

John Hancock USA

All financial obligations under the group annuity contract are the sole obligation of John Hancock Life Insurance Company (U.S.A.).

- ▶ John Hancock is a unit of Manulife Financial Corporation, a leading international financial services provider that helps people make their decisions easier and lives better by providing financial advice, insurance, and wealth and asset management solutions. Manulife Financial Corporation trades as MFC on the TSX, NYSE, and PSE, and under 945 on the SEHK. Manulife can be found at manulife.com.
- ▶ One of the largest life insurers in the United States, John Hancock supports more than ten million Americans with a broad range of financial products, including life insurance and annuities. John Hancock also supports US investors by bringing leading investment capabilities and retirement planning and administration expertise to individuals and institutions. Additional information about John Hancock may be found at johnhancock.com.

WisdomTree Trust

- ▶ WisdomTree launched its first ETFs in June of 2006, and is currently the industry's fifth largest ETF provider. WisdomTree sponsors 79 distinct ETFs that span asset classes and countries around the world. Categories include: U.S. and International Equity, Currency, Fixed Income and Alternatives. WisdomTree pioneered the concept of fundamentally weighted ETFs and active ETFs and is currently an industry leader in both categories.

Allocating assets to only one or a small number of the investment options (other than the Target Date 'Lifecycle' or Target Risk 'Lifestyle' options) should not be considered a balanced investment program. In particular, allocating assets to a small number of options concentrated in particular business or market sectors will subject your account to increased risk and volatility. Examples of business or market sectors where this risk may be particularly high include: a) technology-related businesses, including Internet-related businesses, b) small-cap securities and c) foreign securities. John Hancock does not provide advice regarding appropriate investment allocations.

Risks Applicable to All Funds

Merger and Replacement Transition Risk for Sub-Account. It is possible that the Fund will be replaced with or merged into another investment option offered under your plan's group annuity contract. In the case of fund mergers and replacements, the affected funds that are being merged or replaced may implement the redemption of your interest by payment in cash or by distributing assets in kind. In either case, the redemption of your interest by the affected fund, as well as the investment of the redemption proceeds by the "new" fund, may result in transaction costs to the funds because the affected funds may find it necessary to sell securities and the "new" funds will find it necessary to invest the redemption proceeds. Also, the redemption and reinvestment processes, including any transition period that may be involved in completing such mergers and replacements, could be subject to market gains or losses, including those from currency exchange rates. The transaction costs and potential market gains or losses could have an impact on the value of your investment in the affected fund and in the "new" fund, and such market gains or losses could also have an impact on the value of any existing investment that you or other investors may have in the "new" fund. Although there can be no assurances that all risks can be eliminated, the portfolio manager(s) of the affected funds will use their best efforts to manage and minimize such risks and costs.

Risk of Increase in Expenses for Sub-Account. Your actual costs of investing in the fund may be higher than the expenses shown in "Annual fund operating expenses" for a variety of reasons. For example, expense ratios may be higher than those shown if a fee limitation is changed or terminated or if average net assets decrease. Net assets are more likely to decrease and fund expense ratios are more likely to increase when markets are volatile.

Risk Disclosures: Additional Risks

Consumer Discretionary Sector Risk for ETF. The Fund currently invests a significant portion of its assets in the consumer discretionary sector, and therefore the Fund's performance could be negatively impacted by events affecting this sector. The consumer discretionary sector includes, for example, automobile, textile, retail, and media companies. This sector can be significantly affected by, among other things, economic growth, worldwide demand, social trends, consumers' disposable income levels, and propensity to spend.

Cyber Security Risk for ETF. The Fund and its service providers may be susceptible to operational and information security risks resulting from a breach in cyber security, including cyber-attacks. A breach in cyber security, intentional or unintentional, may adversely impact the Fund in many ways, including, but not limited to, disruption of the Fund's operational capacity, loss of proprietary information, theft or corruption of data, denial-of-service attacks on websites or network resources, and the unauthorized release of confidential information. Cyber-attacks affecting the Fund's third-party service providers, market makers, Authorized Participants, or the issuers of securities in which the Fund invests may subject the Fund to many of the same risks associated with direct cyber security breaches.

Dividend Paying Securities Risk for ETF. Securities that pay dividends, as a group, may be out of favor with the market and underperform the overall equity market or stocks of companies that do not pay dividends. In addition, changes in the dividend policies of the companies held by the Fund or the capital resources available for such company's dividend payments may adversely affect the Fund.

Geopolitical Risk for ETF. The United States has experienced security concerns, war, threats of war, aggression and/or conflict, terrorism, economic uncertainty, natural and environmental disasters and/or systemic market dislocations (including due to events outside of the United States) that have led, and in the future may lead, to increased short-term market volatility and may have adverse long-term effects on the U.S. and world economies and markets generally, each of which may negatively impact the Fund's investments.

Index and Data Risk for ETF. The Fund is not "actively" managed and seeks to track the price and yield performance, before fees and expenses, of the Index. The Index provider has the right to make adjustments to the Index or to cease making the Index available without regard to the particular interests of the Fund or its shareholders. If the computers or other facilities of the Index provider, Index calculation agent, data providers and/or relevant stock exchange malfunction for any reason, calculation and dissemination of Index values may be delayed and trading in Fund shares may be suspended for a period of time. Errors in Index data, Index calculations and/or the construction of the Index may occur from time to time and may not be identified and/or corrected by the Index provider, Index calculation agent or other applicable party for a period of time or at all, which may have an adverse impact on the Fund and its shareholders. The potential risk of continuing error may be particularly heightened in the case of the Index, which is generally not used as a benchmark by other funds or managers.

Investment Risk for ETF. As with all investments, an investment in the Fund is subject to investment risk. Investors in the Fund could lose money, including the possible loss of the entire principal amount of an investment, over short or long periods of time.

Investment Style Risk for ETF. The Fund invests in the securities included in, or representative of, the Index regardless of their investment merit. The Fund does not attempt to outperform the Index or take defensive positions in declining markets. As a result, the Fund's performance may be adversely affected by a general decline in the market segments relating to the Index.

Issuer-Specific Risk for ETF. Issuer-specific events, including changes in the actual or perceived financial condition of an issuer, can have a negative impact on the value of the Fund.

Market Risk for ETF. The trading prices of equity securities and other instruments fluctuate in response to a variety of factors, such as economic, financial or political events that impact the entire market, market segments, or specific issuers. The Fund's NAV and market price may fluctuate significantly in response to these and other factors. As a result, an investor could lose money over short or long periods of time.

Mid-Capitalization Investing Risk for ETF. The Fund invests primarily in the securities of mid-capitalization companies. As a result, the Fund's performance may be adversely affected if securities of mid-capitalization companies underperform securities of other capitalization ranges or the market as a whole. Securities of mid-capitalization companies are often less stable and more vulnerable to market volatility and adverse economic developments than securities of larger companies.

Non-Correlation Risk for ETF. As with all index funds, the performance of the Fund and its Index may differ from each other for a variety of reasons.

Non-Diversification for ETF. The Fund is considered to be non-diversified, which means that it may invest more of its assets in the securities of a single issuer or a smaller number of issuers than if it were a diversified fund. To the extent the Fund invests a significant percentage of its assets in a limited number of issuers, the Fund is subject to the risks of investing in those few issuers, and may be more susceptible to a single adverse economic or regulatory occurrence. As a result, changes in the market value of a single security could cause greater fluctuations in the value of Fund shares than would occur in a diversified fund.

Real Estate Sector Risk for ETF. The Fund currently invests a significant portion of its assets in real estate companies, including investments in real estate investment trusts ("REITs"), and therefore the Fund's performance could be negatively impacted by events affecting this sector. REITs are securities that invest substantially all of their assets in real estate, trade like stocks and may qualify for special tax considerations. Investments in REITs subject the Fund to risks associated with the direct ownership of real estate. The real estate sector also includes real estate management and development companies. This sector can be significantly affected by, among other things, market conditions or events such as declining property values or rising interest rates.

Shares of the Fund May Trade at Prices Other Than NAV. As with all exchange-traded funds ("ETFs"), Fund shares may be bought and sold in the secondary market at market prices. The trading prices of the Fund's shares in the secondary market generally differ from the Fund's daily NAV and there may be times when the market price of the shares is more than the NAV (premium) or less than the NAV (discount). This risk is heightened in times of market volatility or periods of steep market declines.

Sub-Account Details

Risk/Return Category^{1A}

Aggressive Growth

Low  High

Asset Class/Investment Style^{5A}

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

Performance**

Returns (as of 3-31-25)

	Fund	Index	Peer Group
1 year	3.24%	4.10%	1.45%
3 year	5.74%	6.93%	4.80%
5 year	17.60%	18.88%	17.58%
10 year	7.58%	8.79%	7.53%

Expense Ratio (as of 3-31-25)****

Expense Ratio****	1.04%
Cost Per \$1,000	\$10.40

Sub-Account Inception Date: May 2, 2014
Underlying fund Inception Date: June 16, 2006

¥See important notes.

****The performance data presented represents past performance. Past performance is no guarantee of future results and current performance may be lower or higher than the performance quoted. An investment in a sub-account will fluctuate in value to reflect the value of the sub-account's underlying portfolio and, when redeemed, may be worth more or less than original cost. Performance does not reflect any applicable contract-level or certain participant-level charges, or any redemption fees imposed by an underlying collective trust or other investment vehicle in which the sub-account invests. These charges, if included, would otherwise reduce the total return for a participant's account. Performance information current to the most recent month-end is available on our website myplan.johnhancock.com.**

Performance data for a sub-account for any period prior to the date introduced is shown in bold and is hypothetical based on the performance of the underlying fund.

The performance of the sub-account may differ from the performance of the underlying ETF - refer to footnote 139.

The Index is WisdomTree MidCap Dividend.¹¹⁷

The peer group is Mid-Cap Value.¹¹⁹

Principal risks include: dividend paying securities; cyber security; investment; index and data; real estate sector; non-correlation; issuer specific; investment style; geopolitical; merger and replacement transition; market; risk of increase expenses; consumer discretionary sector; non-diversification; shares of the fund and mid-capitalization investing. For more details, see Risk Disclosures section of this booklet.



Manulife
Retirement



WISDOMTREE

WisdomTree MidCap Dividend ETF

76,119,139

Investing solely in WisdomTree MidCap Dividend ETF

Managed by WisdomTree Trust

Ticker Symbol*: **DON**

Fund Highlights

Investment Objective and Policies ▶ Seeks to track the price and yield performance, before fees and expenses, of the WisdomTree MidCap Dividend Index.

Why Consider this Fund

▶ You want a simple, low-cost way to invest in mid-capitalization segment of the U.S. dividend-paying market.

Holdings, Weightings and Allocations of the underlying fund

Top Holdings (as of 03-31-25)α

Evergy Inc	1.5%
Gaming and Leisure Properties Inc	1.3%
CNA Financial Corp	1.3%
Conagra Brands Inc	1.1%
Hormel Foods Corp	1.0%
Pinnacle West Capital Corp	1.0%
American Financial Group Inc	1.0%
Fidelity National Financial Inc	0.9%
Alliant Energy Corp	0.9%
NiSource Inc	0.9%

Totals 10.9% of assets

Asset Allocation (as of 03-31-25)α

US Stock	99.7%
Non US Stock	0.3%

Top Country Holdings (as of 03-31-25)α

United States	99.7%
Puerto Rico	0.3%

Top Sector Weightings (as of 03-31-25)α

Financial Services	24.7%
Industrials	14.2%
Consumer Cyclical	13.6%
Real Estate	10.4%
Utilities	8.5%
Consumer Defensive	7.0%
Energy	6.5%
Technology	4.9%
Basic Materials	4.7%
Healthcare	3.3%
Communication Services	2.3%

Key Statistics (as of 3-31-25 unless noted)α

- ▶ **Number of Holdings:** 332
- ▶ **Sharpe Ratio:** 0.19
- ▶ **Beta:** 1.00 (WisdomTree MidCap Dividend TR USD)
- ▶ **R²:** 100.00 (WisdomTree MidCap Dividend TR USD)
- ▶ **Turnover (annualized)[§]:** 26.00
- ▶ **Net Assets:** \$3.6 billion
- ▶ **Underlying fund expense ratios:**
 - Gross* 0.38%
 - Net* 0.38%
- ▶ **Market Cap (millions):** 8978.84

Morningstar Information*** (as of 3-31-25)α

- ▶ **Overall Morningstar Rating™:** ★★
- ▶ **Overall # of Funds in Category:** 389
- ▶ **Morningstar Category^{6A}:** Mid-Cap Value
- ▶ **No. of funds:** 3yr 389; 5yr 366; 10yr 282

The Overall Morningstar Rating™ for the underlying fund is derived from a weighted average of the performance figures associated with its three-, five- and 10-year (if applicable) Morningstar Rating™ metrics. The rating formula most heavily weights the three year rating, using the following calculation: 100% three-year rating for 36-59 months of total returns, 60% five-year rating/40% three-year rating for 60-119 months of total returns, and 50% 10-year rating/30% five-year rating/20% three-year rating for 120 or more months of total returns. Rating does not include the effects of sales charges, loads, and redemption fees. Past performance does not guarantee future results. Ratings are as follows: 3yr=4; 5yr=3; 10yr=3. See Important Notes for the rating criteria.

* The Net expense ratio shown is for the underlying fund and reflects any fee waivers or expense reimbursements and is subject to change. Please refer to the underlying prospectus or offering documents for additional information.^Δ

¥ Important notes

Please call 800-395-1113 to obtain the Fund Sheet for the group annuity investment option sub-accounts and/or to obtain a prospectus (or Offering Memorandum/Trust Document) for the sub-accounts' underlying fund, that are available on request. The prospectuses (or Offering Memorandum/Trust Documents) for the sub-accounts' underlying funds contain complete details on investment objectives, risks, fees, charges and expenses as well as other information about the underlying funds which should be carefully considered before investing.

John Hancock conducts business in English.

Fees and expenses are only one of several factors that you should consider when making investment decisions. The cumulative effect of fees and expenses can substantially reduce the growth of your retirement account. You can visit the Employee Benefit Security Administration's Web site for an example demonstrating the long-term effect of fees and expenses.

Contributions under a group annuity contract issued by John Hancock Life Insurance Company (U.S.A.) (John Hancock USA) are allocated to investment options which: (a) invest solely in shares of an underlying mutual fund, collective trust, ETF, or other investment vehicle in which the sub-account invests; (b) invest in a combination of these; or (c) are Guaranteed Interest Accounts and which will be held in the John Hancock USA general account. For more information on a particular investment option, please refer to John Hancock USA's fund sheets, available through our web site myplan.johnhancock.com or your John Hancock USA representative.

Allocating assets to only one or a small number of the investment options (other than an asset allocation investment option such as a target date or target risk option) should not be considered a balanced investment program. In particular, allocating assets to a small number of investment options concentrated in particular business or market sectors could subject an account to increased risk and volatility.

* When contributions are allocated to funds under your employer's group annuity contract with John Hancock, they will be held in a sub-account (also referred to as "Fund"), which invests in shares of the specified underlying mutual fund, collective trust, ETF, or other investment vehicle in which the sub-account invests. The ticker symbols shown are for the underlying mutual fund, collective trusts, ETFs, or other investment vehicle in which the sub-account is invested. The ticker symbols do not directly apply to the John Hancock sub-account and therefore any public information accessed using these symbols will not reflect the unit value of the subaccount, nor will such information reflect sub-account, contract-level or participant-level charges under your plan's group annuity contract.

Information Concerning John Hancock's Short-Term Trading Policy

The group annuity contract is not designed for short-term trading. The effect of short-term trading may disrupt or be potentially disruptive to the management of the fund underlying an investment option and may thereby adversely impact the underlying fund's performance, either by impacting fund management practices or by increasing fund transaction costs. These impacts are absorbed by other fund investors, including retirement plan participants. For the protection of the participants, account changes are subject to the following short-term trading guidelines when exchanging investment options under your company's qualified retirement plan account with John Hancock. Requests may be cancelled if not within our guidelines.

Participants are allowed a **maximum of two exchanges per calendar month**. An **exchange** is defined as the full rebalance of a participant's account, or single or multiple fund-to-fund transfers that involve multiple investment options (also referred to as "inter-account transfers") on one day, and may be made online or with a client account representative.

Recognizing that there may be extreme market or other circumstances requiring a participant to make a further change, John Hancock will allow a participant to move **100% of their assets to a Money Market or Stable Value Fund (as available under the contract) after the exchange limit has been reached;**

no subsequent exchanges may be made for 30 days. Once the 30-day hold has expired, participants can trade again in accordance with the above guidelines.

The guidelines **do not** apply to regular allocations, loans, or withdrawals.

In addition, on an ongoing basis, participant account activity is reviewed for trading activity that, though within the monthly exchange limit, could be detrimental to an underlying fund and/or contrary to its exchange policies, as described in the fund's prospectus. As a result of this review, or if requested by a fund company, additional restrictions may be imposed on a participant's retirement account, including but not limited to:

- Applying redemption fees and/or trade restrictions as requested by the underlying fund manager. Such trade restrictions may be more restrictive than the above guidelines
- Restricting the number of exchanges made during a defined period
- Restricting the dollar amount of exchange
- Restricting the method used to submit exchanges (e.g., requiring exchange requests to be submitted in writing via U.S. mail)
- Restricting exchanges into and out of certain investment options

Participants can read about the short-term trading policy at myplan.johnhancock.com under the "modify your account - change account" feature. Redemption fees or market value adjustments associated with exchanges from particular investment options are described on applicable fund sheets, which are available online. For more information or to order prospectuses for the underlying investments, call 800-395-1113 and speak to a client account representative.

±Weightings - Applicable to only the Target Date (Lifecycle Portfolio) and Target Risk (Lifestyle Portfolios)

Each Target Risk/Target Date Portfolio has a target percentage allocation designed to meet the investment objectives of a corresponding investment orientation. Allocation percentages may vary or be adjusted due to market or economic conditions or other reasons as set out in the prospectus. Due to abnormal market conditions or redemption activity the fund may temporarily invest in cash and cash equivalents.

The underlying mutual fund, collective trust, ETF, or other investment vehicle in which the sub-account invests has the right to restrict trade activity without prior notice if a participant's trading is determined to be in excess of their exchange policy, as stated in an underlying fund's offering document.

⊠The information shown is based on the most recent available information for the underlying mutual fund, collective trust, ETF, or other investment vehicle in which the sub-account invests (collectively referred to as underlying fund) as of the date of printing and is subject to change. Listed holdings do not represent all of the holdings in the underlying fund.

⊠Average Credit Quality is from a Nationally Recognized Statistical Rating Organization (NRSRO).

1A. Your company's qualified retirement plan offers participants the opportunity to contribute to investment options available under a group annuity contract with John Hancock Life Insurance Company (U.S.A.) (John Hancock USA). These investment options may be sub-accounts (pooled funds) investing directly in underlying mutual fund, collective trusts, ETFs, or other investment vehicles, or they may be Guaranteed Interest Accounts.

The funds offered on the JH Signature platform are classified into five risk categories. The risk category in which a fund is placed is determined based on where the 10 year Standard Deviation (defined below) of the underlying fund's Morningstar Category falls on the following scale: if the 10 year Standard

Deviation of the underlying fund's Morningstar Category is 17.00 or higher, the Fund is classified as "Aggressive;" between 11.50 and 16.99 as "Growth;" between 7.00 and 11.49 as "Growth & Income;" between 2.50 and 6.99 as "Income;" and 2.49 and below as "Conservative." If a 10 year Standard Deviation is not available for a Morningstar Category, then the 5 year Standard Deviation of the underlying fund's Morningstar Category is used to determine the Fund's risk category. If a 5 year Standard Deviation is not available for a Morningstar Category, then the 3 year Standard Deviation of the underlying fund's Morningstar Category Index is used to determine the Fund's risk category. Standard Deviation is defined by Morningstar as a statistical measurement of dispersion about an average, which, for an underlying fund, depicts how widely the returns varied over a certain period of time.

The placement of each investment option's risk/return category is subject to change. This information is not intended as investment advice and there can be no assurance that any investment option will achieve its objectives or experience less volatility than another.

2A. Manager or Sub-Adviser refers to the manager of the underlying fund, or to the sub-adviser of the underlying John Hancock Trust, John Hancock Funds II, or John Hancock Funds III fund in which the sub-account invests. "Underlying fund" includes the underlying mutual fund, collective trust, ETF, or other investment vehicle in which a sub-account invests.

3A. Date sub-account or Guaranteed Interest Account first available under group annuity contract. The class introduction date is the same as the sub-account Inception Date.

4A. The performance data for a sub-account for any period prior to the sub-account Inception Date is hypothetical based on the performance of the underlying investment since inception of the underlying investment. All other performance data is actual (except as otherwise indicated). Returns for any period greater than one year are annualized. Performance data reflects changes in the prices of a sub-account's investments (including the shares of an underlying mutual fund, collective trust, or ETF), reinvestment of dividends and capital gains and deductions for the sub-account charges.

The performance data presented represents past performance. Past performance is no guarantee of future results and current performance may be lower or higher than the performance quoted. An investment in a sub-account will fluctuate in value to reflect the value of the sub-account's underlying fund and, when redeemed, may be worth more or less than original cost. Performance does not reflect any applicable contract-level or participant-level charges, fees for guaranteed benefits if elected by participant, or any redemption fees imposed by an underlying mutual fund, collective trust or ETF. These charges, if included, would otherwise reduce the total return for a participant's account. Performance current to the most recent month-end is available at myplan.johnhancock.com.

5A. Asset class/Investment style : Asset class refers to the broad category of investments the portfolio, or underlying fund, currently holds. Fixed income, or bond funds are often categorized by the duration and credit quality of the bonds held in the underlying fund. Equity, or stock underlying funds may be categorized by the size of the securities in which the fund invests (market capitalization). Investment style tells you whether the underlying fund invests in securities of companies that exhibit growth-style characteristics, such as above-average revenue and earnings growth, or in securities that exhibit value-style characteristics, such as shares considered to be underpriced in relation to fundamental measures such as revenues, earnings and assets.

****Expense Ratio (ER)

This material shows expenses for a specific unit class for investment options available under a John Hancock group annuity contract. The Expense Ratio ("ER") shown represents the total annual operating expenses for the investment options made available by John Hancock. It is made up of John Hancock's (i) "Revenue from Sub-account", and (ii) the expenses of the underlying fund (based on expense ratios reported in the most recent prospectuses available as of the date of printing; "FER"). In the case where an underlying fund has either waived a

portion of, or capped, its fees, the FER used to determine the ER of the sub-account that invests in the underlying fund is the net expense ratio of the underlying fund. "Underlying fund" or "fund" refers to the underlying mutual fund, collective trust, or exchanged traded fund ("ETF") in which the investment option invests. The FER is determined by the underlying fund and may be subject to fluctuation. Any change in the FER of an underlying fund will affect the Expense Ratio of the investment option which invests in the underlying fund. The ER applies daily at a rate equivalent to the annual rate shown, and may vary to reflect changes in the expenses of an underlying fund and other factors. For Expense Ratio information current as of the most recent quarter end, please refer to the monthly "Return and Fees" listing available from John Hancock upon request. For more information, please contact your financial representative.

** Performance of the Sub-account

The performance data for a sub-account for any period prior to the sub-account Inception Date is hypothetical based on the performance of the underlying portfolio.* The class introduction date is the same as the sub-account Inception Date. Returns for any period greater than one year are annualized. Performance data reflects changes in the prices of a sub-account's investments (including the shares of an underlying fund), reinvestment of dividends and capital gains and deductions for the Expense Ratio (ER). Performance does not reflect any applicable contract-level or certain participant-level charges, fees for guaranteed benefits if elected by participant under the group annuity contract or redemption fees imposed by the underlying portfolio. These charges, if included, would otherwise reduce the total return for a participant's account. All performance calculations shown have been prepared solely by John Hancock USA. The underlying fund company has not reviewed the sub-account's performance.

6A. Morningstar Category:

© 2025 Morningstar. All Rights Reserved. The information contained herein: (1) is proprietary to Morningstar and/or its content providers; (2) may not be copied or distributed; and (3) is not warranted to be accurate, complete or timely. Neither Morningstar nor its content providers are responsible for any damages or losses arising from any use of this information. Past performance is no guarantee of future results.

Morningstar assigns categories by placing funds into peer groups based on their underlying holdings. The underlying securities in each portfolio are the primary factor Morningstar uses as the investment objective and investment strategy stated in a fund's prospectus may not be sufficiently detailed for our proprietary classification methodology. Funds are placed in a category based on their portfolio statistics and compositions over the past three years. Analysis of performance and other indicative facts are also considered. If the fund is new and has no portfolio history, Morningstar estimates where it will fall before giving it a permanent category assignment. Categories may be changed based on recent changes to the portfolio.

***Morningstar Portfolio Ratings

All Morningstar data is © 2025 by Morningstar, Inc. All rights reserved. The information contained herein: (1) is proprietary to Morningstar and/or its content providers; (2) may not be copied or distributed; and (3) is not warranted to be accurate, complete or timely. Neither Morningstar nor its content providers are responsible for any damages or losses arising from any use of this information. For each underlying fund with at least a three-year history, Morningstar calculates a Morningstar Rating™ based on a Morningstar Risk-Adjusted Return measure that accounts for variation in the underlying fund's monthly performance (does not include the effects of sales charges, loads, and redemption fees), placing more emphasis on downward variations and rewarding consistent performance. Exchange traded funds and open-ended mutual funds are considered a single population for comparative purposes. Funds with scores in the top 10% of each category receive 5 stars (highest); the next 22.5%, 4 stars (above average); the next 35%, 3 stars (average); the next 22.5%, 2 stars (below average); and the bottom 10%, 1 star (lowest). Morningstar ratings are applicable to the underlying only and reflect historical risk-adjusted performance as of the most recent calendar quarter-end. Although gathered from reliable sources, the information is not represented or warranted by Morningstar to be accurate, correct, complete or timely.

¥ Important notes CONTINUED

⁴The amounts displayed represent the gross and net expense ratios of the underlying fund in which the sub-account invests. Where the figures are different, the underlying fund has either waived a portion of, or capped its fees, and the result of such fee waiver or cap is reflected in the net expense ratio.

The waiver or cap is subject to expiration, in which case the Expense Ratio and performance of the sub account may be impacted. Refer to the prospectus of the underlying fund for details.

When calculating the Expense Ratio of the sub-account, the net expense ratio of the underlying fund is used. Returns shown reflect the Expense Ratio of the sub-account.

76. Indexes are unmanaged and the performance of an index is not an exact representation of any particular investment, as you cannot invest directly in an index. Like all mutual funds, index funds are subject to market risks and will fluctuate in value. Index funds are designed to track the performance of its target index but may underperform due to fees, expenses or tracking errors. These investments are not actively managed and do not necessarily attempt to manage volatility or protect against losses in declining markets. None of the index funds are sponsored, endorsed, managed, advised, sold or promoted by any of the respective companies that sponsor the broad-based securities market index, and none of these companies make any representation regarding the advisability of investing in any index mutual fund.

119. The underlying fund expense ratio shown includes an annualized charge of 0.06% accrued daily, and deducted monthly out of the unitized version of the underlying fund provided by and traded through the trading platform of an unaffiliated third party.

139. The returns of the sub-account may differ from the returns of the ETF in which the sub-account invests (referred to as 'tracking error'). Tracking error results from certain fees and transaction expenses incurred by the sub-account, from differences between the timing of purchases and redemptions of sub-account shares and corresponding transactions in the shares of the underlying ETF, and from the fact that the sub-account holds a small amount of cash (less than 1% of the value of the sub-account) in addition to shares of the ETF.

Index Performance:

With respect to the Funds that display an index performance. Index performance shown is for a broad-based securities market index. Indexes are unmanaged and cannot be invested in directly. Index returns were prepared using Morningstar Direct. The performance of an Index does not include any portfolio or insurance-related charges. If these charges were reflected, performance would be lower. Past performance is not a guarantee of future results.

i117. WisdomTree MidCap Dividend Index: The WisdomTree MidCap Dividend Index is a fundamentally weighted index that measures the performance of the mid-capitalization segment of the US dividend-paying market. The Index is comprised of the companies that compose the top 75% of the market capitalization of the WisdomTree Dividend Index after the 300 largest companies have been removed. The index is dividend weighted annually to reflect the proportionate share of the aggregate cash dividends each component company is projected to pay in the coming year, based on the most recently declared dividend per share.

Peer Group Performance:

With respect to the Funds that display a Peer Group Performance. Source: Morningstar Direct for Mutual Funds, as of the most recent month end. Morningstar data is ©2025 by Morningstar, Inc. All rights reserved. Although gathered from reliable sources, the information is not represented or warranted by Morningstar to be accurate, correct, complete or timely. Peer groups are unmanaged and cannot be invested in directly.

p19. Mid-Cap Value: Some mid-cap value portfolios focus on medium-size companies while others land here because they own a mix of small-, mid-, and large-cap stocks. All look for U.S. stocks that are less expensive or growing more slowly than the market. The U.S. mid-cap range for market capitalization typically falls between \$1 billion and \$8 billion and represents 20% of the total capitalization of the U.S. equity market. Value is defined based on low valuations

(low price ratios and high dividend yields) and slow growth (low growth rates for earnings, sales, book value, and cash flow).

Key Statistics

⁵The Turnover Ratio shown is based on the most recent available financial statements for the underlying mutual fund, collective trust, ETF, or other investment vehicle in which the sub-account invests, as of the date of printing and is subject to change.

***Wrap Provider Exposure**

S&P

Credit ratings of AA- or better are considered to be high credit quality; credit ratings of BBB- are good credit quality and the lowest category of investment grade; credit ratings BB+ and below are lower-rated securities ("junk bonds"); and credit ratings of CCC+ or below have high default risk. The credit quality breakdown does not give effect to the impact of any credit derivative investments made by the fund.

Moody's

The rating scale, running from a high of Aaa to a low of C, comprises 21 notches. It is divided into two sections, investment grade and speculative grade. The lowest investment-grade rating is Baa3. The highest speculative-grade rating is Ba1. Moody's appends numerical modifiers 1, 2, and 3 to each generic rating classification from Aa through Caa.

Financial Strength Rating[†]

A.M. Best Rating

AM Best's methodologies for rating is a comprehensive overview of the credit rating process, which consists of quantitative and qualitative evaluations of balance sheet strength, operating performance, business profile, and enterprise risk management.

Fitch Ratings

The terms "investment grade" and "speculative grade" have established themselves over time as shorthand to describe the categories 'AAA' to 'BBB' (investment grade) and 'BB' to 'D' (speculative grade). The terms investment grade and speculative grade are market conventions and do not imply any recommendation or endorsement of a specific security for investment purposes. Investment grade categories indicate relatively low to moderate credit risk, while ratings in the speculative categories either signal a higher level of credit risk or that a default has already occurred.

S&P

Credit ratings of AA- or better are considered to be high credit quality; credit ratings of BBB- are good credit quality and the lowest category of investment grade; credit ratings BB+ and below are lower-rated securities ("junk bonds"); and credit ratings of CCC+ or below have high default risk. The credit quality breakdown does not give effect to the impact of any credit derivative investments made by the fund.

Moody's

The rating scale, running from a high of Aaa to a low of C, comprises 21 notches. It is divided into two sections, investment grade and speculative grade. The lowest investment-grade rating is Baa3. The highest speculative-grade rating is Ba1. Moody's appends numerical modifiers 1, 2, and 3 to each generic rating classification from Aa through Caa.

Fund availability subject to regulatory approval and may vary from state to state. The availability of products, funds and contract features may be subject to broker-dealer firm approval, state approval, broker licensing requirements, tax law requirements, or other contract-related requirements. From time to time, changes are made to funds, and the availability of these changes may be subject to state approvals or other compliance requirements. Please confirm with your local John Hancock

Representative if you have any questions about product, fund or contract feature availability.

Manulife, Manulife Retirement, Stylized M Design, and Manulife Retirement & Stylized M Design are trademarks of The Manufacturers Life Insurance Company, and John Hancock and the Stylized John Hancock Design are trademarks of John Hancock Life Insurance Company (U.S.A.). Each are used by it and by its affiliates under license, including John Hancock Life Insurance Company of New York.

Group annuity contracts and recordkeeping agreements are issued by John Hancock Life Insurance Company (U.S.A.), Boston, MA (not licensed in New York). John Hancock Life Insurance Company (U.S.A.) makes available a platform of investment alternatives to sponsors or administrators of retirement plans without regard to the individualized needs of any plan. Unless otherwise specifically stated in writing, John Hancock Life Insurance Company (U.S.A.) does not, and is not undertaking to, provide impartial investment advice or give advice in a fiduciary capacity. Securities are offered through John Hancock Distributors LLC, member FINRA, SIPC.

NOT FDIC INSURED. MAY LOSE VALUE. NOT BANK GUARANTEED.

© 2025 Manulife John Hancock Retirement. All rights reserved.