



The School Board of Broward County, Florida



Investment Performance Review For the Quarter Ended September 30, 2019

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Tab I

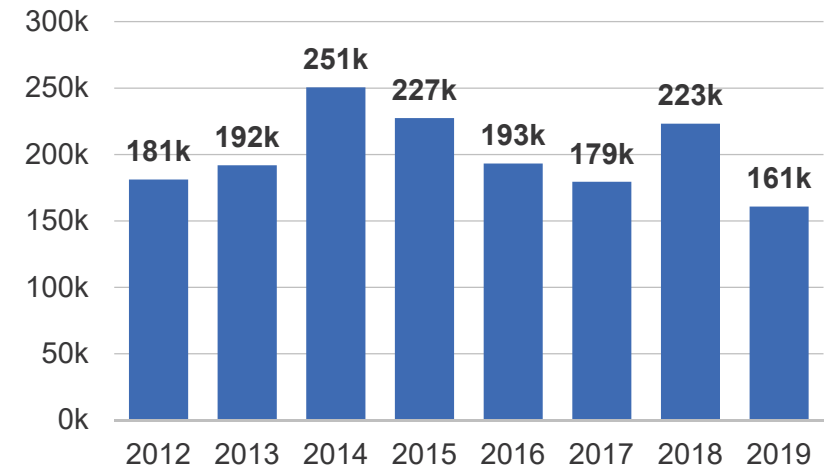
Market Indicators Mixed, but Recession Does Not Appear Imminent

ISM Manufacturing Activity Index

Recession fears growing as manufacturing slows and job growth moderates...



Average Monthly Job Growth

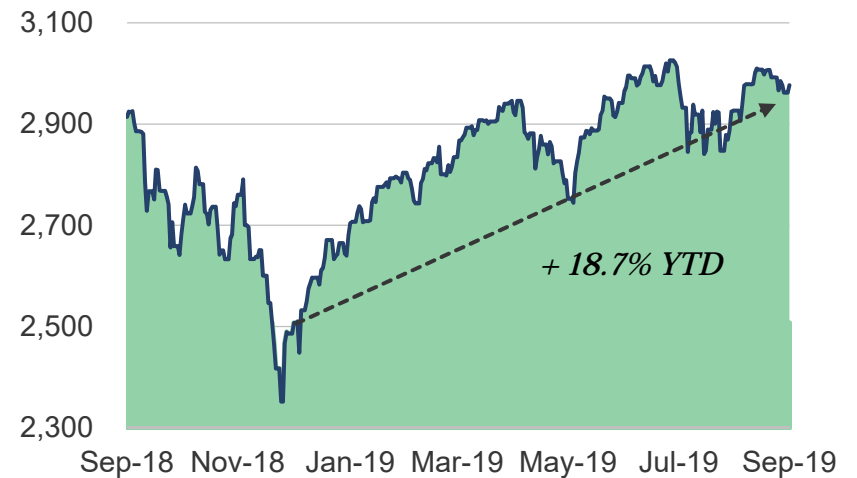


Conference Board Consumer Confidence

...but consumers remain confident and financial markets seem optimistic



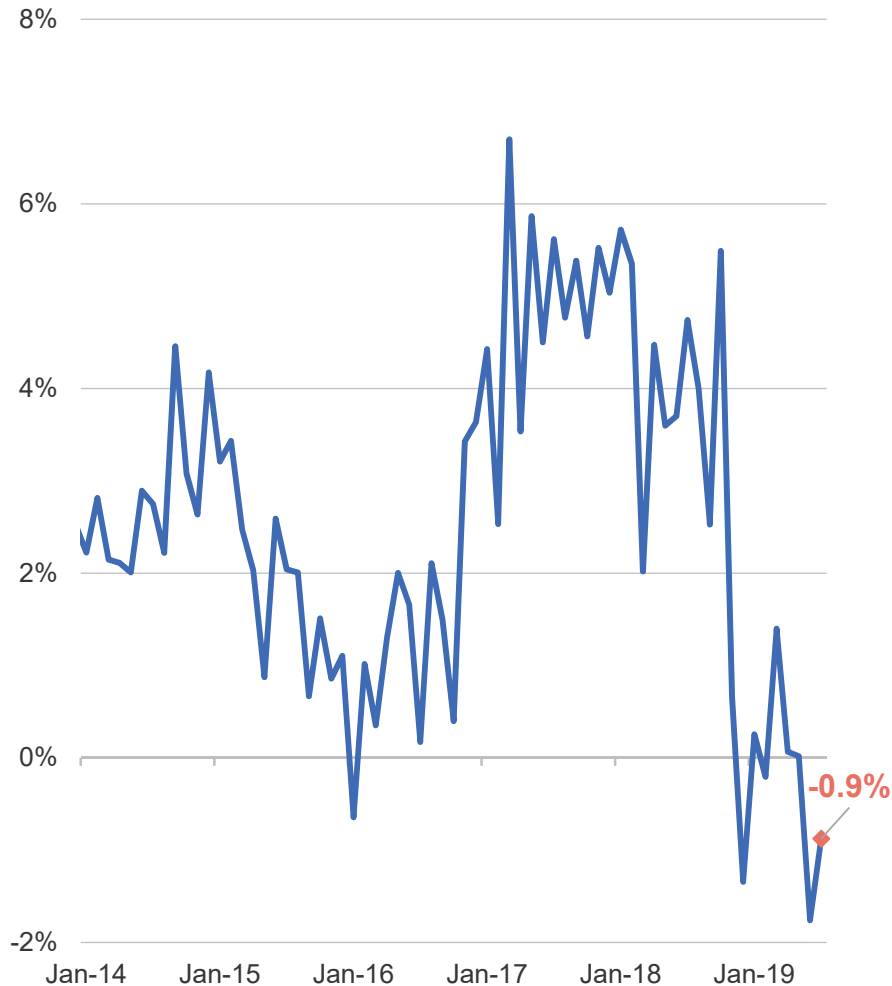
S&P 500 Price Change



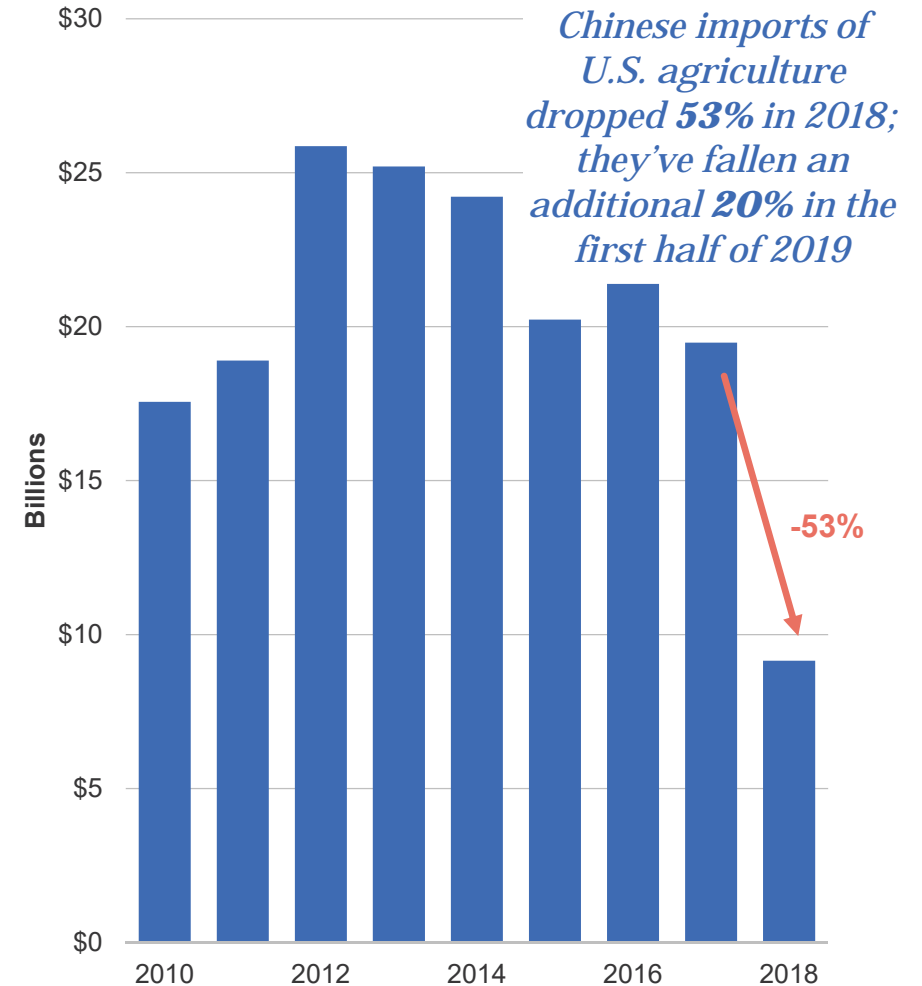
Source: Bloomberg, data available as of 9/30/19.

Tariffs Take a Toll on Global Trade Volume, Especially U.S. Agriculture

Global Trade Volume YoY



U.S. Agricultural Exports to China



Source: CPB (left); Wall Street Journal & USDA Foreign Agricultural Service (right).

The OECD Follows World Bank & IMF in Lowering Growth Projections

- The world growth outlook was cut to 2.9% for 2019, down from the 3.2% projection from 4 months ago
- This rate is the slowest pace since the global financial crisis

“The global economy has become increasingly fragile and uncertain, with growth slowing and downside risks continuing to mount.”

-OECD, 9/19/19

OECD GDP Growth Projections

September 2019

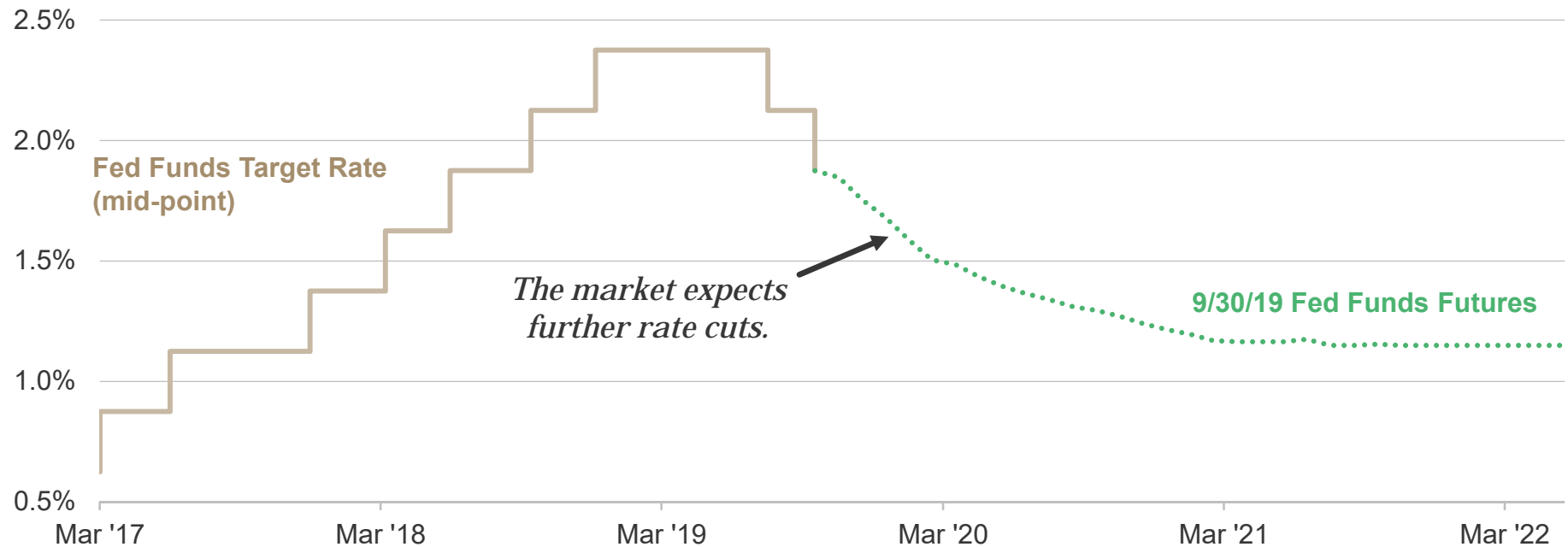
Region	2019	2020
World	2.9% ↓	3.0% ↓
U.S.	2.4% ↓	2.0% ↓
China	6.1% ↓	5.7% ↓
United Kingdom	1.0% ↓	0.9% ↓
Euro Area	1.1% ↓	1.0% ↓
Germany	0.5% ↓	0.6% ↓
France	1.3%	1.2% ↓
Italy	0.0%	0.4% ↓
Japan	1.0% ↑	0.6%
Canada	1.5% ↑	1.6% ↓

Source: The Organization for Economic Co-operation and Development. Arrows indicate change from prior projection.

The Federal Reserve Cut Rates in July and September



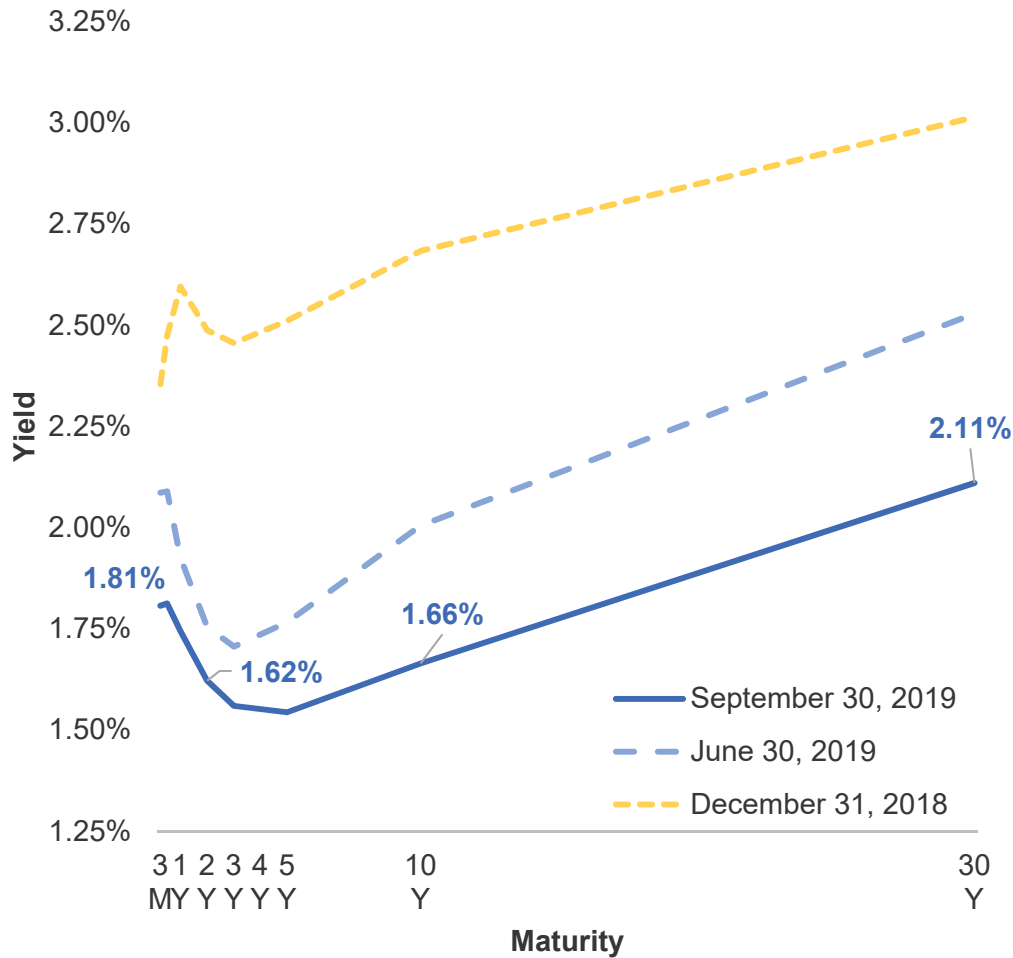
The Fed cited “...weak global growth ...trade policy uncertainty ...*and* muted inflation...”



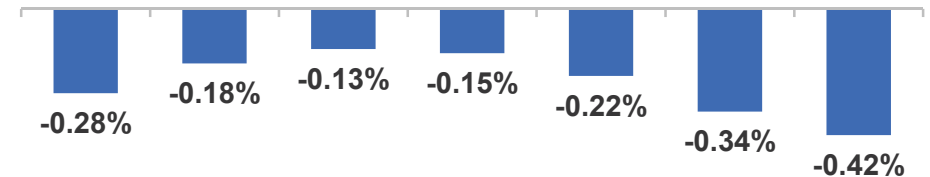
Source: Federal Reserve and Bloomberg.

Yields Continued to Decline in the Third Quarter

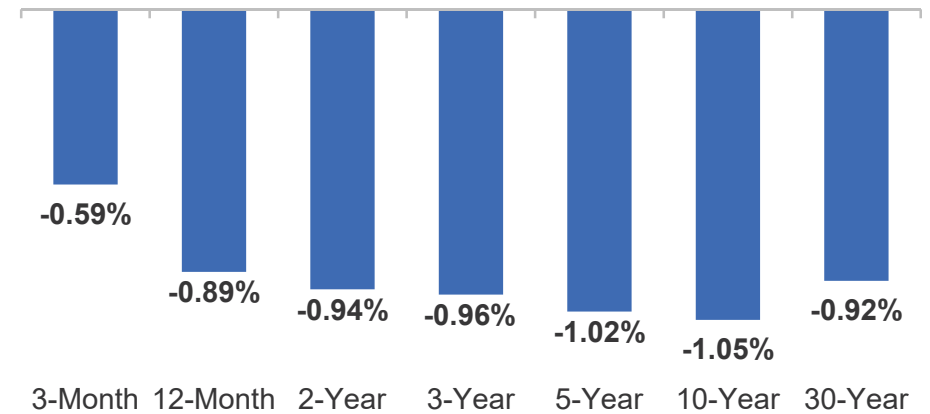
U.S. Treasury Yield Curve



Q3 Change in Yield



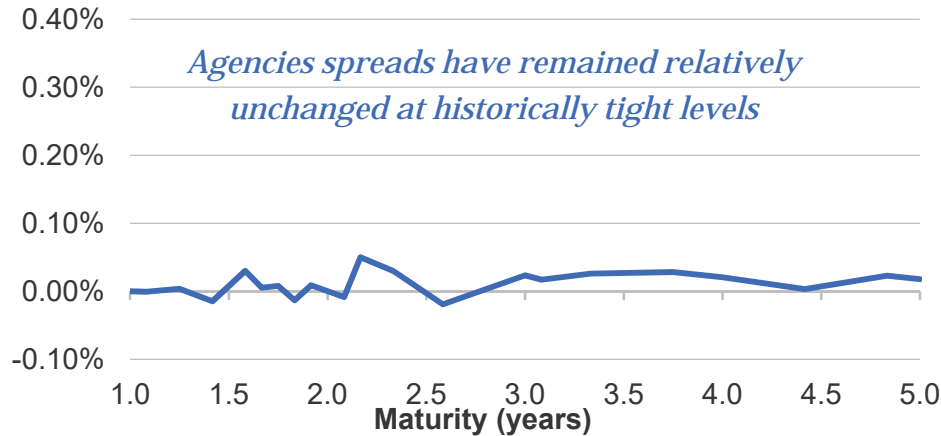
YTD Change in Yield



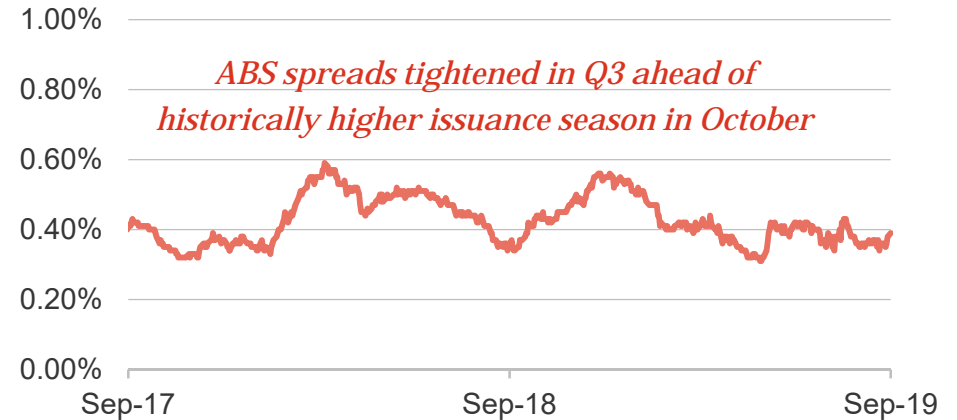
Source: Bloomberg, as of 9/30/2019.

Yield Spreads Narrow Across All Spread Sectors

Federal Agency Yield Spreads



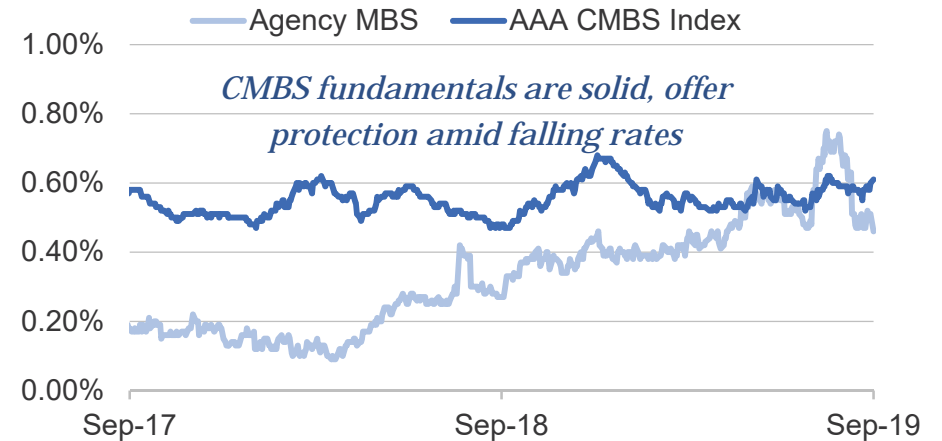
Auto Asset-Backed Securities Yield Spreads



Corporate Notes (1-5 yr A-AAA) Yield Spreads



Mortgage-Backed Securities Yield Spreads

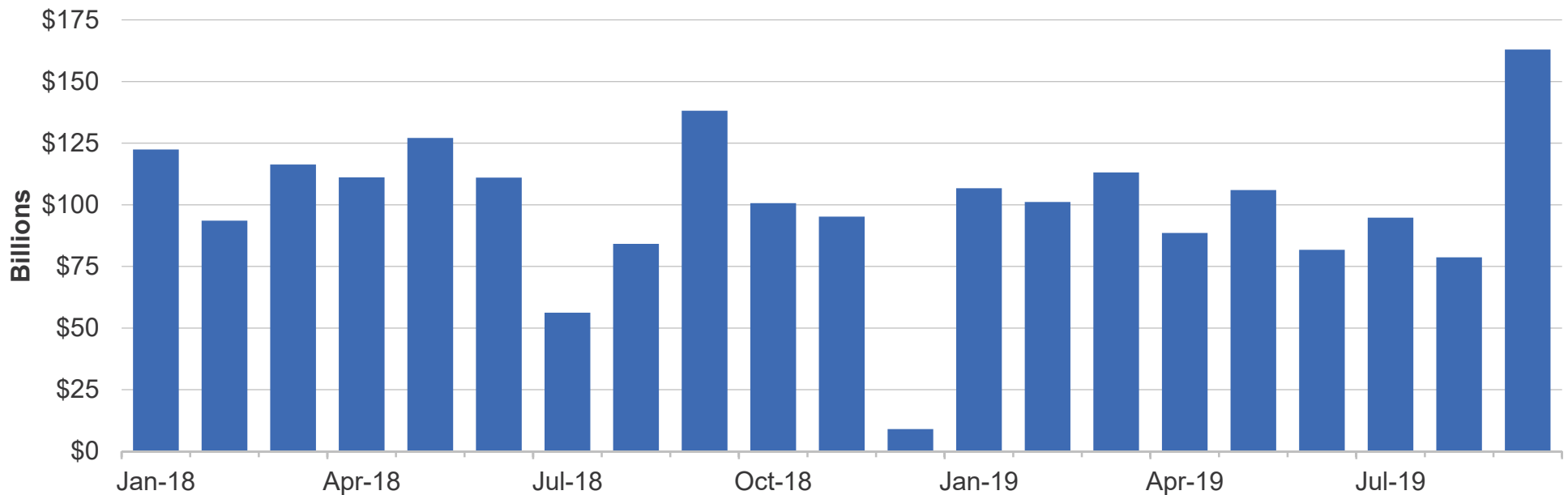


Source: Bloomberg, MarketAxess and PFM. Spreads on ABS and MBS are option-adjusted spreads of 0-5 year indices based on weighted average life; spreads on agencies are relative to comparable maturity Treasuries. ICE BofAML 1-5 year Indices. Data as of 9/30/19. CMBS refers to Commercial Mortgage-Backed Securities.

Corporate Issuance Surges in September

- ◆ After a slow start to the quarter, investment grade corporate issuance broke records in September
 - \$163 billion issued in September
 - 3rd busiest month on record
 - The first week of September was the busiest single week on record
- ◆ Spreads tightened as demand was high to meet the surge in supply

U.S. Corporate Investment Grade Issuance



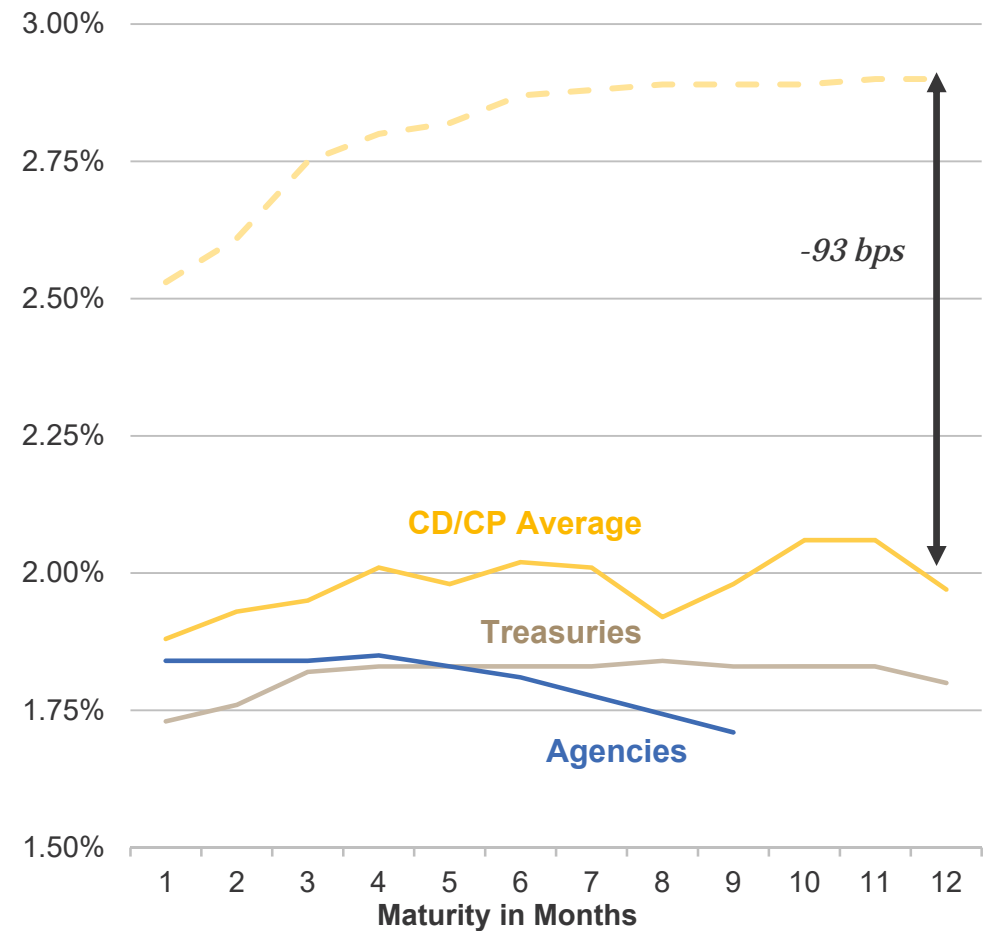
Source: SIFMA, as of September 2019.

Short-Term Credit Spreads Stretch to Near 8-Month Wides

**Yield Spread on
6-month Commercial Paper over T-Bill**



Money Market Yield Curves



Source (left): Bloomberg, as of 9/30/2019. Source (right): PFM Trading Desk, as of 9/30/2019. 6-mo CP yield spread based on A1/P1 rated CP index.

Fixed-Income Sector Outlook – October 2019

Sector	Our Investment Preferences	Comments
COMMERCIAL PAPER / CD		<ul style="list-style-type: none"> CP/negotiable CD spreads are near historic tights, though securities appear cheap relative to corporate notes.
TREASURIES		
T-Bill		<ul style="list-style-type: none"> Treasury bill supply is expected to increase by over \$100 billion during the fourth quarter.
T-Note		<ul style="list-style-type: none"> The Treasury yield curve remains inverted, providing little opportunities to benefit from roll-down.
FEDERAL AGENCIES		
Bullets		<ul style="list-style-type: none"> Federal agency spreads remain near historic tights. Treasuries continue to be attractive relative to agencies.
Callables		<ul style="list-style-type: none"> Callables have been underperforming duration-matched bullets as redemption activity has been elevated, especially in short lock-out structures.
SUPRANATIONALS		<ul style="list-style-type: none"> Spreads remain near historical tights; Treasuries have better value. There may be opportunities to sell at single digit yield spreads before a possible demand-side technical decay into year-end.
CORPORATES		
Financials		<ul style="list-style-type: none"> Tighter credit spreads and a cloudy economic outlook have reduced the attractiveness of the corporate sector.
Industrials		<ul style="list-style-type: none"> Steady demand from foreign investors and a lower interest rate environment, supported by recent FOMC action, are both positives for the sector.
SECURITIZED		
Asset-Backed		<ul style="list-style-type: none"> The AAA-rated ABS sector offers a defensive outlet to credit exposure but has tightened to near multi-year tights.
Agency Mortgage-Backed		<ul style="list-style-type: none"> As interest rates have fallen and supply has increased, MBS spreads have widened significantly to a more historic norm. We view this as an buying opportunity.
Agency CMBS		<ul style="list-style-type: none"> Agency CMBS are an attractive alternative to other government sectors due to their incremental income potential.
MUNICIPALS		<ul style="list-style-type: none"> The low interest rate environment should spur refunding activity and increase taxable municipal supply.

● Current outlook

○ Outlook one month ago

Negative

Slightly
Negative

Neutral

Slightly
Positive

Positive