

# John Hancock Multimanager 2020 Lifetime Portfolio

Class R4/JLDGX

## ANNUAL SHAREHOLDER REPORT | AUGUST 31, 2024

This annual shareholder report contains important information about the John Hancock Multimanager 2020 Lifetime Portfolio (the fund) for the period of September 1, 2023 to August 31, 2024. You can find additional information about the fund at [jhinvestments.com/documents](https://www.jhinvestments.com/documents). You can also request this information by contacting us at 800-225-5291.

### What were the fund costs during the last year?

(Based on a hypothetical \$10,000 investment)

Fund (Class)	Costs of a \$10,000 investment	Costs paid as a percentage of a \$10,000 investment
Multimanager 2020 Lifetime Portfolio (Class R4/JLDGX)	\$28	0.26%

## Management's Discussion of Fund Performance

### SUMMARY OF RESULTS

Multimanager 2020 Lifetime Portfolio (Class R4/JLDGX) returned 13.18% for the year ended August 31, 2024. Stocks rallied as falling inflation raised hopes that the U.S. Federal Reserve would start cutting interest rates. Positive global growth, steady corporate earnings, and excitement surrounding the adoption of AI added to the upbeat tone. In this environment, U.S. equities, the growth style, and the information technology sector outpaced the market as a whole. Bonds also produced gains, with income accounting for the majority of the category's total return. Credit-oriented categories generally outperformed those with higher interest-rate sensitivity.

### TOP PERFORMANCE CONTRIBUTORS

**The equity allocation made the largest contribution** | Holdings in U.S. large cap, international large cap, and defensive stock funds were the leading contributors in equities.

**Fixed-income allocation also contributed** | Allocations to short- and intermediate-term bond funds, both of which benefited from holdings in investment-grade corporates, were top contributors. Positions in high-yield bond and dollar-denominated emerging-market debt funds also helped results.

### TOP PERFORMANCE DETRACTORS

**U.S. Treasury STRIPS (Separate Trading of Registered Interest and Principal of Securities)** | Certain holdings in this area were adversely affected by their above-average interest-rate sensitivity.

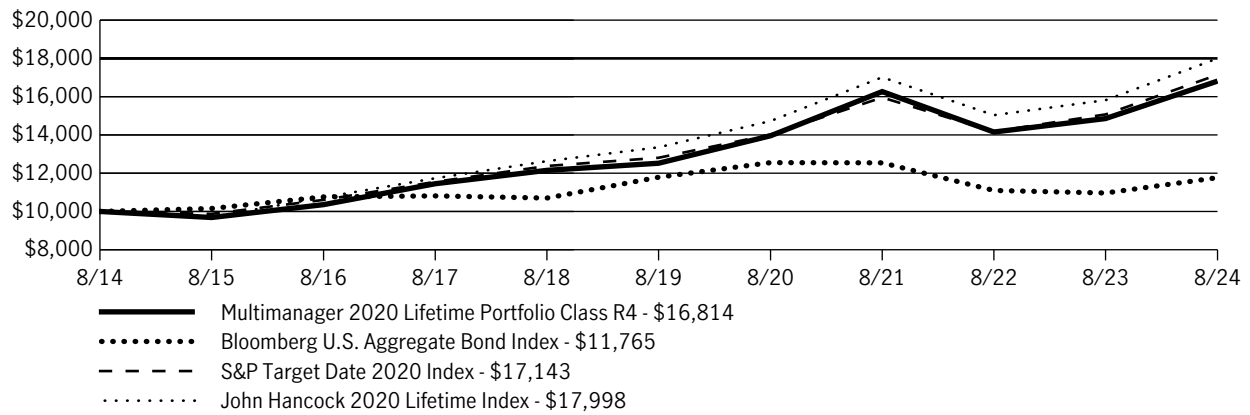
**The absolute return portfolio** | This portion of the fund, which is intended to provide an alternative source of return with lower sensitivity to the performance of the broader financial markets, posted a small loss.

The views expressed in this report are exclusively those of the portfolio management team at Manulife Investment Management (US) LLC, and are subject to change. They are not meant as investment advice.

## Fund Performance

The following graph compares the initial and subsequent account values at the end of each of the most recently completed 10 fiscal years of the fund (or for the life of the fund, if shorter). It assumes a \$10,000 initial investment in the fund and in an appropriate, broad-based securities market index for the same period.

### GROWTH OF \$10,000



AVERAGE ANNUAL TOTAL RETURN	1 Year	5 Years	10 Years
Multimanager 2020 Lifetime Portfolio (Class R4/JLDGX)	13.18%	6.07%	5.33%
Bloomberg U.S. Aggregate Bond Index	7.30%	(0.04)%	1.64%
S&P Target Date 2020 Index	13.74%	6.01%	5.54%
John Hancock 2020 Lifetime Index	13.79%	6.15%	6.05%

*The Fund has designated Bloomberg U.S. Aggregate Bond Index as its broad-based securities market index in accordance with the revised definition for such an index.*

**Performance figures assume all distributions have been reinvested and reflect the beneficial effect of any expense reductions. Past performance does not guarantee future results. The return and principal value of an investment will fluctuate so that shares, when redeemed, may be worth more or less than their original cost. Due to market volatility and other factors, the fund's current performance may be higher or lower than the performance shown and can be found at [jhinvestments.com/investments](http://jhinvestments.com/investments) or by calling 800-225-5291. The graph and table do not reflect the deduction of taxes that a shareholder would pay on fund distributions or redemption of fund shares. It is not possible to invest directly in an index.**

### Fund Statistics

Fund net assets	\$438,531,059
Total number of portfolio holdings	49
Total advisory fees paid (net)	\$0
Portfolio turnover rate	19%

## Graphical Representation of Holdings

The table below shows the investment makeup of the fund, representing percentage of the total net assets of the fund.

### ASSET ALLOCATION

<b>Affiliated investment companies</b>	<b>90.4%</b>
<b>Equity</b>	<b>35.3%</b>
International equity	14.0%
Large blend	8.9%
U.S. large cap	7.6%
U.S. mid cap	2.7%
Emerging-market equity	1.0%
Sector equity	0.6%
U.S. small cap	0.5%
<b>Fixed income</b>	<b>46.6%</b>
Intermediate bond	23.9%
Short-term bond	7.2%
Multi-sector bond	4.7%
Emerging-market debt	4.7%
High yield bond	3.4%
Bank loan	2.7%
<b>Alternative and specialty</b>	<b>8.5%</b>
Sector equity	7.5%
Absolute return	1.0%
<b>Unaffiliated investment companies</b>	<b>2.3%</b>
Equity	2.3%
<b>U.S. Government</b>	<b>7.1%</b>
<b>Short-term investments and other</b>	<b>0.2%</b>

Holdings may not have been held by the fund for the entire period and are subject to change without notice. Portfolio composition is subject to review in accordance with the fund's investment strategy and may vary in the future. Current and future portfolio holdings are subject to risk and may change at any time.

*The fund is subject to various risks as described in the fund's prospectuses. For more information, please refer to the "Principal risks" section of the prospectuses.*

## Availability of Additional Information



At [jhinvestments.com/documents](https://jhinvestments.com/documents), you can find additional information about the fund, including the fund's:

- Prospectus
- Financial information
- Fund holdings
- Proxy voting information

You can also request this information by contacting us at 800-225-5291.

**This report is for the information of the shareholders in this fund. It is not authorized for distribution to prospective investors unless preceded or accompanied by the fund's prospectus.**

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