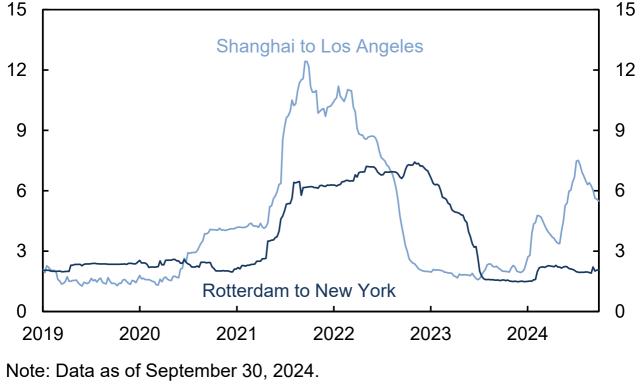
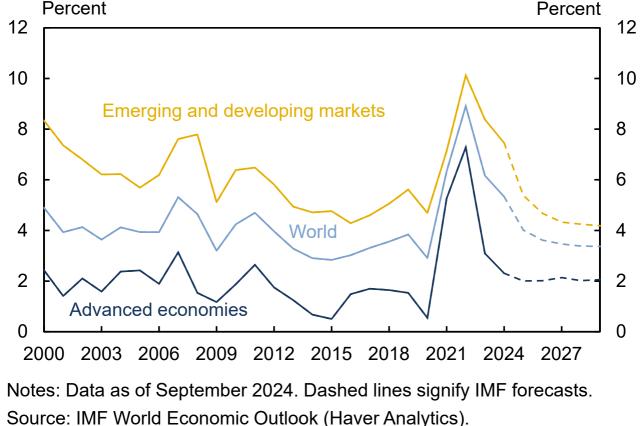
A.1 Container Spot Prices Thousands of US\$

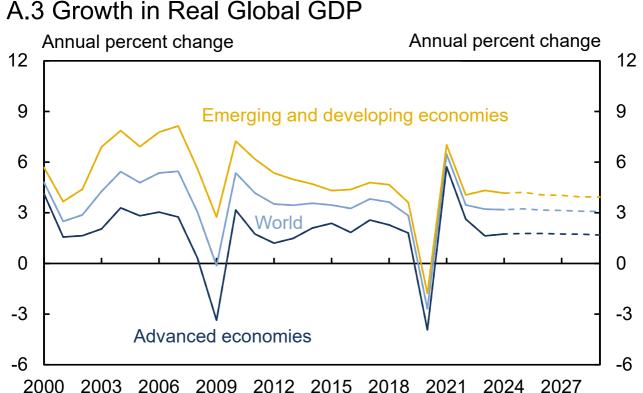


Source: Drewry Shipping Consultants (Bloomberg).

Thousands of US\$

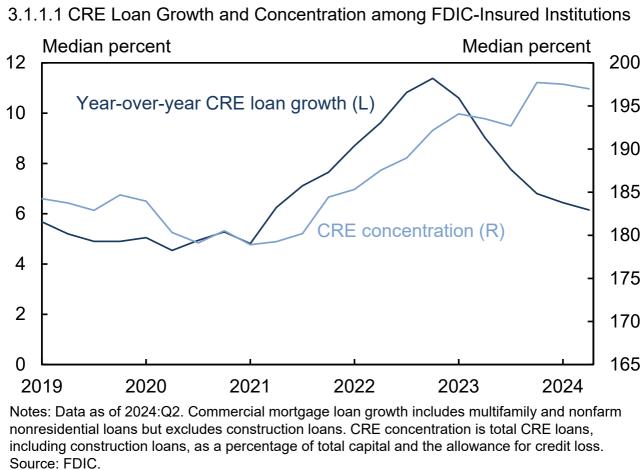
A.2 Global Inflation Rates





Notes: Data as of September 2024. Dashed lines signify IMF forecasts.

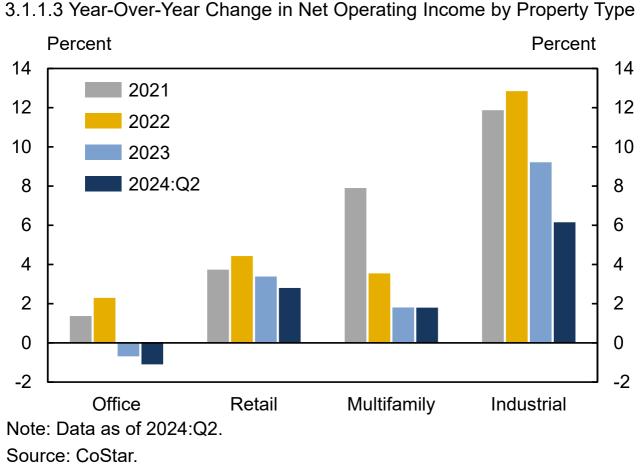
Source: IMF World Economic Outlook (Haver Analytics).

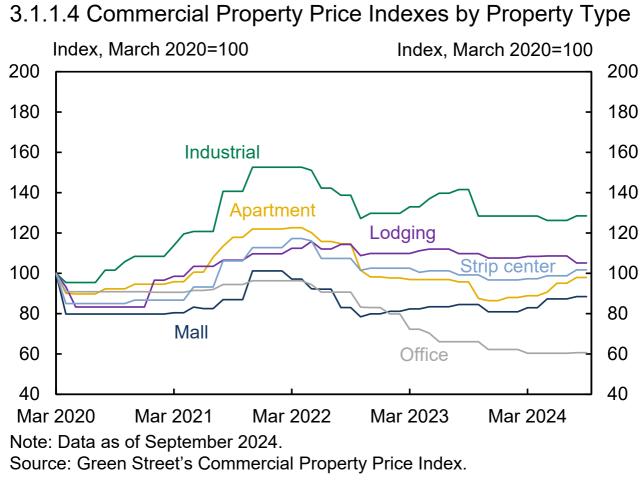


Percent Percent Office Industrial Multifamily Retail

3.1.1.2 Vacancy Rates by Property Type

Note: Data as of 2024:Q2. Source: CoStar.

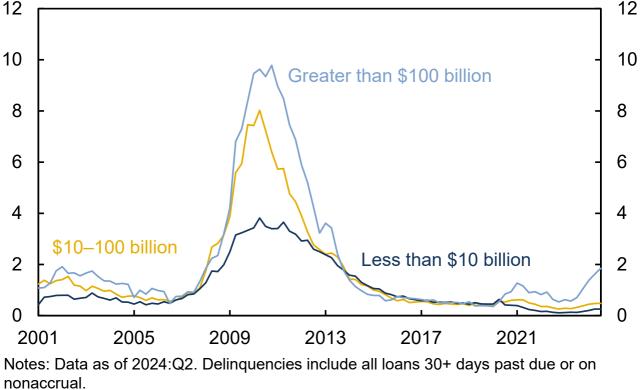




3.1.1.5 Bank CRE Delinquency Rates by Asset Size

Median percent

Median percent



nonaccrual.
Source: FDIC.

B.1 CMBS Losses by Vintage for Bonds with Original AAA Rating Percent Percent Note: Data as of July 2024. Source: Trepp.

Percent

Office loan modification rate (dashed)

Office (solid)

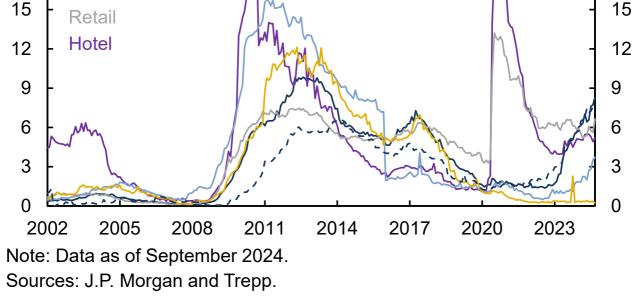
Multifamily
Industrial

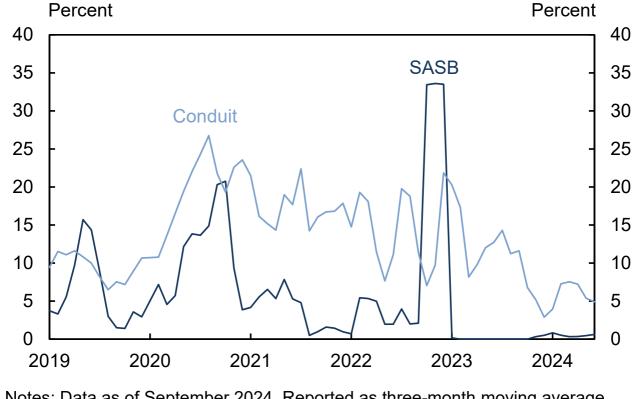
B.2 Private Label CMBS 60+ Day Delinquency Rates and Office Loan Modification Rate

24

21

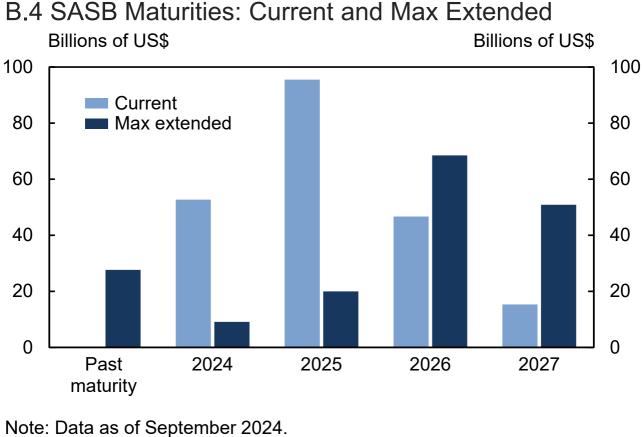
18



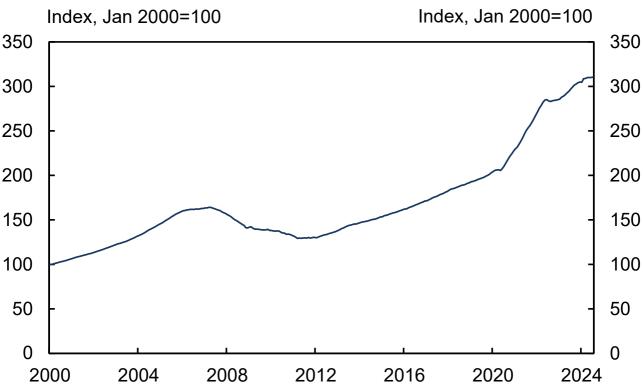


Notes: Data as of September 2024. Reported as three-month moving average. Source: CMA (Deutsche Bank).

B.3 Office Percent of CMBS Issuance



Source: Intex (Deutsche Bank).



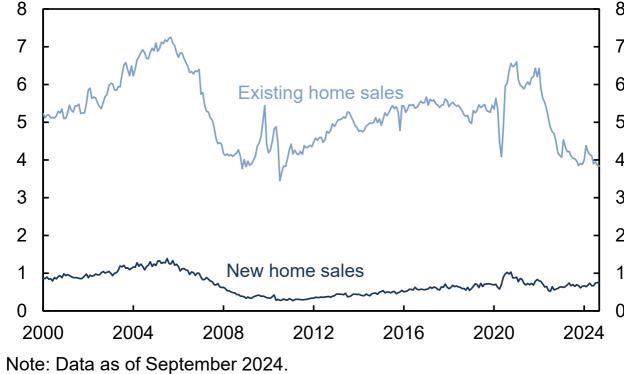
Note: Data as of July 2024.
Source: Federal Housing Finance Agency (FRED).

3.1.2.1 House Price Index

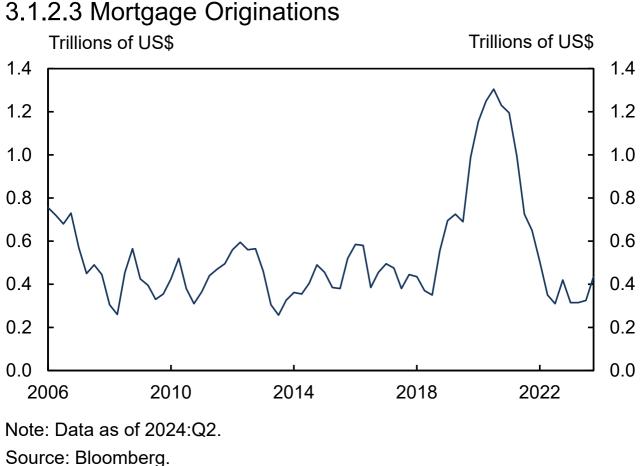
3.1.2.2 New and Existing Monthly Home Sales

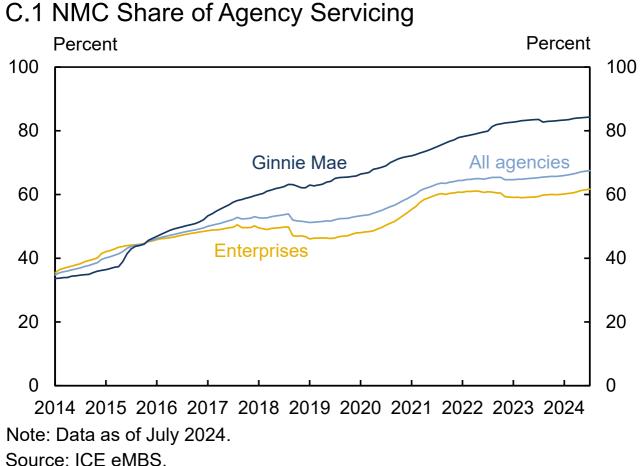
Millions of units

Millions of units



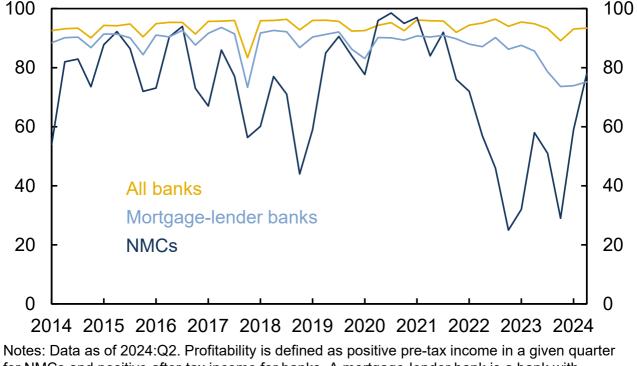
Source: National Association of Realtors (Bloomberg).





C.2 Bank and NMC Profitability Over Time

Percent

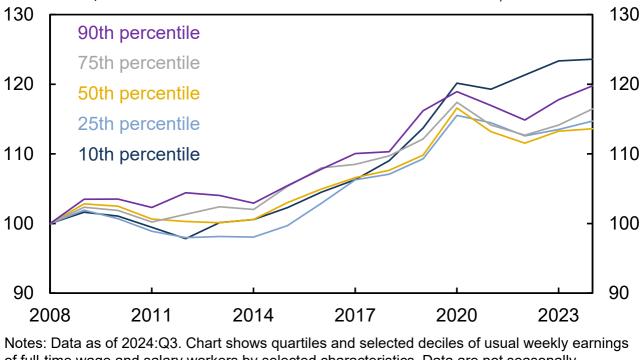


Percent

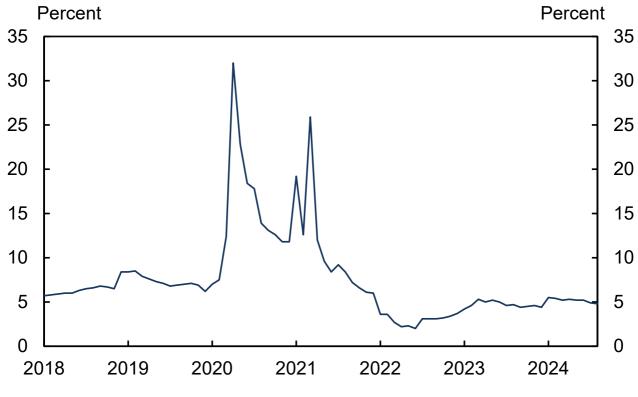
for NMCs and positive after-tax income for banks. A mortgage-lender bank is a bank with residential mortgage loans and MBS in excess of 50 percent of total assets.

Sources: FDIC and Mortgage Bankers Association.

D.1 Real Weekly Earnings by Percentile Index, 2008=100 Index, 2008=100



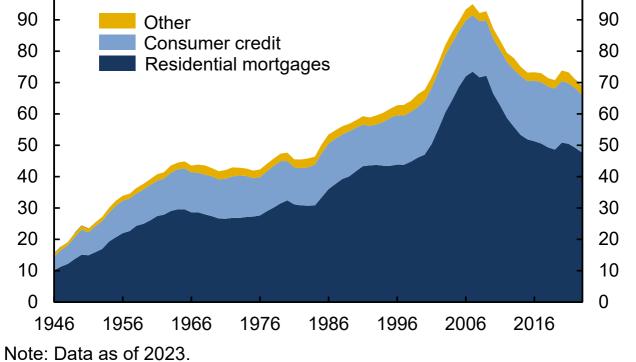
of full-time wage and salary workers by selected characteristics. Data are not seasonally adjusted, expressed as constant dollars, and inflation-adjusted using chain-weighted CPI. Value for 2024 calculated as an annual average using only three quarters of data. Source: U.S. Bureau of Labor Statistics.



Note: Data as of August 2024. Source: U.S. Bureau of Economic Analysis (FRED).

D.2 Personal Saving Rate

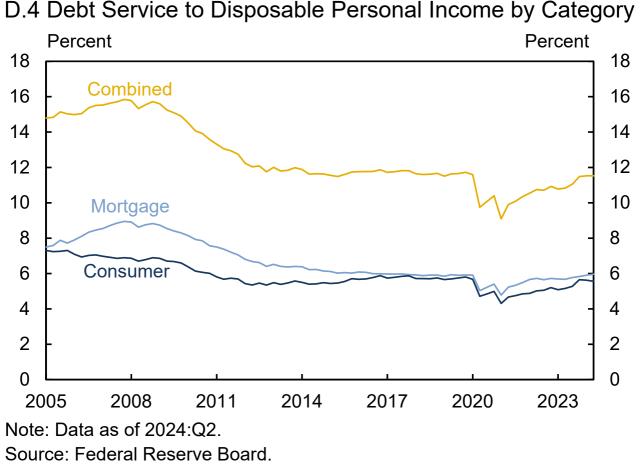
D.3 Household Debt to GDP by Major Categories Percent of GDP Percent of GDP



100

Source: Federal Reserve Board.

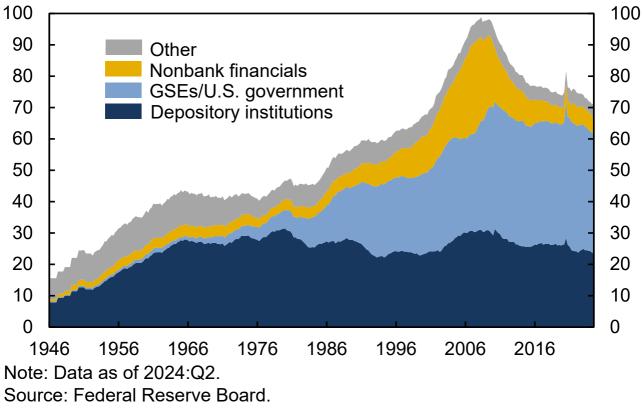
100

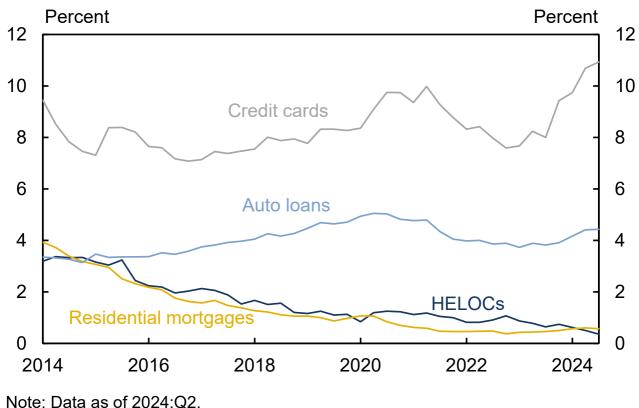


D.5 Household Debt to GDP by Major Holders

Percent of GDP

Percent of GDP



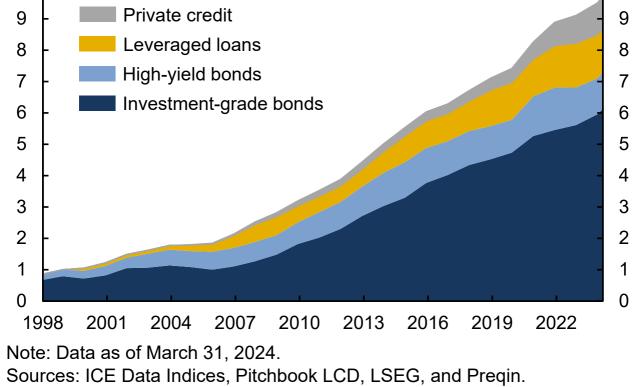


D.6 Share of Balances 90+ Day Delinquent by Loan Type

Source: Federal Reserve Bank of New York Consumer Credit Panel/Equifax Data.

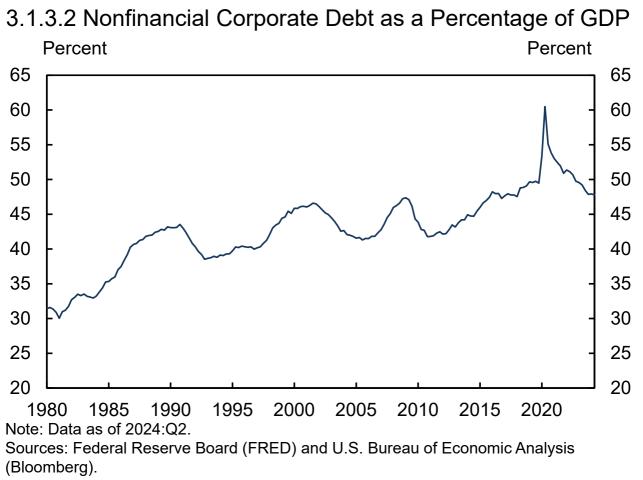
3.1.3.1 U.S. Corporate Credit Market Size
Trillions of US\$

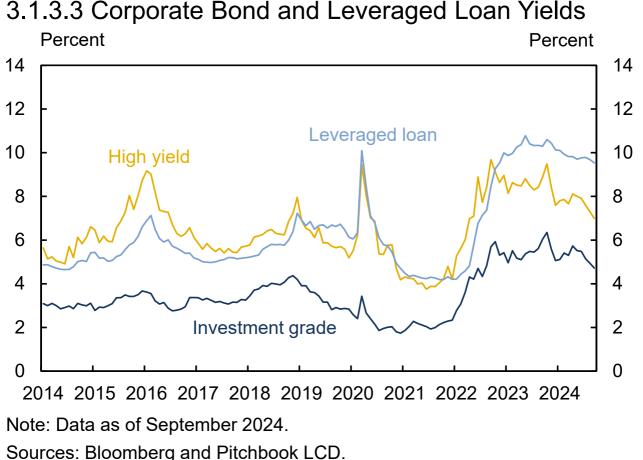
10



Trillions of US\$

10



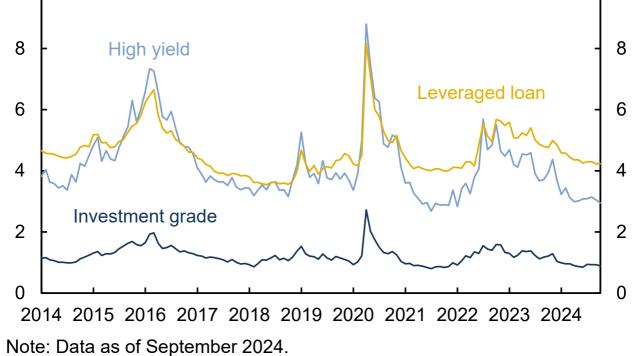


3.1.3.4 Corporate Bond and Leveraged Loan Spreads

Percent

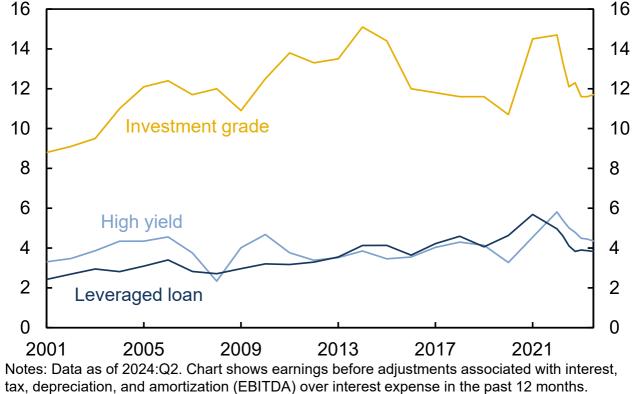
Percent

10



Sources: Bloomberg and Pitchbook LCD.

3.1.3.5 Interest Coverage Ratios

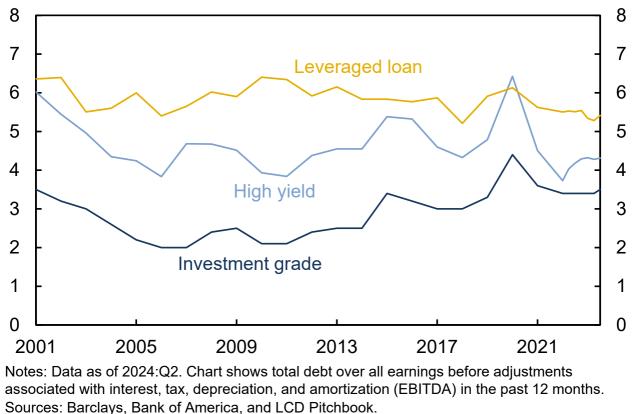


Ratio

tax, depreciation, and amortization (EBITDA) over interest Sources: Barclays, Bank of America, and LCD Pitchbook.

3.1.3.6 Leverage Ratios

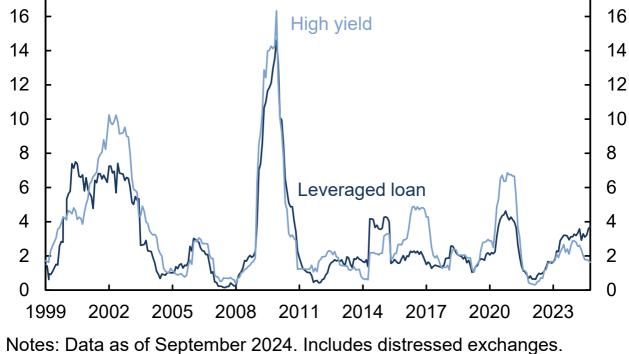
Ratio



Ratio

3.1.3.7 Par-Weighted Default Rates

Percent



Percent

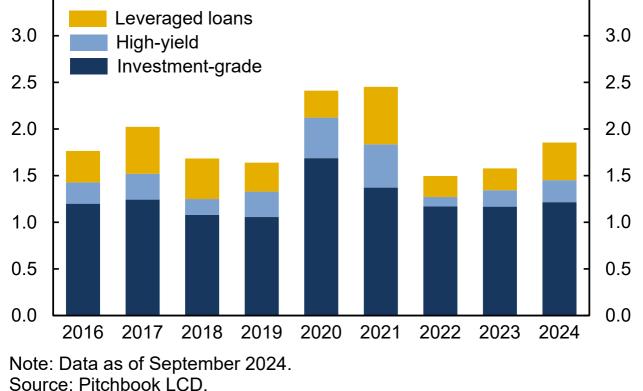
18

Source: J.P. Morgan.

18

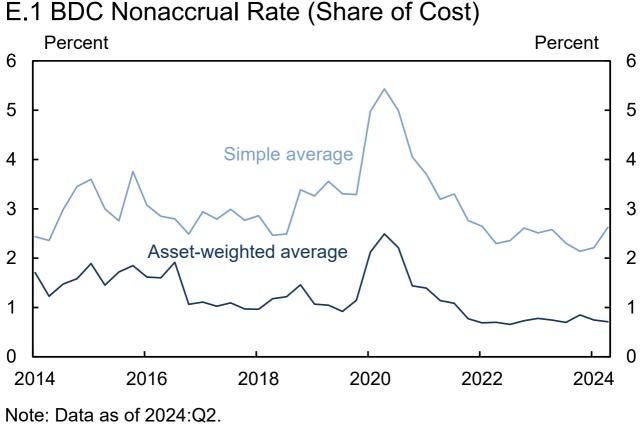
3.1.3.8 Year-to-Date Gross Issuance Trillions of US\$

3.5



Trillions of US\$

3.5



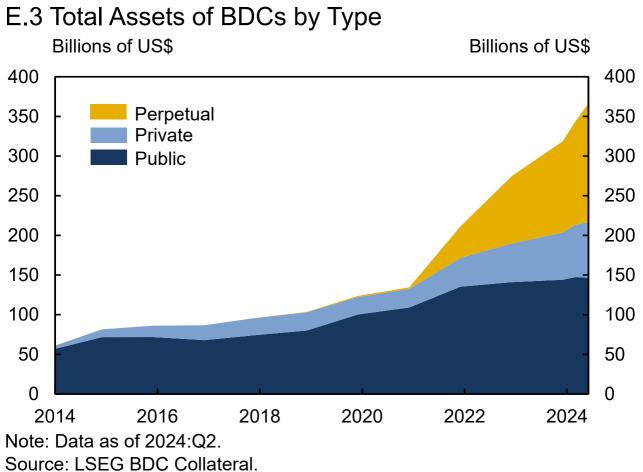
Source: LSEG BDC Collateral.

Percent Percent

E.2 PIK Income as a Share of Total BDC Income

Note: Data as of 2024:Q2.

Source: Cliffwater Direct Lending Index.

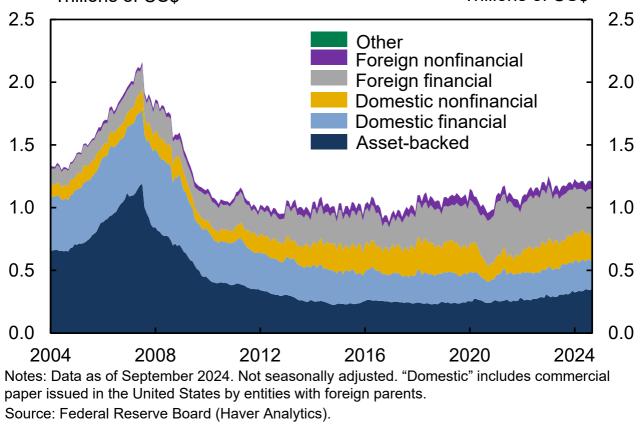


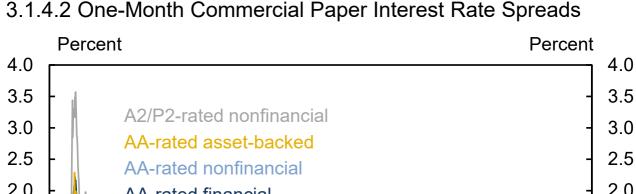
Billions of US\$ Billions of US\$ Committed Drawn Note: Data as of 2024:Q3.

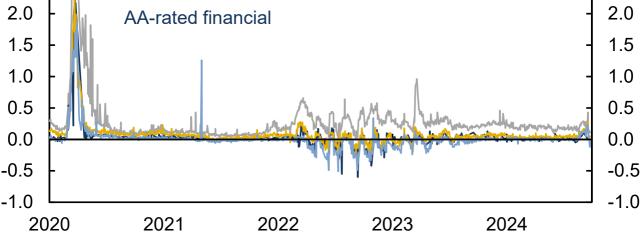
E.4 Revolving Credit Facilities to BDCs

Source: S&P Capital IQ.

3.1.4.1 Commercial Paper Outstanding by Issuer Type Trillions of US\$ Trillions of US\$

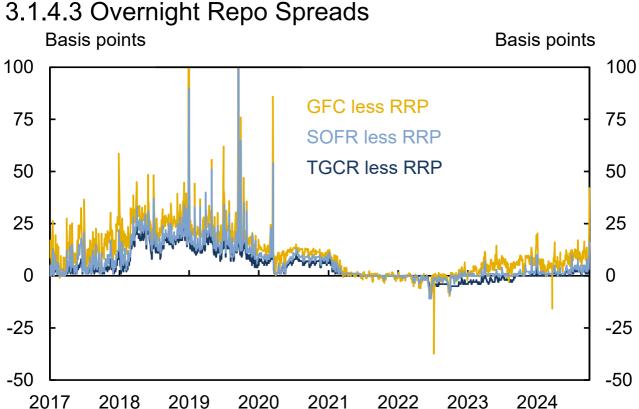






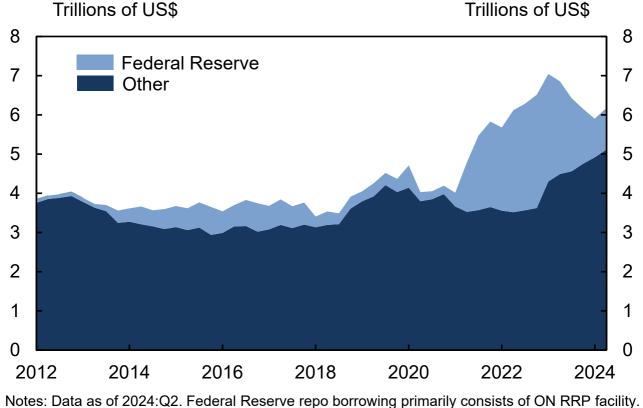
Notes: Data as of September 30, 2024. Spread to one-month overnight index swap (OIS) rate.

Source: Federal Reserve Board (Haver Analytics).



Note: Data as of September 30, 2024.

Sources: Federal Reserve Bank of New York and Wall Street Journal. All sources accessed through Haver Analytics.



3.1.4.4 Repo Borrowing Outstanding

Source: Federal Reserve Board (Haver Analytics).

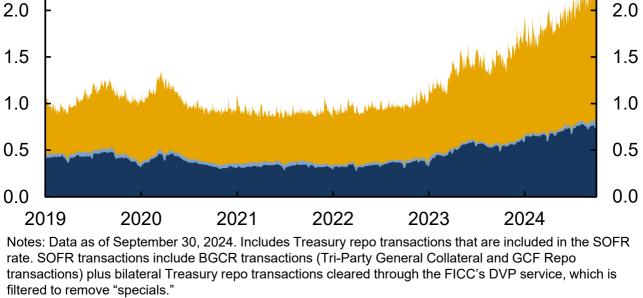
3.1.4.5 Treasury Repo Volumes Trillions of US\$

Tri-party

Source: Federal Reserve Bank of New York (Haver Analytics).

3.0

2.5



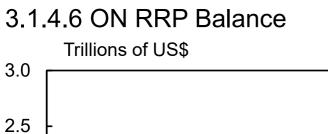
FICC delivery versus payment (DVP)

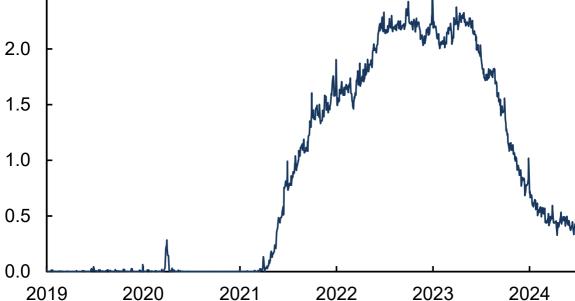
General Collateral Finance (GCF)

Trillions of US\$

3.0

2.5





Trillions of US\$

3.0

2.5

2.0

1.5

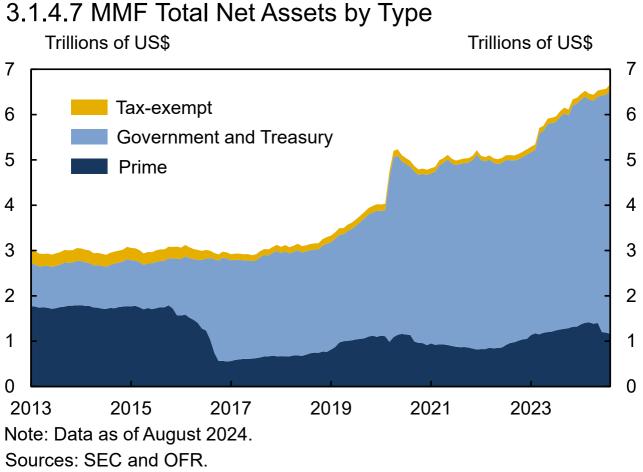
1.0

0.5

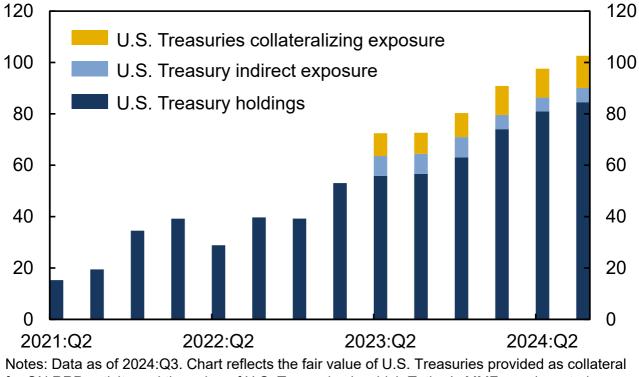
0.0

Note: Data as of August 30, 2024.

Source: Federal Reserve Bank of New York (Haver Analytics).



3.1.5.1 Tether U.S. Treasury Holdings Billions of US\$



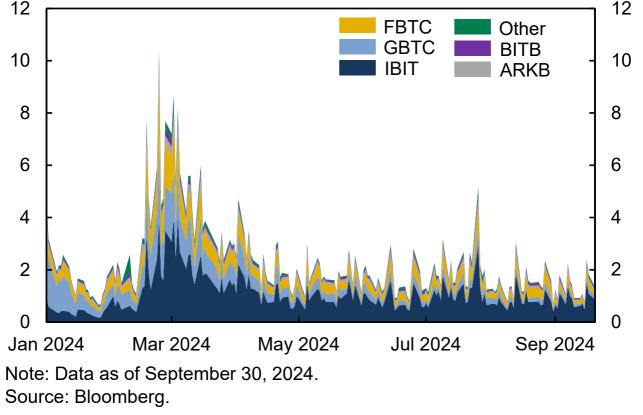
Billions of US\$

for ON RRP activity and the value of U.S. Treasuries in which Tether's MMFs are invested.

Source: Tether.

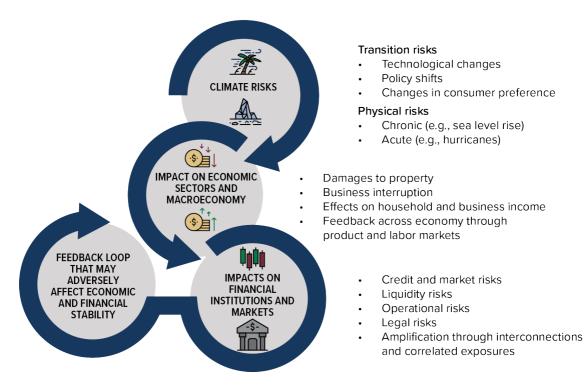
3.1.5.2 Spot Bitcoin ETP Daily Volume

Traded volume (billions of US\$)



Traded volume (billions of US\$)

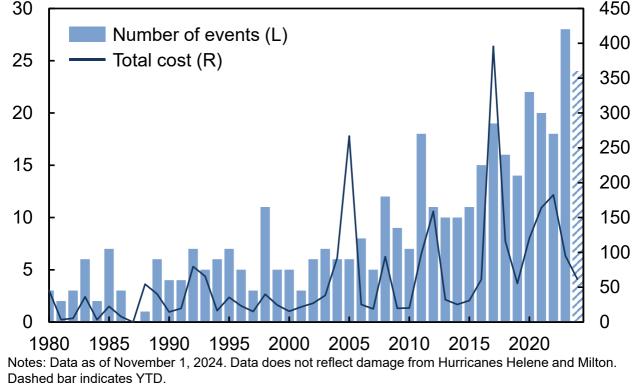
3.1.6.1 Transmission Channels Linking Climate Risks to Financial Stability



Source: Figure created by FSOC.

3.1.6.2 Billion-Dollar Weather and Climate Events

Number of events

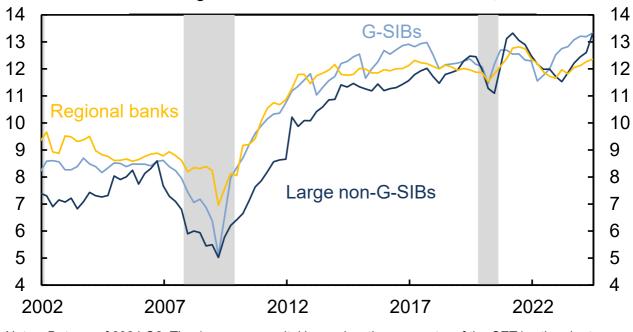


Billions of US\$ (inflation-adjusted)

Source: NOAA National Centers for Environmental Information (NCEI).

3.2.1.1 Common Equity Tier 1 Ratios

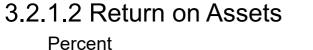
Percent of risk-weighted assets

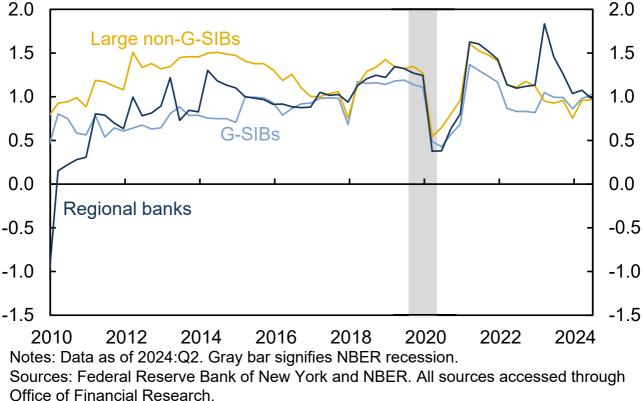


Percent of risk-weighted assets

Notes: Data as of 2024:Q2. Tier 1 common capital is used as the numerator of the CET1 ratio prior to 2014:Q1 for G-SIBs and large complex BHCs and prior to 2015:Q1 for large noncomplex and other BHCs. Gray bars signify National Bureau of Economic Research-defined recessions.

Sources: Federal Reserve Bank of New York and National Bureau of Economic Research (NBER).

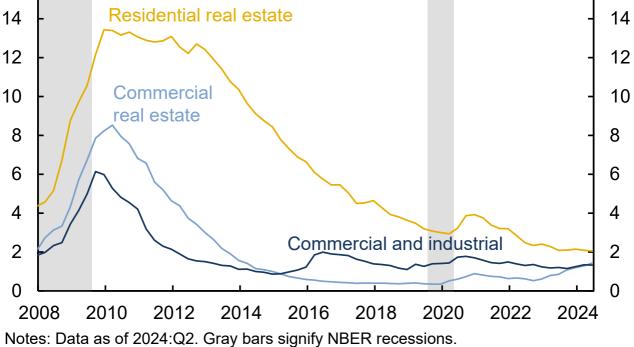




Percent

3.2.1.3 Delinquency Rates by Portfolio Percent

16

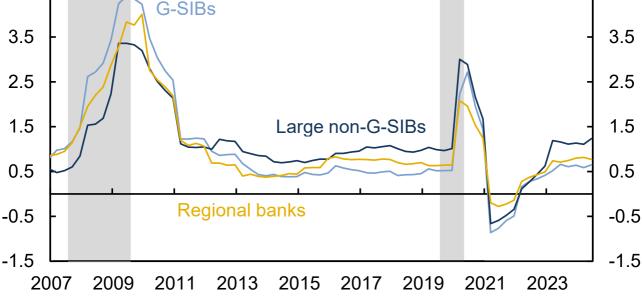


Percent

16

Notes: Data as of 2024:Q2. Gray bars signify NBER recessions.

Sources: FFIEC and NBER. All data accessed through Office of Financial Research.



Percent

5.5

4.5

3.2.1.4 Ratios of Allowance for Credit Losses

Percent

5.5

4.5

2007 2009 2011 2013 2015 2017 2019 2021 2023

Notes: Data as of 2024:Q2. Ratios are annualized. Gray bars signify NBER recessions. Sources: Federal Reserve Bank of New York and NBER.

S&P 500 140 140 Regional banks with CRE concentration 120 120

Index, Feb. 1 2023=100

160

100

80

60

3.2.1.5 Bank Stock Price Performance

Index, Feb. 1 2023=100

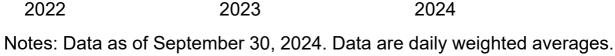
Large banks

160

100

80

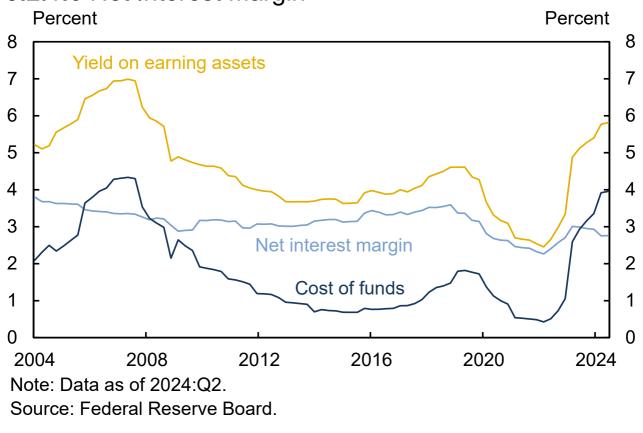
60



Regional banks without CRE concentration

Source: Bloomberg.

3.2.1.6 Net Interest Margin



Foreign exchange
Other
Other sovereign debt
U.S. government debt
Interest rate derivatives

3.2.2.1 Hedge Fund Gross Notional Exposures by Asset Class

Trillions of US\$

20

15

10

Trillions of US\$

20

15

10



3.2.2.2 Leverage Ratios by Strategy

		-			
	Macro	Relative value	Multi- strategy	Credit	
Gross assets / net	6.7x	6.4x	4.2x	1.7x	

4.4x

171

Gross assets / net b./X 6.4X

Gross exposures / 43.6x

assets

assets

net assets

Net assets

(\$ billions)

Borrowing / net

Sources: OFR and SEC.

21.0x

4.4x

164

15.9x

3.1x

669

Notes: Data as of 2024:Q2. Net asset-weighted. "Other" includes managed futures, fund of funds, and other strategies. "Gross assets / net assets" reflects on-balance-sheet leverage. "Gross exposures / net assets" also includes off-balance-sheet exposures.

2.6x

0.4x

334

Event-

driven

1.2x

1.5x

0.2x

242

Other

1.4x

3.0x

0.3x

1,364

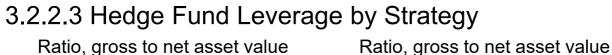
Equity

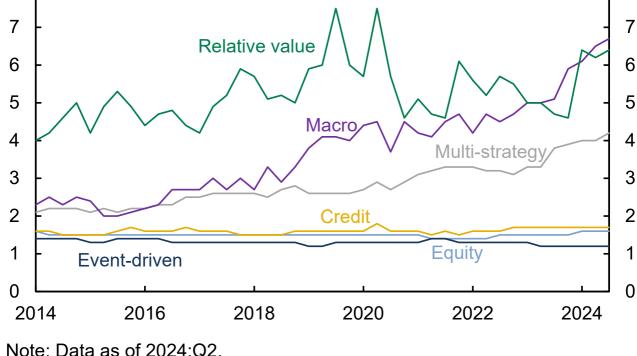
1.6x

2.9x

0.9x

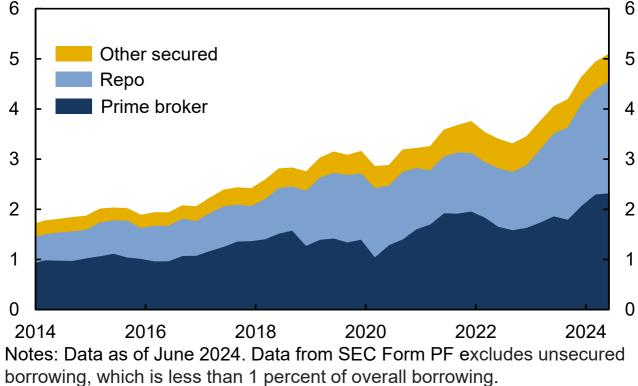
1.180





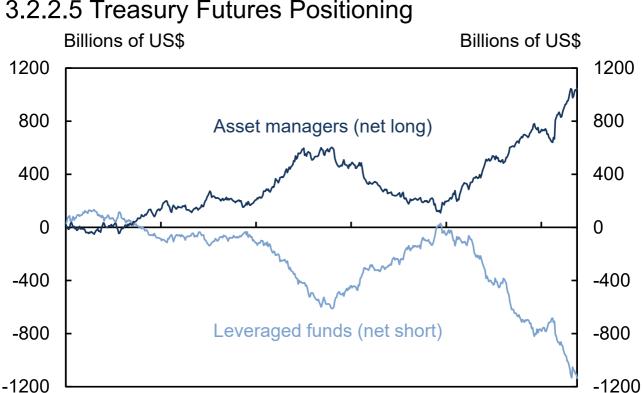
Sources: OFR and SEC.

3.2.2.4 Hedge Fund Borrowing
Trillions of US\$



Trillions of US\$

Sources: OFR and SEC.

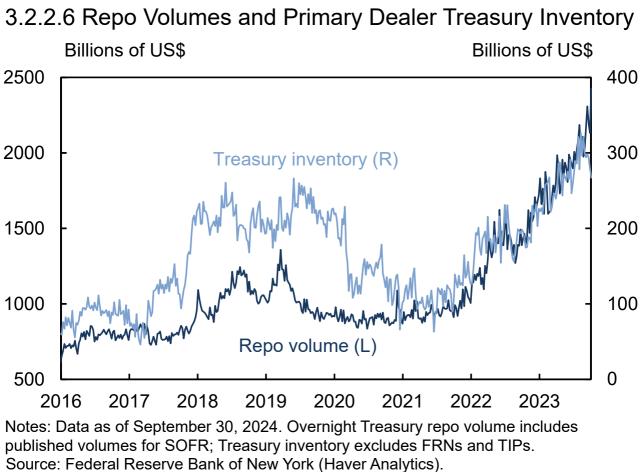


2019

2021

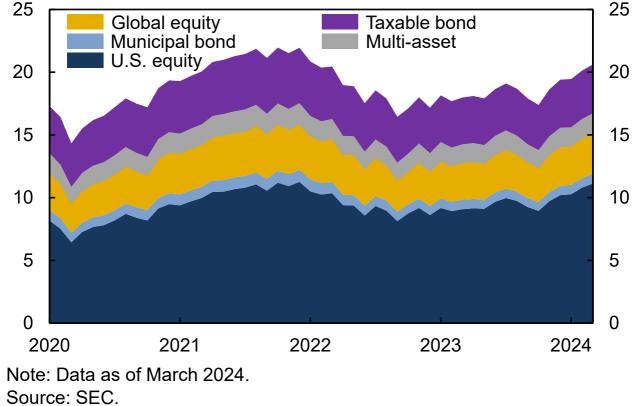
2023

2013 2015 2017 Note: Data as of September 30, 2024. Source: CFTC (Haver Analytics).



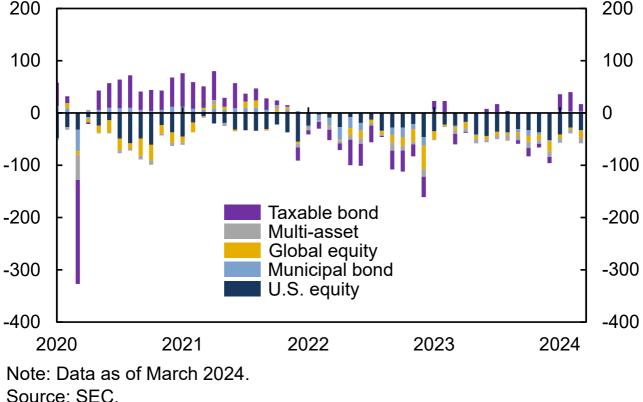
3.2.2.7 Mutual Fund AUM

Trillions of US\$



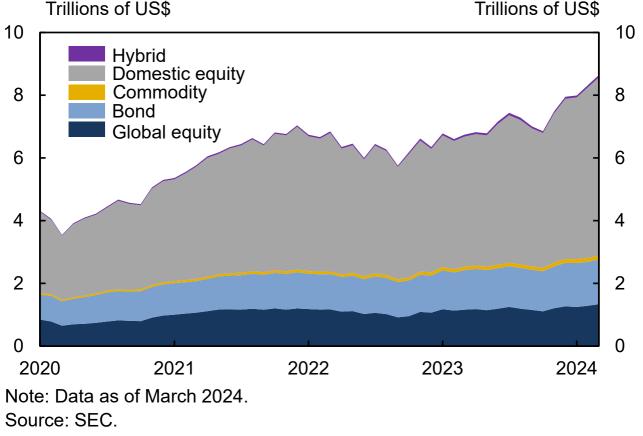
Trillions of US\$

3.2.2.8 Mutual Fund Net Flows
Billions of US\$

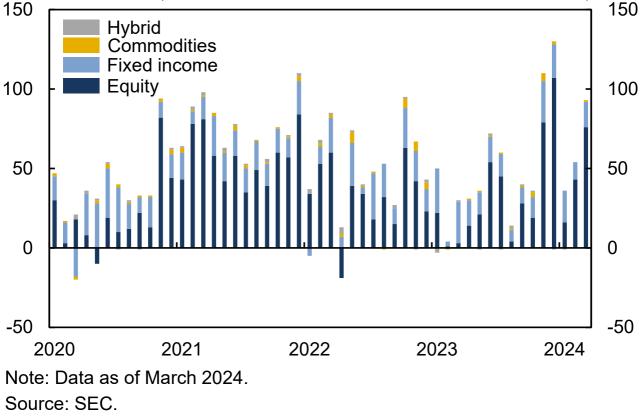


Billions of US\$

3.2.2.9 ETF AUM

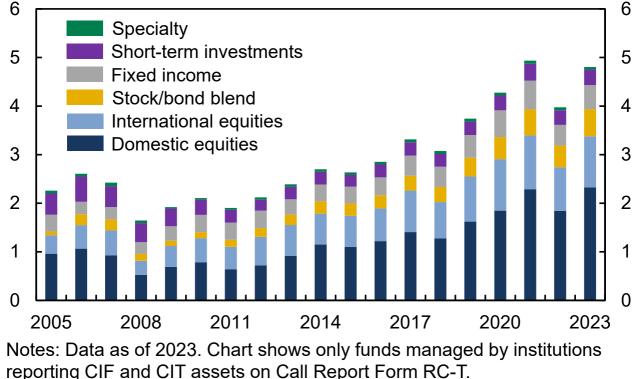


3.2.2.10 ETF Net Flows
Billions of US\$



Billions of US\$

3.2.2.11 Collective Investment Funds AUM by Sector Trillions of US\$ Trillions of US\$



Source: FFIEC.

3.2.3.1 The Eight DFMUs

Primary supervisor	FMU	Type of FMU	Primary financial transactions processed
FRB	Clearing House Interbank Payments System	Payment system	Large value payments
	CLS Bank International	Payment system	FX settlement
	The Depository Trust Company	Central securities depository and settlement system	Equities, corporate, and municipal debt
SEC	National Securities Clearing Corporation	Central counterparty	Equities, corporate, and municipal debt
	Fixed Income Clearing Corporation	Central counterparty	U.S. Treasuries and mortgage-backed securities
	The Options Clearing Corporation	Central counterparty	Options, futures, and options on futures
CFTC	Chicago Mercantile Exchange, Inc.	Central counterparty	Futures, options on futures, and swaps
	ICE Clear Credit L.L.C.	Central counterparty	Credit default swaps

Source: Federal Reserve Board.

NSCC
FICC: MBSD
FICC: GSD

60

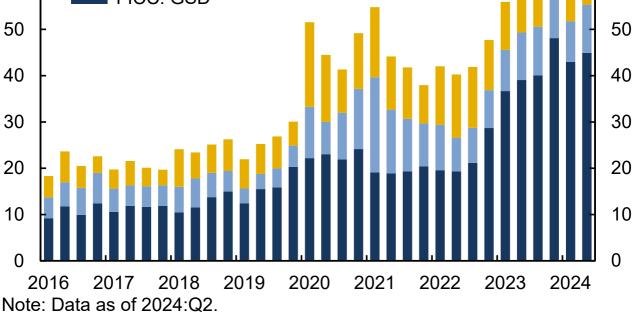
Billions of US\$

70

3.2.3.2 DTCC Clearing Fund Requirements

Billions of US\$

70



Source: PFMI Quantitative Disclosures (Clarus Financial Technology, 4.1.4).



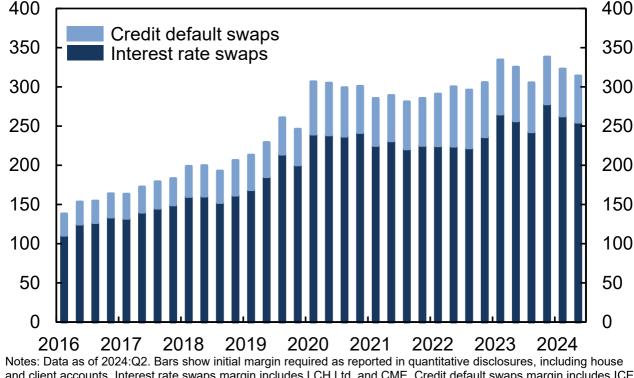
disclosures; includes house and client accounts.

Source: PFMI Quantitative Disclosures (Clarus Financial Technology, 6.1.1).

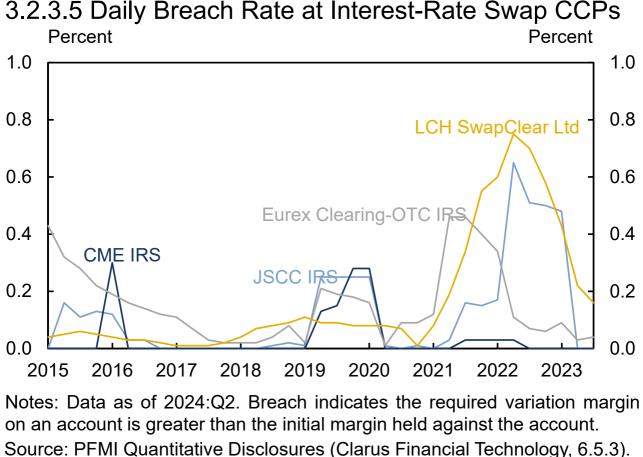
3.2.3.4 Initial Margin: Centrally Cleared OTC Derivatives

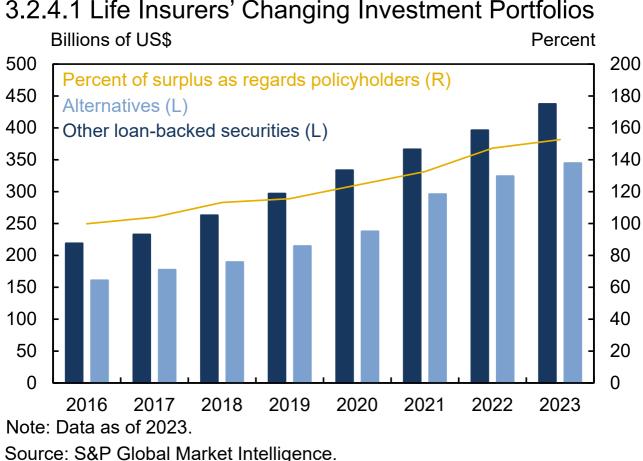
Billions of US\$

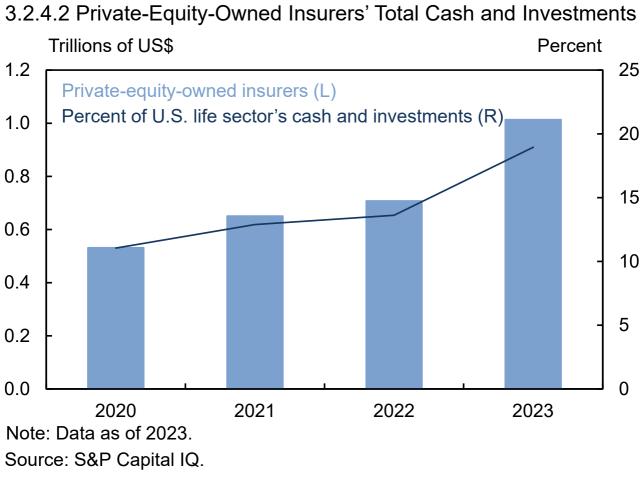
Billions of US\$



and client accounts. Interest rate swaps margin includes LCH Ltd. and CME. Credit default swaps margin includes ICE Clear Credit (ICC), ICE Clear Europe (ICEU), and LCH SA. ICEU ceased clearing CDS in October 2023. Source: PFMI Quantitative Disclosures (Clarus Financial Technology, 6.1.1).

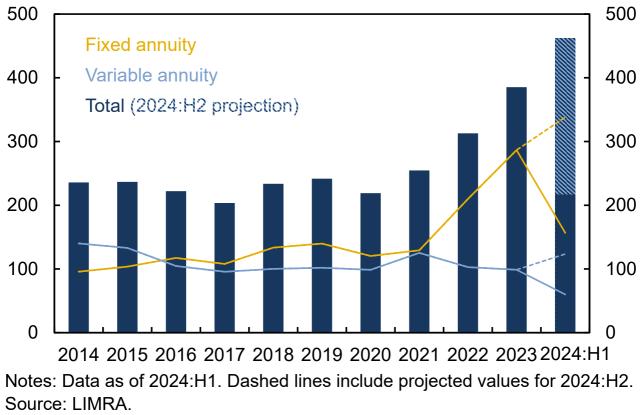






3.2.4.3 Trends in Annuity Sales

Billions of US\$



Billions of US\$

Billions of US\$ Billions of US\$

3.2.4.4 FHLB Advances to Life Insurers

Notes: Data as of 2024:Q2. Gray bar signifies NBER recession. Sources: FRED and NBER.

Trillions of US\$

Offshore percent of total (R)
Reserves ceded to offshore non-affiliates (L)
Reserves ceded to domestic reinsurers (L)

Reserves ceded to domestic reinsurers (L)

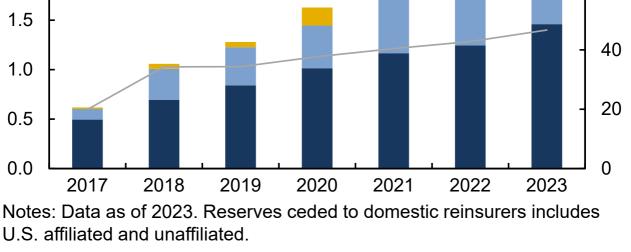
2.0

Percent

100

80

3.2.4.5 More Life Insurance Reserves Are Moving Offshore



Source: S&P Capital IQ.

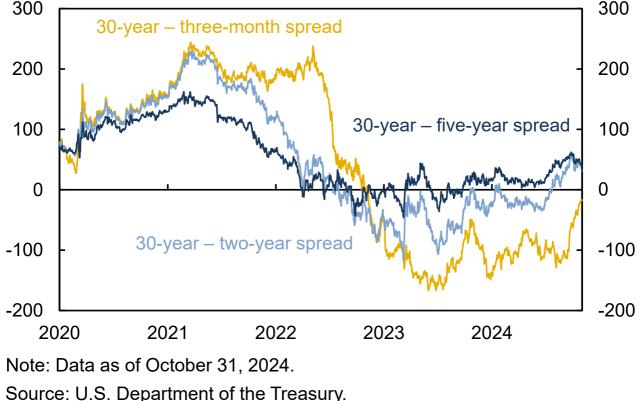
3.3.1.1 U.S. Treasury Yields Percent



Percent

Source: U.S. Department of the Treasury.

3.3.1.2 U.S. Treasury Yield Spreads
Basis points



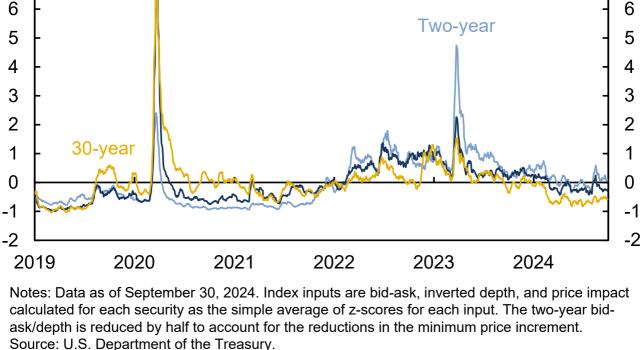
Basis points

3.3.1.3 U.S. Treasury Market Liquidity Indexes

Z-scores (10-day moving average)

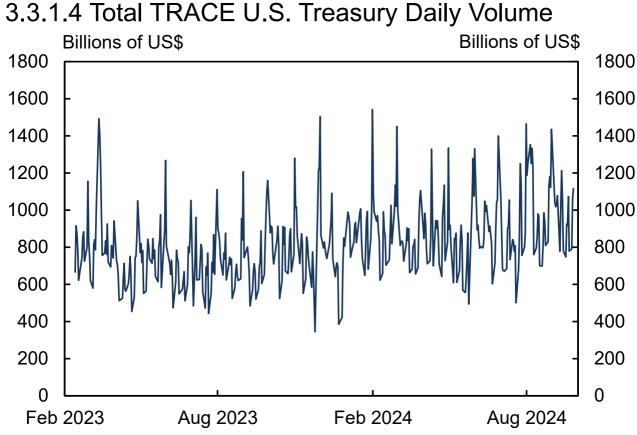
10-year

8



Z-scores (10-day moving average)

8



Note: Data as of September 30, 2024. Source: Bloomberg.

