

Semiannual report

John Hancock Disciplined Value International Fund

International equity

April 30, 2023

A message to shareholders



Dear shareholders,

The world equity markets performed well during the six months ended April 30, 2023, as stocks climbed to recapture a healthy portion of the ground they had lost over the first nine months of 2022. Investors were primarily encouraged by the shifting tone of central banks' communications surrounding interest-rate policy. Whereas the extent and duration of rate increases appeared largely open-ended for much of last year, by late 2022 the markets had grown more confident that the U.S. Federal Reserve and other developed market central banks would soon shift to a neutral policy.

Stocks were also well supported by the fact that global economic growth—while slowing—remained in positive territory. Growth stocks performed particularly well in this environment, as the prospect of a peak in rates prompted investors to rotate back into the types of faster-growing companies that had lagged considerably for most of last year. Europe was a top performer at the regional level, as the economy held up much better than investors had anticipated in the wake of the ongoing conflict between Russia and Ukraine.

In these uncertain times, your financial professional can assist with positioning your portfolio so that it's sufficiently diversified to help meet your long-term objectives and to withstand the inevitable bouts of market volatility along the way.

On behalf of everyone at John Hancock Investment Management, I'd like to take this opportunity to welcome new shareholders and thank existing shareholders for the continued trust you've placed in us.

Sincerely,

A handwritten signature in black ink that reads "Andrew Arnott". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

Andrew G. Arnott

Global Head of Retail,
Manulife Investment Management

President and CEO,
John Hancock Investment Management
Head of Wealth and Asset Management,
United States and Europe

This commentary reflects the CEO's views as of this report's period end and are subject to change at any time. Diversification does not guarantee investment returns and does not eliminate risk of loss. All investments entail risks, including the possible loss of principal. For more up-to-date information, you can visit our website at jhinvestments.com.

John Hancock

Disciplined Value International Fund

Table of contents

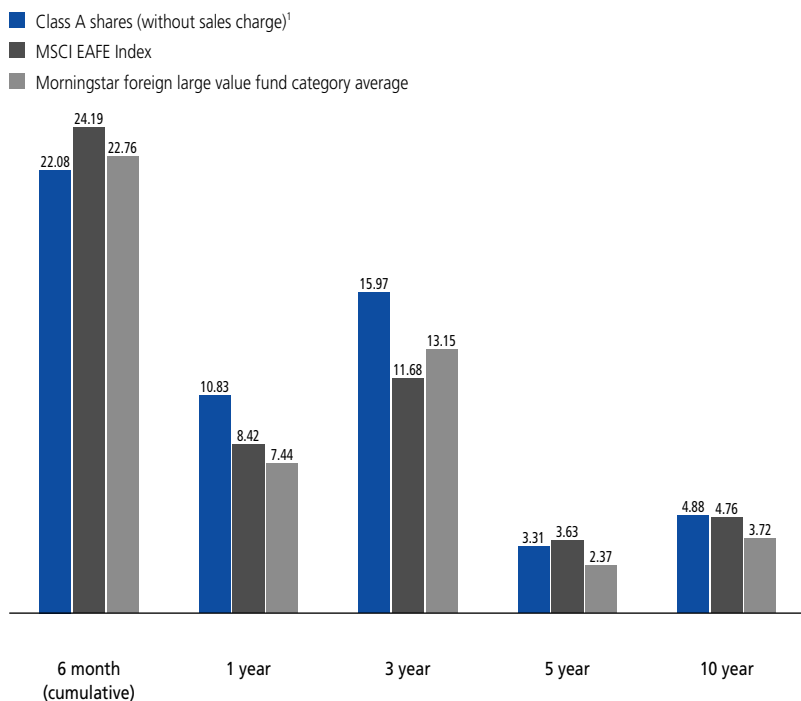
- 2** Your fund at a glance
- 3** Portfolio summary
- 5** Your expenses
- 7** Fund’s investments
- 11** Financial statements
- 15** Financial highlights
- 22** Notes to financial statements
- 32** Statement regarding liquidity risk management
- 34** More information

Your fund at a glance

INVESTMENT OBJECTIVE

The fund seeks long-term capital growth.

AVERAGE ANNUAL TOTAL RETURNS AS OF 4/30/2023 (%)



The MSCI Europe, Australasia, and Far East (EAFE) Index tracks the performance of publicly traded large- and mid-cap stocks of companies in those regions.

It is not possible to invest directly in an index. Index figures do not reflect expenses or sales charges, which would result in lower returns.

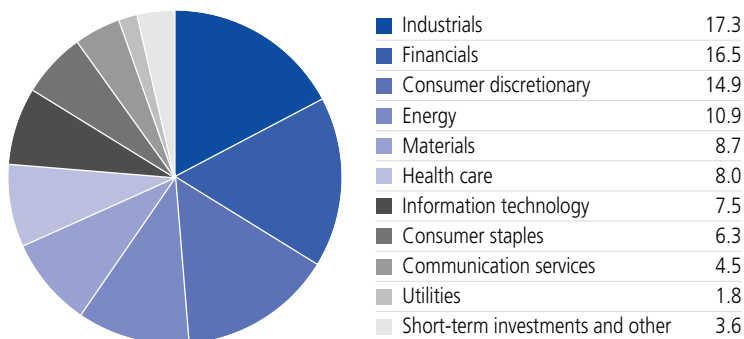
The fund's Morningstar category average is a group of funds with similar investment objectives and strategies and is the equal-weighted return of all funds per category. Morningstar places funds in certain categories based on their historical portfolio holdings. Figures from Morningstar, Inc. include reinvested distributions and do not take into account sales charges. Actual load-adjusted performance is lower.

¹The fund is the successor to Robeco Boston Partners International Equity Fund (predecessor fund) and Class A shares were first offered on 9-29-14. Returns prior to this date are those of the predecessor fund's institutional class shares, that have not been adjusted for class-specific expenses; otherwise, returns would vary.

The past performance shown here reflects reinvested distributions and the beneficial effect of any expense reductions, and does not guarantee future results. Performance of the other share classes will vary based on the difference in the fees and expenses of those classes. Shares will fluctuate in value and, when redeemed, may be worth more or less than their original cost. Current month-end performance may be lower or higher than the performance cited, and can be found at jhinvestments.com or by calling 800-225-5291. For further information on the fund's objectives, risks, and strategy, see the fund's prospectus.

Portfolio summary

SECTOR COMPOSITION AS OF 4/30/2023 (% of net assets)



TOP 10 HOLDINGS AS OF 4/30/2023 (% of net assets)

AstraZeneca PLC	3.1
Renesas Electronics Corp.	2.7
Booking Holdings, Inc.	2.4
STMicroelectronics NV	2.2
TotalEnergies SE	2.2
Suncor Energy, Inc.	2.1
Teck Resources, Ltd., Class B	2.0
Sanofi	2.0
Alibaba Group Holding, Ltd.	2.0
Siemens AG	1.9
TOTAL	22.6

Cash and cash equivalents are not included.

TOP 10 COUNTRIES AS OF 4/30/2023 (% of net assets)

United Kingdom	19.1
Japan	15.7
France	10.0
Canada	9.4
Switzerland	8.5
Germany	6.7
Netherlands	5.2
United States	3.5
Ireland	3.4
Singapore	2.4
TOTAL	83.9

Cash and cash equivalents are not included.

Notes about risk

The fund is subject to various risks as described in the fund's prospectus. Political tensions and armed conflicts, including the Russian invasion of Ukraine, and any resulting economic sanctions on entities and/or individuals of a particular country could lead such a country into an economic recession. The COVID-19 disease has resulted in significant disruptions to global business activity. A widespread health crisis such as a global pandemic could cause substantial market volatility, exchange-trading suspensions, and closures, which may lead to less liquidity in certain instruments, industries, sectors, or the markets, generally, and may ultimately affect fund performance. For more information, please refer to the "Principal risks" section of the prospectus.

Your expenses

These examples are intended to help you understand your ongoing operating expenses of investing in the fund so you can compare these costs with the ongoing costs of investing in other mutual funds.

Understanding fund expenses

As a shareholder of the fund, you incur two types of costs:

- **Transaction costs**, which include sales charges (loads) on purchases or redemptions (varies by share class), minimum account fee charge, etc.
- **Ongoing operating expenses**, including management fees, distribution and service fees (if applicable), and other fund expenses.

We are presenting only your ongoing operating expenses here.

Actual expenses/actual returns

The first line of each share class in the table on the following page is intended to provide information about the fund's actual ongoing operating expenses, and is based on the fund's actual return. It assumes an account value of \$1,000.00 on November 1, 2022, with the same investment held until April 30, 2023.

Together with the value of your account, you may use this information to estimate the operating expenses that you paid over the period. Simply divide your account value at April 30, 2023, by \$1,000.00, then multiply it by the "expenses paid" for your share class from the table. For example, for an account value of \$8,600.00, the operating expenses should be calculated as follows:

Example

$$\left[\frac{\text{My account value}}{\$8,600.00} / \$1,000.00 = 8.6 \right] \times \$ \left[\begin{array}{c} \text{"expenses paid"} \\ \text{from table} \end{array} \right] = \text{My actual expenses}$$

Hypothetical example for comparison purposes

The second line of each share class in the table on the following page allows you to compare the fund's ongoing operating expenses with those of any other fund. It provides an example of the fund's hypothetical account values and hypothetical expenses based on each class's actual expense ratio and an assumed 5% annualized return before expenses (which is not the class's actual return). It assumes an account value of \$1,000.00 on November 1, 2022, with the same investment held until April 30, 2023. Look in any other fund shareholder report to find its hypothetical example and you will be able to compare these expenses. Please remember that these hypothetical account values and expenses may not be used to estimate the actual ending account balance or expenses you paid for the period.

Remember, these examples do not include any transaction costs, therefore, these examples will not help you to determine the relative total costs of owning different funds. If transaction costs were included, your expenses would have been higher. See the prospectuses for details regarding transaction costs.

SHAREHOLDER EXPENSE EXAMPLE CHART

		Account value on 11-1-2022	Ending value on 4-30-2023	Expenses paid during period ended 4-30-2023 ¹	Annualized expense ratio
Class A	Actual expenses/actual returns	\$1,000.00	\$1,220.80	\$ 6.50	1.18%
	Hypothetical example	1,000.00	1,018.90	5.91	1.18%
Class C	Actual expenses/actual returns	1,000.00	1,216.20	10.61	1.93%
	Hypothetical example	1,000.00	1,015.20	9.64	1.93%
Class I	Actual expenses/actual returns	1,000.00	1,222.50	5.12	0.93%
	Hypothetical example	1,000.00	1,020.20	4.66	0.93%
Class R2	Actual expenses/actual returns	1,000.00	1,220.50	7.21	1.31%
	Hypothetical example	1,000.00	1,018.30	6.56	1.31%
Class R4	Actual expenses/actual returns	1,000.00	1,221.90	5.95	1.08%
	Hypothetical example	1,000.00	1,019.40	5.41	1.08%
Class R6	Actual expenses/actual returns	1,000.00	1,222.70	4.57	0.83%
	Hypothetical example	1,000.00	1,020.70	4.16	0.83%
Class NAV	Actual expenses/actual returns	1,000.00	1,223.00	4.52	0.82%
	Hypothetical example	1,000.00	1,020.70	4.11	0.82%

¹ Expenses are equal to the annualized expense ratio, multiplied by the average account value over the period, multiplied by 181/365 (to reflect the one-half year period).

Fund's investments

AS OF 4-30-23 (unaudited)

	Shares	Value
Common stocks 96.4%		\$2,370,227,596
(Cost \$2,126,649,299)		
Austria 1.0%		23,407,587
ANDRITZ AG	360,416	23,407,587
Belgium 0.3%		8,440,893
Azelis Group NV	355,787	8,440,893
Bermuda 1.7%		41,414,436
Everest Re Group, Ltd.	109,562	41,414,436
Brazil 0.9%		21,277,904
Banco do Brasil SA	2,476,200	21,277,904
Canada 9.4%		231,667,602
Canadian Natural Resources, Ltd.	655,245	39,928,425
Cenovus Energy, Inc.	2,631,772	44,172,045
Kinross Gold Corp.	4,728,308	23,836,103
MEG Energy Corp. (A)	1,318,883	21,961,103
Suncor Energy, Inc.	1,627,701	50,962,894
Teck Resources, Ltd., Class B (B)	1,090,729	50,807,032
China 2.0%		47,973,602
Alibaba Group Holding, Ltd. (A)	4,537,100	47,973,602
Finland 1.0%		24,535,716
Metso Outotec OYJ	880,001	9,715,885
Nordea Bank ABP	1,334,006	14,819,831
France 10.0%		246,674,152
Airbus SE	173,559	24,304,360
AXA SA	755,905	24,672,960
Capgemini SE	87,523	15,960,519
Imerys SA	502,875	20,672,483
Kering SA	33,531	21,472,226
Rexel SA (A)	991,037	22,956,081
Sanofi	451,781	48,687,831
SPIE SA	465,747	14,537,429
TotalEnergies SE	835,839	53,410,263
Germany 6.7%		165,983,051
Allianz SE	96,413	24,210,055
Brenntag SE	254,188	20,717,584
Commerzbank AG (A)	2,784,426	30,943,756
Daimler Truck Holding AG (A)	596,262	19,702,344
Deutsche Telekom AG	615,368	14,837,664
Rheinmetall AG	32,367	9,480,097

	Shares	Value
Germany (continued)		
Siemens AG	279,626	\$46,091,551
Greece 0.6%		14,301,002
Hellenic Telecommunications Organization SA	978,734	14,301,002
India 1.5%		36,444,814
HDFC Bank, Ltd., ADR	522,132	36,444,814
Ireland 3.4%		83,318,199
CRH PLC	642,458	31,179,330
Flutter Entertainment PLC (A)	53,716	10,764,616
Ryanair Holdings PLC (A)	2,523,063	41,374,253
Japan 15.7%		386,961,619
Asahi Group Holdings, Ltd.	1,158,600	44,761,469
Chugai Pharmaceutical Company, Ltd.	555,900	14,345,367
Fuji Corp. (Aichi)	726,800	12,190,735
Honda Motor Company, Ltd.	469,100	12,441,953
Idemitsu Kosan Company, Ltd.	493,900	10,516,634
IHI Corp.	1,303,200	32,838,183
KDDI Corp.	1,355,500	42,316,181
Komatsu, Ltd.	1,599,000	39,766,924
Mitsubishi Heavy Industries, Ltd.	441,500	16,741,789
Renesas Electronics Corp. (A)	5,163,100	67,287,838
Sony Group Corp.	484,600	43,843,578
Subaru Corp.	1,117,900	18,246,161
Sumitomo Mitsui Financial Group, Inc.	774,700	31,664,807
Netherlands 5.2%		126,997,073
Aalberts NV	447,037	20,646,748
ING Groep NV	2,715,667	33,680,599
Koninklijke Ahold Delhaize NV	775,256	26,657,016
Stellantis NV (B)	2,777,074	46,012,710
Norway 0.5%		11,120,136
Norsk Hydro ASA	1,511,080	11,120,136
Singapore 2.4%		59,461,644
Genting Singapore, Ltd.	20,777,500	17,675,959
United Overseas Bank, Ltd.	1,967,500	41,785,685
South Korea 1.7%		41,068,207
Hana Financial Group, Inc.	334,568	10,513,350
Samsung Electronics Company, Ltd.	620,982	30,554,857
Spain 0.9%		22,592,609
Banco Bilbao Vizcaya Argentaria SA (B)	3,085,994	22,592,609

	Shares	Value
Sweden 0.4%		\$10,765,039
Svenska Handelsbanken AB, A Shares	1,217,794	10,765,039
Switzerland 8.5%		208,253,055
Glencore PLC	7,767,219	45,847,230
Novartis AG	430,124	43,999,058
STMicroelectronics NV	1,251,423	53,532,419
Swiss Re AG	211,462	21,295,051
The Swatch Group AG, Bearer Shares	67,071	23,009,548
UBS Group AG	1,010,671	20,569,749
United Kingdom 19.1%		470,589,466
AstraZeneca PLC	515,046	75,796,012
BAE Systems PLC	2,966,739	37,796,359
Coca-Cola Europacific Partners PLC	680,667	43,882,601
CVS Group PLC	423,828	11,295,326
Endeavour Mining PLC	776,390	19,987,809
Ferroglobe PLC (A)	2,337,308	9,442,724
Future PLC	1,092,511	15,502,622
IMI PLC	1,336,168	26,808,775
Inchcape PLC	1,275,127	12,981,426
Informa PLC	2,568,039	23,346,339
JD Sports Fashion PLC	13,578,933	27,559,464
NatWest Group PLC	6,139,912	20,225,561
Nomad Foods, Ltd. (A)	956,589	17,983,873
Shell PLC	1,178,764	36,221,410
SSE PLC	1,867,430	43,087,701
Tesco PLC	6,487,377	22,935,908
WH Smith PLC	1,297,406	25,735,556
United States 3.5%		86,979,790
Applied Materials, Inc.	151,615	17,137,043
Booking Holdings, Inc. (A)	22,597	60,702,547
Ovintiv, Inc.	252,933	9,140,200
	Yield (%)	Shares
Short-term investments 4.6%		\$113,147,828
(Cost \$113,144,996)		
Short-term funds 4.6%		113,147,828
Fidelity Government Portfolio, Institutional Class	4.7700(C)	69,919,254
John Hancock Collateral Trust (D)	4.9058(C)	4,324,111
Total investments (Cost \$2,239,794,295) 101.0%		\$2,483,375,424
Other assets and liabilities, net (1.0%)		(24,189,380)
Total net assets 100.0%		\$2,459,186,044

The percentage shown for each investment category is the total value of the category as a percentage of the net assets of the fund.

Security Abbreviations and Legend

ADR American Depositary Receipt

(A) Non-income producing security.

(B) All or a portion of this security is on loan as of 4-30-23.

(C) The rate shown is the annualized seven-day yield as of 4-30-23.

(D) Investment is an affiliate of the fund, the advisor and/or subadvisor. This security represents the investment of cash collateral received for securities lending.

At 4-30-23, the aggregate cost of investments for federal income tax purposes was \$2,264,646,265. Net unrealized appreciation aggregated to \$218,729,159, of which \$251,800,911 related to gross unrealized appreciation and \$33,071,752 related to gross unrealized depreciation.

Financial statements

STATEMENT OF ASSETS AND LIABILITIES 4-30-23 (unaudited)

Assets	
Unaffiliated investments, at value (Cost \$2,196,568,553) including \$42,121,601 of securities loaned	\$2,440,146,850
Affiliated investments, at value (Cost \$43,225,742)	43,228,574
Total investments, at value (Cost \$2,239,794,295)	2,483,375,424
Cash	2,409,148
Foreign currency, at value (Cost \$3,325,292)	3,327,227
Dividends and interest receivable	16,527,806
Receivable for fund shares sold	5,421,549
Receivable for investments sold	7,325,864
Receivable for securities lending income	41,721
Other assets	290,534
Total assets	2,518,719,273
Liabilities	
Payable for investments purchased	12,278,536
Payable for fund shares repurchased	3,530,671
Payable upon return of securities loaned	43,245,282
Payable to affiliates	
Accounting and legal services fees	144,816
Transfer agent fees	53,254
Distribution and service fees	515
Trustees' fees	724
Other liabilities and accrued expenses	279,431
Total liabilities	59,533,229
Net assets	\$2,459,186,044
Net assets consist of	
Paid-in capital	\$2,392,049,984
Total distributable earnings (loss)	67,136,060
Net assets	\$2,459,186,044

STATEMENT OF ASSETS AND LIABILITIES 4-30-23 (unaudited) (continued)

Net asset value per share

Based on net asset value and shares outstanding - the fund has an unlimited number of shares authorized with no par value

Class A (\$134,107,849 ÷ 9,275,656 shares) ¹	\$14.46
Class C (\$5,785,531 ÷ 400,999 shares) ¹	\$14.43
Class I (\$411,439,477 ÷ 28,415,533 shares)	\$14.48
Class R2 (\$5,639,649 ÷ 389,272 shares)	\$14.49
Class R4 (\$187,045 ÷ 12,929 shares)	\$14.47
Class R6 (\$507,908,336 ÷ 35,080,740 shares)	\$14.48
Class NAV (\$1,394,118,157 ÷ 96,323,913 shares)	\$14.47

Maximum offering price per share

Class A (net asset value per share ÷ 95%) ²	\$15.22
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¹ Redemption price per share is equal to net asset value less any applicable contingent deferred sales charge.

² On single retail sales of less than \$50,000. On sales of \$50,000 or more and on group sales the offering price is reduced.

STATEMENT OF OPERATIONS For the six months ended 4-30-23 (unaudited)

Investment income	
Dividends	\$36,509,205
Interest	1,682,611
Securities lending	216,356
Less foreign taxes withheld	(4,209,890)
Total investment income	34,198,282
Expenses	
Investment management fees	8,552,313
Distribution and service fees	194,865
Accounting and legal services fees	220,823
Transfer agent fees	267,485
Trustees' fees	25,864
Custodian fees	276,624
State registration fees	93,398
Printing and postage	28,610
Professional fees	62,543
Other	44,394
Total expenses	9,766,919
Less expense reductions	(80,989)
Net expenses	9,685,930
Net investment income	24,512,352
Realized and unrealized gain (loss)	
Net realized gain (loss) on	
Unaffiliated investments and foreign currency transactions	72,351,866
Affiliated investments	(9,148)
	72,342,718
Change in net unrealized appreciation (depreciation) of	
Unaffiliated investments and translation of assets and liabilities in foreign currencies	332,799,629
Affiliated investments	2,832
	332,802,461
Net realized and unrealized gain	405,145,179
Increase in net assets from operations	\$429,657,531

STATEMENTS OF CHANGES IN NET ASSETS

	Six months ended 4-30-23 (unaudited)	Year ended 10-31-22
Increase (decrease) in net assets		
From operations		
Net investment income	\$24,512,352	\$46,870,104
Net realized gain	72,342,718	18,241,874
Change in net unrealized appreciation (depreciation)	332,802,461	(352,820,875)
Increase (decrease) in net assets resulting from operations	429,657,531	(287,708,897)
Distributions to shareholders		
From earnings		
Class A	(2,524,753)	(3,567,029)
Class C	(80,076)	(147,560)
Class I	(6,358,018)	(2,232,886)
Class R2	(120,448)	(21,948)
Class R4	(3,871)	(5,774)
Class R6	(10,877,291)	(12,677,795)
Class NAV	(33,875,441)	(55,772,157)
Total distributions	(53,839,898)	(74,425,149)
From fund share transactions	187,638,894	26,525,490
Total increase (decrease)	563,456,527	(335,608,556)
Net assets		
Beginning of period	1,895,729,517	2,231,338,073
End of period	\$2,459,186,044	\$1,895,729,517

Financial highlights

CLASS A SHARES Period ended	4-30-23 ¹	10-31-22	10-31-21	10-31-20	10-31-19	10-31-18
Per share operating performance						
Net asset value, beginning of period	\$12.11	\$14.54	\$10.57	\$12.21	\$12.42	\$14.28
Net investment income ²	0.13	0.26	0.33	0.16	0.25	0.20
Net realized and unrealized gain (loss) on investments	2.51	(2.25)	3.80	(1.53)	— ³	(1.71)
Total from investment operations	2.64	(1.99)	4.13	(1.37)	0.25	(1.51)
Less distributions						
From net investment income	(0.23)	(0.44)	(0.16)	(0.27)	(0.14)	(0.11)
From net realized gain	(0.06)	—	—	—	(0.32)	(0.24)
Total distributions	(0.29)	(0.44)	(0.16)	(0.27)	(0.46)	(0.35)
Net asset value, end of period	\$14.46	\$12.11	\$14.54	\$10.57	\$12.21	\$12.42
Total return (%)^{4,5}	22.08⁶	(14.05)	39.23	(11.53)	2.34	(10.87)
Ratios and supplemental data						
Net assets, end of period (in millions)	\$134	\$105	\$118	\$91	\$114	\$124
Ratios (as a percentage of average net assets):						
Expenses before reductions	1.19 ⁷	1.20	1.20	1.23	1.28	1.31
Expenses including reductions	1.18 ⁷	1.19	1.19	1.23	1.27	1.29
Net investment income	1.85 ⁷	1.95	2.35	1.42	2.13	1.41
Portfolio turnover (%)	38	70	76	99 ⁸	96	95

¹ Six months ended 4-30-23. Unaudited.

² Based on average daily shares outstanding.

³ Less than \$0.005 per share.

⁴ Total returns would have been lower had certain expenses not been reduced during the applicable periods.

⁵ Does not reflect the effect of sales charges, if any.

⁶ Not annualized.

⁷ Annualized.

⁸ Excludes merger activity.

CLASS C SHARES Period ended	4-30-23¹	10-31-22	10-31-21	10-31-20	10-31-19	10-31-18
Per share operating performance						
Net asset value, beginning of period	\$12.04	\$14.45	\$10.51	\$12.16	\$12.35	\$14.21
Net investment income ²	0.07	0.16	0.22	0.07	0.17	0.10
Net realized and unrealized gain (loss) on investments	2.51	(2.24)	3.79	(1.54)	— ³	(1.71)
Total from investment operations	2.58	(2.08)	4.01	(1.47)	0.17	(1.61)
Less distributions						
From net investment income	(0.13)	(0.33)	(0.07)	(0.18)	(0.04)	(0.01)
From net realized gain	(0.06)	—	—	—	(0.32)	(0.24)
Total distributions	(0.19)	(0.33)	(0.07)	(0.18)	(0.36)	(0.25)
Net asset value, end of period	\$14.43	\$12.04	\$14.45	\$10.51	\$12.16	\$12.35
Total return (%)^{4,5}	21.62⁶	(14.67)	38.27	(12.30)	1.67	(11.52)
Ratios and supplemental data						
Net assets, end of period (in millions)	\$6	\$5	\$6	\$6	\$11	\$14
Ratios (as a percentage of average net assets):						
Expenses before reductions	1.94 ⁷	1.95	1.95	1.98	2.00	2.01
Expenses including reductions	1.93 ⁷	1.94	1.94	1.98	1.99	1.99
Net investment income	1.02 ⁷	1.22	1.58	0.63	1.44	0.71
Portfolio turnover (%)	38	70	76	99 ⁸	96	95

¹ Six months ended 4-30-23. Unaudited.

² Based on average daily shares outstanding.

³ Less than \$0.005 per share.

⁴ Total returns would have been lower had certain expenses not been reduced during the applicable periods.

⁵ Does not reflect the effect of sales charges, if any.

⁶ Not annualized.

⁷ Annualized.

⁸ Excludes merger activity.

CLASS I SHARES Period ended	4-30-23¹	10-31-22	10-31-21	10-31-20	10-31-19	10-31-18
Per share operating performance						
Net asset value, beginning of period	\$12.14	\$14.58	\$10.59	\$12.24	\$12.45	\$14.32
Net investment income ²	0.17	0.28	0.36	0.19	0.27	0.24
Net realized and unrealized gain (loss) on investments	2.50	(2.25)	3.81	(1.54)	0.02	(1.72)
Total from investment operations	2.67	(1.97)	4.17	(1.35)	0.29	(1.48)
Less distributions						
From net investment income	(0.27)	(0.47)	(0.18)	(0.30)	(0.18)	(0.15)
From net realized gain	(0.06)	—	—	—	(0.32)	(0.24)
Total distributions	(0.33)	(0.47)	(0.18)	(0.30)	(0.50)	(0.39)
Net asset value, end of period	\$14.48	\$12.14	\$14.58	\$10.59	\$12.24	\$12.45
Total return (%)³	22.25⁴	(13.79)	39.55	(11.36)	2.73	(10.65)
Ratios and supplemental data						
Net assets, end of period (in millions)	\$411	\$112	\$69	\$42	\$88	\$303
Ratios (as a percentage of average net assets):						
Expenses before reductions	0.94 ⁵	0.95	0.95	0.98	1.01	1.02
Expenses including reductions	0.93 ⁵	0.94	0.94	0.98	0.98	0.98
Net investment income	2.46 ⁵	2.13	2.57	1.62	2.22	1.75
Portfolio turnover (%)	38	70	76	99 ⁶	96	95

¹ Six months ended 4-30-23. Unaudited.

² Based on average daily shares outstanding.

³ Total returns would have been lower had certain expenses not been reduced during the applicable periods.

⁴ Not annualized.

⁵ Annualized.

⁶ Excludes merger activity.

CLASS R2 SHARES Period ended	4-30-23¹	10-31-22	10-31-21	10-31-20	10-31-19	10-31-18
Per share operating performance						
Net asset value, beginning of period	\$12.12	\$14.55	\$10.58	\$12.22	\$12.42	\$14.29
Net investment income ²	0.11	0.09	0.31	0.15	0.24	0.20
Net realized and unrealized gain (loss) on investments	2.53	(2.10)	3.80	(1.53)	0.01	(1.73)
Total from investment operations	2.64	(2.01)	4.11	(1.38)	0.25	(1.53)
Less distributions						
From net investment income	(0.21)	(0.42)	(0.14)	(0.26)	(0.13)	(0.10)
From net realized gain	(0.06)	—	—	—	(0.32)	(0.24)
Total distributions	(0.27)	(0.42)	(0.14)	(0.26)	(0.45)	(0.34)
Net asset value, end of period	\$14.49	\$12.12	\$14.55	\$10.58	\$12.22	\$12.42
Total return (%)³	22.05⁴	(14.12)	39.06	(11.61)	2.32	(11.01)
Ratios and supplemental data						
Net assets, end of period (in millions)	\$6	\$5	\$1	\$1	\$1	\$3
Ratios (as a percentage of average net assets):						
Expenses before reductions	1.31 ⁵	1.33	1.29	1.32	1.35	1.41
Expenses including reductions	1.31 ⁵	1.32	1.28	1.32	1.34	1.39
Net investment income	1.61 ⁵	0.71	2.26	1.30	1.98	1.39
Portfolio turnover (%)	38	70	76	99 ⁶	96	95

¹ Six months ended 4-30-23. Unaudited.

² Based on average daily shares outstanding.

³ Total returns would have been lower had certain expenses not been reduced during the applicable periods.

⁴ Not annualized.

⁵ Annualized.

⁶ Excludes merger activity.

CLASS R4 SHARES Period ended	4-30-23¹	10-31-22	10-31-21	10-31-20	10-31-19	10-31-18
Per share operating performance						
Net asset value, beginning of period	\$12.12	\$14.55	\$10.58	\$12.22	\$12.44	\$14.30
Net investment income ²	0.13	0.27	0.34	0.18	0.22	0.20
Net realized and unrealized gain (loss) on investments	2.53	(2.25)	3.80	(1.54)	0.04	(1.69)
Total from investment operations	2.66	(1.98)	4.14	(1.36)	0.26	(1.49)
Less distributions						
From net investment income	(0.25)	(0.45)	(0.17)	(0.28)	(0.16)	(0.13)
From net realized gain	(0.06)	—	—	—	(0.32)	(0.24)
Total distributions	(0.31)	(0.45)	(0.17)	(0.28)	(0.48)	(0.37)
Net asset value, end of period	\$14.47	\$12.12	\$14.55	\$10.58	\$12.22	\$12.44
Total return (%)³	22.19⁴	(13.94)	39.33	(11.44)	2.45	(10.70)
Ratios and supplemental data						
Net assets, end of period (in millions)	\$— ⁵	\$— ⁵	\$— ⁵	\$— ⁵	\$— ⁵	\$— ⁵
Ratios (as a percentage of average net assets):						
Expenses before reductions	1.19 ⁶	1.20	1.20	1.21	1.25	1.25
Expenses including reductions	1.08 ⁶	1.09	1.09	1.11	1.14	1.13
Net investment income	1.91 ⁶	2.03	2.45	1.68	1.84	1.42
Portfolio turnover (%)	38	70	76	99 ⁷	96	95

¹ Six months ended 4-30-23. Unaudited.

² Based on average daily shares outstanding.

³ Total returns would have been lower had certain expenses not been reduced during the applicable periods.

⁴ Not annualized.

⁵ Less than \$500,000.

⁶ Annualized.

⁷ Excludes merger activity.

CLASS R6 SHARES Period ended	4-30-23¹	10-31-22	10-31-21	10-31-20	10-31-19	10-31-18
Per share operating performance						
Net asset value, beginning of period	\$12.15	\$14.58	\$10.59	\$12.24	\$12.46	\$14.32
Net investment income ²	0.15	0.30	0.38	0.20	0.31	0.26
Net realized and unrealized gain (loss) on investments	2.52	(2.24)	3.81	(1.54)	(0.01)	(1.71)
Total from investment operations	2.67	(1.94)	4.19	(1.34)	0.30	(1.45)
Less distributions						
From net investment income	(0.28)	(0.49)	(0.20)	(0.31)	(0.20)	(0.17)
From net realized gain	(0.06)	—	—	—	(0.32)	(0.24)
Total distributions	(0.34)	(0.49)	(0.20)	(0.31)	(0.52)	(0.41)
Net asset value, end of period	\$14.48	\$12.15	\$14.58	\$10.59	\$12.24	\$12.46
Total return (%)³	22.27⁴	(13.68)	39.77	(11.28)	2.77	(10.50)
Ratios and supplemental data						
Net assets, end of period (in millions)	\$508	\$391	\$382	\$287	\$186	\$219
Ratios (as a percentage of average net assets):						
Expenses before reductions	0.84 ⁵	0.85	0.85	0.87	0.89	0.92
Expenses including reductions	0.83 ⁵	0.84	0.84	0.86	0.88	0.88
Net investment income	2.22 ⁵	2.27	2.74	1.86	2.57	1.90
Portfolio turnover (%)	38	70	76	99 ⁶	96	95

¹ Six months ended 4-30-23. Unaudited.

² Based on average daily shares outstanding.

³ Total returns would have been lower had certain expenses not been reduced during the applicable periods.

⁴ Not annualized.

⁵ Annualized.

⁶ Excludes merger activity.

CLASS NAV SHARES Period ended	4-30-23¹	10-31-22	10-31-21	10-31-20	10-31-19	10-31-18
Per share operating performance						
Net asset value, beginning of period	\$12.14	\$14.58	\$10.59	\$12.24	\$12.46	\$14.32
Net investment income ²	0.15	0.31	0.38	0.20	0.32	0.23
Net realized and unrealized gain (loss) on investments	2.52	(2.26)	3.81	(1.54)	(0.02)	(1.69)
Total from investment operations	2.67	(1.95)	4.19	(1.34)	0.30	(1.46)
Less distributions						
From net investment income	(0.28)	(0.49)	(0.20)	(0.31)	(0.20)	(0.16)
From net realized gain	(0.06)	—	—	—	(0.32)	(0.24)
Total distributions	(0.34)	(0.49)	(0.20)	(0.31)	(0.52)	(0.40)
Net asset value, end of period	\$14.47	\$12.14	\$14.58	\$10.59	\$12.24	\$12.46
Total return (%)³	22.30⁴	(13.75)	39.80	(11.28)	2.77	(10.43)
Ratios and supplemental data						
Net assets, end of period (in millions)	\$1,394	\$1,277	\$1,655	\$1,254	\$1,305	\$794
Ratios (as a percentage of average net assets):						
Expenses before reductions	0.83 ⁵	0.84	0.84	0.86	0.88	0.90
Expenses including reductions	0.82 ⁵	0.83	0.83	0.85	0.87	0.88
Net investment income	2.14 ⁵	2.34	2.73	1.82	2.73	1.71
Portfolio turnover (%)	38	70	76	99 ⁶	96	95

¹ Six months ended 4-30-23. Unaudited.

² Based on average daily shares outstanding.

³ Total returns would have been lower had certain expenses not been reduced during the applicable periods.

⁴ Not annualized.

⁵ Annualized.

⁶ Excludes merger activity.

Notes to financial statements (unaudited)

Note 1 — Organization

John Hancock Disciplined Value International Fund (the fund) is a series of John Hancock Investment Trust (the Trust), an open-end management investment company organized as a Massachusetts business trust and registered under the Investment Company Act of 1940, as amended (the 1940 Act). The investment objective of the fund is to seek long-term capital growth.

The fund may offer multiple classes of shares. The shares currently outstanding are detailed in the Statement of assets and liabilities. Class A and Class C shares are offered to all investors. Class I shares are offered to institutions and certain investors. Class R2 and Class R4 shares are available only to certain retirement and 529 plans. Class R6 shares are only available to certain retirement plans, institutions and other investors. Class NAV shares are offered to John Hancock affiliated funds of funds, retirement plans for employees of John Hancock and/or Manulife Financial Corporation, and certain 529 plans. Class C shares convert to Class A shares eight years after purchase (certain exclusions may apply). Shareholders of each class have exclusive voting rights to matters that affect that class. The distribution and service fees, if any, and transfer agent fees for each class may differ.

Note 2 — Significant accounting policies

The financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America (US GAAP), which require management to make certain estimates and assumptions as of the date of the financial statements. Actual results could differ from those estimates and those differences could be significant. The fund qualifies as an investment company under Topic 946 of Accounting Standards Codification of US GAAP.

Events or transactions occurring after the end of the fiscal period through the date that the financial statements were issued have been evaluated in the preparation of the financial statements. The following summarizes the significant accounting policies of the fund:

Security valuation. Investments are stated at value as of the scheduled close of regular trading on the New York Stock Exchange (NYSE), normally at 4:00 P.M., Eastern Time. In case of emergency or other disruption resulting in the NYSE not opening for trading or the NYSE closing at a time other than the regularly scheduled close, the net asset value (NAV) may be determined as of the regularly scheduled close of the NYSE pursuant to the Advisor's Valuation Policies and Procedures.

In order to value the securities, the fund uses the following valuation techniques: Equity securities, including exchange-traded or closed-end funds, are typically valued at the last sale price or official closing price on the exchange or principal market where the security trades. In the event there were no sales during the day or closing prices are not available, the securities are valued using the last available bid price. Investments by the fund in open-end mutual funds, including John Hancock Collateral Trust (JHCT), are valued at their respective NAVs each business day. Foreign securities and currencies are valued in U.S. dollars based on foreign currency exchange rates supplied by an independent pricing vendor.

In certain instances, the Pricing Committee of the Advisor may determine to value equity securities using prices obtained from another exchange or market if trading on the exchange or market on which prices are typically obtained did not open for trading as scheduled, or if trading closed earlier than scheduled, and trading occurred as normal on another exchange or market.

Other portfolio securities and assets, for which reliable market quotations are not readily available, are valued at fair value as determined in good faith by the Pricing Committee following procedures established by the Advisor and adopted by the Board of Trustees. The frequency with which these fair valuation procedures are used cannot be predicted and fair value of securities may differ significantly from the value that would have been used had a ready market for such securities existed. Trading in foreign securities may be completed before the scheduled daily close of trading on the NYSE. Significant events at the issuer or market level may affect the values of securities between the time when the valuation of the securities is generally determined and the close of the NYSE. If a significant event occurs, these securities may be fair valued, as determined in good faith by the Pricing Committee,

following procedures established by the Advisor and adopted by the Board of Trustees. The Advisor uses fair value adjustment factors provided by an independent pricing vendor to value certain foreign securities in order to adjust for events that may occur between the close of foreign exchanges or markets and the close of the NYSE.

The fund uses a three tier hierarchy to prioritize the pricing assumptions, referred to as inputs, used in valuation techniques to measure fair value. Level 1 includes securities valued using quoted prices in active markets for identical securities, including registered investment companies. Level 2 includes securities valued using other significant observable inputs. Observable inputs may include quoted prices for similar securities, interest rates, prepayment speeds and credit risk. Prices for securities valued using these inputs are received from independent pricing vendors and brokers and are based on an evaluation of the inputs described. Level 3 includes securities valued using significant unobservable inputs when market prices are not readily available or reliable, including the Advisor’s assumptions in determining the fair value of investments. Factors used in determining value may include market or issuer specific events or trends, changes in interest rates and credit quality. The inputs or methodology used for valuing securities are not necessarily an indication of the risks associated with investing in those securities. Changes in valuation techniques and related inputs may result in transfers into or out of an assigned level within the disclosure hierarchy.

The following is a summary of the values by input classification of the fund’s investments as of April 30, 2023, by major security category or type:

	Total value at 4-30-23	Level 1 quoted price	Level 2 significant observable inputs	Level 3 significant unobservable inputs
Investments in securities:				
Assets				
Common stocks				
Austria	\$23,407,587	—	\$23,407,587	—
Belgium	8,440,893	—	8,440,893	—
Bermuda	41,414,436	\$41,414,436	—	—
Brazil	21,277,904	21,277,904	—	—
Canada	231,667,602	231,667,602	—	—
China	47,973,602	—	47,973,602	—
Finland	24,535,716	—	24,535,716	—
France	246,674,152	—	246,674,152	—
Germany	165,983,051	—	165,983,051	—
Greece	14,301,002	—	14,301,002	—
India	36,444,814	36,444,814	—	—
Ireland	83,318,199	—	83,318,199	—
Japan	386,961,619	—	386,961,619	—
Netherlands	126,997,073	—	126,997,073	—
Norway	11,120,136	—	11,120,136	—
Singapore	59,461,644	—	59,461,644	—
South Korea	41,068,207	—	41,068,207	—
Spain	22,592,609	—	22,592,609	—
Sweden	10,765,039	—	10,765,039	—
Switzerland	208,253,055	—	208,253,055	—
United Kingdom	470,589,466	91,297,007	379,292,459	—
United States	86,979,790	86,979,790	—	—

	Total value at 4-30-23	Level 1 quoted price	Level 2 significant observable inputs	Level 3 significant unobservable inputs
Short-term investments	\$113,147,828	\$113,147,828	—	—
Total investments in securities	\$2,483,375,424	\$622,229,381	\$1,861,146,043	—

Security transactions and related investment income. Investment security transactions are accounted for on a trade date plus one basis for daily NAV calculations. However, for financial reporting purposes, investment transactions are reported on trade date. Interest income is accrued as earned. Dividend income is recorded on ex-date, except for dividends of certain foreign securities where the dividend may not be known until after the ex-date. In those cases, dividend income, net of withholding taxes, is recorded when the fund becomes aware of the dividends. Non-cash dividends, if any, are recorded at the fair market value of the securities received. Gains and losses on securities sold are determined on the basis of identified cost and may include proceeds from litigation.

Securities lending. The fund may lend its securities to earn additional income. The fund receives collateral from the borrower in an amount not less than the market value of the loaned securities. The fund may invest its cash collateral in JHCT, an affiliate of the fund, which has a floating NAV and is registered with the Securities and Exchange Commission (SEC) as an investment company. JHCT is a prime money market fund and invests in short-term money market investments. The fund will receive the benefit of any gains and bear any losses generated by JHCT with respect to the cash collateral.

The fund has the right to recall loaned securities on demand. If a borrower fails to return loaned securities when due, then the lending agent is responsible and indemnifies the fund for the lent securities. The lending agent uses the collateral received from the borrower to purchase replacement securities of the same issue, type, class and series of the loaned securities. If the value of the collateral is less than the purchase cost of replacement securities, the lending agent is responsible for satisfying the shortfall but only to the extent that the shortfall is not due to any decrease in the value of JHCT.

Although the risk of loss on securities lent is mitigated by receiving collateral from the borrower and through lending agent indemnification, the fund could experience a delay in recovering securities or could experience a lower than expected return if the borrower fails to return the securities on a timely basis. During the existence of the loan, the fund will receive from the borrower amounts equivalent to any dividends, interest or other distributions on the loaned securities, as well as interest on such amounts. The fund receives compensation for lending its securities by retaining a portion of the return on the investment of the collateral and compensation from fees earned from borrowers of the securities. Securities lending income received by the fund is net of fees retained by the securities lending agent. Net income received from JHCT is a component of securities lending income as recorded on the Statement of operations.

Obligations to repay collateral received by the fund are shown on the Statement of assets and liabilities as Payable upon return of securities loaned and are secured by the loaned securities. As of April 30, 2023, the fund loaned securities valued at \$42,121,601 and received \$43,245,282 of cash collateral.

In addition, non-cash collateral of approximately \$1,195,244 in the form of U.S. Treasuries was pledged to the fund. This non-cash collateral is not reflected in the fund's net assets, however could be sold by the securities lending agent in the event of default by the borrower.

Foreign investing. Assets, including investments, and liabilities denominated in foreign currencies are translated into U.S. dollar values each day at the prevailing exchange rate. Purchases and sales of securities, income and expenses are translated into U.S. dollars at the prevailing exchange rate on the date of the transaction. The effect of changes in foreign currency exchange rates on the value of securities is reflected as a component of the realized and unrealized gains (losses) on investments. Foreign investments are subject to a decline in the value of a foreign currency versus the U.S. dollar, which reduces the dollar value of securities denominated in that currency.

Funds that invest internationally generally carry more risk than funds that invest strictly in U.S. securities. These risks are heightened for investments in emerging markets. Risks can result from differences in economic and political conditions, regulations, market practices (including higher transaction costs), accounting standards and other factors.

Foreign taxes. The fund may be subject to withholding tax on income, capital gains or repatriations imposed by certain countries, a portion of which may be recoverable. Foreign taxes are accrued based upon the fund's understanding of the tax rules and rates that exist in the foreign markets in which it invests. Taxes are accrued based on gains realized by the fund as a result of certain foreign security sales. In certain circumstances, estimated taxes are accrued based on unrealized appreciation of such securities. Investment income is recorded net of foreign withholding taxes.

Overdraft. The fund may have the ability to borrow from banks for temporary or emergency purposes, including meeting redemption requests that otherwise might require the untimely sale of securities. Pursuant to the fund's custodian agreement, the custodian may loan money to the fund to make properly authorized payments. The fund is obligated to repay the custodian for any overdraft, including any related costs or expenses. The custodian may have a lien, security interest or security entitlement in any fund property that is not otherwise segregated or pledged, to the extent of any overdraft, and to the maximum extent permitted by law.

Line of credit. The fund and other affiliated funds have entered into a syndicated line of credit agreement with Citibank, N.A. as the administrative agent that enables them to participate in a \$1 billion unsecured committed line of credit. Excluding commitments designated for a certain fund and subject to the needs of all other affiliated funds, the fund can borrow up to an aggregate commitment amount of \$750 million, subject to asset coverage and other limitations as specified in the agreement. A commitment fee payable at the end of each calendar quarter, based on the average daily unused portion of the line of credit, is charged to each participating fund based on a combination of fixed and asset-based allocations and is reflected in Other expenses on the Statement of operations. For the six months ended April 30, 2023, the fund had no borrowings under the line of credit. Commitment fees for the six months ended April 30, 2023 were \$4,916.

Expenses. Within the John Hancock group of funds complex, expenses that are directly attributable to an individual fund are allocated to such fund. Expenses that are not readily attributable to a specific fund are allocated among all funds in an equitable manner, taking into consideration, among other things, the nature and type of expense and the fund's relative net assets. Expense estimates are accrued in the period to which they relate and adjustments are made when actual amounts are known.

Class allocations. Income, common expenses and realized and unrealized gains (losses) are determined at the fund level and allocated daily to each class of shares based on the net assets of the class. Class-specific expenses, such as distribution and service fees, if any, and transfer agent fees, for all classes, are charged daily at the class level based on the net assets of each class and the specific expense rates applicable to each class.

Federal income taxes. The fund intends to continue to qualify as a regulated investment company by complying with the applicable provisions of the Internal Revenue Code and will not be subject to federal income tax on taxable income that is distributed to shareholders. Therefore, no federal income tax provision is required.

For federal income tax purposes, as of October 31, 2022, the fund has a short-term capital loss carryforward of \$132,784,073 and a long-term capital loss carryforward of \$113,094,228 available to offset future net realized capital gains. These carryforwards do not expire.

Due to merger activity in year 2020, the total capital loss carryforward as of October 31, 2022, is limited to \$2,610,689 each fiscal year due to IRC Section 382 limitation. Any unused portion of this limitation will carryforward to the following fiscal years.

As of October 31, 2022, the fund had no uncertain tax positions that would require financial statement recognition, derecognition or disclosure. The fund's federal tax returns are subject to examination by the Internal Revenue Service for a period of three years.

Distribution of income and gains. Distributions to shareholders from net investment income and net realized gains, if any, are recorded on the ex-date. The fund generally declares and pays dividends annually. Capital gain distributions, if any, are typically distributed annually.

Distributions paid by the fund with respect to each class of shares are calculated in the same manner, at the same time and in the same amount, except for the effect of class level expenses that may be applied differently to each class.

Such distributions, on a tax basis, are determined in conformity with income tax regulations, which may differ from US GAAP. Distributions in excess of tax basis earnings and profits, if any, are reported in the fund's financial statements as a return of capital. The final determination of tax characteristics of the distribution will occur at the end of the year and will subsequently be reported to shareholders.

Capital accounts within the financial statements are adjusted for permanent book-tax differences. These adjustments have no impact on net assets or the results of operations. Temporary book-tax differences, if any, will reverse in a subsequent period. Book-tax differences are primarily attributable to foreign currency transactions, different treatment for corporate action and wash sale loss deferrals.

Note 3 — Guarantees and indemnifications

Under the Trust's organizational documents, its Officers and Trustees are indemnified against certain liabilities arising out of the performance of their duties to the Trust, including the fund. Additionally, in the normal course of business, the fund enters into contracts with service providers that contain general indemnification clauses. The fund's maximum exposure under these arrangements is unknown, as this would involve future claims that may be made against the fund that have not yet occurred. The risk of material loss from such claims is considered remote.

Note 4 — Fees and transactions with affiliates

John Hancock Investment Management LLC (the Advisor) serves as investment advisor for the fund. John Hancock Investment Management Distributors LLC (the Distributor), an affiliate of the Advisor, serves as principal underwriter of the fund. The Advisor and the Distributor are indirect, principally owned subsidiaries of John Hancock Life Insurance Company (U.S.A.), which in turn is a subsidiary of Manulife Financial Corporation.

Management fee. The fund has an investment management agreement with the Advisor under which the fund pays a daily management fee to the Advisor, equivalent on an annual basis, to the sum of: (a) 0.750% of the first \$500 million of aggregate average daily net assets, (b) 0.720% of the next \$500 million of aggregate average daily net assets, (c) 0.690% of the next \$1 billion of aggregate average daily net assets, (d) 0.670% of the next \$1 billion of aggregate average daily net assets, (e) 0.660% of the next \$2 billion of aggregate average daily net assets, and (f) 0.650% of aggregate average daily net assets in excess of \$5 billion. Prior to April 1, 2023, the fund had an investment management agreement with the Advisor under which the fund paid a daily management fee to the Advisor equivalent on an annual basis based on the following: If aggregate average daily net assets were less than \$300 million, then the management fee rate was 0.825% of all aggregate average daily net assets. If aggregate average daily net assets equaled or exceeded \$300 million but was less than \$2.5 billion, then the management fee rate was 0.775% of all aggregate average daily net assets. If aggregate average daily net assets exceeded \$2.5 billion, then the following fee schedule applied: a) 0.775% of the first \$2.5 billion of aggregate average daily net assets; b) 0.750% of the next \$500 million of aggregate average daily net assets; and c) 0.725% of the aggregate average daily net assets in excess of \$3 billion. Aggregate net assets include the net assets of the fund, Disciplined Value International Trust (a series of John Hancock Variable Insurance Trust) Manulife Boston Partners International Equity Fund (Canada), the portion of the net assets of Manulife Balanced

Fund (Canada) invested in Boston Partners International Equity Pooled Fund (Canada), and the portion of the net assets of MLI Pension Plus Growth Fund (Canada) invested in Boston Partners International Equity Pooled Fund (Canada). The Advisor has a subadvisory agreement Boston Partners Global Investors, Inc. The fund is not responsible for payment of the subadvisory fees.

The Advisor has contractually agreed to waive a portion of its management fee and/or reimburse expenses for certain funds of the John Hancock group of funds complex, including the fund (the participating portfolios). This waiver is based upon aggregate net assets of all the participating portfolios. The amount of the reimbursement is calculated daily and allocated among all the participating portfolios in proportion to the daily net assets of each fund. During the six months ended April 30, 2023, this waiver amounted to 0.01% of the fund’s average daily net assets, on an annualized basis. This arrangement expires on July 31, 2024, unless renewed by mutual agreement of the fund and the Advisor based upon a determination that this is appropriate under the circumstances at that time.

The Advisor has contractually agreed to reduce its management fee or, if necessary, make payment to the fund, in an amount equal to the amount by which expenses of the fund exceed 0.88% of average daily net assets excluding taxes, brokerage commissions, interest expense, litigation and indemnification expenses and other extraordinary expenses not incurred in the ordinary course of the fund’s business, class-specific expenses, borrowing costs, prime brokerage fees, acquired fund fees and expenses paid indirectly, and short dividend expense. This expense limitation expires on February 28, 2024, unless renewed by mutual agreement of the fund and the Advisor based upon a determination that this is appropriate under the circumstances at that time.

Additionally, the Advisor has contractually agreed to waive and/or reimburse expenses for Class I and Class R6 shares of the fund to the extent they exceed 0.98% and 0.88% of the respective class’s average daily net assets. This expense limitation excludes taxes, brokerage commissions, interest expense, acquired fund fees and expenses paid indirectly, short dividend expense, borrowing costs, prime brokerage fees, litigation and indemnification expenses and other extraordinary expenses not incurred in the ordinary course of the fund’s business. This waiver expires on February 28, 2024, unless renewed by mutual agreement of the fund and the Advisor based upon a determination that this is appropriate under the circumstances at that time.

For the six months ended April 30, 2023, the expense reductions described above amounted to the following:

Class	Expense reduction	Class	Expense reduction
Class A	\$4,394	Class R4	\$7
Class C	202	Class R6	16,415
Class I	10,743	Class NAV	48,936
Class R2	203	Total	\$80,900

Expenses waived or reimbursed in the current fiscal period are not subject to recapture in future fiscal periods.

The investment management fees, including the impact of the waivers and reimbursements as described above, incurred for the six months ended April 30, 2023, were equivalent to a net annual effective rate of 0.75% of the fund’s average daily net assets.

Accounting and legal services. Pursuant to a service agreement, the fund reimburses the Advisor for all expenses associated with providing the administrative, financial, legal, compliance, accounting and recordkeeping services to the fund, including the preparation of all tax returns, periodic reports to shareholders and regulatory reports, among other services. These expenses are allocated to each share class based on its relative net assets at the time the expense was incurred. These accounting and legal services fees incurred, for the six months ended April 30, 2023, amounted to an annual rate of 0.02% of the fund’s average daily net assets.

Distribution and service plans. The fund has a distribution agreement with the Distributor. The fund has adopted distribution and service plans for certain classes as detailed below pursuant to Rule 12b-1 under the 1940 Act, to pay the Distributor for services provided as the distributor of shares of the fund. In addition, under a service plan for certain classes as detailed below, the fund pays for certain other services. The fund may pay up to the following contractual rates of distribution and service fees under these arrangements, expressed as an annual percentage of average daily net assets for each class of the fund's shares:

Class	Rule 12b-1 Fee	Service fee
Class A	0.25%	—
Class C	1.00%	—
Class R2	0.25%	0.25%
Class R4	0.25%	0.10%

The fund's Distributor has contractually agreed to waive 0.10% of Rule 12b-1 fees for Class R4 shares. The current waiver agreement expires on February 28, 2024, unless renewed by mutual agreement of the fund and the Distributor based upon a determination that this is appropriate under the circumstances at the time. This contractual waiver amounted to \$89 for Class R4 shares for the six months ended April 30, 2023.

Sales charges. Class A shares are assessed up-front sales charges, which resulted in payments to the Distributor amounting to \$45,352 for the six months ended April 30, 2023. Of this amount, \$7,634 was retained and used for printing prospectuses, advertising, sales literature and other purposes and \$37,718 was paid as sales commissions to broker-dealers.

Class A and Class C shares may be subject to contingent deferred sales charges (CDSCs). Certain Class A shares purchased, including those that are acquired through purchases of \$1 million or more, and redeemed within one year of purchase are subject to a 1.00% sales charge. Class C shares that are redeemed within one year of purchase are subject to a 1.00% CDSC. CDSCs are applied to the lesser of the current market value at the time of redemption or the original purchase cost of the shares being redeemed. Proceeds from CDSCs are used to compensate the Distributor for providing distribution-related services in connection with the sale of these shares. During the six months ended April 30, 2023, CDSCs received by the Distributor amounted to \$283 and \$10 for Class A and Class C shares, respectively.

Transfer agent fees. The John Hancock group of funds has a complex-wide transfer agent agreement with John Hancock Signature Services, Inc. (Signature Services), an affiliate of the Advisor. The transfer agent fees paid to Signature Services are determined based on the cost to Signature Services (Signature Services Cost) of providing recordkeeping services. It also includes out-of-pocket expenses, including payments made to third-parties for recordkeeping services provided to their clients who invest in one or more John Hancock funds. In addition, Signature Services Cost may be reduced by certain fees that Signature Services receives in connection with retirement and small accounts. Signature Services Cost is calculated monthly and allocated, as applicable, to five categories of share classes: Retail Share and Institutional Share Classes of Non-Municipal Bond Funds, Class R6 Shares, Retirement Share Classes and Municipal Bond Share Classes. Within each of these categories, the applicable costs are allocated to the affected John Hancock affiliated funds and/or classes, based on the relative average daily net assets.

Class level expenses. Class level expenses for the six months ended April 30, 2023 were as follows:

Class	Distribution and service fees	Transfer agent fees
Class A	\$152,823	\$70,237
Class C	28,163	3,235
Class I	—	170,552
Class R2	13,571	287

Class	Distribution and service fees	Transfer agent fees
Class R4	\$308	\$9
Class R6	—	23,165
Total	\$194,865	\$267,485

Trustee expenses. The fund compensates each Trustee who is not an employee of the Advisor or its affiliates. The costs of paying Trustee compensation and expenses are allocated to the fund based on its net assets relative to other funds within the John Hancock group of funds complex.

Interfund lending program. Pursuant to an Exemptive Order issued by the SEC, the fund, along with certain other funds advised by the Advisor or its affiliates, may participate in an interfund lending program. This program provides an alternative credit facility allowing the fund to borrow from, or lend money to, other participating affiliated funds. At period end, no interfund loans were outstanding. The fund's activity in this program during the period for which loans were outstanding was as follows:

Borrower or Lender	Weighted Average Loan Balance	Days Outstanding	Weighted Average Interest Rate	Interest Income (Expense)
Lender	\$6,675,000	4	4.417%	\$3,276

Note 5 — Fund share transactions

Transactions in fund shares for the six months ended April 30, 2023 and for the year ended October 31, 2022 were as follows:

	Six Months Ended 4-30-23		Year Ended 10-31-22	
	Shares	Amount	Shares	Amount
Class A shares				
Sold	1,100,919	\$15,107,248	1,435,044	\$19,123,562
Distributions reinvested	193,743	2,501,228	259,411	3,530,587
Repurchased	(675,037)	(9,247,962)	(1,183,221)	(15,763,785)
Net increase	619,625	\$8,360,514	511,234	\$6,890,364
Class C shares				
Sold	65,771	\$883,671	89,728	\$1,155,183
Distributions reinvested	6,204	80,076	10,834	147,560
Repurchased	(78,462)	(1,083,953)	(140,764)	(1,863,139)
Net decrease	(6,487)	\$(120,206)	(40,202)	\$(560,396)
Class I shares				
Sold	21,477,111	\$294,742,389	6,924,472	\$91,790,627
Distributions reinvested	492,244	6,354,871	163,444	2,226,107
Repurchased	(2,806,335)	(39,083,515)	(2,553,761)	(33,421,298)
Net increase	19,163,020	\$262,013,745	4,534,155	\$60,595,436

	Six Months Ended 4-30-23		Year Ended 10-31-22	
	Shares	Amount	Shares	Amount
Class R2 shares				
Sold	14,869	\$209,301	413,495	\$5,595,831
Distributions reinvested	9,308	120,448	1,608	21,929
Repurchased	(85,491)	(1,150,401)	(15,877)	(207,287)
Net increase (decrease)	(61,314)	\$(820,652)	399,226	\$5,410,473
Class R4 shares				
Sold	376	\$5,115	1,358	\$17,995
Distributions reinvested	300	3,871	424	5,774
Repurchased	(979)	(13,532)	(967)	(13,480)
Net increase (decrease)	(303)	\$(4,546)	815	\$10,289
Class R6 shares				
Sold	4,665,646	\$64,695,550	8,526,378	\$111,245,299
Distributions reinvested	842,541	10,877,205	931,488	12,677,552
Repurchased	(2,608,576)	(35,932,184)	(3,473,541)	(46,184,352)
Net increase	2,899,611	\$39,640,571	5,984,325	\$77,738,499
Class NAV shares				
Sold	747,764	\$10,306,089	5,206,733	\$68,253,384
Distributions reinvested	2,626,003	33,875,441	4,097,881	55,772,157
Repurchased	(12,223,091)	(165,612,062)	(17,630,666)	(247,584,716)
Net decrease	(8,849,324)	\$(121,430,532)	(8,326,052)	\$(123,559,175)
Total net increase	13,764,828	\$187,638,894	3,063,501	\$26,525,490

Affiliates of the fund owned 84% of shares of Class NAV on April 30, 2023. Such concentration of shareholders' capital could have a material effect on the fund if such shareholders redeem from the fund.

Note 6 — Purchase and sale of securities

Purchases and sales of securities, other than short-term investments, amounted to \$986,514,204 and \$828,769,003, respectively, for the six months ended April 30, 2023.

Note 7 — Investment by affiliated funds

Certain investors in the fund are affiliated funds that are managed by the Advisor and its affiliates. The affiliated funds do not invest in the fund for the purpose of exercising management or control; however, this investment may represent a significant portion of the fund's net assets. At April 30, 2023, funds within the John Hancock group of funds complex held 46.3% of the fund's net assets. The following fund(s) had an affiliate ownership of 5% or more of the fund's net assets:

Fund	Affiliated Concentration
John Hancock Funds II Multimanager Lifestyle Growth Portfolio	15.4%
John Hancock Funds II Multimanager Lifestyle Balanced Portfolio	11.8%
John Hancock Funds II Multimanager Lifestyle Aggressive Portfolio	6.7%

Note 8 — Investment in affiliated underlying funds

The fund may invest in affiliated underlying funds that are managed by the Advisor and its affiliates. Information regarding the fund’s fiscal year to date purchases and sales of the affiliated underlying funds as well as income and capital gains earned by the fund, if any, is as follows:

Affiliate	Ending share amount	Beginning value	Cost of purchases	Proceeds from shares sold	Realized gain (loss)	Change in unrealized appreciation (depreciation)	Dividends and distributions		Ending value
							Income distributions received	Capital gain distributions received	
John Hancock Collateral Trust*	4,324,111	—	\$279,859,021	\$(236,624,131)	\$(9,148)	\$2,832	\$216,356	—	\$43,228,574

* Refer to the Securities lending note within Note 2 for details regarding this investment.

STATEMENT REGARDING LIQUIDITY RISK MANAGEMENT

Operation of the Liquidity Risk Management Program

This section describes the operation and effectiveness of the Liquidity Risk Management Program (LRMP) established in accordance with Rule 22e-4 under the Investment Company Act of 1940, as amended (the Liquidity Rule). The Board of Trustees (the Board) of each Fund in the John Hancock Group of Funds (each a Fund and collectively, the Funds) that is subject to the requirements of the Liquidity Rule has appointed John Hancock Investment Management LLC and John Hancock Variable Trust Advisers LLC (together, the Advisor) to serve as Administrator of the LRMP with respect to each of the Funds, including John Hancock Disciplined Value International Fund, subject to the oversight of the Board. In order to provide a mechanism and process to perform the functions necessary to administer the LRMP, the Advisor established the Liquidity Risk Management Committee (the Committee). The Fund's subadvisor, Boston Partners Global Investors, Inc. (the Subadvisor) executes the day-to-day investment management and security-level activities of the Fund in accordance with the requirements of the LRMP, subject to the supervision of the Advisor and the Board.

The Committee receives monthly reports and holds quarterly in person meetings to: (1) review the day-to-day operations of the LRMP; (2) monitor current market and liquidity conditions and assess liquidity risks; (3) review and approve month-end liquidity classifications; (4) monitor illiquid investment levels against the 15% limit on illiquid investments and established Highly Liquid Investment Minimums (HLIMs), if any; (5) review quarterly testing and determinations, as applicable; (6) review redemption-in-kind activities; and (7) review other LRMP related material. The Advisor also conducts daily, monthly, quarterly, and annual quantitative and qualitative assessments of each subadvisor to a Fund that is subject to the requirements of the Liquidity Rule and is a part of the LRMP to monitor investment performance issues, risks and trends. In addition, the Advisor may conduct ad-hoc reviews and meetings with subadvisors as issues and trends are identified, including potential liquidity issues. The Committee also monitors global events, such as the ongoing Russian invasion of Ukraine and related U.S. imposed sanctions on the Russian government, companies and oligarchs, and other amendments to the Office of Foreign Assets Control sanctioned company lists, that could impact the markets and liquidity of portfolio investments and their classifications. In addition, the Committee monitors macro events and assesses their potential impact on liquidity brought on by fear of contagion (e.g. regional banking crisis).

The Committee provided the Board at a meeting held on March 28-30, 2023 with a written report which addressed the Committee's assessment of the adequacy and effectiveness of the implementation and operation of the LRMP and any material changes to the LRMP. The report, which covered the period January 1, 2022 through December 31, 2022, included an assessment of important aspects of the LRMP including, but not limited to: (1) Security-level liquidity classifications; (2) Fund-level liquidity risk assessment; (3) Reasonably Anticipated Trade Size (RATS) determination; (4) HLIM determination and daily monitoring; (5) Daily compliance with the 15% limit on illiquid investments; (6) Operation of the Fund's Redemption-In-Kind Procedures; and (7) Review of liquidity management facilities.

The report provided an update on Committee activities over the previous year. Additionally, the report included a discussion of notable changes and enhancements to the LRMP implemented during 2022 and key initiatives for 2023.

The report also covered material liquidity matters which occurred or were reported during this period applicable to the Fund, if any, and the Committee's actions to address such matters.

The report stated, in relevant part, that during the period covered by the report:

- The Fund's investment strategy remained appropriate for an open-end fund structure;
- The Fund was able to meet requests for redemption without significant dilution of remaining shareholders' interests in the Fund;

- The Fund did not experience any breaches of the 15% limit on illiquid investments, or any applicable HLIM, that would require reporting to the Securities and Exchange Commission;
- The Fund continued to qualify as a Primarily Highly Liquid Fund under the Liquidity Rule and therefore is not required to establish a HLIM; and
- The Chief Compliance Officer's office, as a part of their annual Rule 38a-1 assessment of the Fund's policies and procedures, reviewed the LRMP's control environment and deemed it to be operating effectively and in compliance with the Board approved procedures.

Adequacy and Effectiveness

Based on the annual review and assessment conducted by the Committee, the Committee has determined that the LRMP and its controls have been implemented and are operating in a manner that is adequately and effectively managing the liquidity risk of the Fund.

More information

Trustees

Hassell H. McClellan, *Chairperson*
Steven R. Pruchansky, *Vice Chairperson*
Andrew G. Arnott[†]
James R. Boyle
William H. Cunningham^{*}
Grace K. Fey
Noni L. Ellison[^]
Dean C. Garfield[^]
Marianne Harrison^{†, #}
Deborah C. Jackson
Patricia Lizarraga^{†, ^}
Paul Lorentz[†]
Frances G. Rathke^{*}
Gregory A. Russo

Officers

Andrew G. Arnott
President
Charles A. Rizzo
Chief Financial Officer
Salvatore Schiavone
Treasurer
Christopher (Kit) Sechler
Secretary and Chief Legal Officer
Trevor Swanberg
Chief Compliance Officer

[†] Non-Independent Trustee

^{*} Member of the Audit Committee

[^] Elected to serve as Independent Trustee effective as of September 9, 2022.

[#] Ms. Harrison is retiring effective May 1, 2023.

[‡] Elected to serve as Non-Independent Trustee effective as of September 9, 2022.

¹ Effective December 31, 2023, Joseph F. Feeney, Jr. will no longer serve as a portfolio manager for the fund.

The fund's proxy voting policies and procedures, as well as the fund proxy voting record for the most recent twelve-month period ended June 30, are available free of charge on the Securities and Exchange Commission (SEC) website at [sec.gov](https://www.sec.gov) or on our website.

All of the fund's holdings as of the end of the third month of every fiscal quarter are filed with the SEC on Form N-PORT within 60 days of the end of the fiscal quarter. The fund's Form N-PORT filings are available on our website and the SEC's website, [sec.gov](https://www.sec.gov).

We make this information on your fund, as well as **monthly portfolio holdings**, and other fund details available on our website at jhinvestments.com or by calling 800-225-5291.

Investment advisor

John Hancock Investment Management LLC

Subadvisor

Boston Partners Global Investors, Inc.

Portfolio Managers

Joseph F. Feeney, Jr., CFA¹
Christopher K. Hart, CFA
Joshua M. Jones, CFA

Principal distributor

John Hancock Investment Management Distributors LLC

Custodian

Citibank, N.A.

Transfer agent

John Hancock Signature Services, Inc.

Legal counsel

K&L Gates LLP

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You may revoke your consent at any time by simply visiting jhinvestments.com/login and following the instructions above. You may also revoke consent by calling 800-225-5291 or by writing to us at the following address: John Hancock Signature Services, Inc., P.O. Box 219909, Kansas City, MO 64121-9909. We reserve the right to deliver documents to you on paper at any time should the need arise.

Brokerage account shareholders

If you receive statements directly from your bank or broker and would like to participate in eDelivery, go to **icsdelivery/live** or contact your financial representative.

John Hancock family of funds

U.S. EQUITY FUNDS

Blue Chip Growth
Classic Value
Disciplined Value
Disciplined Value Mid Cap
Equity Income
Financial Industries
Fundamental All Cap Core
Fundamental Large Cap Core
Mid Cap Growth
New Opportunities
Regional Bank
Small Cap Core
Small Cap Growth
Small Cap Value
U.S. Global Leaders Growth
U.S. Growth

INTERNATIONAL EQUITY FUNDS

Disciplined Value International
Emerging Markets
Emerging Markets Equity
Fundamental Global Franchise
Global Environmental Opportunities
Global Equity
Global Shareholder Yield
Global Thematic Opportunities
International Dynamic Growth
International Growth
International Small Company

FIXED-INCOME FUNDS

Bond
California Municipal Bond
Emerging Markets Debt
Floating Rate Income
Government Income
High Yield
High Yield Municipal Bond
Income
Investment Grade Bond
Money Market
Municipal Opportunities
Opportunistic Fixed Income
Short Duration Bond
Short Duration Municipal Opportunities
Strategic Income Opportunities

ALTERNATIVE FUNDS

Alternative Asset Allocation
Diversified Macro
Infrastructure
Multi-Asset Absolute Return
Real Estate Securities
Seaport Long/Short

A fund's investment objectives, risks, charges, and expenses should be considered carefully before investing. The prospectus contains this and other important information about the fund. To obtain a prospectus, contact your financial professional, call John Hancock Investment Management at 800-225-5291, or visit our website at jhinvestments.com. Please read the prospectus carefully before investing or sending money.

EXCHANGE-TRADED FUNDS

John Hancock Corporate Bond ETF
John Hancock International High Dividend ETF
John Hancock Mortgage-Backed Securities ETF
John Hancock Multifactor Developed International ETF
John Hancock Multifactor Emerging Markets ETF
John Hancock Multifactor Large Cap ETF
John Hancock Multifactor Mid Cap ETF
John Hancock Multifactor Small Cap ETF
John Hancock Preferred Income ETF
John Hancock U.S. High Dividend ETF

ASSET ALLOCATION/TARGET DATE FUNDS

Balanced
Multi-Asset High Income
Lifestyle Blend Portfolios
Lifetime Blend Portfolios
Multimanager Lifestyle Portfolios
Multimanager Lifetime Portfolios
Preservation Blend Portfolios

ENVIRONMENTAL, SOCIAL, AND GOVERNANCE FUNDS

ESG Core Bond
ESG International Equity
ESG Large Cap Core

CLOSED-END FUNDS

Asset-Based Lending
Financial Opportunities
Hedged Equity & Income
Income Securities Trust
Investors Trust
Preferred Income
Preferred Income II
Preferred Income III
Premium Dividend
Tax-Advantaged Dividend Income
Tax-Advantaged Global Shareholder Yield

John Hancock ETF shares are bought and sold at market price (not NAV), and are not individually redeemed from the fund. Brokerage commissions will reduce returns.

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We serve investors globally through a unique multimanager approach: We search the world to find proven portfolio teams with specialized expertise for every strategy we offer, then we apply robust investment oversight to ensure they continue to meet our uncompromising standards and serve the best interests of our shareholders.

Results for investors

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