

MPI Target Date Fund Report

Target Date Families:

American Funds Trgt Date Rtrmt Series R5
Fidelity Freedom Series
Putnam Retirement Advantage I
State Street Target Retirement Series K
T. Rowe Price Retirement Series
Vanguard Target Retirement Series Inv

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Portfolio Details

| | American Funds Trgt Date Rtrmt Series | Fidelity Freedom Series | Putnam Retirement Advantage | State Street Target Retirement Series | T. Rowe Price Retirement Series | Vanguard Target Retirement Series |
|---|---|---|---|---|---|---|
| Share Class / Type | R5 / MF | Other / MF | I / CIT | K/MF | No Load / MF | Inv / MF |
| Vintages Offered (Incl. Income) | 2010 - 2060 | 2005 - 2060 | 2020 - 2060 | 2015 - 2060 | 2005 - 2060 | 2015 - 2065 |
| Total # Offered | 11 | 13 | 10 | 11 | 12 | 12 |
| Active/Passive° | Active | Active | Active | Passive | Active | Passive |
| Open/Proprietary ¹ | Proprietary | Proprietary | Proprietary | Proprietary | Proprietary | Proprietary |
| Glide Path Type (To / Through) | Through | Through | Through | Through | Through | Through |
| Landing Point | 30 Years After Retirement | 15 Years After Retirement | 5 Years After Retirement | 5 Years After Retirement | 30 Years After Retirement | 10 Years After Retirement |
| Equity Exposure (holdings-based) ² | 83.91% (2060) 40.68% (2010) 43.23% (Spread) | 88.10% (2050) 23.67% (Income) 64.43% (Spread) | 82.00% (2060) 25.75% (Income) 56.25% (Spread) | 86.77% (2045) 33.51% (Income) 53.26% (Spread) | 86.63% (2050) 35.47% (2005) 51.16% (Spread) | 88.40% (2060) 29.86% (Income) 58.54% (Spread) |
| Equity Exposure (returns-based) ³ | 88.36% (2050) 39.81% (2010) 48.55% (Spread) | 94.63% (2045) 22.72% (Income) 71.91% (Spread) | 96.99% (2060) 27.46% (Income) 69.53% (Spread) | 86.89% (2050) 28.53% (Income) 58.36% (Spread) | 85.24% (2050) 35.87% (2005) 49.37% (Spread) | 89.32% (2050) 29.22% (Income) 60.10% (Spread) |
| Non-Traditional Exposure Rank (returns-based)* | 3rd Quartile | 1st Quartile | 4th Quartile | 1st Quartile | 2nd Quartile | 4th Quartile |
| Average Prosp. Net Exp. Ratio | 0.44 | 0.66 | 0.50 | 0.13 | 0.68 | 0.14 |
| Longest Manager Tenure (Years) | 11.08 | 6.75 | 10.16 | 3.42 | 15.42 | 5.02 |
| Average Manager Tenure (Years) | 10.07 | 6.44 | 9.05 | 3.42 | 13.04 | 5.02 |
| Largest Net Assets (\$ Millions) | \$16,499.00 (2030) | \$32,153.00 (2030) | \$2,977.39 (2030) | \$952.00 (2025) | \$27,054.00 (2030) | \$39,830.00 (2025) |
| Average Net Assets Across Vintages (\$ Millions) | \$8,589.36 | \$14,280.62 | \$1,610.91 | \$488.82 | \$12,173.08 | \$22,126.82 |
| Largest # Underlying Funds | 22 | 32 | 2290 | 11 | 23 | 6 |

All information contained here is based on products selected in this report and not necessarily all available products offered.

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Active/Passive categorization is based on Morningstar's Top 10 Holdings: <25% passive exposure is Active; >=25% & <75% passive exposure is Blend; >=75% average passive exposure is Passive. Open/Proprietary classification is based on Morningstar's Top 10 Holdings. If 1 or more of the top 10 holdings is managed by a firm other than the Target Date manager, the result is Open classification.

²Equity Exposure (holdings-based) includes holdings from U.S. Equity and Non-U.S. Equity.

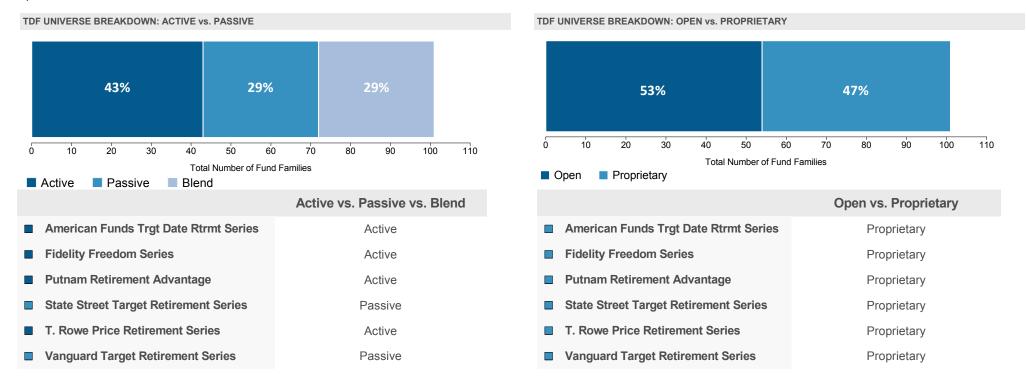
Factors used in determining total equity exposure are indices representing U.S. Large Cap Equity, U.S. Mid Cap Equity, U.S. Small Cap Equity, Developed Foreign Equity, and Emerging Market Equity. *Factors used in determining non-traditional exposure are indices representing Emg. Market Equity, Dev. Foreign Equity, Emg. Market Debt, Dev. Foreign Debt, High Yield Bonds, Commodities, REITs, and TIPS.

Active vs Passive

Open vs Proprietary

Active, Passive, or Blend, describes whether the target date fund manager should have an active, passive, or blended investment strategy. Active strategies are when managers actively try to outperform a benchmark by adjusting their holdings to exploit profitable opportunities. Passive strategies are strategies where managers invest in a similar mix of assets as a benchmark/index in order to replicate the results of that index. Blend strategies seek to track the performance of a benchmark/index in addition to earning positive excess returns.

Open or Proprietary describes whether the assets that the target date funds invest in should be managed by the same organization that manages the target date fund itself (Proprietary) or by multiple organizations (Open).



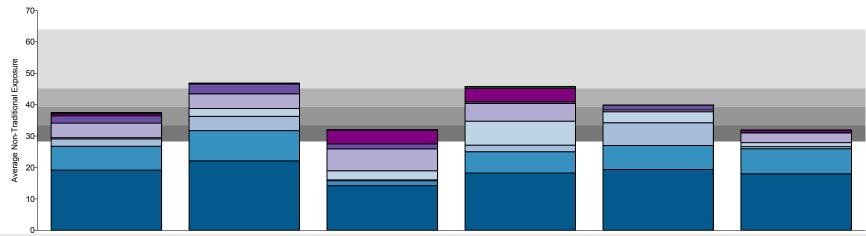
This proprietary universe consists of 101 target date families. The categorizations of Active/Passive/Blend and Open/Proprietary are based on the following thresholds: Active/Passive categorization is based on Morningstar's Top 10 Holdings: <25% passive exposure is Active; >=25% & <75% passive exposure is Blend; >=75% average passive exposure is Passive. Open/Proprietary classification is based on Morningstar's Top 10 Holdings. If 1 or more of the top 10 holdings is managed by a firm other than the Target Date manager, the result is Open classification.

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Non-Traditional Asset Class Breakdown

Non-traditional asset class exposure determines the degree to which the fund is exposed to non-traditional assets. Non-traditional assets are composed of indices representing developed foreign equity, emerging market equity, developed foreign debt, emerging market debt, TIPS, high yield bonds, REITs, and commodities. These are returns-based style exposures to these indices and not based on actual fund holdings.

AVERAGE NON-TRADITIONAL ASSETS EXPOSURE

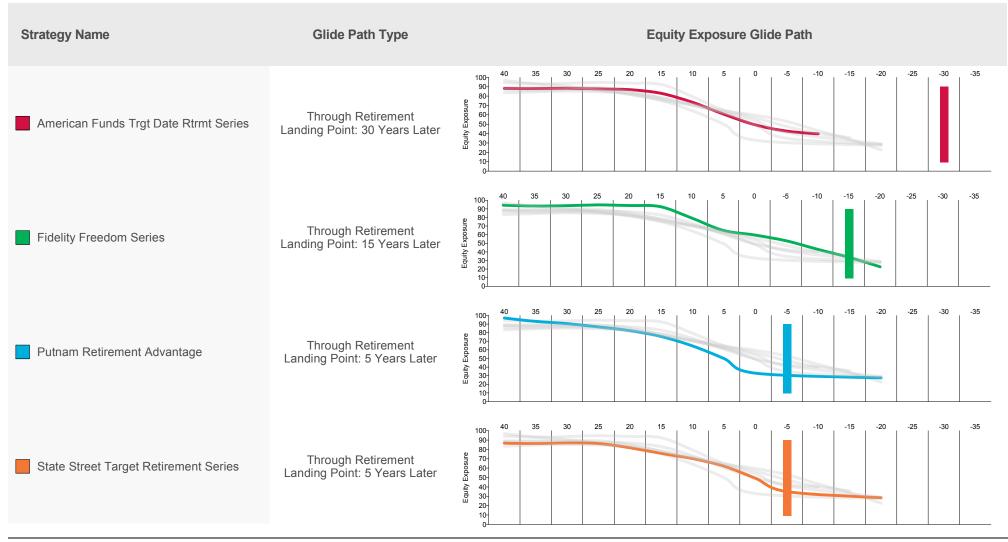


| | American Funds Trgt Date Rtrmt Series | Fidelity Freedom Series | Putnam Retirement Advantage | State Street Target Retirement Series | T. Rowe Price Retirement Series | Vanguard Target Retirement Series |
|----------------------------|---|-------------------------------|-----------------------------------|---|---------------------------------------|---|
| ■ Developed Foreign Equity | 19.14 | 22.12 | 14.19 | 18.24 | 19.34 | 17.99 |
| ■ Emerging Markets Equity | 7.61 | 9.62 | 1.62 | 6.78 | 7.68 | 8.01 |
| ■ Developed Foreign Debt | 2.36 | 4.54 | 0.26 | 2.07 | 7.20 | 0.65 |
| ■ Emerging Markets Debt | 0.38 | 2.51 | 2.86 | 7.65 | 3.55 | 1.29 |
| ■ TIPS | 4.64 | 4.68 | 6.99 | 5.66 | 0.54 | 3.09 |
| ■ High Yield | 2.36 | 3.11 | 1.57 | 0.56 | 1.55 | 0.03 |
| ■ REITs | 0.64 | 0.09 | 4.40 | 4.26 | 0.03 | 0.79 |
| Commodities | 0.35 | 0.20 | 0.15 | 0.56 | 0.02 | 0.07 |
| Non-Trad. Exposure Total | 37.46 | 46.86 | 32.05 | 45.78 | 39.91 | 31.91 |
| Non-Trad. Exposure Rank | 3rd Quartile | 1st Quartile | 4th Quartile | 1st Quartile | 2nd Quartile | 4th Quartile |

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Landing Point Breakdown

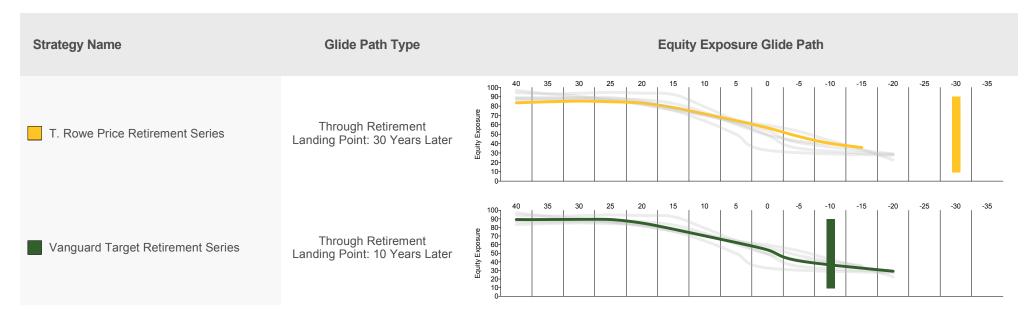
Landing point determines where in a retiree's lifetime the lowest equity allocation occurs. In some cases, this can be before retirement (defined as age 65) or up to retirement ("To Funds") and the retiree's account moves to the Target Date suite's Income fund at that point. In other cases, the landing point might be well beyond or through retirement ("Through Funds") and the equity allocation continues to get lower until the specified "Landing Point".



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Landing Point Breakdown

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Growth Asset Breakdown

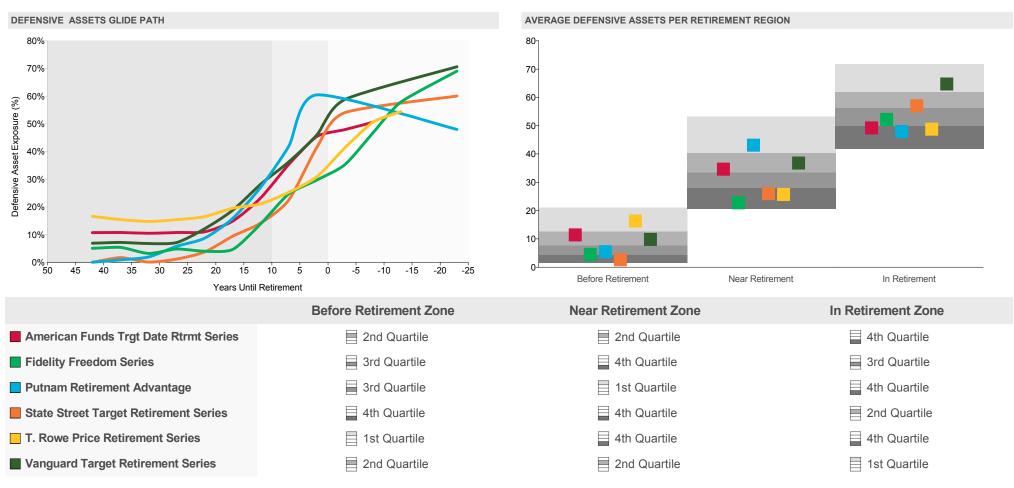
Growth assets are assets that mitigate Longevity risk, which is the risk of outliving your money. The purpose of these assets, as its name implies, is to grow wealth. The asset classes that compose growth assets are made up of US Equity (Large, Mid, and Small), Non-US Equity (Emerging and Developed), High Yield Fixed Income, Emerging Market Debt, Commodities, and REITs. There are three distinct stages where we look at the percentage of growth assets that should be in a TDF for the participant; Before-retirement (<55), Near-retirement (55-65), and In-Retirement (>65).



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Defensive Asset Breakdown

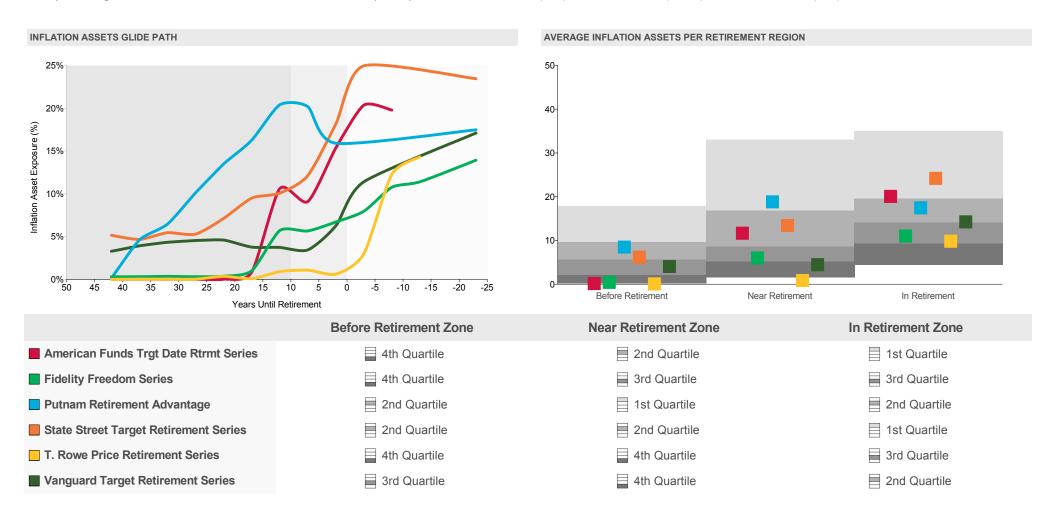
Defensive assets are assets that mitigate Volatility risk, which is the risk of losing value due to market volatility. The purpose of these assets is to provide some insulation from poor market conditions and preserve the value of the portfolio. The asset classes that compose defensive assets are made up of Cash Equivalents, Developed Foreign Debt, Core US Fixed Income, Short-Term Corporate, TIPS, and Short-Term TIPS. There are three distinct stages where we look at the percentage of volatility assets that should be in a TDF for the participant; Before-retirement (<55), Near-retirement (55-65), and In-Retirement (>65).



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Inflation Asset Breakdown

Inflation assets are assets that mitigate Inflation risk, which is the risk of losing purchasing power. The purpose of these assets is to preserve the purchasing power of wealth that you have accumulated. The asset classes that compose inflation assets are made up of TIPS, Short Term TIPS, Commodities, and REITs. There are three distinct stages where we look at the percentage of inflation assets that should be in a TDF for a participant; Before-retirement (<55), Near-retirement (55-65), and In-Retirement (>65).



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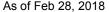
Prospectus Net Expense Ratio

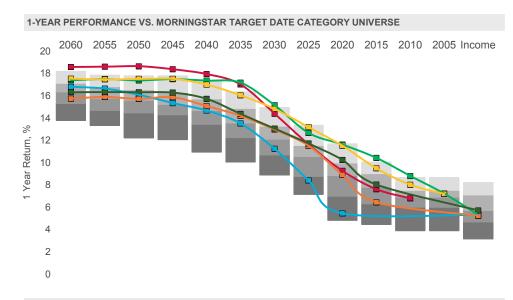


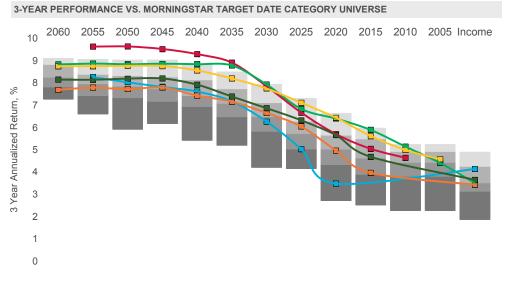
Prospectus Net Expense Ratio is based on the most recent prospectus from which Morningstar pulled their data. Please refer to each fund's current prospectus for the most recent information. Morningstar Category peer universe is based off of the oldest share class. Share classes being analyzed are selected by client.

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Performance Over Time

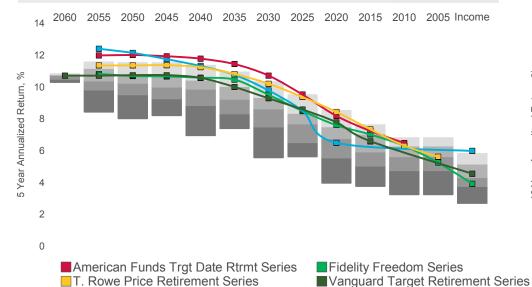




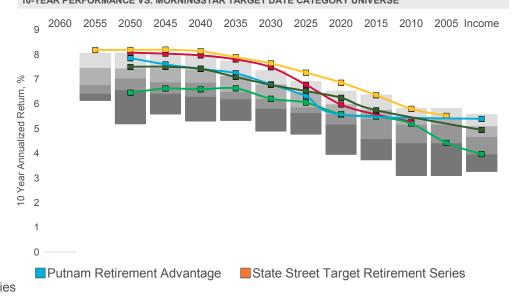


5-YEAR PERFORMANCE VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE

Morningstar Category peer universe is based off of the oldest share class.

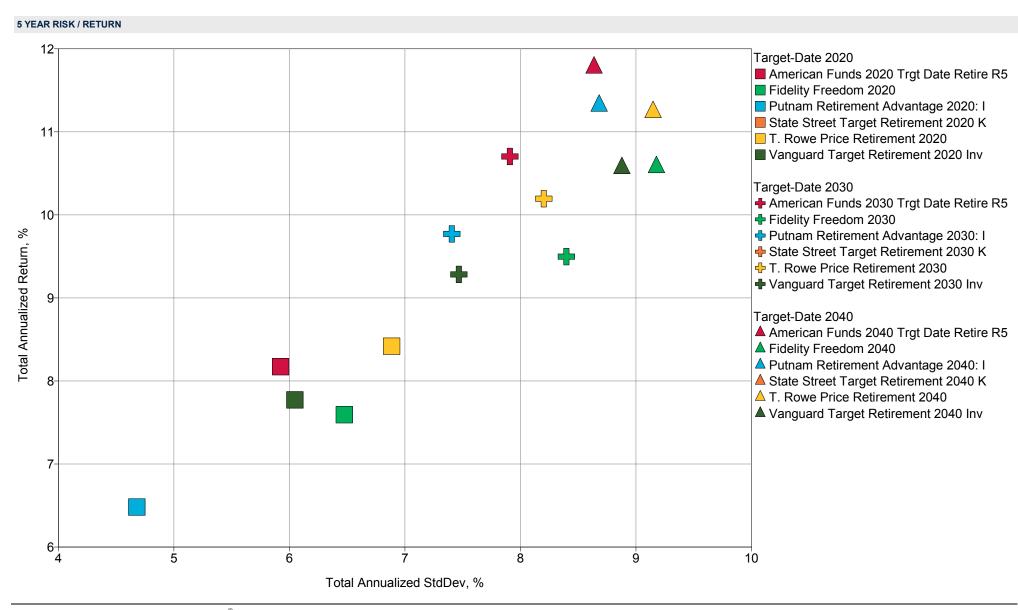


10-YEAR PERFORMANCE VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



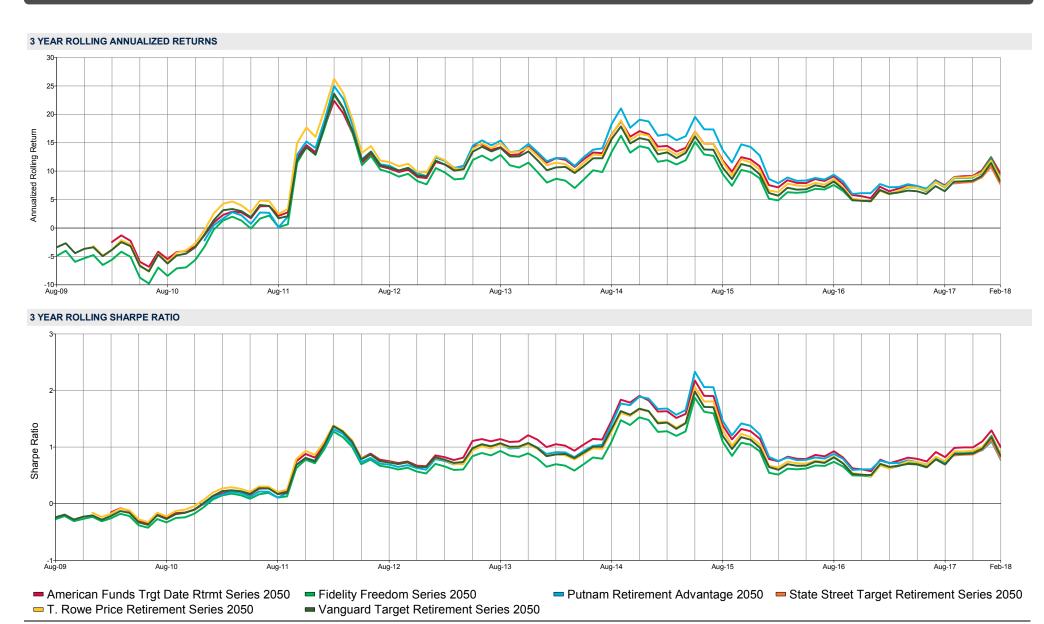
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Risk / Return



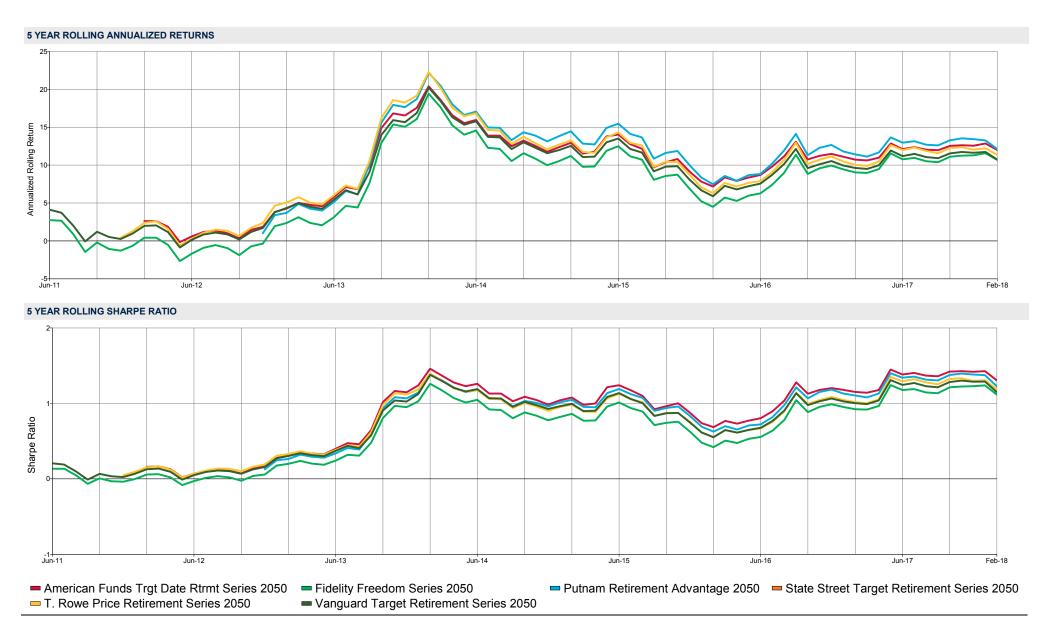
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Rolling Period Returns & Risk Adjusted



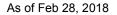
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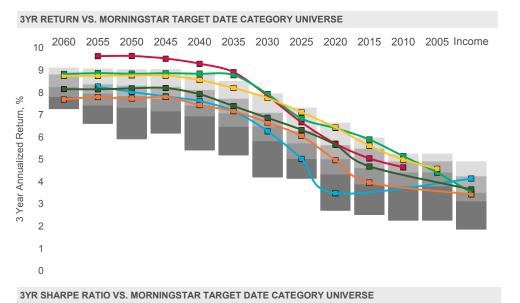
Rolling Period Returns & Risk Adjusted

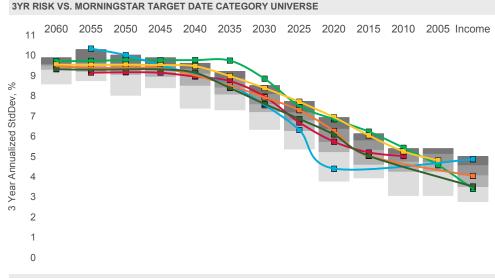


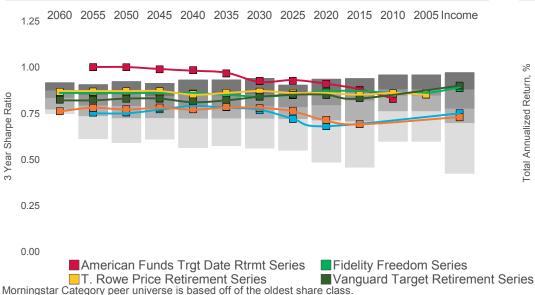
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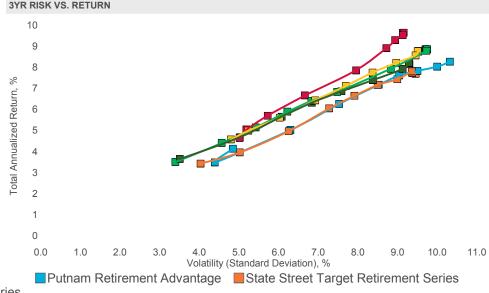
3-Year Risk / Return Analysis





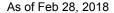


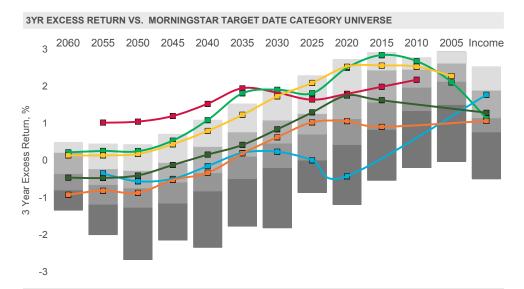


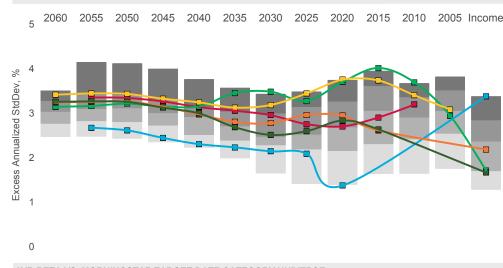


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3-Year Relative Risk / Return Analysis



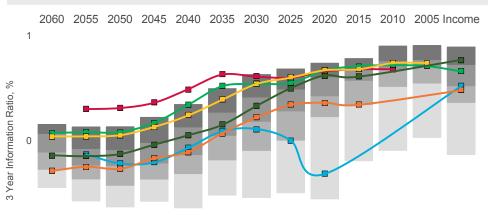


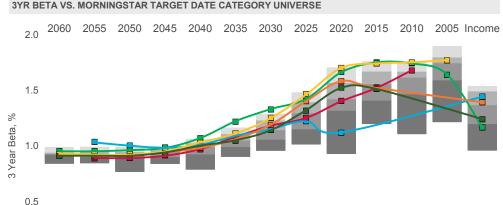


3YR TRACKING ERROR VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE

3YR INFORMATION RATIO VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE

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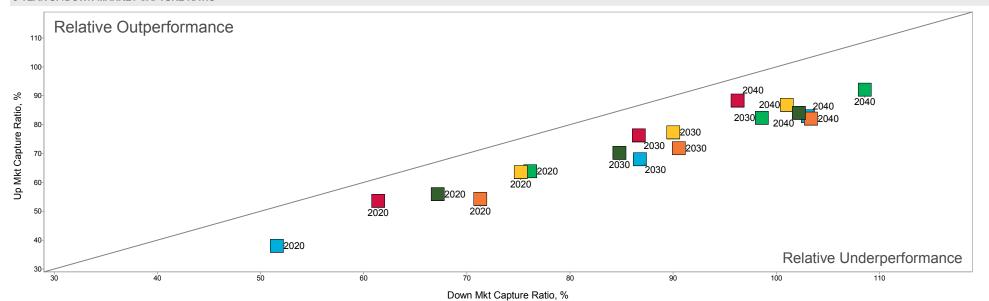
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Benchmark series used is Dow Jones Target Date Indices. Specific benchmarks can be found in the disclosure section. Morningstar Category peer universe is based off of the oldest share class.

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MPT Statistics vs S&P 500 Index

3-YEAR UP/DOWN-MARKET CAPTURE RATIO



| | Up Market Capture Ratio | Down Market Capture Ratio | Up Market Average Return | Down Market Average Return | Number of Up Market Months | Number of Down Market Months | R-Squared |
|---|----------------------------|------------------------------|-----------------------------|-------------------------------|-------------------------------|---------------------------------|-----------|
| American Funds 2040 Trgt Date Retire R5 | 88.37 | 96.25 | 1.88 | -2.60 | 27.00 | 9.00 | 93.10 |
| American Funds 2030 Trgt Date Retire R5 | 76.25 | 86.68 | 1.64 | -2.34 | 26.00 | 9.00 | 92.85 |
| American Funds 2020 Trgt Date Retire R5 | 53.58 | 61.40 | 1.17 | -1.64 | 25.00 | 11.00 | 88.09 |
| Fidelity Freedom 2040 | 92.12 | 108.57 | 1.96 | -2.94 | 26.00 | 10.00 | 92.57 |
| Fidelity Freedom 2030 | 82.38 | 98.61 | 1.76 | -2.67 | 26.00 | 10.00 | 91.72 |
| Fidelity Freedom 2020 | 63.86 | 76.14 | 1.39 | -2.05 | 26.00 | 9.00 | 89.62 |
| Putnam Retirement Advantage 2040: I | 82.90 | 103.08 | 1.77 | -2.79 | 26.00 | 10.00 | 96.43 |
| Putnam Retirement Advantage 2030: I | 68.04 | 86.78 | 1.47 | -2.34 | 25.00 | 10.00 | 95.74 |
| Putnam Retirement Advantage 2020: I | 38.04 | 51.59 | 0.84 | -1.38 | 24.00 | 10.00 | 88.22 |
| State Street Target Retirement 2040 K | 82.10 | 103.37 | 1.76 | -2.80 | 26.00 | 10.00 | 92.83 |
| State Street Target Retirement 2030 K | 71.84 | 90.55 | 1.55 | -2.44 | 26.00 | 10.00 | 91.09 |
| State Street Target Retirement 2020 K | 54.24 | 71.29 | 1.19 | -1.91 | 25.00 | 11.00 | 87.26 |

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MPT Statistics vs S&P 500 Index

3-YEAR UP/DOWN-MARKET CAPTURE RATIO Relative Outperformance 100-2040 Up Mkt Capture Ratio, 2020 2020 2020 2020 2020 Relative Underperformance 100 110 60 Down Mkt Capture Ratio, %

| | Up Market Capture Ratio | Down Market Capture Ratio | Up Market Average Return | Down Market Average Return | Number of Up Market Months | Number of Down Market Months | R-Squared |
|-------------------------------------|----------------------------|---------------------------|-----------------------------|-------------------------------|-------------------------------|---------------------------------|-----------|
| T. Rowe Price Retirement 2040 | 86.88 | 101.02 | 1.85 | -2.73 | 25.00 | 11.00 | 91.80 |
| T. Rowe Price Retirement 2030 | 77.33 | 90.01 | 1.66 | -2.43 | 25.00 | 11.00 | 91.47 |
| T. Rowe Price Retirement 2020 | 63.57 | 75.23 | 1.38 | -2.02 | 26.00 | 9.00 | 90.07 |
| Vanguard Target Retirement 2040 Inv | 84.10 | 102.20 | 1.80 | -2.77 | 26.00 | 10.00 | 93.57 |
| Vanguard Target Retirement 2030 Inv | 70.25 | 84.80 | 1.52 | -2.28 | 26.00 | 10.00 | 92.56 |
| Vanguard Target Retirement 2020 Inv | 55.94 | 67.18 | 1.22 | -1.80 | 26.00 | 10.00 | 89.69 |

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Max Drawdown



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Asset Allocation (holdings-based)

| | | | | | | | | | | | Holdings | As of De | c 31, 2017 |
|---------------------------------------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|----------------|---|-------------|
| American Funds Trgt Date Rtrn | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | | |
| ■ Equities | 83.91 | 83.91 | 83.91 | 83.15 | 81.88 | 78.69 | 68.77 | 57.79 | 48.32 | 43.85 | 40.68 | | |
| ■ Bonds | 8.69 | 8.69 | 8.69 | 9.46 | 10.76 | 13.89 | 23.27 | 33.86 | 43.39 | 48.02 | 51.49 | | |
| □ Cash | 7.12 | 7.12 | 7.12 | 7.09 | 7.04 | 7.10 | 7.61 | 8.00 | 7.90 | 7.67 | 7.36 | | |
| □ Other | 0.28 | 0.28 | 0.28 | 0.30 | 0.32 | 0.32 | 0.34 | 0.35 | 0.40 | 0.46 | 0.48 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | L La LaBoració | | - 04 0040 |
| | | | | | | | | | | | • | | n 31, 2018 |
| Fidelity Freedom Series | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | 2005 | Income |
| Equities | 88.03 | 88.01 | 88.10 | 88.09 | 88.09 | 86.38 | 75.35 | 63.20 | 57.41 | 51.05 | 42.31 | 33.47 | 23.67 |
| Bonds | 5.54 | 5.54 | 5.53 | 5.54 | 5.54 | 7.16 | 17.68 | 24.75 | 28.60 | 32.43 | 37.47 | 42.31 | 47.26 |
| ■ Cash | 5.66 | 5.66 | 5.58 | 5.58 | 5.58 | 5.67 | 6.25 | 11.39 | 13.35 | 15.92 | 19.68 | 23.73 | 28.61 |
| ☐ Other | 0.77 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.73 | 0.66 | 0.64 | 0.60 | 0.55 | 0.50 | 0.46 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | Holdings | : As of De | c 31, 2017 |
| Putnam Retirement Advantage | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | | . ioidii ige | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Income |
| • | | 79.96 | 74.38 | | 62.30 | 2035 57.61 | 51.22 | 41.94 | 32.24 | | | | |
| ■ Equities | 82.00 | | | 68.05 | | | | | | | | | 25.75 |
| Bonds | 4.12 | 5.54 | 9.41 | 13.80 | 17.02 | 20.09 | 24.87 | 31.18 | 38.35 | | | | 45.59 |
| □ Cash | 13.43 | 14.04 | 15.69 | 17.56 | 19.71 | 21.02 | 22.41 | 24.50 | 25.43 | | | | 21.36 |
| □ Other | 0.45 | 0.46 | 0.53 | 0.59 | 0.97 | 1.28 | 1.50 | 2.39 | 3.98 | | | | 7.30 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | Holdings | As of De | ec 31, 2017 |
| State Street Target Retirement | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | | | Income |
| Equities | 85.99 | 86.73 | 86.69 | 86.77 | 81.91 | 77.01 | 69.89 | 62.65 | 50.50 | 38.62 | | | 33.51 |
| Bonds | 9.77 | 9.83 | 9.83 | 9.82 | 14.74 | 19.66 | 27.08 | 34.46 | 46.58 | 59.53 | | | 63.40 |
| ■ Cash | 4.01 | 3.21 | 3.25 | 3.18 | 3.13 | 3.12 | 2.84 | 2.72 | 2.78 | 1.75 | | | 3.01 |
| □ Other | 0.23 | 0.23 | 0.23 | 0.23 | 0.22 | 0.20 | 0.20 | 0.18 | 0.14 | 0.09 | | | 0.08 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Morningstar Target Date Cat Av | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | 2005 | Income |
| Equities | 85.32 | 81.87 | 81.03 | 80.52 | 75.32 | 71.50 | 62.52 | 54.78 | 45.67 | 39.35 | 32.77 | 32.77 | 28.37 |
| Bonds | 7.34 | 7.77 | 8.91 | 9.75 | 13.30 | 17.76 | 25.00 | 32.24 | 40.48 | 45.26 | 47.99 | 47.99 | 51.69 |
| □ Cash | 4.44 | 5.34 | 5.77 | 4.99 | 6.19 | 5.81 | 7.01 | 7.43 | 8.18 | 8.37 | 11.49 | 11.49 | 14.15 |
| □ Other | 2.90 | 5.02 | 4.28 | 4.74 | 5.19 | 4.94 | 5.47 | 5.55 | 5.67 | 7.01 | 7.76 | 7.76 | 5.79 |
| | | | | | | | | | | | | | |

Morningstar Category peer universe is based off of the oldest share class.

Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

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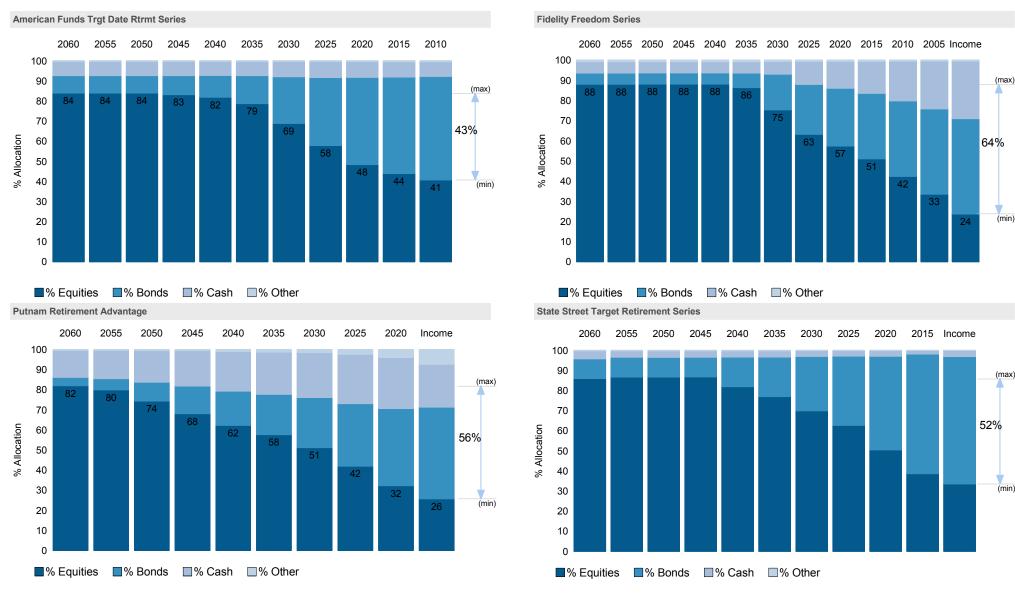
Asset Allocation (holdings-based)

| | | | | | | | | | | | Holdings | S As of De | ec 31, 2017 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------------|-------------|
| T. Rowe Price Retirement Serie | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | 2005 | |
| ■ Equities | 86.15 | 86.25 | 86.63 | 86.40 | 84.34 | 79.44 | 73.73 | 65.89 | 58.27 | 48.41 | 40.86 | 35.47 | |
| Bonds | 10.28 | 10.31 | 10.39 | 10.36 | 12.70 | 17.36 | 23.00 | 30.50 | 38.23 | 48.01 | 54.85 | 60.23 | |
| ☐ Cash | 1.14 | 1.00 | 0.47 | 0.72 | 0.37 | 0.54 | 0.58 | 0.83 | 0.68 | 0.74 | 1.45 | 1.46 | |
| □ Other | 2.44 | 2.44 | 2.51 | 2.52 | 2.59 | 2.67 | 2.69 | 2.78 | 2.82 | 2.85 | 2.85 | 2.84 | |
| | | | | | | | | | | | Holdings | s As of Ja | an 31, 2018 |
| Vanguard Target Retirement Se | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | | | Income |
| ■ Equities | 88.40 | 88.33 | 88.37 | 88.37 | 84.30 | 76.95 | 69.58 | 62.53 | 53.78 | 41.63 | | | 29.86 |
| ■ Bonds | 9.66 | 9.66 | 9.68 | 9.68 | 13.65 | 20.79 | 27.94 | 34.81 | 43.35 | 55.23 | | | 66.69 |
| ■ Cash | 1.15 | 1.22 | 1.16 | 1.16 | 1.23 | 1.40 | 1.57 | 1.72 | 1.92 | 2.21 | | | 2.53 |
| □ Other | 0.79 | 0.79 | 0.79 | 0.79 | 0.82 | 0.87 | 0.90 | 0.95 | 0.95 | 0.93 | | | 0.93 |
| Morningstar Target Date Cat Av | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | 2005 | Income |
| ■ Equities | 85.32 | 81.87 | 81.03 | 80.52 | 75.32 | 71.50 | 62.52 | 54.78 | 45.67 | 39.35 | 32.77 | 32.77 | 28.37 |
| Bonds | 7.34 | 7.77 | 8.91 | 9.75 | 13.30 | 17.76 | 25.00 | 32.24 | 40.48 | 45.26 | 47.99 | 47.99 | 51.69 |
| □ Cash | 4.44 | 5.34 | 5.77 | 4.99 | 6.19 | 5.81 | 7.01 | 7.43 | 8.18 | 8.37 | 11.49 | 11.49 | 14.15 |
| □ Other | 2.90 | 5.02 | 4.28 | 4.74 | 5.19 | 4.94 | 5.47 | 5.55 | 5.67 | 7.01 | 7.76 | 7.76 | 5.79 |

Morningstar Category peer universe is based off of the oldest share class.

Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

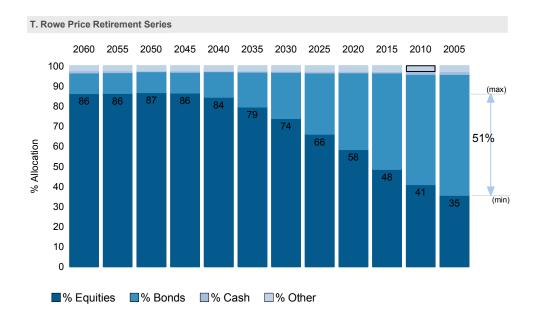
Glide Path (holdings-based)

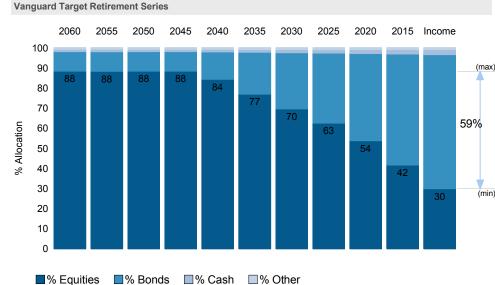


Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

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Glide Path (holdings-based)





Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

Equity Glide Path (holdings-based)

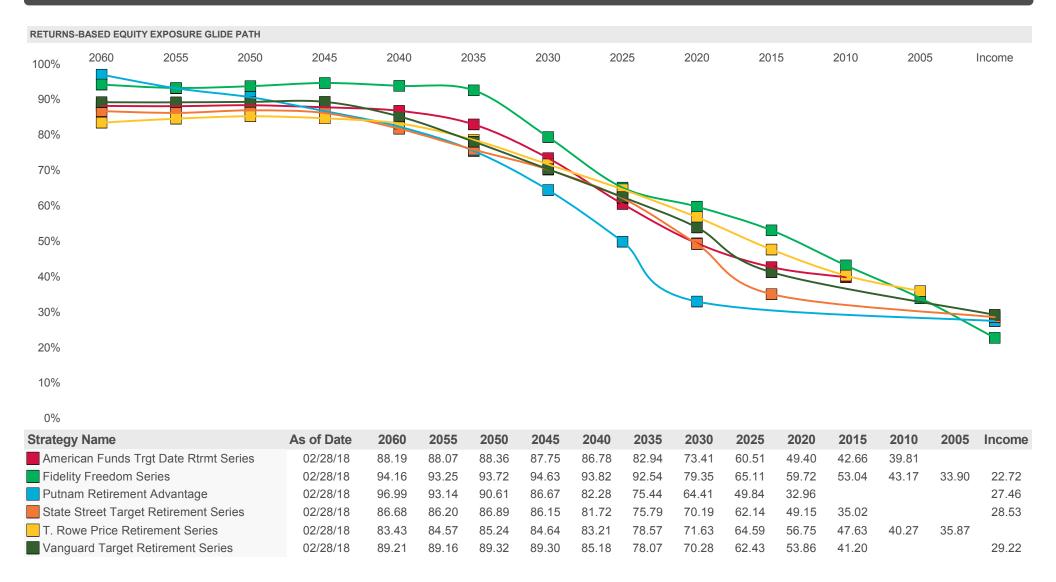
| HOLDINGS BASES E | OUITY OF DE DATE | | | | | | | | | | | | | | | |
|------------------|------------------|-----------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| HOLDINGS-BASED E | QUITY GLIDE PATE | | | | | | | | | | | | | | | |
| 100% 2060 | 2055 | 2050 | 2045 | 2040 | 20 |)35 | 2030 | 20 | 25 | 2020 | 201 | 5 | 2010 | 2005 | 5 | Income |
| | | _ | | | | | | | | | | | | | | |
| 90% | | | | | | | | | | | | | | | | |
| 80% | | | | | | | | | | | | | | | | |
| 70% | | | | | | | | | | | | | | | | |
| 7070 | | | | | | | | | | | | | | | | |
| 60% | | | | | | | | | | | | | | | | |
| 50% | | | | | | | | | | | | | | | | |
| 40% | | | | | | | | | | _ | | | - | | _ | |
| | | | | | | | | | | | | | | | | |
| 30% | | | | | | | | | | | | | | | | |
| 20% | | | | | | | | | | | | | | | | |
| 100/ | | | | | | | | | | | | | | | | |
| 10% | | | | | | | | | | | | | | | | |
| 0% | | | | | | | | | | | | | | | | |
| Strategy Name | | | As of Date | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | 2005 | Income |
| American Fund | s Trgt Date Rtri | mt Series | 12/31/2017 | 83.91 | 83.91 | 83.91 | 83.15 | 81.88 | 78.69 | 68.77 | 57.79 | 48.32 | 43.85 | 40.68 | | |
| Fidelity Freedo | m Series | | 01/31/2018 | 88.03 | 88.01 | 88.10 | 88.09 | 88.09 | 86.38 | 75.35 | 63.20 | 57.41 | 51.05 | 42.31 | 33.47 | 23.67 |
| Putnam Retirer | ment Advantage | : | 12/31/2017 | 82.00 | 79.96 | 74.38 | 68.05 | 62.30 | 57.61 | 51.22 | 41.94 | 32.24 | | | | 25.75 |
| State Street Ta | rget Retirement | Series | 12/31/2017 | 85.99 | 86.73 | 86.69 | 86.77 | 81.91 | 77.01 | 69.89 | 62.65 | 50.50 | 38.62 | | | 33.51 |
| T. Rowe Price I | Retirement Seri | es | 12/31/2017 | 86.15 | 86.25 | 86.63 | 86.40 | 84.34 | 79.44 | 73.73 | 65.89 | 58.27 | 48.41 | 40.86 | 35.47 | |
| Vanguard Targ | et Retirement S | eries | 01/31/2018 | 88.40 | 88.33 | 88.37 | 88.37 | 84.30 | 76.95 | 69.58 | 62.53 | 53.78 | 41.63 | | | 29.86 |
| Morningstar Tar | get Date Cat A | vg | | 85.32 | 81.87 | 81.03 | 80.52 | 75.32 | 71.50 | 62.52 | 54.78 | 45.67 | 39.35 | 32.77 | 32.77 | 28.37 |
| Morningstar Tar | get Date Cat M | edian | | 87.80 | 86.26 | 86.20 | 85.26 | 80.73 | 74.96 | 66.00 | 57.19 | 47.43 | 41.18 | 34.75 | 34.75 | 28.88 |

Morningstar Category peer universe is based off of the oldest share class.

Allocations and holdings are subject to change. Equity Holdings are measured as the sum of U.S. Equity and Non-U.S. Equity.

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Equity Exposure Glide Path (returns-based)



Returns based Total Equity Exposure is the result of multi-variate regression of each product to five equity indices that comprise both US and Non-US Equity.

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Equity Allocation Breakdown (holdings-based)

Holdings

Equity (%)

| | Holdings | ⊑qui | i ly (/0) | Regional E | xposure (10) | (76) | | | | |
|---------------------------------------|------------|--------------|-------------------|--------------------|----------------------|--------------|--------------|---------------|--------------|--------------|
| 2020 | Date | US Equity | Non-US Equity | Emerging Market | Developed Country | Giant Cap | Large Cap | Medium Cap | Small Cap | Micro Cap |
| American Funds Trgt Date Rtrmt Series | 12/31/2017 | 32.46 | 15.86 | 4.35 | 95.65 | 61.36 | 30.12 | 7.95 | 0.49 | 0.08 |
| Fidelity Freedom Series | 01/31/2018 | 33.87 | 23.54 | 10.53 | 89.47 | 44.30 | 28.53 | 17.81 | 7.45 | 1.91 |
| Putnam Retirement Advantage | 12/31/2017 | 25.83 | 6.41 | 0.95 | 99.05 | 39.72 | 35.37 | 22.81 | 1.82 | 0.29 |
| State Street Target Retirement Series | 12/31/2017 | 32.01 | 18.49 | 6.23 | 93.77 | 43.94 | 32.21 | 17.46 | 4.83 | 1.57 |
| T. Rowe Price Retirement Series | 12/31/2017 | 37.79 | 20.48 | 6.56 | 93.44 | 42.09 | 31.55 | 20.30 | 4.30 | 1.77 |
| Vanguard Target Retirement Series | 01/31/2018 | 32.56 | 21.22 | 7.06 | 92.94 | 44.49 | 30.33 | 18.18 | 5.29 | 1.71 |
| Morningstar Target Date Cat Avg | 02/28/2018 | 28.14 | 14.60 | 6.17 | 93.83 | 39.88 | 30.83 | 20.21 | 7.00 | 2.08 |
| | | | | | | | | | | |
| 2030 | Date | US Equity | Non-US Equity | Emerging Market | Developed Country | Giant Cap | Large Cap | Medium Cap | Small Cap | Micro Cap |
| American Funds Trgt Date Rtrmt Series | 12/31/2017 | 43.48 | 25.29 | 7.14 | 92.86 | 56.88 | 29.39 | 11.04 | 2.22 | 0.48 |
| Fidelity Freedom Series | 01/31/2018 | 45.15 | 30.20 | 10.20 | 89.80 | 44.18 | 28.55 | 17.83 | 7.51 | 1.93 |
| Putnam Retirement Advantage | 12/31/2017 | 39.95 | 11.27 | 2.29 | 97.71 | 41.09 | 35.28 | 21.88 | 1.74 | 0.01 |
| State Street Target Retirement Series | 12/31/2017 | 43.38 | 26.51 | 6.78 | 93.22 | 46.13 | 30.62 | 15.88 | 5.39 | 1.98 |
| T. Rowe Price Retirement Series | 12/31/2017 | 47.25 | 26.48 | 6.86 | 93.14 | 41.29 | 32.49 | 20.26 | 4.25 | 1.71 |
| Vanguard Target Retirement Series | 01/31/2018 | 42.13 | 27.45 | 7.06 | 92.94 | 44.49 | 30.33 | 18.18 | 5.29 | 1.71 |
| Morningstar Target Date Cat Avg | 02/28/2018 | 37.78 | 20.60 | 6.37 | 93.63 | 39.74 | 30.70 | 20.09 | 7.25 | 2.22 |
| | | | | | | | | | | |

Regional Exposure (%)

Market Cap (%)

| 2040 | Date | US Equity | Non-US Equity | Emerging Market | Developed Country | Giant Cap | Large Cap | Medium Cap | Small Cap | Micro Cap |
|---------------------------------------|------------|--------------|------------------|--------------------|----------------------|--------------|--------------|---------------|--------------|--------------|
| American Funds Trgt Date Rtrmt Series | 12/31/2017 | 50.62 | 31.26 | 8.57 | 91.43 | 54.08 | 29.27 | 12.92 | 3.07 | 0.66 |
| Fidelity Freedom Series | 01/31/2018 | 53.06 | 35.03 | 10.10 | 89.90 | 44.15 | 28.55 | 17.83 | 7.53 | 1.94 |
| Putnam Retirement Advantage | 12/31/2017 | 43.23 | 19.07 | 6.82 | 93.18 | 40.85 | 35.27 | 21.79 | 2.08 | 0.01 |
| State Street Target Retirement Series | 12/31/2017 | 50.57 | 31.34 | 6.87 | 93.13 | 44.53 | 29.52 | 16.92 | 6.59 | 2.43 |
| T. Rowe Price Retirement Series | 12/31/2017 | 53.64 | 30.70 | 7.01 | 92.99 | 40.90 | 32.85 | 20.29 | 4.25 | 1.71 |
| Vanguard Target Retirement Series | 01/31/2018 | 51.13 | 33.17 | 7.04 | 92.96 | 44.48 | 30.33 | 18.18 | 5.29 | 1.71 |
| Morningstar Target Date Cat Avg | 02/28/2018 | 45.07 | 24.80 | 6.62 | 93.38 | 39.44 | 30.72 | 20.32 | 7.32 | 2.19 |

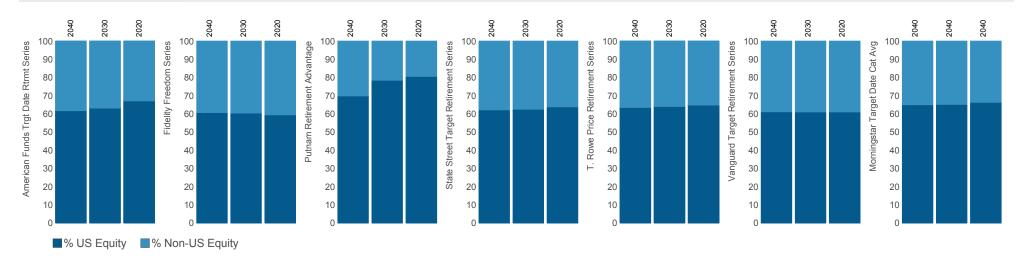
Morningstar Category peer universe is based off of the oldest share class.

Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

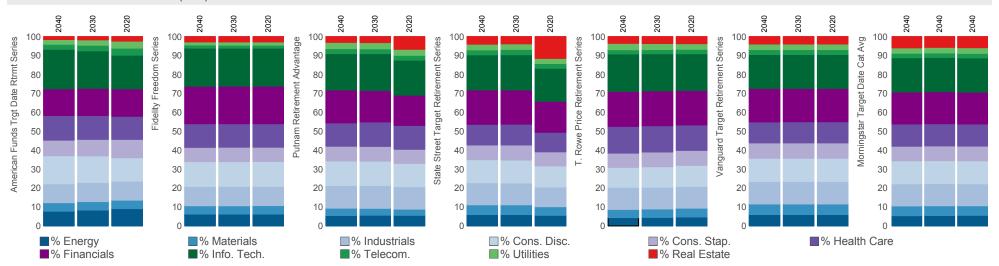
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Equity Allocation Breakdown (holdings-based)

EQUITY ALLOCATION BREAKDOWN



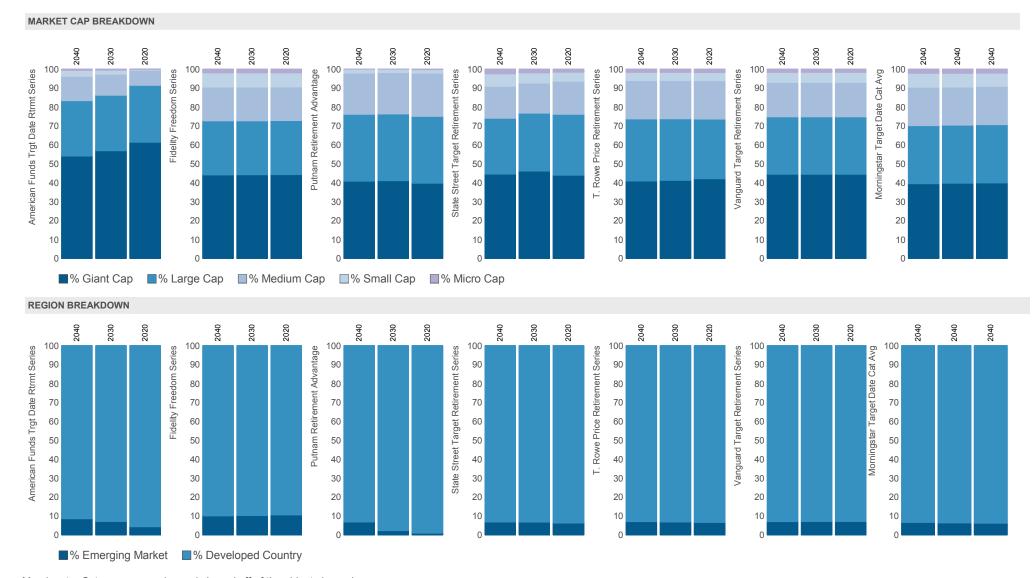
SECTOR ALLOCATION BREAKDOWN (GICS)



Morningstar Category peer universe is based off of the oldest share class. Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

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Equity Allocation Breakdown (holdings-based)



Morningstar Category peer universe is based off of the oldest share class.

Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

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Fixed Income Allocation Breakdown (holdings-based)

| | Holdings | Regio | nal (%) | | Sector (%) Credit Quality (%) | | | | | | | | | | |
|---------------------------------------|------------|-------|-----------------|-------|-------------------------------|-------|-------------|-------|-------|-------|-------|-------|-------|--------------------|--------------|
| 2020 | Date | | Non-US Bonds | Govt | Muni | Corp | Securitized | Cash | Other | AAA | AA | Α | BBB | Below Inv Grade | Not Rated |
| American Funds Trgt Date Rtrmt Series | 12/31/2017 | 37.03 | 6.36 | 49.50 | 0.30 | 20.00 | 14.87 | 15.34 | 0.00 | 71.57 | 3.33 | 8.43 | 8.04 | 8.62 | 0.00 |
| Fidelity Freedom Series | 01/31/2018 | 25.46 | 3.14 | 30.07 | 0.86 | 23.99 | 13.63 | 31.43 | 0.01 | 61.69 | 1.52 | 10.68 | 17.72 | 8.38 | 0.00 |
| Putnam Retirement Advantage | 12/31/2017 | 33.63 | 4.72 | 8.12 | 0.00 | 26.05 | 26.90 | 38.28 | 0.64 | | | | | | |
| State Street Target Retirement Series | 12/31/2017 | 43.56 | 3.02 | 54.04 | 0.28 | 24.89 | 15.16 | 5.62 | 0.01 | 72.15 | 2.22 | 6.04 | 6.92 | 12.66 | 0.00 |
| T. Rowe Price Retirement Series | 12/31/2017 | 28.81 | 9.42 | 42.58 | 0.57 | 28.99 | 26.11 | 1.75 | 0.01 | 51.02 | 3.60 | 9.03 | 17.07 | 19.28 | 0.00 |
| Vanguard Target Retirement Series | 01/31/2018 | 29.98 | 13.37 | 59.07 | 0.41 | 20.38 | 15.90 | 4.24 | 0.00 | 60.19 | 9.33 | 15.75 | 14.73 | 0.01 | 0.00 |
| Morningstar Target Date Cat Avg | 02/28/2018 | 32.20 | 5.67 | 40.10 | 0.42 | 26.29 | 16.52 | 14.91 | 1.77 | 59.24 | 4.95 | 10.42 | 14.46 | 11.03 | 0.45 |
| 2030 | Date | | Non-US Bonds | Govt | Muni | Corp | Securitized | Cash | Other | AAA | AA | Α | BBB | Below Inv Grade | Not Rated |
| American Funds Trgt Date Rtrmt Series | 12/31/2017 | 19.48 | 3.79 | 50.97 | 0.12 | 11.17 | 13.25 | 24.49 | 0.00 | 80.66 | 2.62 | 7.21 | 6.56 | 2.95 | 0.00 |
| Fidelity Freedom Series | 01/31/2018 | 15.63 | 2.05 | 34.32 | 0.85 | 26.00 | 13.34 | 25.46 | 0.03 | 62.52 | 1.06 | 8.67 | 15.92 | 11.85 | 0.00 |
| Putnam Retirement Advantage | 12/31/2017 | 20.84 | 4.03 | 3.27 | 0.00 | 24.05 | 24.89 | 47.28 | 0.51 | | | | | | |
| State Street Target Retirement Series | 12/31/2017 | 25.58 | 1.50 | 57.38 | 0.23 | 20.33 | 12.56 | 9.48 | 0.01 | 76.29 | 1.92 | 5.22 | 5.98 | 10.58 | 0.00 |
| T. Rowe Price Retirement Series | 12/31/2017 | 16.78 | 6.22 | 36.65 | 0.65 | 31.44 | 28.80 | 2.45 | 0.01 | 49.42 | 3.74 | 9.38 | 17.26 | 20.19 | 0.00 |
| Vanguard Target Retirement Series | 01/31/2018 | 18.45 | 9.49 | 54.56 | 0.45 | 22.30 | 17.39 | 5.30 | 0.00 | 56.09 | 10.28 | 17.37 | 16.26 | 0.01 | 0.00 |
| Morningstar Target Date Cat Avg | 02/28/2018 | 19.34 | 4.00 | 36.24 | 0.41 | 27.09 | 16.10 | 17.98 | 2.18 | 56.42 | 4.94 | 10.35 | 14.49 | 13.88 | 0.58 |
| | | | | | | | | | | l | | | | 5 | N. C |
| 2040 | Date | | Non-US Bonds | Govt | Muni | Corp | Securitized | Cash | Other | AAA | AA | Α | BBB | Below Inv Grade | Not Rated |
| American Funds Trgt Date Rtrmt Series | 12/31/2017 | 9.08 | 1.68 | 39.12 | 0.11 | 11.74 | 10.01 | 39.02 | 0.00 | 83.24 | 1.73 | 5.78 | 6.36 | 2.90 | 0.00 |
| Fidelity Freedom Series | 01/31/2018 | 4.69 | 0.85 | 28.25 | 0.07 | 22.09 | 2.19 | 47.32 | 0.08 | 58.94 | 0.55 | 2.80 | 5.26 | 32.44 | 0.00 |
| Putnam Retirement Advantage | 12/31/2017 | 13.98 | 3.04 | 3.15 | 0.00 | 24.23 | 18.67 | 53.52 | 0.44 | | | | | | |
| State Street Target Retirement Series | 12/31/2017 | 14.32 | 0.42 | 66.69 | 0.15 | 7.24 | 8.41 | 17.50 | 0.02 | 90.36 | 1.41 | 3.84 | 4.39 | 0.00 | 0.00 |
| T. Rowe Price Retirement Series | 12/31/2017 | 9.29 | 3.41 | 34.22 | 0.69 | 31.92 | 30.33 | 2.82 | 0.01 | 52.19 | 3.65 | 9.16 | 16.53 | 18.48 | 0.00 |
| Vanguard Target Retirement Series | 01/31/2018 | 9.06 | 4.59 | 52.68 | 0.44 | 21.74 | 16.88 | 8.27 | 0.00 | 56.27 | 10.19 | 17.30 | 16.23 | 0.01 | 0.00 |
| Morningstar Target Date Cat Avg | 02/28/2018 | 9.90 | 2.44 | 30.90 | 0.36 | 26.63 | 13.64 | 25.97 | 2.50 | 52.78 | 5.43 | 10.12 | 14.35 | 17.40 | 0.67 |

For more information on the calculation of Credit Quality, please see Important Information section.

Morningstar Category peer universe is based off of the oldest share class.

Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

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Fixed Income Allocation Breakdown (holdings-based)



Morningstar Category peer universe is based off of the oldest share class.

Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

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Fixed Income Allocation Breakdown (holdings-based)



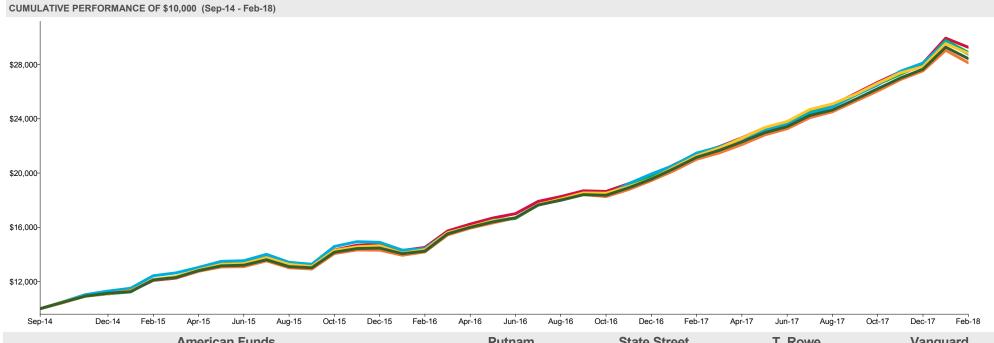
For more information on the calculation of Credit Quality, please see Important Information section.

Morningstar Category peer universe is based off of the oldest share class.

Allocations and holdings are subject to change. The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

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Investment of \$10,000 & Monthly Contribution of \$300



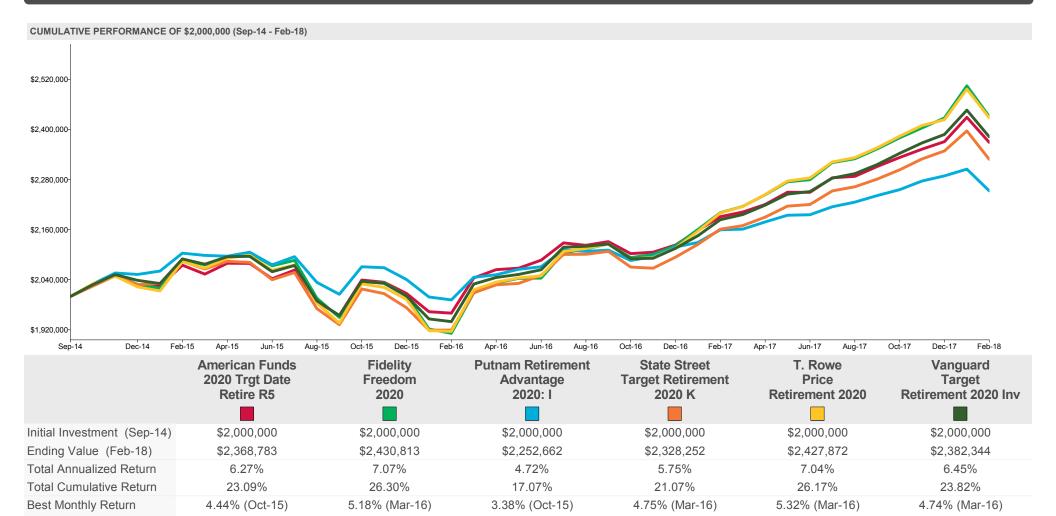
| | American Funds 2050 Trgt Date Retire R5 | Fidelity Freedom 2050 | Putnam Retirement Advantage 2050: I | State Street Target Retirement 2050 K | T. Rowe Price Retirement 2050 | Vanguard Target Retirement 2050 Inv |
|-----------------------------|---|--------------------------|---|---------------------------------------|-------------------------------|---|
| Initial Investment (Sep-14) | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 |
| Ending Value (Feb-18) | \$29,275 | \$28,903 | \$28,764 | \$28,130 | \$28,832 | \$28,443 |
| Total Annualized Return | 10.11% | 9.59% | 9.66% | 8.48% | 9.55% | 8.94% |
| Total Cumulative Return | 38.96% | 36.76% | 37.02% | 32.07% | 36.58% | 33.98% |
| Best Monthly Return | 6.64% (Oct-15) | 6.77% (Mar-16) | 7.64% (Oct-15) | 6.69% (Mar-16) | 6.80% (Oct-15) | 6.81% (Mar-16) |
| Worst Monthly Return | -5.63% (Aug-15) | -6.00% (Aug-15) | -6.40% (Aug-15) | -5.97% (Aug-15) | -5.89% (Jan-16) | -5.92% (Aug-15) |
| Max Drawdown Return | -9.47% | -12.01% | -11.76% | -11.11% | -11.11% | -11.19% |
| Max Drawdown Period | Jun-15 - Feb-16 (9) | Jun-15 - Feb-16 (9) | Jun-15 - Feb-16 (9) | Jun-15 - Feb-16 (9) | Jun-15 - Feb-16 (9) | Jun-15 - Feb-16 (9) |
| Recovery Period | Mar-16 - Jul-16 (5) | Mar-16 - Aug-16 (6) | Mar-16 - Nov-16 (9) | Mar-16 - Jul-16 (5) | Mar-16 - Aug-16 (6) | Mar-16 - Jul-16 (5) |

This chart represents historical performance and does not assume the effects of sales charges. If shown with sales charges, performance would have been lower.

Values for strategies will only be shown here if the strategy has a product associated with the selected Morningstar Category of Target Date 2050

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Investment of \$2,000,000 & Monthly Withdrawal of \$2,000



This chart represents historical performance and does not assume the effects of sales charges. If shown with sales charges, performance would have been lower. Values for strategies will only be shown here if the strategy has a product associated with the selected Morningstar Category of Target Date 2020

-4.24% (Aug-15)

-8.37%

Jun-15 - Feb-16 (9)

Mar-16 - Jul-16 (5)

Worst Monthly Return

Max Drawdown Return

Max Drawdown Period

Recovery Period

-3.54% (Aug-15)

-5.62%

Jun-15 - Sep-15 (4)

Oct-15 - Apr-16 (7)

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-3.98% (Aug-15)

-6.62%

Jun-15 - Feb-16 (9)

Mar-16 - Jul-16 (5)

-2.85% (Aug-15)

-4.57%

Jun-15 - Feb-16 (9)

Mar-16 - Jul-16 (5)

-4.11% (Aug-15)

-7.07%

May-15 - Jan-16 (9)

Feb-16 - Jul-16 (6)

-4.30% (Aug-15)

-7.87%

Jun-15 - Jan-16 (8)

Feb-16 - Jul-16 (6)

Performance as of the Most Recent Quarter End

As of Dec 31, 2017

| American Funds Trgt Date Rtrmt \$ | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | | |
|---|--|--|---|---|--|---|---|---|---|-------------------|----------|---------|--|
| 1 Year | 22.54 | 22.52 | 22.56 | 22.29 | 21.92 | 21.06 | 18.34 | 15.22 | 12.86 | 11.17 | 10.31 | | |
| 3 Years | | 10.09 | 10.11 | 10.00 | 9.84 | 9.50 | 8.58 | 7.36 | 6.54 | 5.88 | 5.49 | | |
| 5 Years | | 12.54 | 12.57 | 12.51 | 12.37 | 12.09 | 11.44 | 10.30 | 8.88 | 7.92 | 7.10 | | |
| 10 Years | | | 7.08 | 7.05 | 7.00 | 6.85 | 6.60 | 5.96 | 5.28 | 5.05 | 4.79 | | |
| Since Inception | 10.11 | 11.61 | 7.35 | 7.33 | 7.27 | 7.14 | 6.89 | 6.29 | 5.64 | 5.36 | 5.06 | | |
| Inception Date | 3/27/15 | 2/1/10 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Fidelity Freedom Series | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | 2005 | Income |
| 1 Year | 22.10 | 22.31 | 22.28 | 22.21 | 22.25 | 22.00 | 19.82 | 16.82 | 15.64 | 14.28 | 12.48 | 10.47 | 8.21 |
| 3 Years | 9.79 | 9.84 | 9.84 | 9.83 | 9.84 | 9.77 | 8.96 | 7.82 | 7.36 | 6.83 | 6.08 | 5.26 | 4.27 |
| 5 Years | | 11.45 | 11.30 | 11.25 | 11.14 | 11.04 | 10.06 | 9.06 | 8.09 | 7.48 | 6.81 | 5.65 | 4.25 |
| 10 Years | | | 5.31 | 5.53 | 5.52 | 5.59 | 5.24 | 5.25 | 4.86 | 4.93 | 4.77 | 3.99 | 3.91 |
| Since Inception | 9.51 | 9.17 | 6.20 | 6.36 | 4.29 | 7.26 | 7.16 | 6.74 | 6.96 | 6.12 | 6.63 | 5.08 | 4.90 |
| Inception Date | 8/5/14 | 6/1/11 | 6/1/06 | 6/1/06 | 9/6/00 | 11/6/03 | 10/17/96 | 11/6/03 | 10/17/96 | 11/6/03 | 10/17/96 | 11/6/03 | 10/17/96 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Putnam Retirement Advantage | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | | | | Income |
| 1 Year | 2060 21.96 | 21.86 | 21.21 | 20.50 | 19.72 | 18.56 | 16.12 | 12.83 | 9.24 | | | | 9.26 |
| 1 Year 3 Years | | 21.86 9.78 | 21.21 9.57 | 20.50 9.32 | 19.72 9.07 | 18.56 8.66 | 16.12 7.74 | 12.83 6.56 | 9.24 4.88 | | | | 9.26 5.33 |
| 1 Year 3 Years 5 Years | 21.96 | 21.86 9.78 13.67 | 21.21 9.57 13.42 | 20.50 9.32 12.98 | 19.72 9.07 12.50 | 18.56 8.66 11.89 | 16.12 7.74 10.91 | 12.83 6.56 9.55 | 9.24 4.88 7.42 | | | | 9.26 5.33 6.74 |
| 1 Year 3 Years 5 Years 10 Years | 21.96 | 21.86 9.78 13.67 | 21.21 9.57 13.42 7.05 | 20.50 9.32 12.98 6.83 | 19.72 9.07 12.50 6.71 | 18.56 8.66 11.89 6.60 | 16.12 7.74 10.91 6.23 | 12.83 6.56 9.55 5.87 | 9.24 4.88 7.42 5.26 | | | | 9.26 5.33 6.74 5.32 |
| 1 Year 3 Years 5 Years 10 Years Since Inception | 21.96 23.16 | 21.86 9.78 13.67 11.48 | 21.21 9.57 13.42 7.05 7.05 | 20.50 9.32 12.98 6.83 6.83 | 19.72 9.07 12.50 6.71 6.71 | 18.56 8.66 11.89 6.60 6.60 | 16.12 7.74 10.91 6.23 6.24 | 12.83 6.56 9.55 5.87 5.87 | 9.24 4.88 7.42 5.26 5.26 | | | | 9.26 5.33 6.74 5.32 5.32 |
| 1 Year 3 Years 5 Years 10 Years | 21.96 | 21.86 9.78 13.67 | 21.21 9.57 13.42 7.05 | 20.50 9.32 12.98 6.83 | 19.72 9.07 12.50 6.71 | 18.56 8.66 11.89 6.60 | 16.12 7.74 10.91 6.23 | 12.83 6.56 9.55 5.87 | 9.24 4.88 7.42 5.26 | | | | 9.26 5.33 6.74 5.32 |
| 1 Year 3 Years 5 Years 10 Years Since Inception | 21.96 23.16 | 21.86 9.78 13.67 11.48 | 21.21 9.57 13.42 7.05 7.05 | 20.50 9.32 12.98 6.83 6.83 | 19.72 9.07 12.50 6.71 6.71 | 18.56 8.66 11.89 6.60 6.60 | 16.12 7.74 10.91 6.23 6.24 | 12.83 6.56 9.55 5.87 5.87 | 9.24 4.88 7.42 5.26 5.26 | | | | 9.26 5.33 6.74 5.32 5.32 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date | 21.96 23.16 2/9/16 | 21.86 9.78 13.67 11.48 12/21/10 | 21.21 9.57 13.42 7.05 7.05 1/2/08 | 20.50 9.32 12.98 6.83 6.83 1/2/08 | 19.72 9.07 12.50 6.71 6.71 1/2/08 | 18.56 8.66 11.89 6.60 6.60 1/2/08 | 16.12 7.74 10.91 6.23 6.24 1/2/08 | 12.83 6.56 9.55 5.87 5.87 1/2/08 | 9.24 4.88 7.42 5.26 5.26 1/2/08 | 2015 | | | 9.26 5.33 6.74 5.32 5.32 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se | 21.96 23.16 2/9/16 | 21.86 9.78 13.67 11.48 12/21/10 | 21.21 9.57 13.42 7.05 7.05 1/2/08 | 20.50 9.32 12.98 6.83 6.83 1/2/08 | 19.72 9.07 12.50 6.71 6.71 1/2/08 | 18.56 8.66 11.89 6.60 6.60 1/2/08 | 16.12 7.74 10.91 6.23 6.24 1/2/08 | 12.83 6.56 9.55 5.87 5.87 1/2/08 | 9.24 4.88 7.42 5.26 5.26 1/2/08 | 2015 | | | 9.26 5.33 6.74 5.32 5.32 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se 1 Year | 21.96 23.16 2/9/16 2060 21.57 | 21.86 9.78 13.67 11.48 12/21/10 2055 21.53 | 21.21 9.57 13.42 7.05 7.05 1/2/08 2050 21.42 | 20.50 9.32 12.98 6.83 6.83 1/2/08 2045 21.45 | 19.72 9.07 12.50 6.71 6.71 1/2/08 2040 20.69 | 18.56 8.66 11.89 6.60 6.60 1/2/08 2035 19.73 | 16.12 7.74 10.91 6.23 6.24 1/2/08 2030 18.35 | 12.83 6.56 9.55 5.87 5.87 1/2/08 | 9.24 4.88 7.42 5.26 5.26 1/2/08 2020 13.38 | 10.39 | | | 9.26 5.33 6.74 5.32 5.32 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se 1 Year 3 Years | 21.96 23.16 2/9/16 | 21.86 9.78 13.67 11.48 12/21/10 | 21.21 9.57 13.42 7.05 7.05 1/2/08 | 20.50 9.32 12.98 6.83 6.83 1/2/08 | 19.72 9.07 12.50 6.71 6.71 1/2/08 | 18.56 8.66 11.89 6.60 6.60 1/2/08 | 16.12 7.74 10.91 6.23 6.24 1/2/08 | 12.83 6.56 9.55 5.87 5.87 1/2/08 | 9.24 4.88 7.42 5.26 5.26 1/2/08 | | | | 9.26 5.33 6.74 5.32 5.32 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se 1 Year 3 Years 5 Years | 21.96 23.16 2/9/16 2060 21.57 8.89 | 21.86 9.78 13.67 11.48 12/21/10 2055 21.53 8.92 | 21.21 9.57 13.42 7.05 7.05 1/2/08 2050 21.42 8.91 | 20.50 9.32 12.98 6.83 6.83 1/2/08 2045 21.45 9.02 | 19.72 9.07 12.50 6.71 6.71 1/2/08 2040 20.69 8.75 | 18.56 8.66 11.89 6.60 6.60 1/2/08 2035 19.73 8.46 | 16.12 7.74 10.91 6.23 6.24 1/2/08 2030 18.35 7.93 | 12.83 6.56 9.55 5.87 5.87 1/2/08 2025 16.52 7.33 | 9.24 4.88 7.42 5.26 5.26 1/2/08 2020 13.38 6.23 | 10.39 5.16 | | | 9.26 5.33 6.74 5.32 5.32 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se 1 Year 3 Years 5 Years 10 Years | 21.96 23.16 2/9/16 2060 21.57 8.89 | 21.86 9.78 13.67 11.48 12/21/10 2055 21.53 8.92 | 21.21 9.57 13.42 7.05 7.05 1/2/08 2050 21.42 8.91 | 20.50 9.32 12.98 6.83 6.83 1/2/08 2045 21.45 9.02 | 19.72 9.07 12.50 6.71 6.71 1/2/08 2040 20.69 8.75 | 18.56 8.66 11.89 6.60 6.60 1/2/08 2035 19.73 8.46 | 16.12 7.74 10.91 6.23 6.24 1/2/08 2030 18.35 7.93 | 12.83 6.56 9.55 5.87 5.87 1/2/08 2025 16.52 7.33 | 9.24 4.88 7.42 5.26 5.26 1/2/08 2020 13.38 6.23 | 10.39 5.16 | | | 9.26 5.33 6.74 5.32 5.32 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se 1 Year 3 Years 5 Years | 21.96 23.16 2/9/16 2060 21.57 8.89 | 21.86 9.78 13.67 11.48 12/21/10 2055 21.53 8.92 | 21.21 9.57 13.42 7.05 7.05 1/2/08 2050 21.42 8.91 | 20.50 9.32 12.98 6.83 6.83 1/2/08 2045 21.45 9.02 | 19.72 9.07 12.50 6.71 6.71 1/2/08 2040 20.69 8.75 | 18.56 8.66 11.89 6.60 6.60 1/2/08 2035 19.73 8.46 | 16.12 7.74 10.91 6.23 6.24 1/2/08 2030 18.35 7.93 | 12.83 6.56 9.55 5.87 5.87 1/2/08 2025 16.52 7.33 | 9.24 4.88 7.42 5.26 5.26 1/2/08 2020 13.38 6.23 | 10.39 5.16 | | | 9.26 5.33 6.74 5.32 5.32 1/2/08 |

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Performance as of the Most Recent Quarter End

As of Dec 31, 2017

| T. Rowe Price Retirement Series | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | 2005 | |
|----------------------------------|---------|----------|----------|----------|---------|----------|---------|----------|---------|----------|---------|---------|----------|
| 1 Year | 22.29 | 22.33 | 22.38 | 22.41 | 22.02 | 20.88 | 19.45 | 17.68 | 15.74 | 13.34 | 11.66 | 10.67 | |
| 3 Years | 9.68 | 9.70 | 9.71 | 9.71 | 9.57 | 9.22 | 8.75 | 8.11 | 7.41 | 6.54 | 5.88 | 5.44 | |
| 5 Years | | 12.02 | 12.04 | 12.03 | 11.96 | 11.53 | 10.92 | 10.06 | 9.09 | 7.97 | 6.88 | 6.14 | |
| 10 Years | | 7.08 | 7.10 | 7.10 | 7.06 | 6.83 | 6.63 | 6.34 | 6.04 | 5.67 | 5.24 | 5.09 | |
| Since Inception | 8.27 | 7.06 | 7.07 | 8.21 | 9.97 | 7.90 | 9.67 | 7.43 | 8.85 | 6.67 | 7.72 | 5.90 | |
| Inception Date | 6/23/14 | 12/29/06 | 12/29/06 | 5/31/05 | 9/30/02 | 2/27/04 | 9/30/02 | 2/27/04 | 9/30/02 | 2/27/04 | 9/30/02 | 2/27/04 | |
| Vanguard Target Retirement Serie | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | | | Income |
| 1 Year | 21.36 | 21.38 | 21.39 | 21.42 | 20.71 | 19.12 | 17.52 | 15.94 | 14.08 | 11.50 | | | 8.47 |
| 3 Years | 9.10 | 9.11 | 9.16 | 9.17 | 8.91 | 8.39 | 7.85 | 7.31 | 6.61 | 5.62 | | | 4.46 |
| 5 Years | 11.59 | 11.60 | 11.63 | 11.64 | 11.47 | 10.90 | 10.13 | 9.36 | 8.50 | 7.25 | | | 4.95 |
| 10 Years | | | 6.56 | 6.56 | 6.49 | 6.18 | 5.92 | 5.79 | 5.61 | 5.23 | | | 4.91 |
| Since Inception | 11.54 | 11.62 | 7.50 | 8.21 | 7.39 | 7.72 | 6.93 | 7.04 | 6.53 | 6.35 | | | 5.38 |
| Inception Date | 1/19/12 | 8/18/10 | 6/7/06 | 10/27/03 | 6/7/06 | 10/27/03 | 6/7/06 | 10/27/03 | 6/7/06 | 10/27/03 | | | 10/27/03 |

Performance as of the Most Recent Month End

As of Feb 28, 2018

| American Funds Trgt Date Rtrmt \$ | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | | |
|---|--|--|---|--|---|---|--|--|---|---------------------|----------|---------|--|
| 1 Year | 18.56 | 18.60 | 18.63 | 18.37 | 17.93 | 17.00 | 14.37 | 11.63 | 9.25 | 7.60 | 6.77 | | |
| 3 Years | | 9.62 | 9.63 | 9.51 | 9.28 | 8.90 | 7.84 | 6.65 | 5.69 | 5.03 | 4.63 | | |
| 5 Years | | 11.97 | 12.00 | 11.92 | 11.77 | 11.43 | 10.70 | 9.51 | 8.17 | 7.23 | 6.47 | | |
| 10 Years | | | 8.06 | 8.02 | 7.95 | 7.79 | 7.47 | 6.76 | 5.96 | 5.56 | 5.27 | | |
| Since Inception | 10.28 | 11.65 | 7.44 | 7.41 | 7.34 | 7.19 | 6.89 | 6.26 | 5.56 | 5.25 | 4.95 | | |
| Inception Date | 3/27/15 | 2/1/10 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | 2/1/07 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Fidelity Freedom Series | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | 2005 | Income |
| 1 Year | 17.37 | 17.48 | 17.36 | 17.47 | 17.34 | 17.16 | 15.13 | 12.65 | 11.60 | 10.41 | 8.78 | 7.21 | 5.30 |
| 3 Years | 8.82 | 8.86 | 8.83 | 8.85 | 8.83 | 8.77 | 7.92 | 6.82 | 6.39 | 5.88 | 5.13 | 4.39 | 3.49 |
| 5 Years | | 10.81 | 10.68 | 10.65 | 10.57 | 10.45 | 9.50 | 8.48 | 7.59 | 7.01 | 6.29 | 5.24 | 3.91 |
| 10 Years | | | 6.44 | 6.61 | 6.58 | 6.62 | 6.20 | 6.04 | 5.57 | 5.48 | 5.19 | 4.41 | 3.95 |
| Since Inception | 9.43 | 9.13 | 6.22 | 6.39 | 4.31 | 7.26 | 7.14 | 6.70 | 6.92 | 6.06 | 6.57 | 5.01 | 4.84 |
| Inception Date | 8/5/14 | 6/1/11 | 6/1/06 | 6/1/06 | 9/6/00 | 11/6/03 | 10/17/96 | 11/6/03 | 10/17/96 | 11/6/03 | 10/17/96 | 11/6/03 | 10/17/96 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Putnam Retirement Advantage | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | | | | Income |
| Putnam Retirement Advantage 1 Year | 2060 16.78 | 2055 16.62 | 2050 16.06 | 2045 15.33 | 2040 14.66 | 2035 13.50 | 2030 11.22 | 2025 8.38 | 2020 5.43 | | | | Income 5.30 |
| • | | | | | | | | | | | | | |
| 1 Year | 16.78 | 16.62 | 16.06 | 15.33 | 14.66 | 13.50 | 11.22 | 8.38 | 5.43 | | | | 5.30 |
| 1 Year 3 Years | 16.78 | 16.62 8.25 | 16.06 8.02 | 15.33 7.81 | 14.66 7.60 | 13.50 7.16 | 11.22 6.25 | 8.38 5.01 | 5.43 3.47 | | | | 5.30 4.12 |
| 1 Year 3 Years 5 Years | 16.78 | 16.62 8.25 12.39 | 16.06 8.02 12.13 | 15.33 7.81 11.74 | 14.66 7.60 11.31 | 13.50 7.16 10.75 | 11.22 6.25 9.77 | 8.38 5.01 8.48 | 5.43 3.47 6.48 | | | | 5.30 4.12 5.97 |
| 1 Year 3 Years 5 Years 10 Years | 16.78 | 16.62 8.25 12.39 | 16.06 8.02 12.13 7.84 | 15.33 7.81 11.74 7.59 | 14.66 7.60 11.31 7.41 | 13.50 7.16 10.75 7.23 | 11.22 6.25 9.77 6.78 | 8.38 5.01 8.48 6.30 | 5.43 3.47 6.48 5.56 | | | | 5.30 4.12 5.97 5.38 |
| 1 Year 3 Years 5 Years 10 Years Since Inception | 16.78 21.39 | 16.62 8.25 12.39 11.26 | 16.06 8.02 12.13 7.84 6.96 | 15.33 7.81 11.74 7.59 6.74 | 14.66 7.60 11.31 7.41 6.60 | 13.50 7.16 10.75 7.23 6.46 | 11.22 6.25 9.77 6.78 6.07 | 8.38 5.01 8.48 6.30 5.66 | 5.43 3.47 6.48 5.56 5.03 | | | | 5.30 4.12 5.97 5.38 5.11 |
| 1 Year 3 Years 5 Years 10 Years Since Inception | 16.78 21.39 | 16.62 8.25 12.39 11.26 | 16.06 8.02 12.13 7.84 6.96 | 15.33 7.81 11.74 7.59 6.74 | 14.66 7.60 11.31 7.41 6.60 | 13.50 7.16 10.75 7.23 6.46 | 11.22 6.25 9.77 6.78 6.07 | 8.38 5.01 8.48 6.30 5.66 | 5.43 3.47 6.48 5.56 5.03 | | | | 5.30 4.12 5.97 5.38 5.11 |
| 1 Year 3 Years 5 Years 10 Years Since Inception | 16.78 21.39 | 16.62 8.25 12.39 11.26 | 16.06 8.02 12.13 7.84 6.96 | 15.33 7.81 11.74 7.59 6.74 | 14.66 7.60 11.31 7.41 6.60 | 13.50 7.16 10.75 7.23 6.46 | 11.22 6.25 9.77 6.78 6.07 | 8.38 5.01 8.48 6.30 5.66 | 5.43 3.47 6.48 5.56 5.03 | 2015 | | | 5.30 4.12 5.97 5.38 5.11 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date | 16.78 21.39 2/9/16 | 16.62 8.25 12.39 11.26 12/21/10 | 16.06 8.02 12.13 7.84 6.96 1/2/08 | 15.33 7.81 11.74 7.59 6.74 1/2/08 | 14.66 7.60 11.31 7.41 6.60 1/2/08 | 13.50 7.16 10.75 7.23 6.46 1/2/08 | 11.22 6.25 9.77 6.78 6.07 1/2/08 | 8.38 5.01 8.48 6.30 5.66 1/2/08 | 5.43 3.47 6.48 5.56 5.03 1/2/08 | 2015 6.42 | | | 5.30 4.12 5.97 5.38 5.11 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se | 16.78 21.39 2/9/16 | 16.62 8.25 12.39 11.26 12/21/10 | 16.06 8.02 12.13 7.84 6.96 1/2/08 | 15.33 7.81 11.74 7.59 6.74 1/2/08 | 14.66 7.60 11.31 7.41 6.60 1/2/08 | 13.50 7.16 10.75 7.23 6.46 1/2/08 | 11.22 6.25 9.77 6.78 6.07 1/2/08 | 8.38 5.01 8.48 6.30 5.66 1/2/08 | 5.43 3.47 6.48 5.56 5.03 1/2/08 | | | | 5.30 4.12 5.97 5.38 5.11 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se 1 Year | 16.78 21.39 2/9/16 2060 15.72 | 16.62 8.25 12.39 11.26 12/21/10 2055 15.88 | 16.06 8.02 12.13 7.84 6.96 1/2/08 | 15.33 7.81 11.74 7.59 6.74 1/2/08 | 14.66 7.60 11.31 7.41 6.60 1/2/08 | 13.50 7.16 10.75 7.23 6.46 1/2/08 2035 14.18 | 11.22 6.25 9.77 6.78 6.07 1/2/08 | 8.38 5.01 8.48 6.30 5.66 1/2/08 | 5.43 3.47 6.48 5.56 5.03 1/2/08 2020 8.87 | 6.42 | | | 5.30 4.12 5.97 5.38 5.11 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se 1 Year 3 Years | 16.78 21.39 2/9/16 2060 15.72 7.68 | 16.62 8.25 12.39 11.26 12/21/10 2055 15.88 7.78 | 16.06 8.02 12.13 7.84 6.96 1/2/08 2050 15.71 7.71 | 15.33 7.81 11.74 7.59 6.74 1/2/08 2045 15.85 7.79 | 14.66 7.60 11.31 7.41 6.60 1/2/08 2040 15.06 7.42 | 13.50 7.16 10.75 7.23 6.46 1/2/08 2035 14.18 7.15 | 11.22 6.25 9.77 6.78 6.07 1/2/08 2030 12.95 6.64 | 8.38 5.01 8.48 6.30 5.66 1/2/08 2025 11.50 6.03 | 5.43 3.47 6.48 5.56 5.03 1/2/08 2020 8.87 4.95 | 6.42 3.95 | | | 5.30 4.12 5.97 5.38 5.11 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se 1 Year 3 Years 5 Years | 16.78 21.39 2/9/16 2060 15.72 7.68 | 16.62 8.25 12.39 11.26 12/21/10 2055 15.88 7.78 | 16.06 8.02 12.13 7.84 6.96 1/2/08 2050 15.71 7.71 | 15.33 7.81 11.74 7.59 6.74 1/2/08 2045 15.85 7.79 | 14.66 7.60 11.31 7.41 6.60 1/2/08 2040 15.06 7.42 | 13.50 7.16 10.75 7.23 6.46 1/2/08 2035 14.18 7.15 | 11.22 6.25 9.77 6.78 6.07 1/2/08 2030 12.95 6.64 | 8.38 5.01 8.48 6.30 5.66 1/2/08 2025 11.50 6.03 | 5.43 3.47 6.48 5.56 5.03 1/2/08 2020 8.87 4.95 | 6.42 3.95 | | | 5.30 4.12 5.97 5.38 5.11 1/2/08 |
| 1 Year 3 Years 5 Years 10 Years Since Inception Inception Date State Street Target Retirement Se 1 Year 3 Years 5 Years 10 Years | 16.78 21.39 2/9/16 2060 15.72 7.68 | 16.62 8.25 12.39 11.26 12/21/10 2055 15.88 7.78 | 16.06 8.02 12.13 7.84 6.96 1/2/08 2050 15.71 7.71 | 15.33 7.81 11.74 7.59 6.74 1/2/08 2045 15.85 7.79 | 14.66 7.60 11.31 7.41 6.60 1/2/08 2040 15.06 7.42 | 13.50 7.16 10.75 7.23 6.46 1/2/08 2035 14.18 7.15 | 11.22 6.25 9.77 6.78 6.07 1/2/08 2030 12.95 6.64 | 8.38 5.01 8.48 6.30 5.66 1/2/08 2025 11.50 6.03 | 5.43 3.47 6.48 5.56 5.03 1/2/08 2020 8.87 4.95 | 6.42 3.95 | | | 5.30 4.12 5.97 5.38 5.11 1/2/08 Income 5.21 3.42 |

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Performance as of the Most Recent Month End

As of Feb 28, 2018

| T. Rowe Price Retirement Series | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | 2010 | 2005 | |
|----------------------------------|---------|----------|----------|----------|---------|----------|---------|----------|---------|----------|---------|---------|----------|
| 1 Year | 17.51 | 17.45 | 17.49 | 17.50 | 16.99 | 16.02 | 14.80 | 13.16 | 11.50 | 9.48 | 7.99 | 7.18 | |
| 3 Years | 8.74 | 8.74 | 8.76 | 8.75 | 8.55 | 8.19 | 7.74 | 7.10 | 6.42 | 5.60 | 4.98 | 4.56 | |
| 5 Years | | 11.34 | 11.35 | 11.36 | 11.24 | 10.80 | 10.19 | 9.36 | 8.42 | 7.33 | 6.30 | 5.61 | |
| 10 Years | | 8.17 | 8.17 | 8.18 | 8.12 | 7.88 | 7.63 | 7.25 | 6.85 | 6.34 | 5.79 | 5.51 | |
| Since Inception | 8.33 | 7.08 | 7.10 | 8.23 | 9.95 | 7.89 | 9.63 | 7.39 | 8.78 | 6.60 | 7.62 | 5.81 | |
| Inception Date | 6/23/14 | 12/29/06 | 12/29/06 | 5/31/05 | 9/30/02 | 2/27/04 | 9/30/02 | 2/27/04 | 9/30/02 | 2/27/04 | 9/30/02 | 2/27/04 | |
| Vanguard Target Retirement Serie | 2060 | 2055 | 2050 | 2045 | 2040 | 2035 | 2030 | 2025 | 2020 | 2015 | | | Income |
| 1 Year | 16.30 | 16.31 | 16.30 | 16.26 | 15.71 | 14.36 | 13.04 | 11.70 | 10.22 | 8.01 | | | 5.69 |
| 3 Years | 8.14 | 8.13 | 8.18 | 8.19 | 7.91 | 7.38 | 6.85 | 6.31 | 5.64 | 4.67 | | | 3.64 |
| 5 Years | 10.71 | 10.70 | 10.73 | 10.73 | 10.56 | 9.99 | 9.28 | 8.57 | 7.77 | 6.58 | | | 4.54 |
| 10 Years | | | 7.49 | 7.49 | 7.41 | 7.08 | 6.76 | 6.51 | 6.24 | 5.73 | | | 4.93 |
| Since Inception | 11.35 | 11.46 | 7.46 | 8.17 | 7.34 | 7.66 | 6.86 | 6.96 | 6.43 | 6.26 | | | 5.28 |
| Inception Date | 1/19/12 | 8/18/10 | 6/7/06 | 10/27/03 | 6/7/06 | 10/27/03 | 6/7/06 | 10/27/03 | 6/7/06 | 10/27/03 | | | 10/27/03 |

Important Information

Note on Data: All information was sourced through the Morningstar database, and all data was analyzed through MPI Stylus Software. Morningstar is an unaffiliated third-party data provider. Information contained herein is based upon sources we consider to be reliable. Risk/return statistics are calculated using monthly data and are net of fees. All calculated statistics are as of February 28, 2018. Specific Target-Date Fund Strategy level holding and other information, provided by Morningstar, is as of the following dates: American Funds Trgt Date Rtrmt Series: 12/31/2017, Fidelity Freedom Series: 01/31/2018, Putnam Retirement Advantage: 12/31/2017, State Street Target Retirement Series: 12/31/2017, T. Rowe Price Retirement Series: 12/31/2018.

Beta: Beta is defined as a Manager's sensitivity to market movements and is used to evaluate market related, or systematic risk. Beta is a measure of the linear relationship, over time, of the Manager's returns and those of the Benchmark. Beta is computed by regressing the Manager's excess returns over the risk free rate (cash proxy) against the excess returns of the Benchmark over the risk free rate. An investment that is as equally volatile as the market will have a Beta of 1.0; an investment half as volatile as the market will have a Beta of 0.5; and so on. Thus, Betas higher than 1.0 indicate that the fund is more volatile than the market.

Broad Asset Class Breakdown: Broad Asset Class Breakdown is based on underlying holdings classified by Morningstar into four general investment groups. They are calculated using long-only rescaled position holdings, as of the portfolio holdings date indicated. In a rare instance, the portfolio date across vintage years within may differ.

- **% Equities:** Equities include only common stocks (U.S. and Non-U.S. Equities).
- % Bonds: Bonds include everything from government notes to high-yield corporate bonds (U.S. and Non-U.S. Bonds).
- **% Cash:** Cash encompasses both actual cash and cash equivalents (fixed-income securities with a maturity of one year or less) held by the portfolio plus receivables minus payables.
- **% Other:** Other includes preferred stocks (equity securities that pay dividends at a specific rate) as well as convertible bonds and convertible preferreds, which are corporate securities that are exchangeable for a set amount of another form of security (usually common shares) at a pre-stated price. Other also denotes all those not-so-neatly categorized securities, such as warrants and options.

Credit Quality: Credit quality is calculated using the highest rating assigned by a nationally recognized statistical rating organization (NRSRO) such as Moody's, S&P, or Fitch. The Not Rated category consists of securities that have not been rated by an NRSRO. Credit ratings are subject to change. Morningstar's database ranges from AAA (highest) to B (lowest). U.S. Government bonds carry the highest credit rating, while bonds issued by speculative companies usually carry the lowest credit ratings. For taxable bonds, anything at or below BB is considered a high-yield or junk bond. For the purpose of Morningstar's calculations, U.S. government bonds are considered AAA. Nonrated municipal bonds generally are classified as BBB. Other nonrated bonds generally are considered B.

Down Market Average Return: Average monthly return over the time period analyzed in which the market (benchmark) earned a negative return.

Down Market (Mkt) Capture Ratio: Down Market Capture Ratio is a measure of an investment's performance in down markets relative to the market itself. A down market is one in which the market's return is less than zero. The lower the investment's Down Market Capture Ratio, the better the investment protected capital during a market decline. A negative Down Market Capture Ratio indicates that an investment's returns rose while the market declined.

Equity Sector Allocations: The percentage a manager has allocated to specific GICS classified economic sectors. Sectors are based on what companies actually do. That is, unlike some standard sector classification systems, sectors aren't based on expected behavior of the stocks of these companies. This is calculated for all stock portfolios based on the securities in the most recent portfolio. For domestic-stock portfolios, this statistic shows the percentage of the domestic stock assets invested in each of the 11 GICS sector classifications.

Excess: Denotes that a statistic is being measured relative to the Market Index selected. The data set analyzed consists of the periodic differences between the investment's measure and the selected Market Index's definition.

Important Information

Fixed Income Super Sector Allocations: The fixed-income securities and fixed-income derivative exposures within a portfolio are rolled up into one of the following super sectors.

- **% Government:** This Super Sector includes all conventional debt issued by governments, bonds issued by a Central Bank or Treasury, and bonds issued by local governments, cantons, regions and provinces.
- %Municipal: The Municipal Super Sector includes taxable and tax-exempt debt obligations issued under the auspices of states, cities, counties, provinces, and other non-federal government entities.
- **Corporate:** This Super Sector includes bank loans, convertible bonds, conventional debt securities issued by corporations, and preferred stock.
- **Securitized:** The Securitized Super Sector includes all type s of mortgage-backed securities, covered bonds and asset-backed securities.
- **%Cash:** This Super Sector includes cash in the bank, certificates of deposit, currency, and money market holdings. Cash can also be any fixed-income securities that mature in less than 12 months. This Super Sector also includes commercial paper and any repurchase agreements held by the fund.
- **%Other:** The Derivatives Super Sector includes the common types of fixed-income derivative contracts: futures and forwards, options and swaps. For display purposes products may elect to identify this sector as Other.

Information Ratio: The Information Ratio is a measure of value added by an investment manager. It is the ratio of (annualized) excess return above the selected Market Index to (annualized) Tracking Error. Excess return is calculated by linking the difference of the manager's return for each period minus the selected Market Index return for each period, then annualizing the result.

Market Cap: Morningstar separates stock portfolio holdings into five market-capitalization groups: Giant, Large, Mid, Small, and Micro. Of the 5000 largest domestic stocks in the equities database, the top 1% are categorized as Giant, the next 4% are Large, the next 15% are Mid, the next 30% are Small, and the remaining 50% are Micro. Stocks outside of the largest 5000 are also classified as Micro.

Max Drawdown: Is the maximum loss incurred by a portfolio during a specified time period. It is used to measure the 'worst case scenario' of investing in a portfolio at the worst possible time.

Morningstar Target Date Cat Avg: This is the arithmetic (holdings based data points) or geometric (time series data points) average which is computed by MPI Stylus based on Morningstar's assigned Morningstar Category.

Morningstar Target Date Cat Med: This is the arithmetic (holdings based data points) or geometric (time series data points) median which is computed by MPI Stylus based on Morningstar's assigned Morningstar Category.

Peer Group Data: Peer group data throughout the report is calculated by MPI based on Morningstar categories. As Target Date funds span across a number of vintages (years to retirement) each vintage is calculated using its unique peer group. A single graph will combine multiple peer group categories which can be visually seen by the date in the column which is associated with the fund and category of the same name. Peer groups contain both Mutual Funds and Collective Investment Trusts (CITs).

Prospectus Net Expense Ratio: Morningstar pulls the net prospectus expense ratio from the fund's prospectus. Prospectus-report expense ratios reflect the actual fees charged during a particular fiscal year. The prospectus expense ratio for a fund of funds is the wrap or sponsor fee only. The expense ratio expresses the percentage of assets deducted each fiscal year for fund expenses, including 12b-1 fees, management fees, administrative fees, operating costs, and all other asset-based costs incurred by the fund. Portfolio transaction fees, or brokerage costs, as well as initial or deferred sales charges are not included in the expense ratio. The expense ratio, which is deducted from the fund's average net assets, is accrued on a daily basis. If the fund's assets are small, its expense ratio can be quite high because the fund must meet its expenses from a restricted asset base. Conversely, as the net assets of the fund grow, the expense percentage should ideally diminish as expenses are spread across the wider base. Funds may also opt to waive all or a portion of the expenses that make up their overall expense ratio. The Morningstar peer universe is based off all available share classes.

Important Information

R-Squared (R2): The diversification measure R2indicates the percentage of volatility in portfolio returns which can be "explained" by market volatility. This statistic indicates the degree to which the observed values of one variable, such as the returns of a managed portfolio, can be explained by, or are associated with the values of another variable, such as a Market Index. The R2 values generally range from 0.0 to 1.0. An investment with an R2 of 1.0 is perfectly correlated with the market whereas an investment with an R2 of 0.0 will behave independently of the market. An R2 of 0.95, for example, implies that 95% of the fluctuations in a portfolio are explained by fluctuations in the market.

Recovery Period: The time it takes for the asset to recover all value that was lost during its Max Drawdown period.

Regional Allocation: This data set provides a breakdown of the geographical exposure of a fund's stock assets. Regional exposure summarizes a portfolio's exposure to geopolitical risk, and it also provides a reference point for understanding fund returns. Morningstar Categories are assigned based on three years of regional exposure.

- **% Emerging Market:** This data set provides a broad breakdown of an investment's geographical exposure in the Emerging Market region. Each region's exposure is presented as a percentage of non-cash equity assets held by the fund. Regional exposure information summarizes a portfolio's exposure to geopolitical risk.
- % **Developed Country:** This data set provides a broad breakdown of an investment's geographical exposure in the Developed Country region. Each region's exposure is presented as a percentage of non-cash equity assets held by the fund. Regional exposure information summarizes a portfolio's exposure to geopolitical risk.

Return: Expressed in percentage terms, Morningstar's calculation of total return is determined each month by taking the change in monthly net asset value, reinvesting all income and capital-gains distributions during that month, and dividing by the starting NAV. Reinvestments are made using the actual reinvestment NAV, and daily payoffs are reinvested monthly. Unless otherwise noted, Morningstar does not adjust total returns for sales charges (such as front-end loads, deferred loads and redemption fees), preferring to give a clearer picture of a fund's performance. The total returns do account for management, administrative, 12b-1 fees and other costs taken out of fund assets. Total returns for periods longer than one year are expressed in terms of compounded average annual returns (also known as geometric total returns), affording a more meaningful picture of fund performance than non-annualized figures.

Standard Deviation (StdDev): A measure of the extend to which observations in a series vary from the arithmetic mean of the series. The Standard Deviation of a series of asset returns is a measure of volatility or risk of the asset.

Sharpe Ratio: The Sharpe Ratio indicates the excess return per unit of total risk as measured by Standard Deviation. It is a ratio of the arithmetic average of excess returns over the risk free rate to the Standard Deviation. The Sharpe Ratio is a measure of the premium earned for the risk incurred by the portfolio.

Tracking Error (Excess Standard Deviation): Tracking Error is a measure of how closely an investment's returns track the returns of the selected Market Index. It is the annualized Standard Deviation of the differences between the investment's and the associated index's returns. If an investment tracks its associated index closely, then Tracking Error will be low. If an investment tracks its associated index perfectly, then Tracking Error will be zero.

Up Market (Mkt) Capture Ratio: Up Market Capture Ratio is a measure of a product's performance in up markets relative to the market itself. An up market is one in which the market's return is greater than or equal to zero. The higher the investment's Up Market Capture Ratio, the better the investment capitalized on a rising market.

Up Market Average Return: Average monthly return over the time period analyzed in which the market (benchmark) earned a positive return.

Index Definitions

S&P Target Date Index Series: Comprises twelve multi-asset class indices, each corresponding to a particular target retirement date. The asset allocation for each index in the series is determined once a year through survey of large fund management companies that offer target date products. Each index is fully investable, with varying levels of exposure to equities, fixed income and commodities.

Dow Jones Target Date Indices: Comprise a series of risk allocations corresponding to target date years. They are composed of sub-indices ranging across several asset classes. The indices serve as market risk-sensitive benchmarks for target date, or "lifecycle", funds, which are typically used within defined contribution retirement plans or to meet other long-term capital accumulation goals. The indices adjust their asset allocations over time to reflect reductions in potential risk as an investor's target date approaches. This aspect of asset class exposure is frequently referred to as a "target date glide path", wherein total equity exposure typically lessens with the passage of time.

Morningstar Lifetime Allocation Index Family: The index family is designed to meet the benchmarking needs of target-date investors by offering an objective yardstick for performance comparison. Conceptually, the Morningstar Lifetime Allocation Index family are indexes of indexes. These are a broadly diversified set of indices that helps investors mitigate the challenges related to rising life expectancies, evolving risk appetites, inflation in major retirement expense categories, and postretirement income investing.

Category Universe / Benchmark Assignments:

| Target Date | Morningstar Category | Benchmark |
|--------------------|------------------------|------------------------------|
| 2060 | Target-Date 2060+ | DJ US 2060 Target Index |
| 2055 | Target-Date 2055 | DJ US 2055 Target Index |
| 2050 | Target-Date 2050 | DJ US 2050 Target Index |
| 2045 | Target-Date 2045 | DJ US 2045 Target Index |
| 2040 | Target-Date 2040 | DJ US 2040 Target Index |
| 2035 | Target-Date 2035 | DJ US 2035 Target Index |
| 2030 | Target-Date 2030 | DJ US 2030 Target Index |
| 2025 | Target-Date 2025 | DJ US 2025 Target Index |
| 2020 | Target-Date 2020 | DJ US 2020 Target Index |
| 2015 | Target-Date 2015 | DJ US 2015 Target Index |
| 2010 | Target-Date 2000-2010 | DJ US 2010 Target Index |
| 2005 | Target-Date 2000-2010 | DJ US 2005 Target Index |
| Income | Target-Date Retirement | DJ Global Target Today Index |

Expense Ratio Information

| | Net Expense Ratio | Gross Expense Ratio | Exp Ratio Exp Ra Waiver Type Waiver Ar | Exp Ratio Waiver Expir Date | Mgt Fee Waiver Type | Mgt Fee Waiver Amount | Mgt Fee Waiver Expir Date |
|---|----------------------|------------------------|---|--------------------------------|------------------------|--------------------------|------------------------------|
| American Funds 2010 Trgt Date Retire R5 | 0.38 | 0.38 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2015 Trgt Date Retire R5 | 0.38 | 0.38 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2020 Trgt Date Retire R5 | 0.40 | 0.40 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2025 Trgt Date Retire R5 | 0.42 | 0.42 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2030 Trgt Date Retire R5 | 0.44 | 0.44 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2035 Trgt Date Retire R5 | 0.45 | 0.45 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2040 Trgt Date Retire R5 | 0.46 | 0.46 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2045 Trgt Date Retire R5 | 0.46 | 0.46 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2050 Trgt Date Retire R5 | 0.46 | 0.46 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2055 Trgt Date Retire R5 | 0.47 | 0.47 | | | Contractual | 0.10 | 11/01/2016 |
| American Funds 2060 Trgt Date Retire R5 | 0.50 | 0.54 | | | | | |
| Fidelity Freedom 2005 | 0.49 | 0.49 | | | | | |
| Fidelity Freedom 2010 | 0.53 | 0.53 | | | | | |
| Fidelity Freedom 2015 | 0.58 | 0.58 | | | | | |
| Fidelity Freedom 2020 | 0.62 | 0.62 | | | | | |
| Fidelity Freedom 2025 | 0.66 | 0.66 | | | | | |
| Fidelity Freedom 2030 | 0.70 | 0.70 | | | | | |
| Fidelity Freedom 2035 | 0.75 | 0.75 | | | | | |
| Fidelity Freedom 2040 | 0.75 | 0.75 | | | | | |
| Fidelity Freedom 2045 | 0.75 | 0.75 | | | | | |
| Fidelity Freedom 2050 | 0.75 | 0.75 | | | | | |
| Fidelity Freedom 2055 | 0.75 | 0.75 | | | | | |
| Fidelity Freedom 2060 | 0.75 | 0.75 | | | | | |
| Fidelity Freedom Income | 0.47 | 0.47 | | | | | |
| Putnam Retirement Advantage 2020: I | 0.50 | 0.50 | | | | | |
| Putnam Retirement Advantage 2025: I | 0.50 | 0.50 | | | | | |
| Putnam Retirement Advantage 2030: I | 0.50 | 0.50 | | | | | |
| Putnam Retirement Advantage 2035: I | 0.50 | 0.50 | | | | | |
| Putnam Retirement Advantage 2040: I | 0.50 | 0.50 | | | | | |
| Putnam Retirement Advantage 2045: I | 0.50 | 0.50 | | | | | |
| Putnam Retirement Advantage 2050: I | 0.50 | 0.50 | | | | | |

Expense Ratio Information

| | Net Expense Ratio | Gross Expense Ratio | | Exp Ratio Waiver Amount | Exp Ratio Waiver Expir Date | Mgt Fee Waiver Type | Mgt Fee Waiver Expir Date |
|--|----------------------|------------------------|-------------|----------------------------|-----------------------------|------------------------|------------------------------|
| Putnam Retirement Advantage 2055 I | 0.50 | 0.50 | | | | | |
| Putnam Retirement Advantage 2060 Class I | 0.50 | 0.50 | | | | | |
| Putnam Retirement Maturity Fund: I | 0.50 | 0.50 | | | | | |
| State Street Target Retirement 2015 K | 0.13 | 0.74 | Contractual | 0.61 | 04/30/2018 | | |
| State Street Target Retirement 2020 K | 0.13 | 0.35 | Contractual | 0.22 | 04/30/2018 | | |
| State Street Target Retirement 2025 K | 0.13 | 0.37 | Contractual | 0.24 | 04/30/2018 | | |
| State Street Target Retirement 2030 K | 0.13 | 0.33 | Contractual | 0.20 | 04/30/2018 | | |
| State Street Target Retirement 2035 K | 0.13 | 0.39 | Contractual | 0.26 | 04/30/2018 | | |
| State Street Target Retirement 2040 K | 0.13 | 0.38 | Contractual | 0.25 | 04/30/2018 | | |
| State Street Target Retirement 2045 K | 0.13 | 0.63 | Contractual | 0.50 | 04/30/2018 | | |
| State Street Target Retirement 2050 K | 0.13 | 0.96 | Contractual | 0.83 | 04/30/2018 | | |
| State Street Target Retirement 2055 K | 0.13 | 2.15 | Contractual | 2.02 | 04/30/2018 | | |
| State Street Target Retirement 2060 K | 0.13 | 11.42 | Contractual | 11.29 | 04/30/2018 | | |
| State Street Target Retirement K | 0.13 | 0.81 | Contractual | 0.68 | 04/30/2018 | | |
| T. Rowe Price Retirement 2005 | 0.58 | 0.58 | | | | | |
| T. Rowe Price Retirement 2010 | 0.57 | 0.57 | | | | | |
| T. Rowe Price Retirement 2015 | 0.59 | 0.59 | | | | | |
| T. Rowe Price Retirement 2020 | 0.63 | 0.63 | | | | | |
| T. Rowe Price Retirement 2025 | 0.67 | 0.67 | | | | | |
| T. Rowe Price Retirement 2030 | 0.69 | 0.69 | | | | | |
| T. Rowe Price Retirement 2035 | 0.72 | 0.72 | | | | | |
| T. Rowe Price Retirement 2040 | 0.74 | 0.74 | | | | | |
| T. Rowe Price Retirement 2045 | 0.74 | 0.74 | | | | | |
| T. Rowe Price Retirement 2050 | 0.74 | 0.74 | | | | | |
| T. Rowe Price Retirement 2055 | 0.74 | 0.74 | | | | | |
| T. Rowe Price Retirement 2060 | 0.74 | 0.74 | | | | | |
| Vanguard Target Retirement 2015 Inv | 0.13 | 0.13 | | | | | |
| Vanguard Target Retirement 2020 Inv | 0.13 | 0.13 | | | | | |
| Vanguard Target Retirement 2025 Inv | 0.14 | 0.14 | | | | | |
| Vanguard Target Retirement 2030 Inv | 0.14 | 0.14 | | | | | |
| Vanguard Target Retirement 2035 Inv | 0.14 | 0.14 | | | | | |

Expense Ratio Information

| | Net Expense G Ratio | | Exp Ratio Waiver Amount | Exp Ratio Waiver Expir Date | Mgt Fee Waiver Type | • | Mgt Fee Waiver Expir Date |
|---------------------------------------|------------------------|------|----------------------------|--------------------------------|------------------------|---|------------------------------|
| Vanguard Target Retirement 2040 Inv | 0.15 | 0.15 | | | | | |
| Vanguard Target Retirement 2045 Inv | 0.15 | 0.15 | | | | | |
| Vanguard Target Retirement 2050 Inv | 0.15 | 0.15 | | | | | |
| Vanguard Target Retirement 2055 Inv | 0.15 | 0.15 | | | | | |
| Vanguard Target Retirement 2060 Inv | 0.15 | 0.15 | | | | | |
| Vanguard Target Retirement Income Inv | 0.13 | 0.13 | | | | | |