

**JULEX** CAPITAL

# Investment solutions for short-term needs

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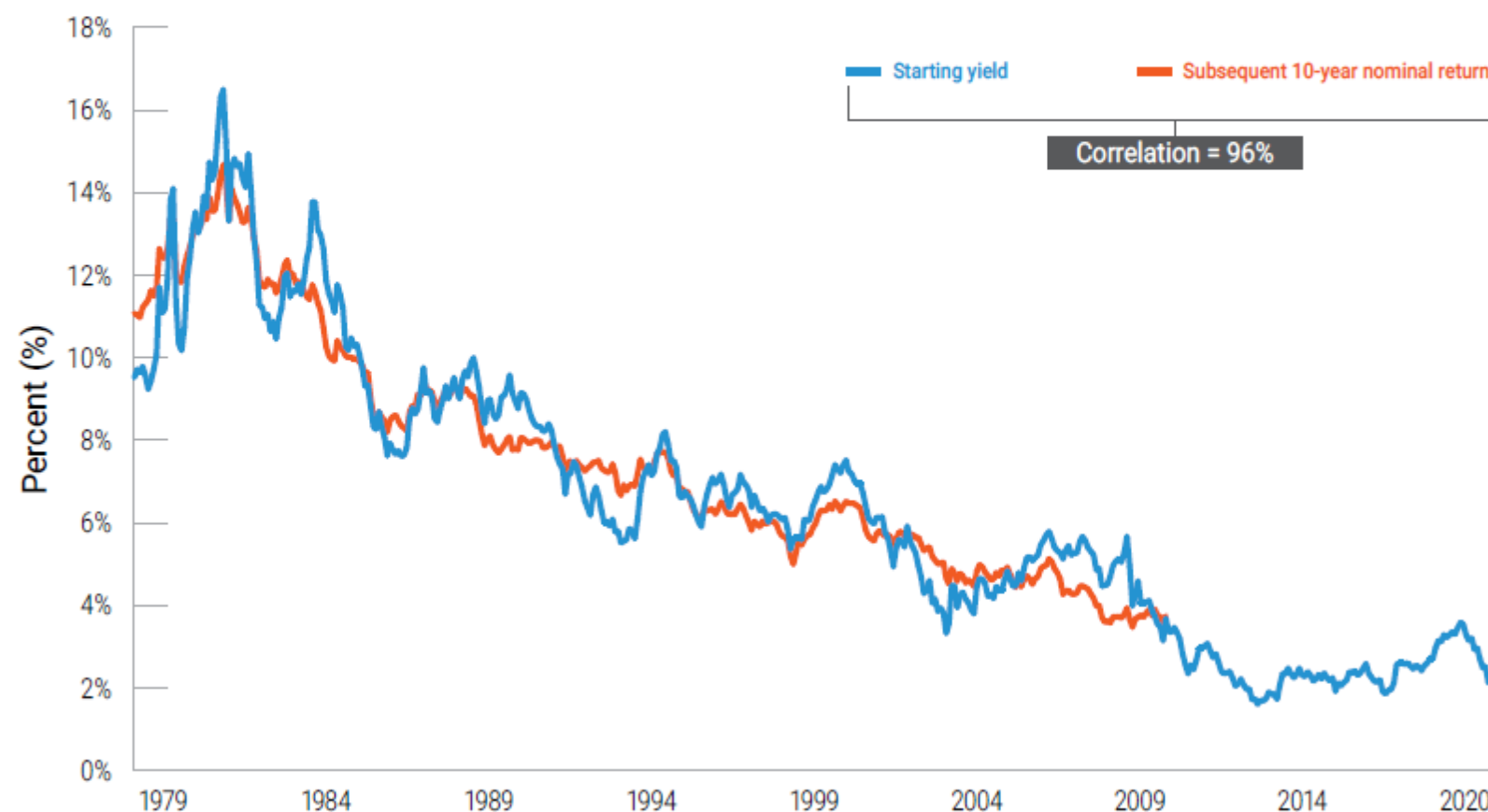
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## Core bonds: Starting yields and subsequent returns

Bloomberg Barclays U.S. Aggregate Bond Index starting yield and subsequent returns



### What is this chart showing?

This chart shows the starting yield of U.S. core bonds for the past 40+ years, along with the subsequent 10-year total return from that point.

### Why is it important?

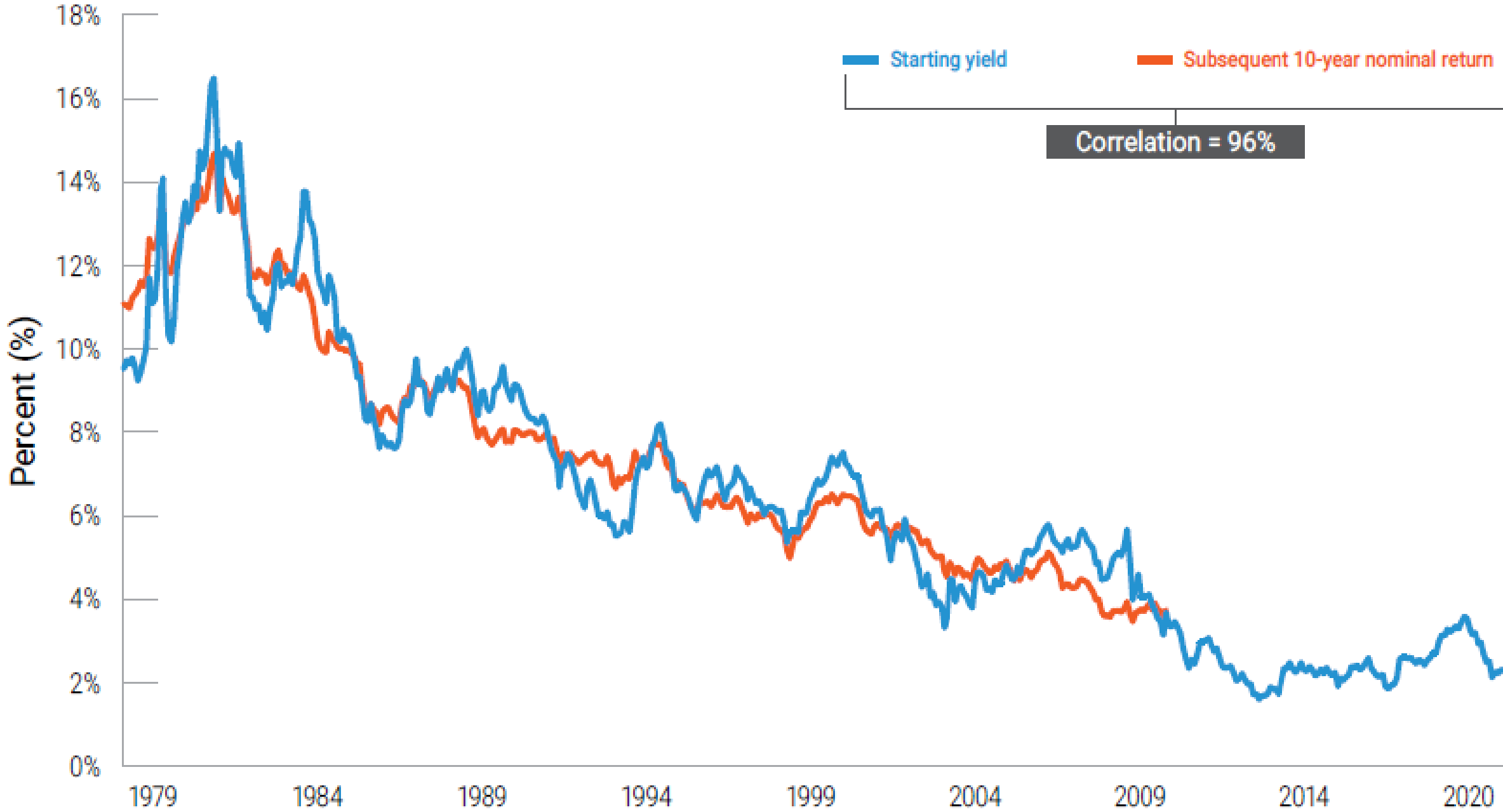
Investors commonly look to current yields to inform their total return expectations, as historically starting yield is an accurate predictor of future bond returns (96% correlation).

You cannot invest directly in an index. All indices are unmanaged and do not include fees or expenses. Please see the back of this brochure for index definitions and disclosures.

Source: Research affiliates based on data from Bloomberg and FactSet as of Dec. 31, 2020. Proxy: Bloomberg Barclays U.S. Aggregate Bond Index. **Past performance is not a guarantee or a reliable indicator of future results.**

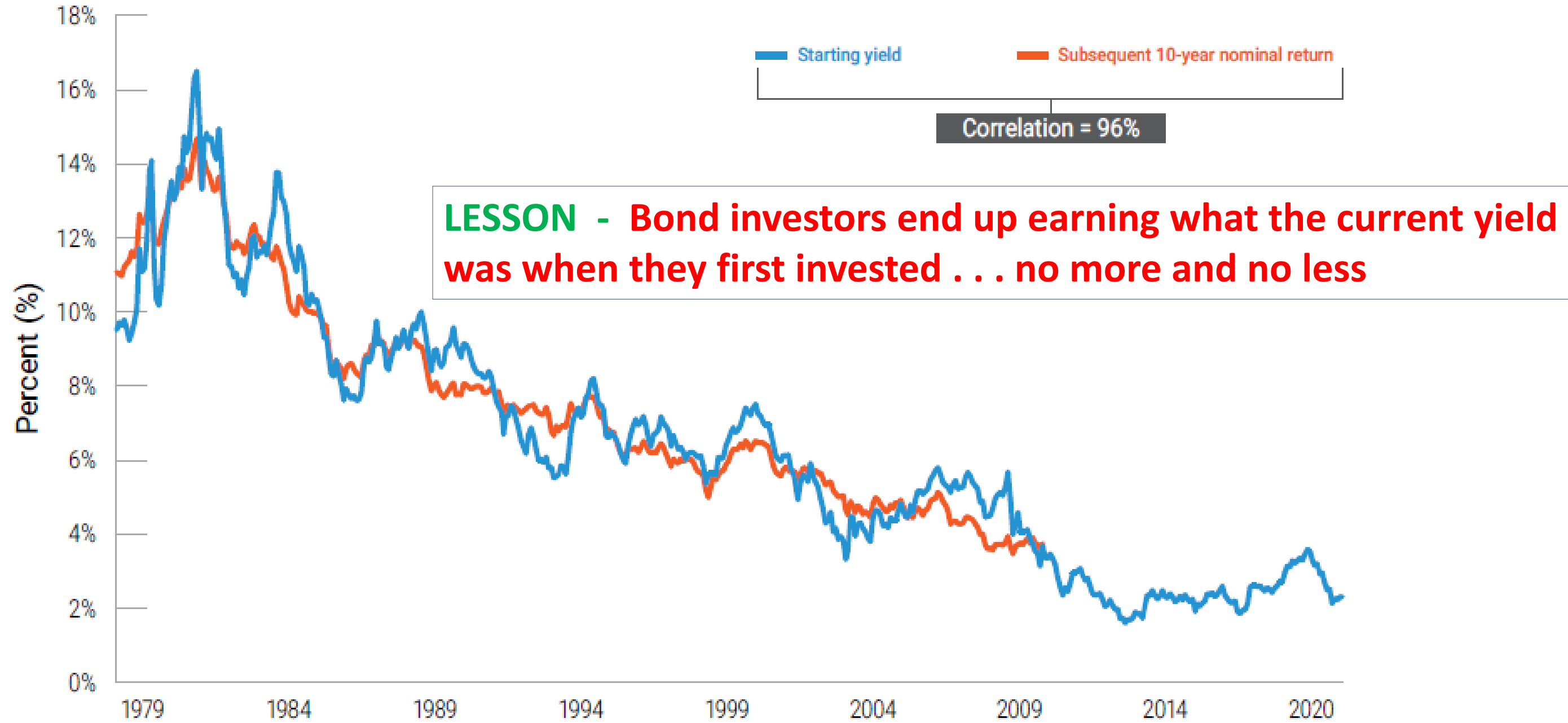
# Today's current yield vs what your client will earn over the years ahead

Bloomberg Barclays U.S. Aggregate Bond Index starting yield and subsequent returns

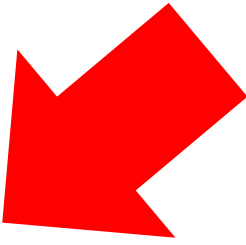


# Don't miss this point

Bloomberg Barclays U.S. Aggregate Bond Index starting yield and subsequent returns



## Again . . . what is the lesson learned here?

- What will your client earn on their bond portfolio?
- Pretty much . . . whatever the current yield was when they first invested
  
- SIDE NOTE . . . This rule does not apply to
 
  - Tactical asset allocation bond portfolios
  - Ultra active bond portfolios
    - These are extremely extremely rare . . . you would need to see annual turnover north of 130%
    - One classic example would be JPMorgan Strategic Income Opports I (JSOSX)

## Treasury Yields

| NAME                        | COUPON | PRICE | YIELD |
|-----------------------------|--------|-------|-------|
| GB3:GOV<br><b>3 Month</b>   | 0.00   | 123   | 1.25% |
| GB6:GOV<br><b>6 Month</b>   | 0.00   | 173   | 1.77% |
| GB12:GOV<br><b>12 Month</b> | 0.00   | 218   | 2.25% |
| GT2:GOV<br><b>2 Year</b>    | 2.50   | 99.39 | 2.82% |
| GT5:GOV<br><b>5 Year</b>    | 2.63   | 97.91 | 3.08% |
| GT10:GOV<br><b>10 Year</b>  | 2.88   | 98.36 | 3.07% |
| GT30:GOV<br><b>30 Year</b>  | 2.88   | 93.67 | 3.21% |

TIPS bonds . . . current yields are seriously UGLY

## Treasury Inflation Protected Securities (TIPS)

| NAME                         | COUPON | PRICE  | YIELD  |
|------------------------------|--------|--------|--------|
| GTII5:GOV<br><b>5 Year</b>   | 0.13   | 100.65 | -0.01% |
| GTII10:GOV<br><b>10 Year</b> | 0.13   | 98.43  | 0.29%  |
| GTII20:GOV<br><b>20 Year</b> | 0.75   | 99.14  | 0.80%  |
| GTII30:GOV<br><b>30 Year</b> | 0.13   | 85.71  | 0.65%  |

Yield is negative

# FED AIMS TO REDUCE \$8.87T BALANCE SHEET

The Federal Reserve balance sheet is comprised of the central bank's assets and liabilities, such as government loans extended to regional banks and U.S. currency in circulation.



SOURCE: BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM • SHADED AREAS INDICATE U.S. RECESSIONS  
PHOTO: GETTY IMAGES



## Key issues defining current yields for all short-term bonds

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- Consumer Price Inflation
- CPI running somewhere around **8.1%** on a year-over-year basis

# Today's landscape

| Symbol         | Name                                      | Size of fund in \$millions | Effective duration in years | Current yield in % |
|----------------|---|----------------------------|-----------------------------|--------------------|
| M:PIINX        | PIMCO Income Adm                          | \$124,158                  | 1.15                        | 4.08               |
| M:FCISX        | Franklin Income C                         | \$74,196                   | 2.80                        | 5.22               |
| M:VFSIX        | Vanguard Short-Term Investment-Grade I    | \$69,867                   | 2.77                        | 2.74               |
| M:LALDX        | Lord Abbett Short Duration Income A       | \$56,585                   | 2.01                        | 3.69               |
| M:FALCX        | Strategic Advisers <sup>®</sup> Large Cap | \$55,748                   | 0.93                        | 2.86               |
| M:PACLX        | T. Rowe Price Capital Appreciation Adv    | \$48,899                   | 1.91                        | 3.74               |
| M:BASIX        | BlackRock Strategic Income Opps Inv A     | \$43,626                   | 1.13                        | 2.86               |
| M:VSCSX        | Vanguard Short-Term Corp Bd Idx Admiral   | \$40,827                   | 2.77                        | 3.20               |
| BSV            | Vanguard Short-Term Bond ETF              | \$39,931                   | 2.68                        | 1.92               |
| M:VMLTX        | Vanguard Ltd-Term Tx-Ex                   | \$34,531                   | 2.27                        | 4.37               |
| SHY            | iShares 1-3 Year Treasury Bond ETF        | \$25,465                   | 1.89                        | 1.14               |
| M:MALOX        | BlackRock Global Allocation Instl         | \$21,940                   | 1.35                        | 3.75               |
| IGSB           | iShares 1-5 Year invmt Grd Corp Bd ETF    | \$21,549                   | 2.75                        | 3.12               |
| M:VWSTX        | Vanguard Short-Term Tx-Ex                 | \$21,439                   | 1.04                        | 4.37               |
| JPST           | JPMorgan Ultra-Short Income ETF           | \$18,613                   | 0.39                        | 2.05               |
| SHV            | iShares Short Treasury Bond ETF           | \$18,560                   | 0.36                        | 1.37               |
| M:VUBFX        | Vanguard Ultra-Short-Term Bond Investor   | \$17,561                   | 0.97                        | 2.07               |
| M:BAICX        | BlackRock Multi-Asset Income Investor A   | \$15,891                   | 1.26                        | 5.16               |
| VGSH           | Vanguard Short-Term Treasury ETF          | \$15,013                   | 1.91                        | 1.25               |
| M:PFTCX        | PIMCO Short-Term C                        | \$14,685                   | 0.05                        | 1.82               |
| M:LUBAX        | Lord Abbett Ultra Short Bond A            | \$13,907                   | 0.54                        | 2.76               |
| M:PSDLX        | Putnam Ultra Short Duration Income C      | \$13,032                   | 0.26                        | 2.12               |
| M:JNBAX        | JPMorgan Income Builder A                 | \$11,948                   | 2.62                        | 5.66               |
| M:ASBAX        | American Funds ST Bd Fd of Amer A         | \$11,765                   | 2.06                        | 1.03               |
| M:JDTRX        | PGIM Short-Term Corporate Bond R          | \$11,633                   | 2.74                        | 3.27               |
| MINT           | PIMCO Enhanced Short Maturity Active ETF  | \$11,424                   | 0.99                        | 2.38               |
| <b>TYPICAL</b> |   | <b>\$21,494</b>            | <b>1.62</b>                 | <b>2.86</b>        |



Immediate annuity

Money market  
fund

Laddered bank  
CDs

Traditional  
*“Modern Portfolio  
Theory”* diversified  
bond portfolio

Laddered high  
yield bonds

Tactical asset  
allocation

Immediate annuity

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yield bonds

Tactical asset  
allocation

- **Pros**

- Can use the word “guaranteed”
- Great way to charge a high advisory fee and have it hidden from the client
- Rock solid, never varying, monthly payments . . . bomb proof
- No work once it’s set up and running

- **Cons**

- Most expensive option . . . by a wide wide margin
- The four above benefits come at an offensively high price point
- Locked in and illiquid for the life of the annuity

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Tactical asset  
allocation

- **Pros**

- Very very little probability of generating a negative return . . . extremely unlikely
- Near perfect liquidity
- Small account minimum

- **Cons**

- Can't use the word "guaranteed"
- Near zero rate of return
- Can't justify charging an advisory fee

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Tactical asset  
allocation



- **Pros**

- Can use the word “guaranteed”
- No penalty for early withdrawal (other than giving up interest-earned)
- Rock solid, never varying, monthly payments . . . bomb proof
- Credit unions offer higher rates than banks

- **Cons**

- A lot of work to build and maintain the ladder . . . and for very little juice
- Pretty low rate of return
- Can't justify charging an advisory fee above 25bps

**The ladders I'm building  
for my clients today are  
generating 273bps  
(before advisory fees)**

Immediate annuity

Money market fund

Laddered bank CDs

Traditional *“Modern Portfolio Theory”* diversified bond portfolio

Laddered high yield bonds

Tactical asset allocation

- **Pros**

- Conventional, vanilla, accepted
- If you use this approach, you are hidden safely well inside the crowd
- Current yield of 2.19% for a reasonable, logical, prudent well-diversified portfolio
- Modest minimum account size
- Flawless liquidity

- **Cons**

- Can charge an advisory fee . . . but not above 25bps
- Need to rebalance the portfolio perhaps once a year or once every other year
- Negative quarterly returns when interest rates rise quickly enough

Immediate annuity

Money market  
fund

Laddered bank  
CDs

Traditional  
*“Modern Portfolio  
Theory”* diversified  
bond portfolio

Laddered high  
yield bonds

Tactical asset  
allocation

- **Pros**

- Highest expected return per unit of risk . . . of anything available today, anywhere !!!
- Tremendously favorable tradeoff between risk and return
- Current yield of 3.3% . . . is a reasonable expectation
- Low account minimum
- Works fantastically well with *“buckets”* . . . Time Segmentation Investing

- **Cons**

- Clients have to embrace and have high tolerance for inordinate week-to-week volatility
- Significant work to **build-it-yourself** . . . the right way to do this, is to use a fully-modeled solution
- Does terribly every time we have a **Global Pandemic** or a **Great Recession** . . . thankfully, these only happen once every *“hundred years”*
- Clients must bring adequate patience to the table

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Tactical asset  
allocation

- **Pros**

- Best possible solution when faced with
  - “Directional” change
  - Extreme uncertainty about what comes next . . . and how things will settle out
- Continuously adapts and evolves . . . never trapped within a pre-defined narrow box
- Spans and draws upon the entire range of all fixed-income opportunities (with suitably short effective durations)

- **Cons**

- Impractical, unless you access a fully-modeled, fully-automated investment solution
- Doesn't track conventional performance benchmarks . . . makes evaluation more challenging
- Performs poorly when *nothing's changing, uncertainty is low, everyone's optimistic*

## I like the TAA solution

- But does it make sense?
- Yes . . . . If you can either
  - Give it a FULL 2 ½ years before touching it
  - Or . . . . You slowly and smoothly draw the account down over at least 5 years
- Can we show this?
  - Yes, by building a simplistic TAA model and examining it over the period 1919-2022



- Portfolio consists of 5 positions
- Reconfigured once each month on the same date
- Positions are not equal-weighted . . . Instead scaled based on their contributions to risk and return over the entire period
- The 5 positions are those that trended most strongly and are drawn from a universe of 12 asset categories

# The 12 asset categories

Dow Jones U.S. Corporate Bond investment grade

AAA-rated municipal bonds

Thompson Jefferies CRB Core Commodity Total Return Index (with GFD extension)

Thomson Reuters Core Commodity CRB Index (with GFD extension)

Reuters CRB Total Return Index (with GFD extension)

International treasury bonds GDP-weighted

Global treasury bonds cap-weighted

90-day U.S. Treasury bills

1-year U.S. Treasury bonds

2-year U.S. Treasury bonds

5-year U.S. Treasury bonds

10-year U.S. Treasury bonds

## Are these the asset categories one would use today?

- Of course not
- **These are the assets that provide**
  - Data since Jan 1919
  - Ultra high quality data
  - Extremely well-defined clarity around exactly what they are and what they consist of

## Average weightings over last 103 years

|             |   |
|-------------|---|
| <b>24.5</b> | Dow Jones U.S. Corporate Bond investment grade                                |
| <b>1.6</b>  | AAA-rated municipal bonds   |
| <b>8.3</b>  | Thompson Jefferies CRB Core Commodity Total Return Index (with GFD extension) |
| <b>0.6</b>  | Thomson Reuters Core Commodity CRB Index (with GFD extension)                 |
| <b>7.2</b>  | Reuters CRB Total Return Index (with GFD extension)                           |
| <b>5.5</b>  | International treasury bonds GDP-weighted                                     |
| <b>8.0</b>  | Global treasury bonds cap-weighted  |
| <b>12.9</b> | 90-day U.S. Treasury bills  |
| <b>8.1</b>  | 1-year U.S. Treasury bonds  |
| <b>13.3</b> | 2-year U.S. Treasury bonds  |
| <b>1.9</b>  | 5-year U.S. Treasury bonds  |
| <b>8.1</b>  | 10-year U.S. Treasury bonds   |

- 7.9** Thompson Jefferies CRB Core Commodity Total Return Index (with GFD extension)
- 0.7** Thomson Reuters Core Commodity CRB Index (with GFD extension)
- 6.8** Reuters CRB Total Return Index (with GFD extension)
- 51.0** 90-day U.S. Treasury bills
- 33.7** 1-year U.S. Treasury bonds

- 14.7** Thompson Jefferies CRB Core Commodity Total Return Index (with GFD extension)
- 1.2** Thomson Reuters Core Commodity CRB Index (with GFD extension)
- 12.7** Reuters CRB Total Return Index (with GFD extension)
- 8.5** International treasury bonds GDP-weighted
- 62.8** 1-year U.S. Treasury bonds

## How often did commodities appear in the portfolio

- 46.6% of the months
- Side note
  - Precious metals behave terribly in short-term TAA models, i.e., when you only have 2 ½ years to perform
  - Narrow commodities such as oil, industrial metals, and agricultures also perform poorly

- 4.9% average return . . . over 103 years
- Over rolling time windows of **2 ½ years**
  - 89% chance of earning more than 0%
  - 84.6% chance of earning more than ½%
  - 80.2% chance of earning more than 1%
  - 75.8% chance of earning more than 1 ½%
  - 71% chance of earning more than 2%



## Nominal results . . . . **Without** adjustment for inflation

- 7.8% average return . . . over 103 years
- Over rolling time windows of **2 ½ years**
  - 97.5% chance of earning more than 0%
  - 95.8% chance of earning more than ½%
  - 94.1% chance of earning more than 1%
  - 92% chance of earning more than 1 ½%
  - 90.1% chance of earning more than 2%

### Overview

- A tactical limited duration bond strategy aiming to generate higher-than-average income while preserving capital.
- Portfolio duration: less than 4.25 years  
Portfolio weighted average credit rating: BBB- or better  
Monthly portfolio update
- Use unique RiskSwitch™ indicator to determine the level of participation in high yield and bank loan markets.

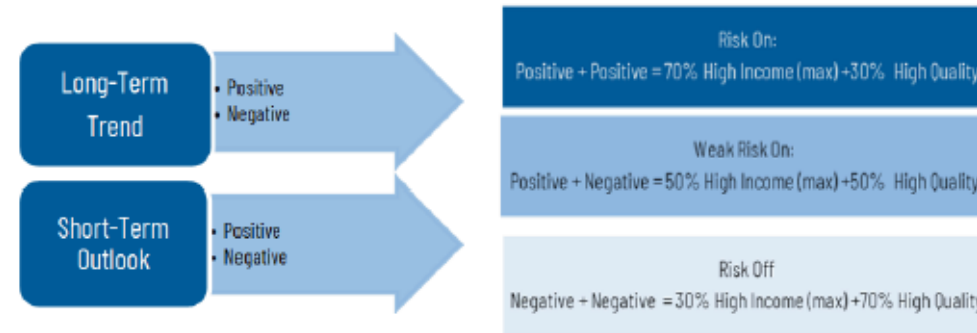
### Facts

**Customized Benchmark:**  
60.84% Bank Loans,  
30.40% Short-Term Treasuries, 7.81%  
Intermediate-Term Treasuries, 0.95% T-Bill

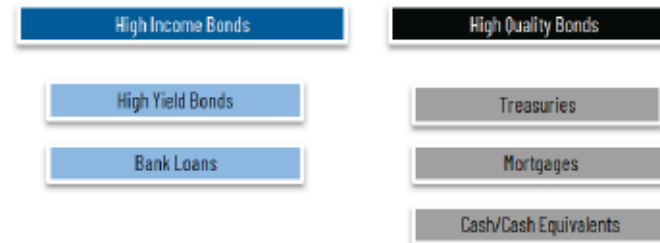
**Portfolio Manager:**  
Henry Ma, Ph. D., CFA  
25-Year Investment Experience

### Investment Process

Julex Capital uses a tactical model combining both long-term trend analysis and short-term market outlook to position the portfolios among high yield bonds, bank loans, mortgages, Treasuries and cash/short-term Treasuries.



### Investment Universe



### Hypothetical Back Test Results\*

|  | January 2000 - December 2020 | Opportunistic Years 0-5 | Benchmark |
|--|------------------------------|-------------------------|-----------|
| Annual Return                              |                              | 5.67%                   | 3.87%     |
| Standard Deviation                         |                              | 3.12%                   | 3.68%     |
| Max. Drawdown                              |                              | -4.02%                  | -16.19%   |
| The Great Recession (10/31/2007-2/28/2009) |                              | 1.47%                   | -11.86%   |
| COVID Crisis (12/31/2019 - 3/31/2020)      |                              | -2.77%                  | -4.44%    |
| Sharpe Ratio (risk free rate = 1.60%)      |                              | 1.30                    | 0.62      |

\*Investment performance shown on this page is HYPOTHETICAL. It is based on the back tests of historical data. Hypothetical performance results have many inherent limitations. No representation is being made that any account will or is likely to achieve profit or losses similar to those shown. In fact, there are frequently sharp differences between hypothetical performance results and the actual results subsequently achieved by any particular trading program.

## Investment Universe

High Income Bonds

High Yield Bonds

Bank Loans

High Quality Bonds

Treasuries

Mortgages

Cash/Cash Equivalents

## Hypothetical Back Test Results\*

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**Customized Benchmark:**

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# What does Rob use with his own clients?

I use four solutions

**WHY?** Because no solution is ever “Best” . . . . and clients have different needs

## I use four solutions across my own clients

- Money market fund
  - Laddered credit union CDs
  - Laddered high yield bonds . . . fully-modeled, fully-automated
  - Tactical asset allocation . . . Julex
- 
- Why?
  - Clients differ
  - With respect to
    - Volatility
    - Patience
    - Understanding and appreciation for **“directional” change** and off-the-map **uncertainty**

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# Evidence that tactical asset allocation works

Friday

June 17<sup>th</sup>

11:00 a.m. EASTERN



All data and statistics were provided by Global Financial Data, Inc. and NDR, Inc. (unless otherwise indicated in the exhibit)

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One of the limitations of hypothetical performance results is that they are generally prepared with the benefit of hindsight. In addition, hypothetical trading does not involve financial risk, and no hypothetical trading record can completely account for the impact of financial risk in actual trading. For example, the ability to withstand losses or adhere to a particular trading program in spite of trading losses are material points which can also adversely affect actual trading results. There are numerous other factors related to the markets in general or to the implementation of any specific trading program which cannot be fully accounted for in the presentation of hypothetical performance results and all of which can adversely affect actual trading results.

The composition of a benchmark index may not reflect the manner in which a Julex portfolio is constructed in relation to expected or achieved returns, investment holdings, portfolio guidelines, restrictions, sectors, correlations, concentrations, volatility, or tracking error targets, all of which are subject to change over time.

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