



Investor Presentation

— Third Quarter 2023 —



“Safe Harbor” Statement

Under the Private Securities Litigation Reform Act of 1995

“Safe Harbor” Statement under the Private Securities Litigation Reform Act of 1995: This presentation contains, and the remarks by Prosperity’s management on the conference call may contain, forward-looking statements within the meaning of the federal securities laws, including Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. From time to time, oral or written forward-looking statements may also be included in other information released to the public. Such forward-looking statements are typically, but not exclusively, identified by the use in the statements of words or phrases such as “aim,” “anticipate,” “believe,” “estimate,” “expect,” “goal,” “guidance,” “intend,” “is anticipated,” “is expected,” “is intended,” “objective,” “plan,” “projected,” “projection,” “will affect,” “will be,” “will continue,” “will decrease,” “will grow,” “will impact,” “will increase,” “will incur,” “will reduce,” “will remain,” “will result,” “would be,” variations of such words or phrases (including where the word “could,” “may,” or “would” is used rather than the word “will” in a phrase) and similar words and phrases indicating that the statement addresses some future result, occurrence, plan or objective. Forward-looking statements include all statements other than statements of historical fact, including forecasts or trends, and are based on current expectations, assumptions, estimates and projections about Prosperity Bancshares and its subsidiaries. These forward-looking statements may include information about Prosperity’s possible or assumed future economic performance or future results of operations, including future revenues, income, expenses, provision for loan losses, provision for taxes, effective tax rate, earnings per share and cash flows and Prosperity’s future capital expenditures and dividends, future financial condition and changes therein, including changes in Prosperity’s loan portfolio and allowance for loan losses, changes in deposits, borrowings and the investment securities portfolio, future capital structure or changes therein, as well as the plans and objectives of management for Prosperity’s future operations, future or proposed acquisitions, including the pending transaction with Lone Star, the future or expected effect of acquisitions on Prosperity’s operations, results of operations, financial condition, and future economic performance, statements about the anticipated benefits of each of the proposed transactions, and statements about the assumptions underlying any such statement. These forward-looking statements are not guarantees of future performance and are based on expectations and assumptions Prosperity currently believes to be valid. Because forward-looking statements relate to future results and occurrences, many of which are outside of Prosperity’s control, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict. These risks and uncertainties include, but are not limited to whether Prosperity can: successfully identify acquisition targets and integrate the businesses of acquired companies and banks, including Lone Star; continue to sustain its current internal growth rate or total growth rate; provide products and services that appeal to its customers; continue to have access to debt and equity capital markets; and achieve its sales objectives. Other risks include, but are not limited to: the possibility that credit quality could deteriorate; actions of competitors; changes in laws and regulations (including changes in governmental interpretations of regulations and changes in accounting standards); the possibility that the anticipated benefits of an acquisition transaction, including the pending transaction with Lone Star, are not realized when expected or at all, including as a result of the impact of, or problems arising from, the integration of two companies or as a result of the strength of the economy and competitive factors generally; a deterioration or downgrade in the credit quality and credit agency ratings of the securities in Prosperity’s securities portfolio; customer and consumer demand, including customer and consumer response to marketing; effectiveness of spending, investments or programs; fluctuations in the cost and availability of supply chain resources; economic conditions, including currency rate, interest rate and commodity price fluctuations; and the effect, impact, potential duration or other implications of weather and climate-related events. Prosperity disclaims any obligation to update such factors or to publicly announce the results of any revisions to any of the forward-looking statements included herein to reflect future events or developments. These and various other factors are discussed in Prosperity’s Annual Report on Form 10-K for the year ended December 31, 2022, and other reports and statements Prosperity has filed with the Securities and Exchange Commission (“SEC”). Copies of the SEC filings for Prosperity may be downloaded from the Internet at no charge from <http://www.prosperitybankusa.com>.

Third Quarter Highlights

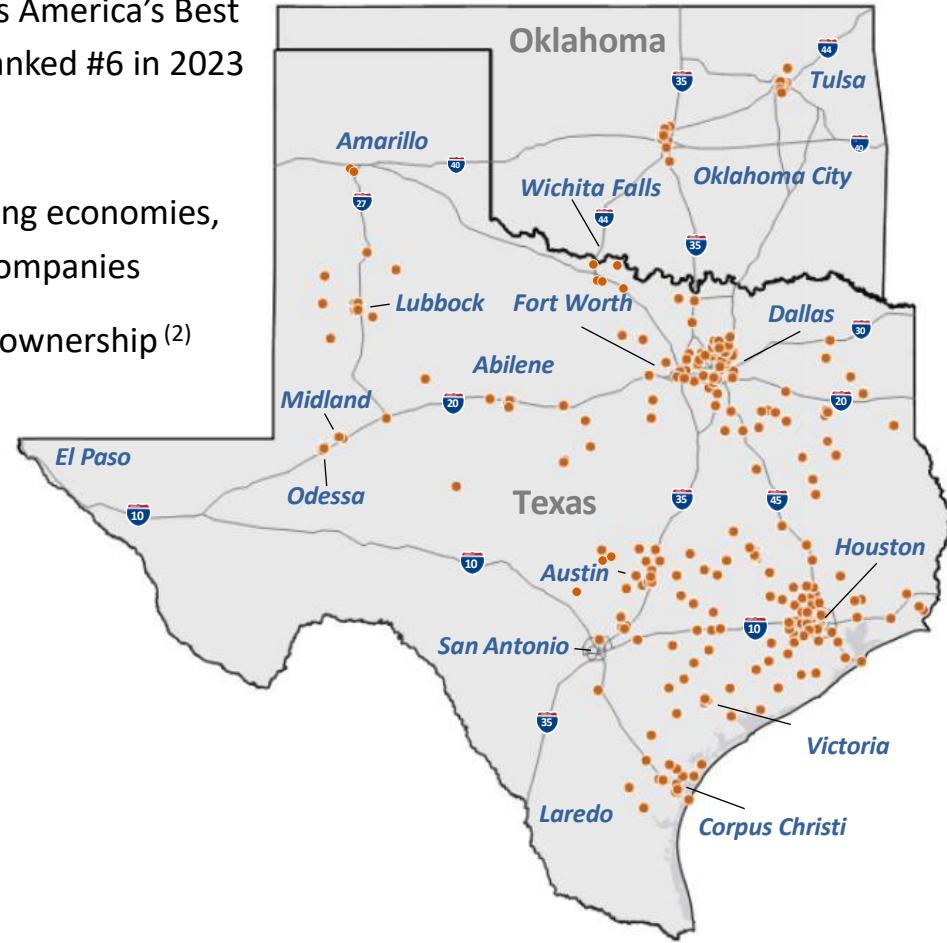
- Net income of \$112.2 million, or \$113.1 million excluding after-tax merger related provision and expenses
- Earnings per share (diluted) of \$1.20, or \$1.21 excluding after-tax merger related provision and expenses
- Assets of \$39.3 billion, total loans of \$21.4 billion, and deposits of \$27.3 billion at September 30, 2023
- Common equity tier 1 ratio of 14.98% and leverage ratio of 10.03% at September 30, 2023
- Deposits, excluding public fund deposits, increased \$259.9 million, with no brokered deposits purchased
- Loans, excluding Warehouse Purchase Program loans and loans acquired in the Merger, increased \$111.1 million during third quarter 2023
- Net interest margin was stable at 2.72%, a decrease of 1 basis point from the second quarter 2023
- Sound asset quality with annualized net charge-offs / quarterly average loans of 0.06%
- Nonperforming assets to average earning assets remain low at 0.20% or \$69.5 million
- Allowance for credit losses on loans and on off-balance sheet credit exposure of \$388.0 million
- Increased cash dividend 1.8% to \$0.56 for the fourth quarter 2023, representing the 20th consecutive year of increases and a compounded annual growth rate of 11.5%
- Pending merger with Lone Star State Bancshares, Inc.

Strong Presence in Texas and Oklahoma

- A Texas-based financial holding company with \$39.3 billion in total assets
- Prosperity has been ranked in the Top 10 of Forbes America's Best Banks since the list's inception in 2010, and was ranked #6 in 2023
- Ranked #2 in deposit market share in Texas ⁽¹⁾
- Texas and Oklahoma continue to benefit from strong economies, and are home to 61 Fortune 500 headquartered companies
- Shareholder driven with 4.2% fully diluted insider ownership ⁽²⁾
- Successful completion of 44 acquisitions (whole bank, branch and failed bank transactions)

285 Full-Service Locations

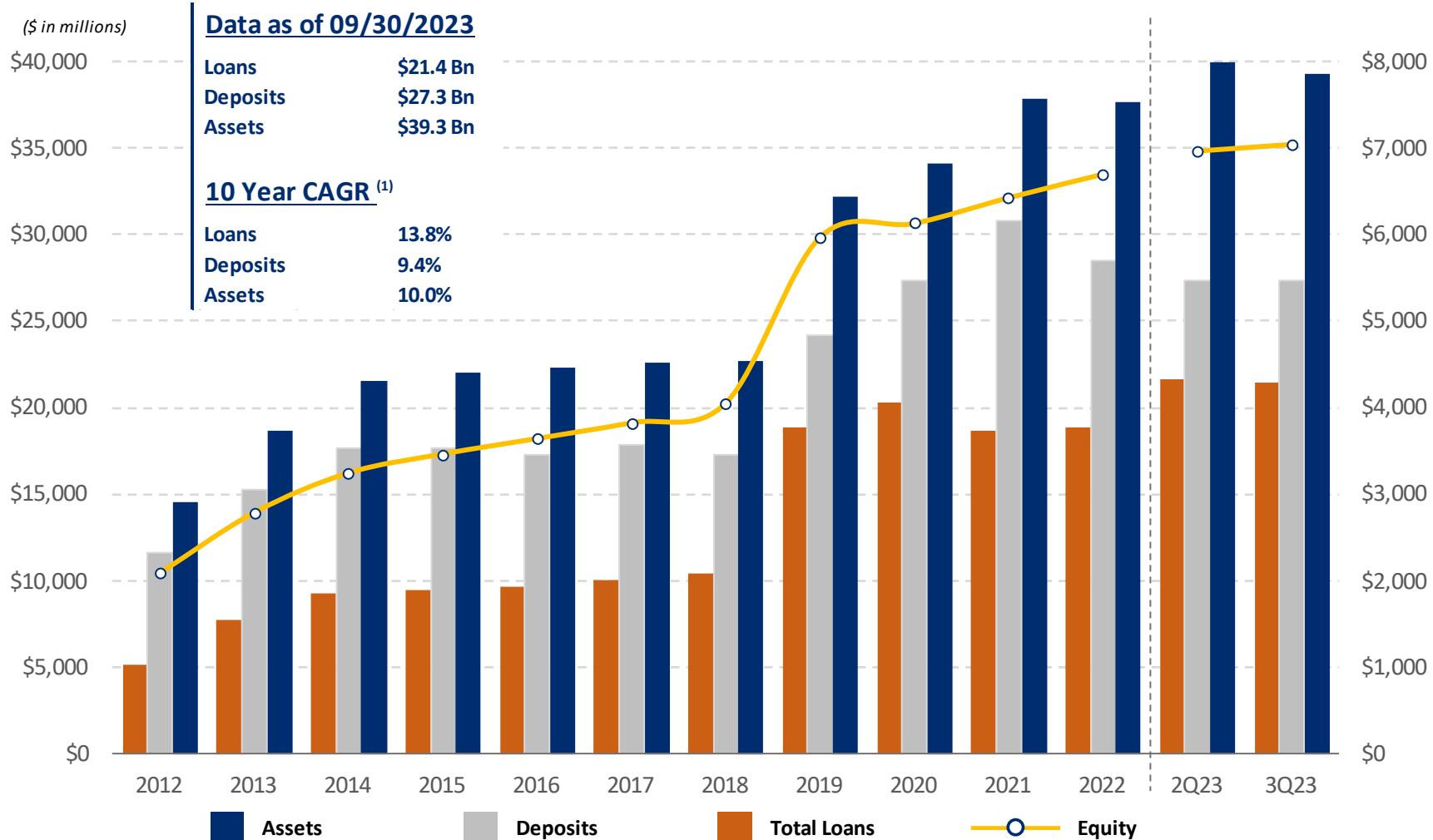
- | | |
|----|-------------------------------|
| 16 | in Bryan/College Station Area |
| 6 | in Central Oklahoma Area |
| 32 | in Central Texas Area |
| 62 | in Dallas/Fort Worth Area |
| 22 | in East Texas Area |
| 65 | in Houston Area |
| 30 | in South Texas Area |
| 8 | in Tulsa Area |
| 44 | in West Texas Area |



(1) Per FDIC; Includes Texas headquartered commercial banks; Deposits as of 6/30/2023

(2) Per proxy statement (Form DEF 14A) filed on 3/15/2023

Balance Sheet Summary



Source: Company Documents

(1) Represents the Compound Annual Growth Rate from 12/31/2012 – 12/31/2022

Net Income



Note: Net income includes the following (\$ in thousands)

Provision for Credit Losses	\$6,100	\$17,240	\$18,275	\$7,560	\$24,000	\$14,325	\$16,350	\$4,300	\$20,000	-	-	\$18,540	-
Loan Discount Accretion	\$26,413	\$62,723	\$95,875	\$52,122	\$38,970	\$21,906	\$13,909	\$28,045	\$91,341	\$39,278	\$7,401	\$2,420	\$2,275



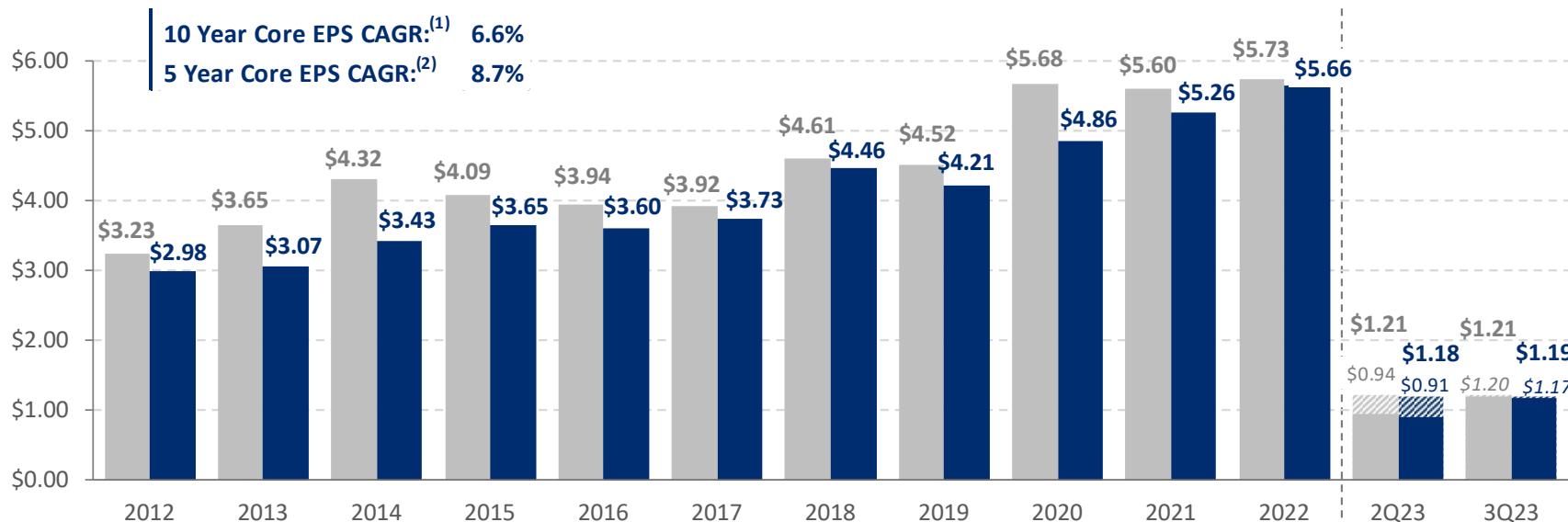
Source: Company Documents

(1) Represents the Compound Annual Growth Rate of net income (excluding purchase accounting adjustments) from 12/31/2012 – 12/31/2022

(2) Represents the Compound Annual Growth Rate of net income (excluding purchase accounting adjustments) from 12/31/2017 – 12/31/2022

(3) Excludes after-tax merger related provision and expenses related to the recently completed First Bancshares of Texas, Inc. acquisition.

Earnings Per Share



Note: Net income includes the following (\$ in thousands)

Provision for Credit Losses	\$6,100	\$17,240	\$18,275	\$7,560	\$24,000	\$14,325	\$16,350	\$4,300	\$20,000	-	-	\$18,540	-
Loan Discount Accretion	\$26,413	\$62,723	\$95,875	\$52,122	\$38,970	\$21,906	\$13,909	\$28,045	\$91,341	\$39,278	\$7,401	\$2,420	\$2,275



EPS



Core EPS (Excluding Purchase Accounting Adjustments)



EPS (Excluding Merger Charges)⁽³⁾



Core EPS (Excluding PAA and Merger Charges)⁽³⁾

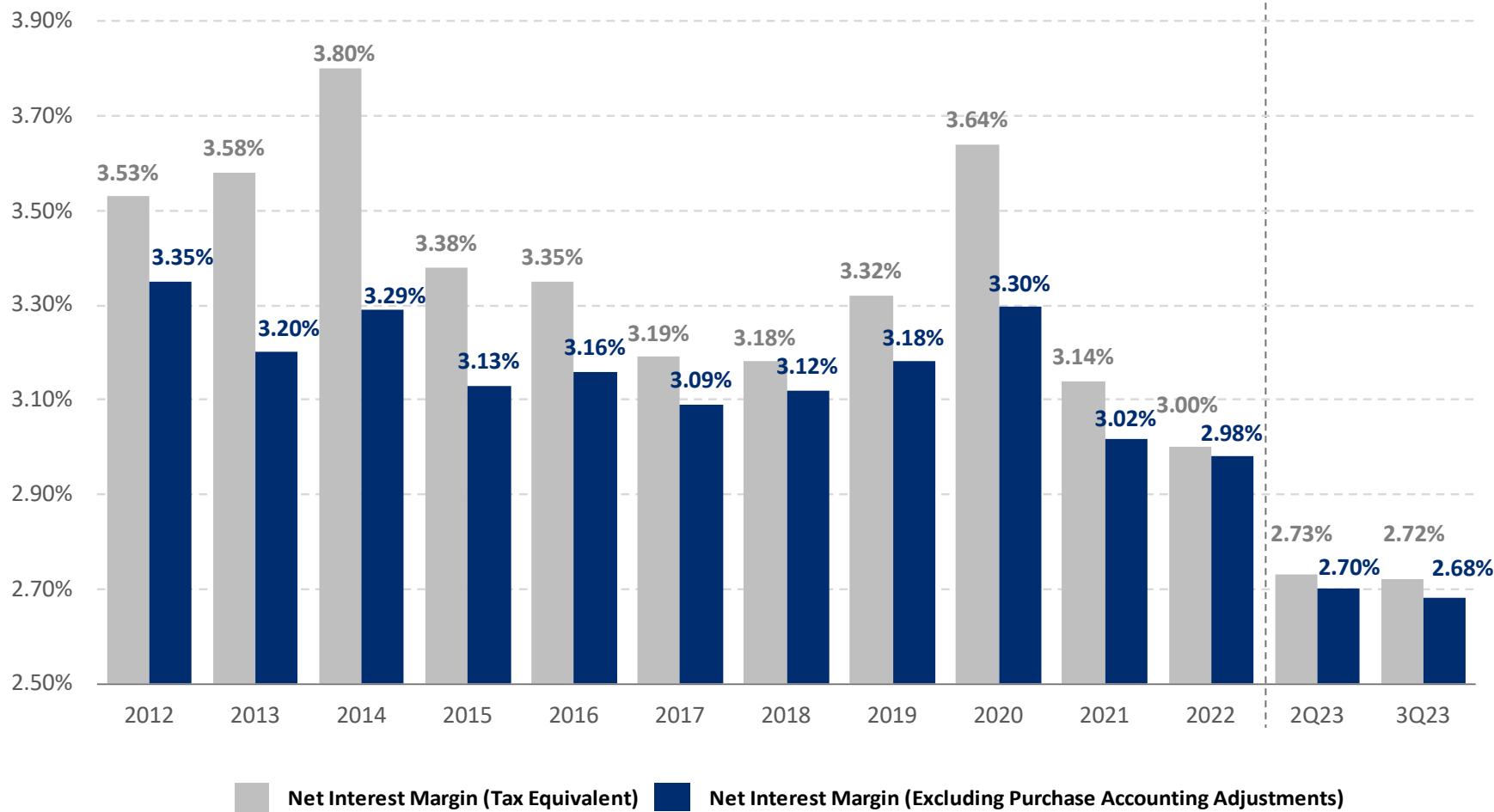
Source: Company Documents

(1) Represents the Compound Annual Growth Rate for EPS (excluding purchase accounting adjustments) from 12/31/2012 – 12/31/2022

(2) Represents the Compound Annual Growth Rate for EPS (excluding purchase accounting adjustments) from 12/31/2017 – 12/31/2022

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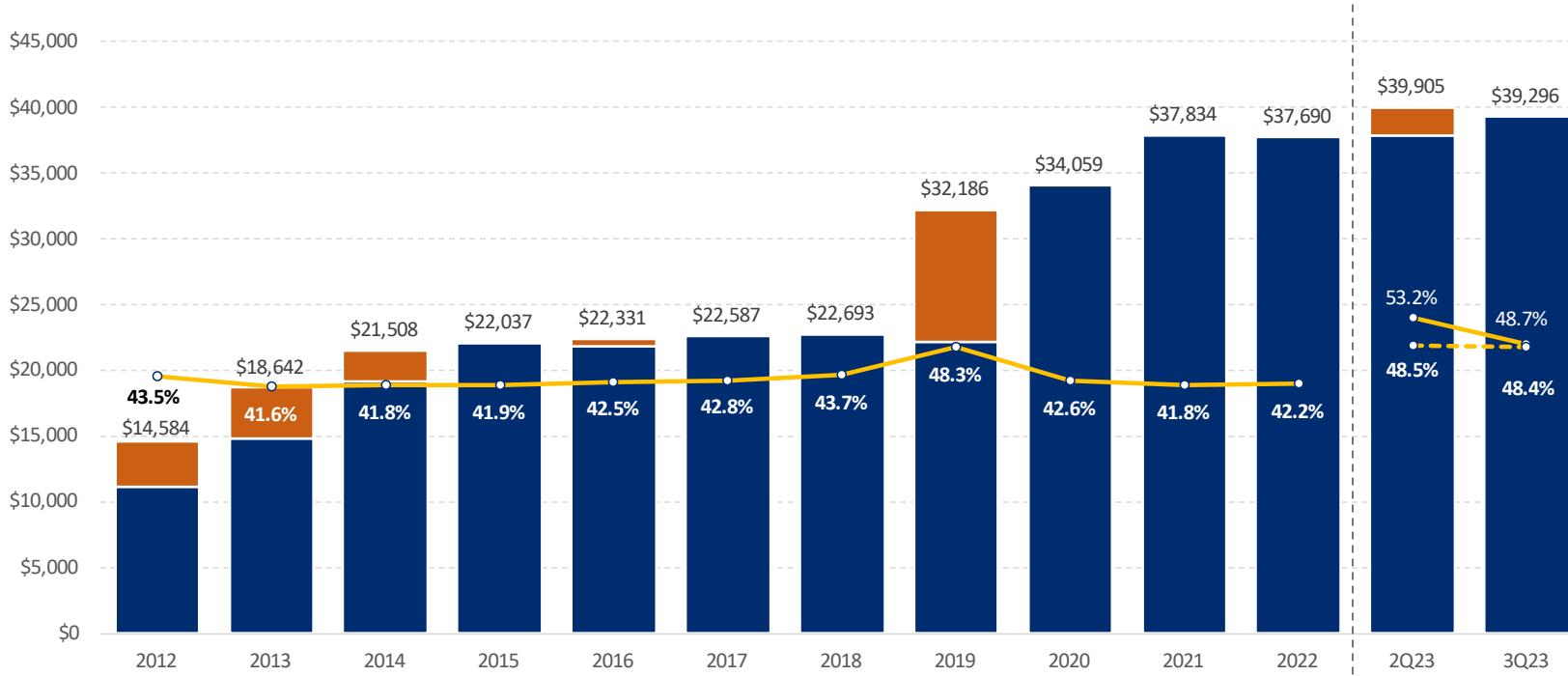
Net Interest Margin



■ Net Interest Margin (Tax Equivalent) ■ Net Interest Margin (Excluding Purchase Accounting Adjustments)

Acquisitions & Efficiency Ratio

(\$'s in millions)



% of Assets Acquired

2012	23.7%
2013	20.9%
2014	11.2%
2015	0.0%
2016	2.5%
2017	0.0%
2018	0.0%
2019	31.3%
2020	0.0%
2021	0.0%
2022	0.0%
2Q23	5.3%
3Q23	0.0%

	Total Assets Excluding Acquisitions		Total Assets Acquired ⁽¹⁾	○	Efficiency Ratio⁽²⁾
				○ - - -	Efficiency Ratio (Excluding Merger Charges)⁽³⁾

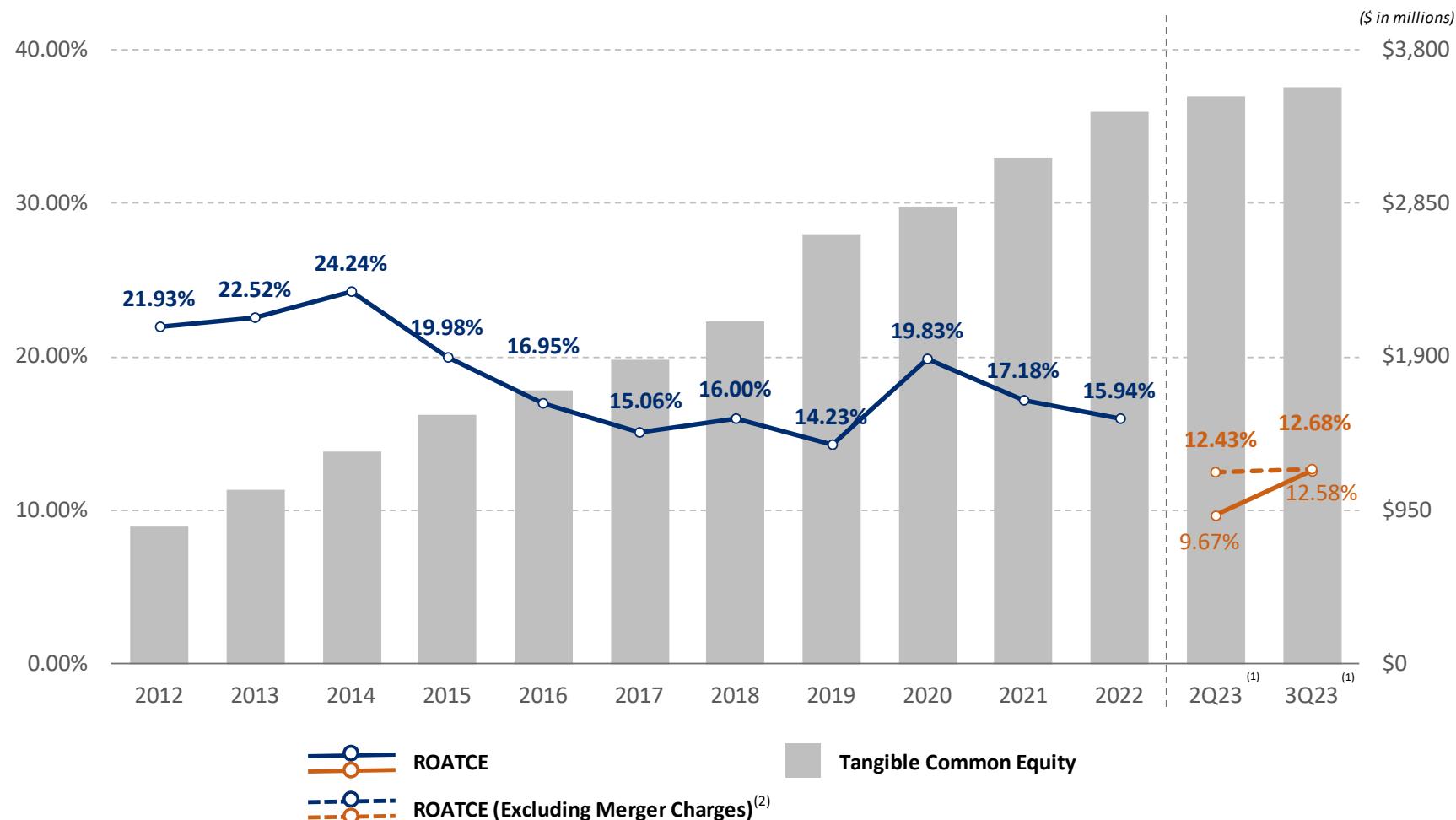
Source: Company Documents

(1) Representative of target assets at closing

(2) Calculated by dividing total noninterest expense, excluding credit loss provisions, by net interest income plus noninterest income, excluding net gains and losses on the sale or write down of assets and securities. Additionally, taxes are not part of this calculation.

(3) Excludes after-tax merger related provision and expenses related to the recently completed First Bancshares of Texas, Inc. acquisition

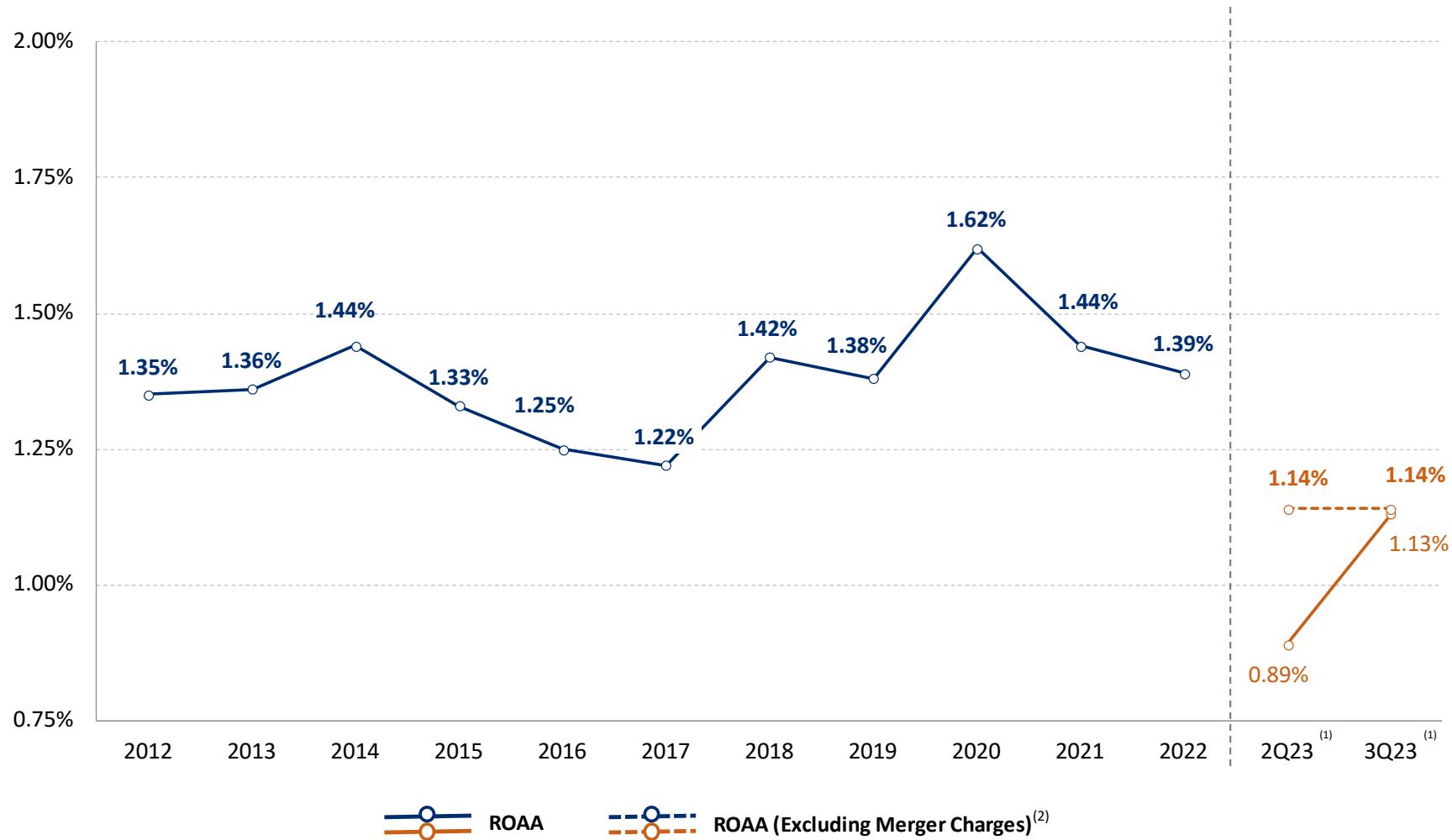
Return on Average Tangible Common Equity



(1) Interim periods shown on an annualized basis

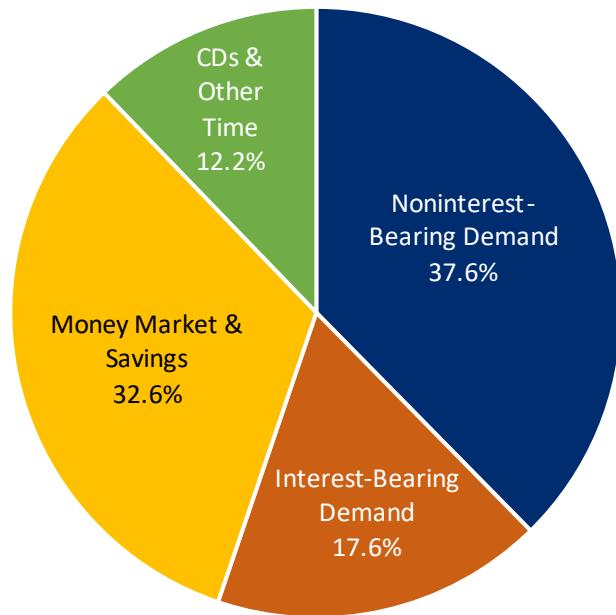
(2) Excludes after-tax merger related provision and expenses related to the recently completed First Bancshares of Texas, Inc. acquisition

Return on Average Assets



Deposit Composition

As of September 30, 2023
(\$ in millions)



	\$mm	Cost (%) ⁽¹⁾
Noninterest-Bearing Demand	\$10,282	0.00%
Interest-Bearing Demand	\$4,797	0.43%
Money Market & Savings	\$8,898	1.96%
CDs & Other Time	\$3,335	3.31%

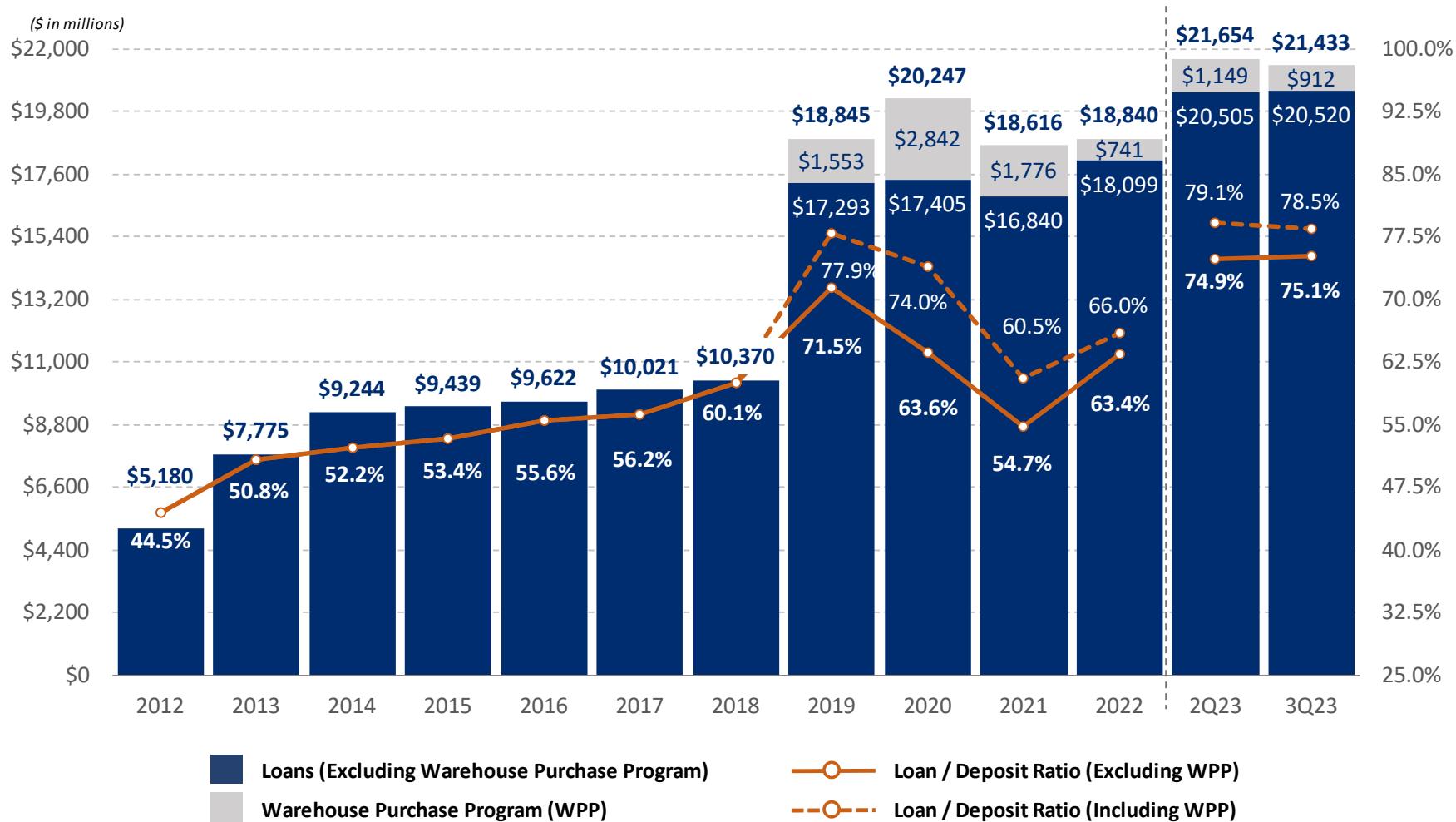
Total Deposits: \$27.3Bn
Total Cost of Deposits: 1.11%⁽¹⁾
Cost of Interest-Bearing Deposits: 1.78%⁽¹⁾

Source: Company Documents

(1) Data for the three months ended September 30, 2023

(2) Includes deposits of public fund entities which are fully collateralized deposits with securities

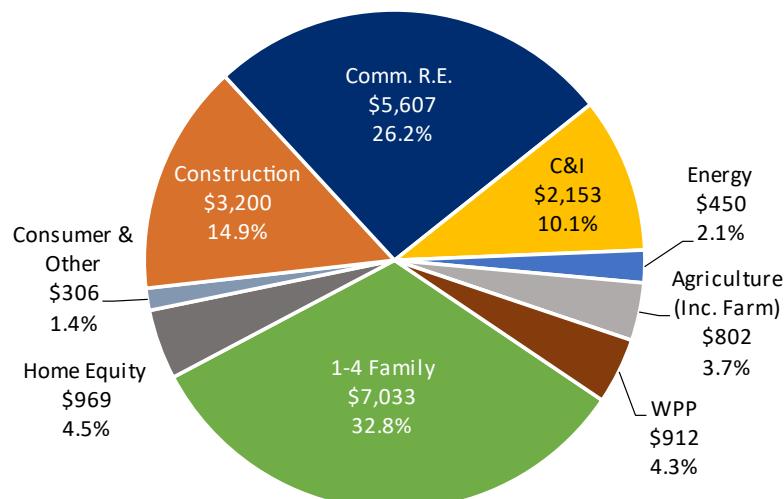
Loan Growth



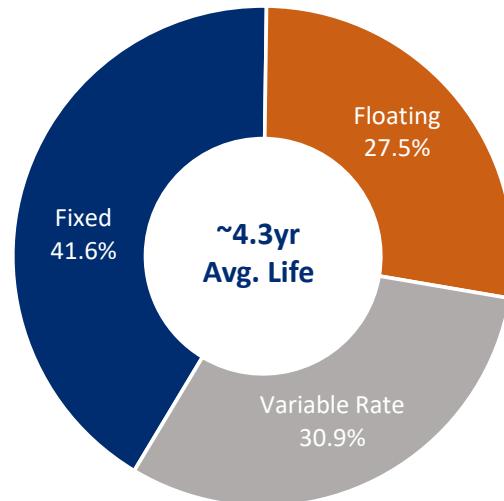
Loan Portfolio Overview

As of September 30, 2023
(\$ in millions)

Loan Portfolio by Category & Geography



Loans by Rate Structure



<u>Loans By Area</u>	<u>Amount⁽²⁾⁽⁴⁾</u>	<u>% of Total</u>
Bryan / College Station	\$822	4.0%
Central Oklahoma	\$610	3.0%
Central Texas	\$2,622	12.8%
Dallas / Ft. Worth	\$6,694	32.7%
East Texas	\$739	3.6%
Houston	\$4,717	23.0%
South Texas	\$1,457	7.1%
Tulsa	\$600	2.9%
West Texas	\$2,204	10.8%

Total Loans: \$21.4Bn

Loans HFI (Excl. WPP): \$20.5Bn

Yield on Total Loans: 5.70%⁽¹⁾

Yield on Loans HFI (Excl. WPP): 5.62%⁽¹⁾

Core Yield on Loans HFI (Excl. WPP): 5.58%⁽¹⁾⁽³⁾

Source: Company Documents

(1) Data for the three months ended September 30, 2023

(2) Excludes \$53 million in loans assigned to the Corporate Group

(3) Core yield excludes purchase accounting adjustments

(4) Excludes Warehouse Purchase Program (WPP) loans

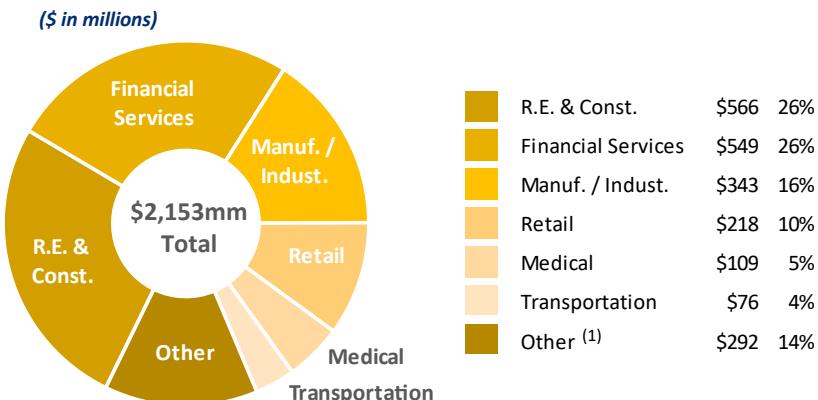
Loan Portfolio Detail

As of September 30, 2023
(\$ in millions)

Portfolio Commentary

- Loan portfolio is diversified across the Bank's market areas and by underlying collateral type
- CRE and construction loans conservatively underwritten to cost of collateral
- 36% of commercial real estate is owner occupied
- Average total CRE loan-to-value of 54%
- Average office CRE loan-to-value of 51%
- Non-owner-occupied office CRE of \$491 million, or 2.3% of total loans

C&I Detail (Excluding Energy Loans)



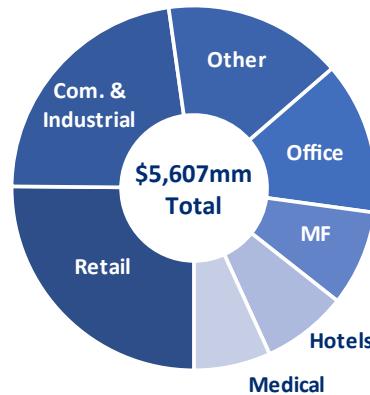
Source: Company Documents

(1) Includes State & Political loans

(2) Total includes a net unaccrued discount of (\$820,000) not shown in graph

Commercial Real Estate Detail

(\$ in millions)

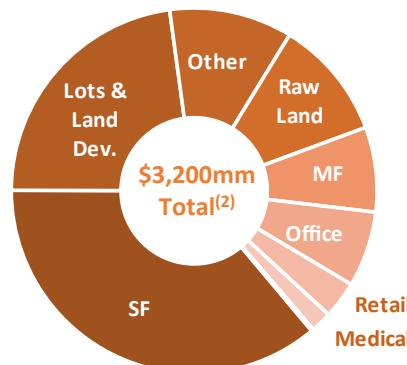


Retail	\$1,410	25%
Industrial	\$1,269	23%
Other	\$890	16%
Office	\$758	14%
Multifamily (MF)	\$474	8%
Hotels	\$425	8%
Medical	\$381	7%

Note: Average CRE loan balance outstanding equal to \$987 thousand

Construction Detail

(\$ in millions)

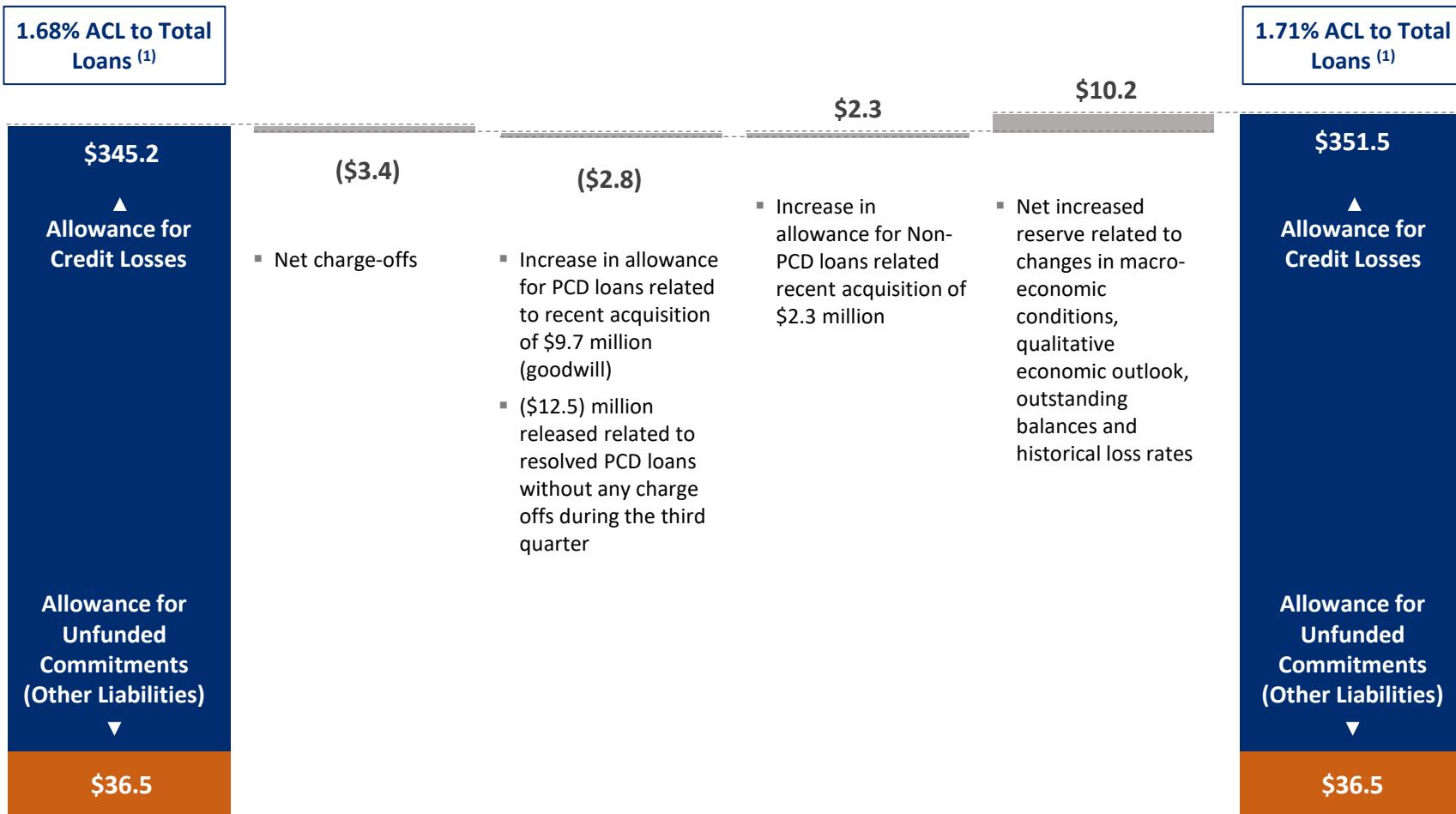


Single Family (SF)	\$1,157	36%
Lots & Land Dev.	\$730	23%
Other	\$349	11%
Raw Land	\$340	11%
Multifamily (MF)	\$240	8%
Office	\$214	7%
Retail	\$105	3%
Medical	\$59	2%
Hotels	\$6	0%

Changes to Allowance for Credit Losses

(\$ in millions)

\$381.7 million ----- Total Allowance for Credit Losses and Unfunded Commitments ----- \$388.0 million



Q2 2023 ACL

Portfolio Changes

PCD Related

Non-PCD Related

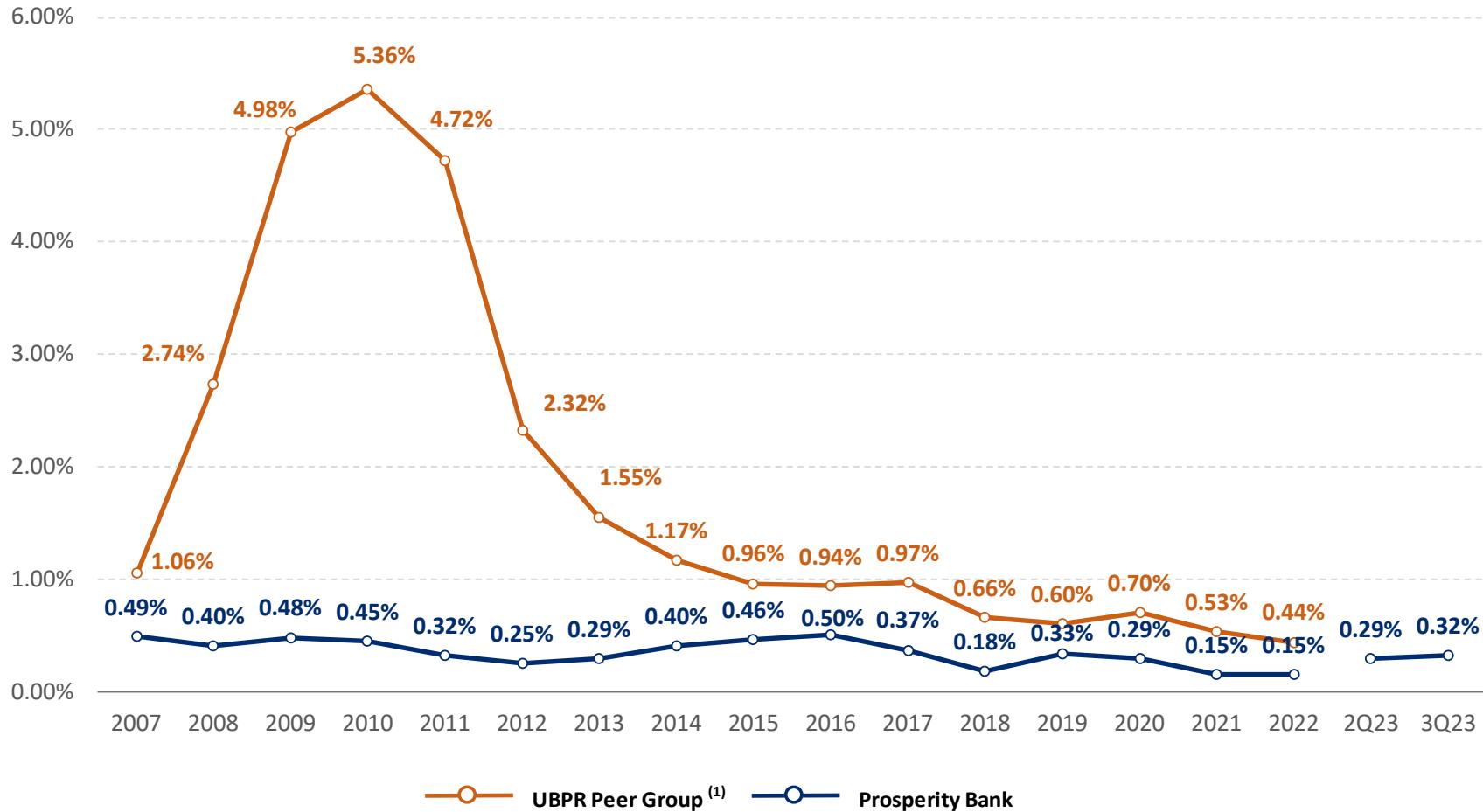
Environmental, Balances and
Loss Rates

Q3 2023 ACL

PB
LISTED
NYSE

Asset Quality

NPAs / Loans + OREO



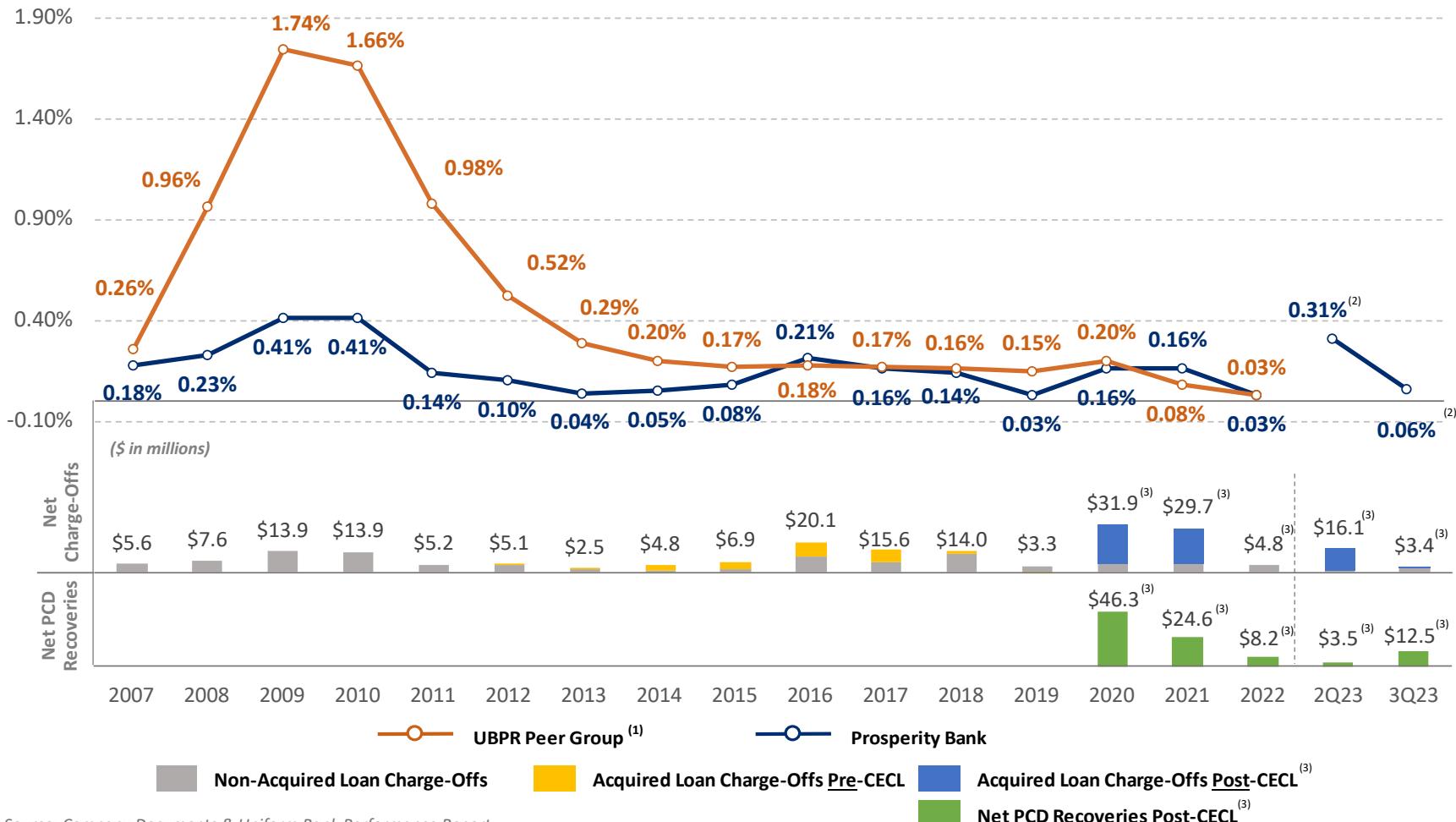
Source: Company Documents & Uniform Bank Performance Report

Note: NPAs include loans past due 90 days and still accruing

(1) UBPR = Uniform Bank Performance Report; Peer Group 2 (112 banks) – Insured commercial banks having assets between \$10 billion and \$100 billion

Asset Quality

Net Charge-Offs / Average Loans



Source: Company Documents & Uniform Bank Performance Report

Note: NPAs include loans past due 90 days and still accruing

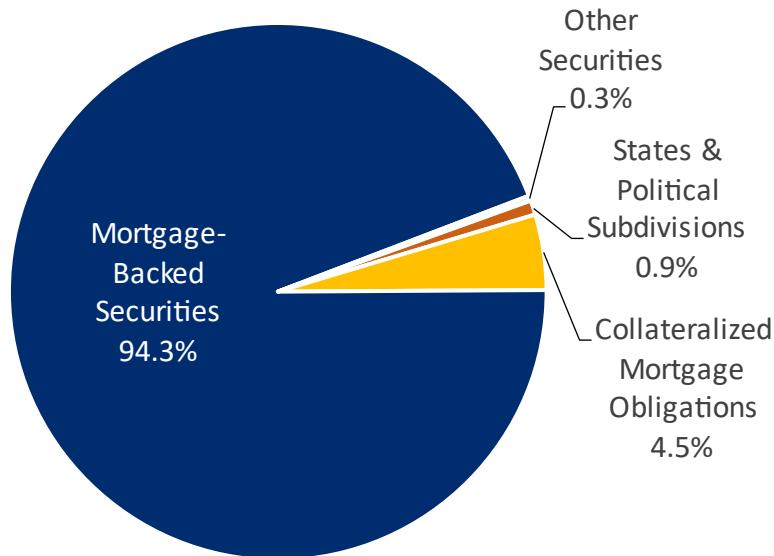
(1) UBPR = Uniform Bank Performance Report; Peer Group 2 (112 banks) – Insured commercial banks having assets between \$10 billion and \$100 billion

(2) Interim period net charge-off ratios shown on an annualized basis

(3) Reflects all charge-offs and recoveries on acquired loans in accordance with CECL accounting practices; Prior to the adoption of CECL in the first quarter of 2020, PCD loans were classified as Purchased Credit Impaired (PCI) loans and their assigned fair-value marks were netted against the outstanding loan balance with a charge-off only being recorded when the loss exceeded the amount of fair-value marks remaining.

Securities Portfolio Detail

As of September 30, 2023
(\$ in millions)



96.6% Held to Maturity
3.4% Available for Sale

	\$mm
Mortgage-Backed Securities	\$12,439
Collateralized Mortgage Obligations	\$599
States & Political Subdivisions	\$114
Other Securities	\$33

Total Securities: \$13.2Bn
Yield on Securities: 2.05%⁽¹⁾
Duration: ~4.5 Yrs.⁽²⁾
Avg. Yearly Cash Flow: ~\$2.1Bn

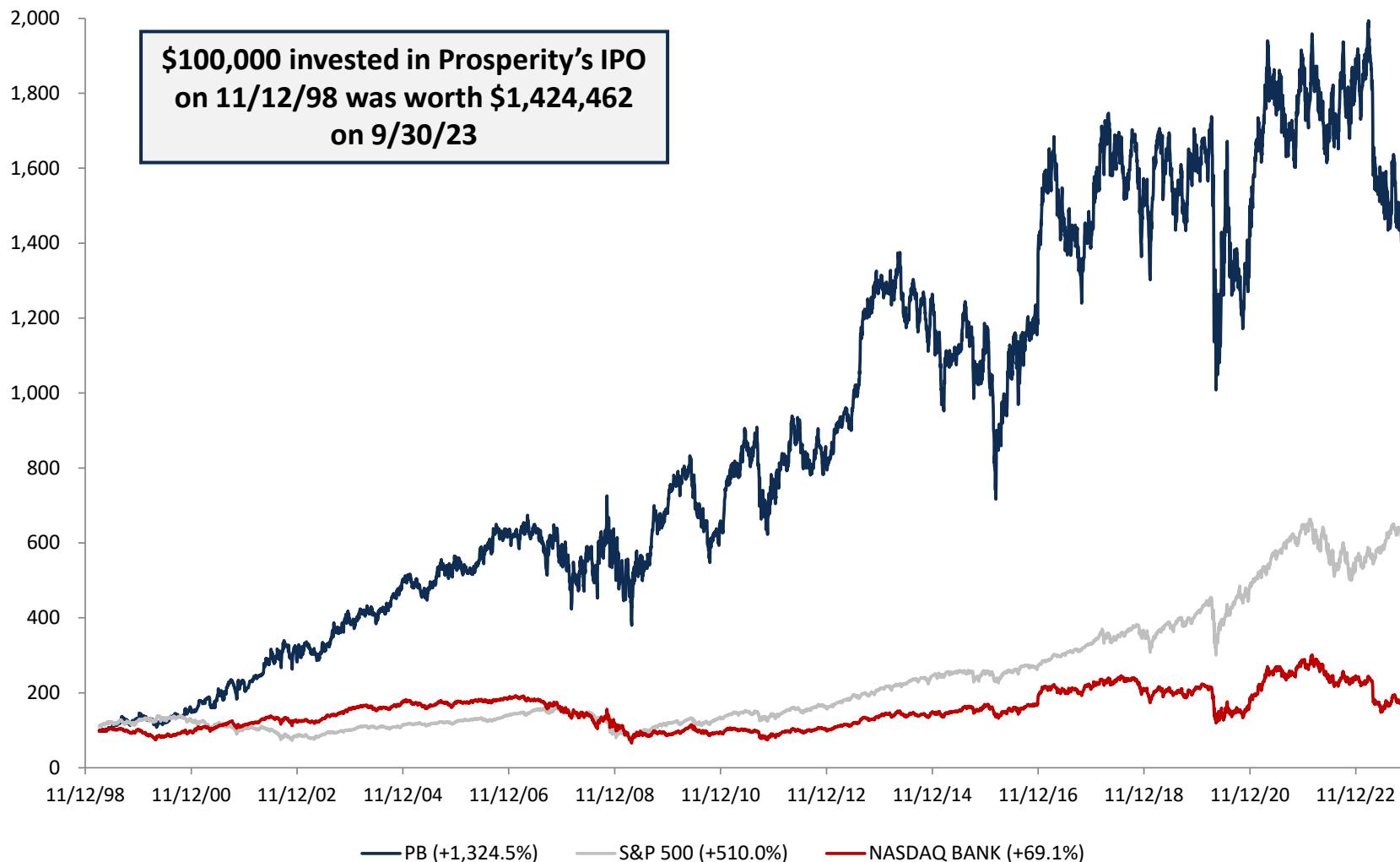
Source: Company Documents

(1) Data for the three months ended September 30, 2023

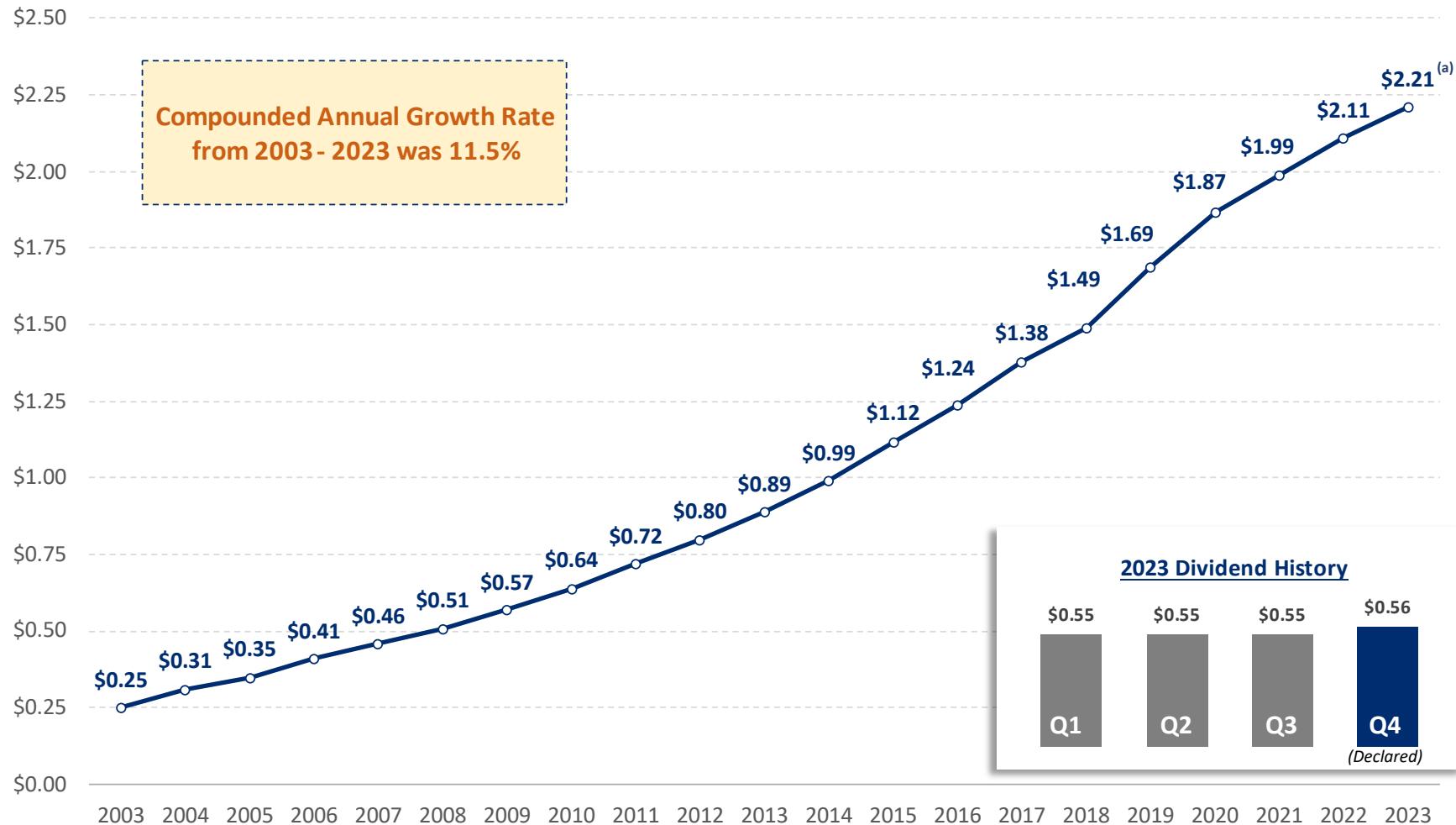
(2) Effective duration +300bps shown; Effective duration -300bps equal to 4.6 years; Weighted average life equal to 5.2 years

Total Return Performance

IPO (November 12, 1998) to September 30, 2023

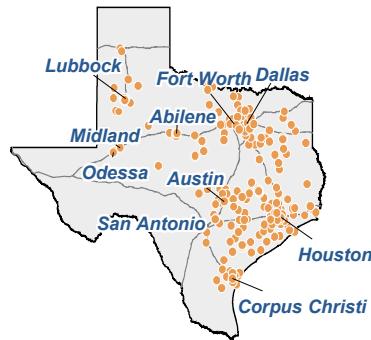


Dividend History



Presence in Fast-Growing Markets

Positioned in Strong Markets



- Today, Texas is the 2nd largest state in the U.S. by population with over 30 million residents
- Ranked #1 on the Fortune 500 list with 55 headquartered companies in 2023
- Ranked #1 state for business for the 9th consecutive time by U.S. corporate executives in an International Economic Development Council survey

Top 10 Fastest Growing MSAs in the U.S. ⁽¹⁾

Metropolitan Statistical Area	Prosperity Presence	Prosperity Deposits (\$mm)	2023 - 2028 Population Growth
Austin-Round Rock-Georgetown, TX	✓	\$1,309	7.8%
Raleigh-Cary, NC			7.4%
Jacksonville, FL			6.9%
Orlando-Kissimmee-Sanford, FL			6.3%
Nashville-Davidson--Murfreesboro--Franklin, TN			6.1%
Charlotte-Concord-Gastonia, NC-SC			5.8%
Tampa-St. Petersburg-Clearwater, FL			5.2%
San Antonio-New Braunfels, TX	✓	\$541	5.0%
Dallas-Fort Worth-Arlington, TX	✓	\$6,492	5.0%
Houston-The Woodlands-Sugar Land, TX	✓	\$5,648	4.8%



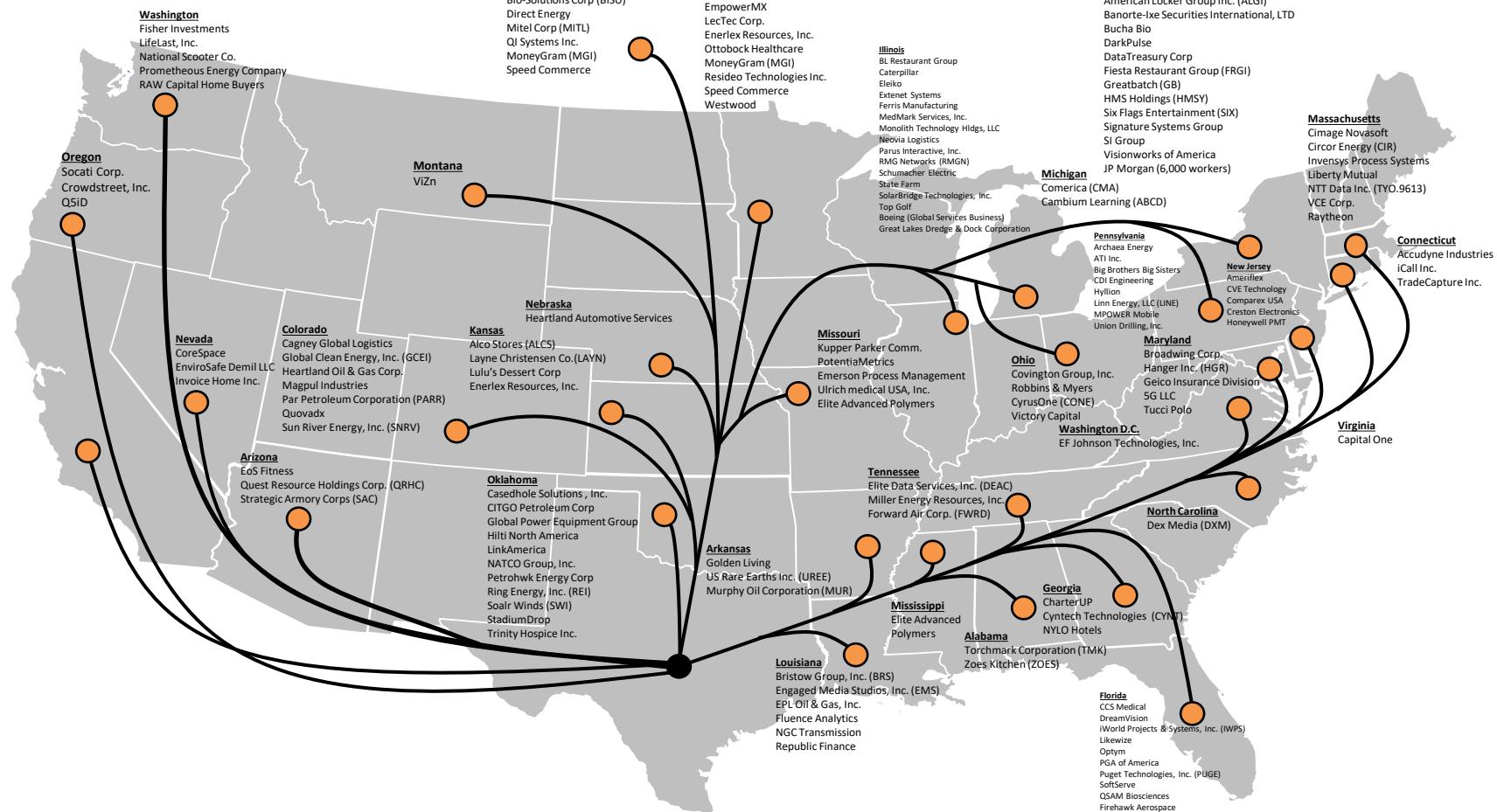
- Oklahoma City and Tulsa MSAs comprise over 60% of the state's population
- Oklahoma is home to 6 of the 2023 Fortune 500 Companies
- Top 5 state for production of natural gas and production of crude oil
- Oklahoma is one of the top 10 producers of wheat in the United States

- Presence in four of the fastest growing MSAs in the United States

Corporate Relocations to Texas

Corporate Relocations to Texas (2004 – Present)

California
 Autonomy
 AccentCare
 Adonis Networks
 AEND Industries, Inc.
 AECOM
 The Allen Group, Inc.
 Allstate Auto Recycling
 AllyMe Group, Inc.
 ALL-TELL Corp.
 American Express
 Ameriflight LLC
 Anything Liquid Manufacturing
 Aviat Networks, Inc.
 Avista
 Banker's Toolbox, Inc.
 Bongo Wireless
 Britek
 Boardland Software Corporation
 Cacique Foods
 Caliber Collision Centers
 Capita
 CCR Travel Solutions
 CellPoint Science
 Chertco Commercial Corp.
 CompasLearning
 Consolidated Electrical Distributors
 Cospace (COSP)
 CoreMark
 Daegis, Inc. (DAGS)
 DUCN Home Solutions, Inc.
 DRG
 Digital Reality
 Dimension Fund Advisors
 DMG MUSIC, Inc.
 DynaPump,
 DLM Laboratories
 EBC Software Corporation
 Farmer Brothers (FARM)
 Farmer Veteran Coalition
 Fisher Investments
 Firefly Space Systems
 First Foundation, Inc.
 Fluor Corporation (FLR)
 FutureWorld Burrito
 Foothills
 Green Dot
 Government Global Solutions
 Goodyear Rod & Custom Association
 Harmonics
 HBCI (HBCI)
 Hewlett-Packard Enterprise
 HID Global
 Hilti
 Hobart
 Integrated Defense Products (IDP)
 Ironclad Performance Wear Corp.
 JCI, Inc.
 Jambo Juice Company
 Kelly-Moore Paints
 Kubota
 Lennar Homes Corporation
 Liberty Fitness Holdings, LLC
 LoanDepot, LLC
 Magellan
 MC Endeavors, Inc. (MSM)
 McKesson Corp (MKK)
 MDR Capital
 MDR
 Mondelēz
 Monkey Sports Inc.
 Monolithic Corporation
 M2M Certified, Inc.
 Noodoe (NODD)
 Oceaneering Petroleum (OOP)
 Obag Cosmeticals
 OmniTracs
 Oracle Corporation
 OracleClear, Inc.
 PacificClear, Inc.
 Pan American Financial
 PBM HealthCorporation (PRIM)
 PaineWebber Corporation (PRIM)
 Quality Custom Distribution Services, Inc.
 QuestionPro Inc.
 Red Bull
 Red Mango, Inc.
 Review Wave
 Rhenius, Inc.
 Rifle Gear
 Right On Brands, Inc.
 Ruiz Auto Parts
 Safe Energy
 Sionis Corp. (SINX)
 Solectria Holdings (SLH)
 Southwestern Bell
 Semiconductor Technologies (SCON)
 Telmar Network Technology, Inc.
 Tenet Healthcare (THC)
 T-Mobile, Inc. (TMU)
 Thermosol
 Thermo
 Toyota USA (TMI)
 Trend Micro (TYO:4704)
 Venture Resource Management
 Venerable, Inc. (VRLM)
 Visual Numerics
 W3global
 Waste Connections, Inc. (WCN)
 Webcor
 Xeris Pharmaceuticals



Houston Market Highlights

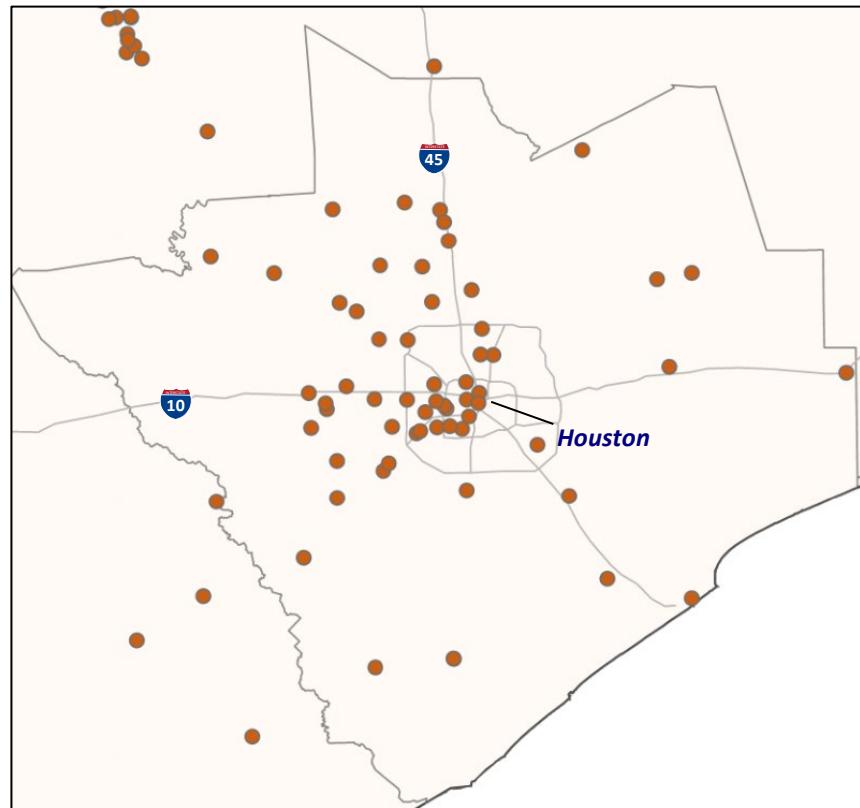
Market Highlights

- Houston MSA is the 5th largest in the United States by population with nearly 7.4 million residents
 - Population is expected to grow 4.8% from 2023 - 2028
 - Median Household Income is expected to grow 8.7% from 2023 - 2028
- Home to NASA's Johnson Space Center and Texas Medical Center – the world's largest medical complex
- As of August 2023, total nonfarm employment has increased 2.7% YoY, compared to the 12 month statewide increase of 2.8% and the nationwide increase of 2.0%
 - Employment in Houston has increased 2.1% YoY in the professional and business services sector and 5.3% YoY in the education and health services sector, compared to 1.2% and 4.3% statewide, respectively
- Houston has the largest export market in the U.S.
 - Through June 2023, the four seaports in the Houston-area – Freeport, Galveston, Houston, and Texas City – handled 123.4 million metric tons of cargo, a 1.4% increase from the 121.7 million handled over the comparable period in 2022

Select Fortune 500 Companies



Houston Franchise



Dallas/Ft. Worth Market Highlights

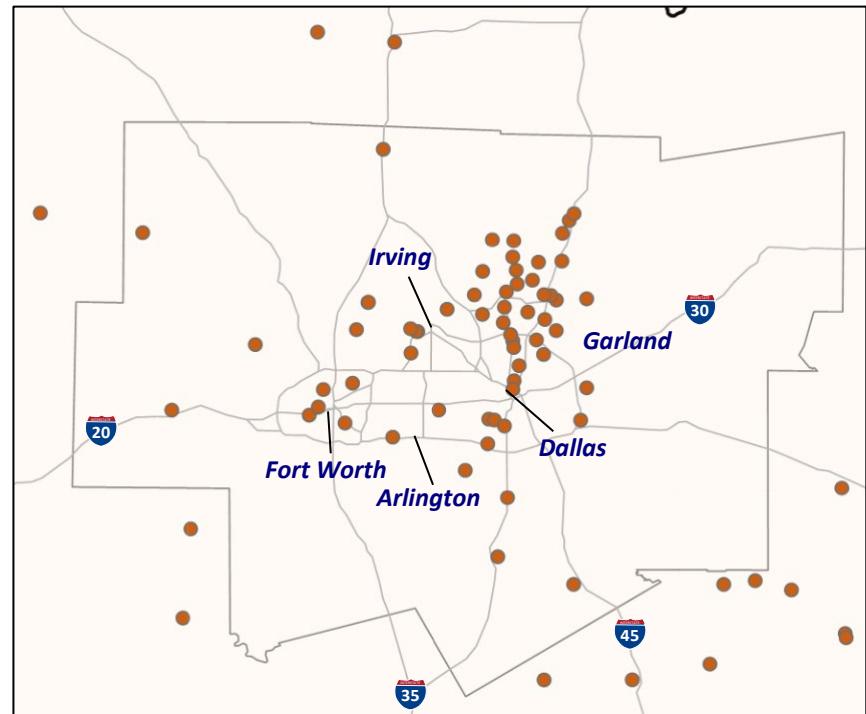
Market Highlights

- Dallas/Ft. Worth MSA is the 4th largest in the United States by population with over 7.9 million residents
 - Population is expected to grow 5.0% from 2023 – 2028
 - Median Household Income is expected to grow 12.1% from 2023 - 2028
- As of August 2023, total nonfarm employment has increased 3.8% YoY, compared to the 12 month statewide increase of 2.8% and the nationwide increase of 2.0%
 - Employment in Dallas/Ft. Worth has increased 4.2% YoY in the financial activities sector and 3.5% YoY in the professional and business services sector, compared to 3.8% and 1.2% statewide, respectively
- The Dallas/Ft. Worth MSA's five-year jobs gain of 583.6K through August 2023 is more than the combined gains of metros with the next highest employment growth, Houston (258.9K) and New York (254.0K)
- Headquarters to 24 Fortune 500 companies

Select Fortune 500 Companies



Dallas / Ft. Worth Franchise

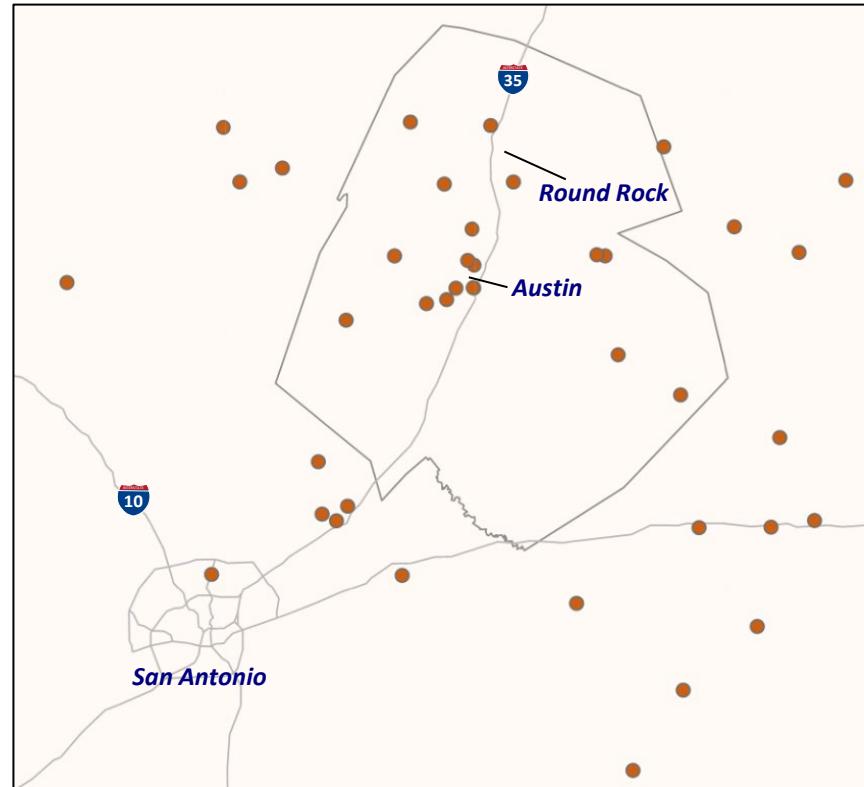


Austin Market Highlights

Market Highlights

- For the 12th consecutive year, the Austin metro area was the fastest growing region in the county, among large metros
 - Ranks first among MSAs for new residents as a percent of total population
- Expected population growth of 7.8% from 2023 - 2028
- As of May 2023, total nonfarm employment has increased 2.4% YoY, compared to the 12 month statewide increase of 2.8% and the nationwide increase of 2.0%
 - As of May 2023 employment in Austin has increased 5.3% YoY in the leisure and hospitality sector and 3.7% YoY in professional and business services, compared to 2.7% and 1.2% statewide, respectively
- 7 companies have begun operations and 13 companies expanded their existing operations in the Austin-Round Rock MSA in Q3 2023
- Austin-Round Rock ranks 2nd for best MSA for STEM professionals amongst the top 100 MSAs

Austin Franchise



Select Fortune 500 Companies



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