home price. Meanwhile, an increase in the DTI ratio also raises the maximum affordable home price. However, an increase in the mortgage interest rate, LTV ratio, additional costs of homeownership, and additional costs of borrowing mortgage capital increase the total monthly mortgage payment, which decreases the maximum affordable home price and reduces home-purchasing potential.

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<sup>11</sup> There are two types of DTI ratios: “front-end” and “back-end” ratios. The front-end DTI ratio measures mortgage debt as a percentage of household income, while the back-end ratio reflects total household debt—mortgage loans, car loans, credit card loans, student loans, etc.—as a percentage of household income. Should mortgage debt equal \$800 per month and the monthly household income equal \$2,400, then the front-end DTI ratio is 30 percent. Should total household debt equal \$1,200 per month, then the back-end DTI ratio is 50 percent. This report uses the front-end DTI ratio. The LTV ratio measures the household’s down payment as a percentage of the home price. A 5 percent down payment translates into a 95 percent LTV ratio.



**Table 37. How Loan, Applicant Characteristics Affect Purchase Affordability**

<b>Loan or Applicant Characteristics</b>	<b>Effect on Purchase Affordability</b>
Mortgage interest rate	An increase in the mortgage interest rate <b>diminishes</b> purchase affordability
Loan term	An increase in the loan term <b>increases</b> purchase affordability
LTV ratio	An increase in the loan-to-value ratio <b>diminishes</b> purchase affordability
DTI ratio	An increase in the DTI ratio <b>increases</b> purchase affordability
Additional costs of homeownership (property taxes and insurance)	An increase in the additional costs of homeownership <b>diminishes</b> purchase affordability
Additional costs of borrowing mortgage capital (such as the mortgage insurance premium)	An increase in the additional costs of borrowing mortgage capital <b>diminishes</b> purchase affordability

Source: Texas Real Estate Research Center at Texas A&M University

The Center uses the home price-to-income multiplier (also known as “home-purchasing power”) to find the ratio between home price and household income, or the maximum home price affordable to a household of a particular income. For example, a multiplier of 3 indicates a household could afford a home priced at three times the household’s income (so, a household earning \$50,000 annually could afford a maximum home price of \$150,000).

The multiplier generally measures lower for conventional borrowers, a function of the lower DTI ratios that such borrowers tend to present, and higher for first-time borrowers, who depict higher DTI ratios. The home price-to-income multiplier typically measures around 3 for the repeat homebuyer, and between 3 and 4 for first-time homebuyers.

This report computes purchase affordability for both repeat and first-time homebuyers. For the repeat buyer, calculations in this report assume the prevailing mortgage interest rate (3.37 percent in 1Q2022)<sup>12</sup>, 80 percent LTV ratio, 30 percent DTI ratio, and property taxes and insurance of 4 percent of home value. First-time homebuyers, who tend to be younger and therefore have not accumulated as much wealth or achieved peak earnings, tend to have higher LTV and DTI ratios. The lower income, wealth, and credit of first-time homebuyers generally reduces the maximum home price affordable to them. The calculations of purchase affordability for first-time homebuyers reflect the prevailing mortgage interest rate (3.46 percent in 1Q2022), 0.5 percent mortgage insurance premium, 95 percent LTV ratio, 35 percent DTI ratio, and property taxes and insurance of 4 percent of home value.

<sup>12</sup> The source for the prevailing mortgage interest rate is CoreLogic.



TEXAS A&M UNIVERSITY

# Texas Real Estate Research Center

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